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# **foremast Documentation**

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**Gogo DevOps**

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## Getting Started

- *Quick Start Guide*
  - *Installation*
    - \* *Method 1 - Using pip (Preferred)*
    - \* *Method 2 - Using git*
  - *Configuration Files*
  - *Running*

This getting started guide will walk through the process of using Foremast to create an application in Spinnaker and dynamically generate a basic Spinnaker pipeline.

Getting started with Foremast consists of the following steps:

1. Setting up configuration files
2. Installing Foremast
3. Setting up the variables
4. Running Foremast

### Quick Start Guide

In this section, we will install, configure and run Foremast to create a basic pipeline.

## Installation

### Setting up the environment

```
$ pip3 install virtualenv
$ virtualenv -p $(which python3) venv
$ source venv/bin/activate
```

### Method 1 - Using pip (Preferred)

```
$ pip install foremast
```

### Method 2 - Using git

```
$ git clone https://github.com/gogoit/foremast.git
$ cd foremast
$ pip3 install -U .
```

## Configuration Files

Create a runway and `.foremast` directory and go into runway directory.

```
$ mkdir runway .foremast
```

Create `pipeline.json` in runway directory

```
{
  "deployment": "spinnaker",
  "env": [ "dev" ]
}
```

Create `application-master-dev.json` in runway directory.

```
{
  "app": {
    "instance_type": "t2.micro"
  },
  "asg": {
    "max_inst": 1,
    "min_inst": 1
  },
  "regions": [
    "us-east-1"
  ]
}
```

Go to `.foremast` directory and create the `foremast.cfg` file.

```
[base]
domain = example.com
envs = dev,prod
regions = us-east-1
gate_api_url = http://gate.example.com:8084
```

You should now see something similar structure.

```
$ tree -a
.
- .foremast
  | - foremast.cfg
- runway
  - application-master-dev.json
  - pipeline.json

2 directories, 3 files
```

## Running

Now from within the root directory, run `foremast-pipeline`.

```
$ GIT_REPO=hello PROJECT=world RUNWAY_DIR=runway/ foremast-pipeline
```

This will create an application in Spinnaker named `helloworld` along with a simple pipeline.

## Pipeline Flow and Examples

- *Default Pipeline Flow*
- *Custom Pipelines*
- *Example Workflow*

Foremast generates a single pipeline per region. The pipeline is designed to allow deploying to multiple environment with checkpoints between each transition.

### Default Pipeline Flow

The below flow can repeat for as many environments as defined in the configs. At Gogo, most applications go through these stages 3 times as we deploy to dev, stage, and production.

1. Configuration
  - This stages defines the Jenkins trigger, property files, and pipeline-wide notifications
2. Bake
  - Bakes an AMI the specified AMI ID
3. Infrastructure Setup [`$env`]
  - Calls a Jenkins job to run the `prepare-infrastructure` Foremast command against a specific account.
  - Setups AWS infrastructure such as ELB, IAM roles, S3 bucket, and DNS needed for an application
4. Deploy `$env`
  - Uses Spinnaker to create a cluster and server group in specific account.

- The behavior of this stage is largely based on the *application-master-\$account.json* configs.

#### 5. Attach Scaling Policy [\$env]

- If a scaling policy is defined in *application-master-\$account.json*, attaches it to the deployed server group
- If no policy is defined, this stage is excluded

#### 6. Checkpoint \$next-env

- A manual checkpoint stage. This requires human intervention to approve deployment to the next environment.

Stages 3-6 repeat for each environment/account defined in *pipeline.json*.



The default generated pipeline should look like the above image. This is the basic *bake -> infrastructure -> deploy -> checkpoint* pipeline described above.

## Custom Pipelines

You can specify an external templates directory in *foremast.cfg / config.py*. Templates in an external directory will need to have the same directory structure and naming as the default templates. If *templates\_path* is set in *foremast.cfg / config.py*, Foremast will first see if the file exists there. If not, it will fall back to the provided templates.

If you need to add more stages or change the defaults, this is all possible via external templates. Please see the [foremast-templates repo](#) for examples on the templates.

## Example Workflow

At Gogo we have a detailed workflow for using Foremast internally. Feel free to copy our workflow or use it as inspiration for your own. You can view all of our internal templates on the [foremast-templates repo](#).



1. the *application-master-\$account.json* and *pipeline.json* are bundled directly with the application code
2. Developer makes a change to one of those configs and pushes to the application's git repository
3. A server-side git hook detects a change and triggers a Jenkins job to run `Foremast prepare-app-pipeline`. This regenerates the application and pipeline in Spinnaker
4. The application artifacts are build using a Jenkins job and stored as an RPM
5. Spinnaker triggers detect a completed Jenkins jobs and starts a new deployment pipeline
  - (a) Bakes an AMI using build RPM
  - (b) Runs a Jenkins job to run `Foremast prepare-infrastructure`. This builds out the AWS ELB, SG, S3 bucket, and IAM roles
  - (c) Runs a Jenkins jobs to tag the effected git repository with AMI info



- (d) Deploys the generated AMI to desired environments
- (e) Runs QE/QA checks against deployed application
- (f) Tags the repository with deployment information
- (g) Attaches defined scaling policies
- (h) Wants for manual judgment before continuing to the next stage

## Configuration Files

### foremast.cfg / config.py

- *Purpose*
- *Example Configuration*
- *Configuration Locations*
- *Configuration Details*
  - *[base]*
    - \* *domain*
    - \* *envs*
  - *types*
    - \* *regions*
    - \* *ami\_json\_url*
    - \* *gitlab\_url*
    - \* *gate\_api\_url*
    - \* *templates\_path*
    - \* *default\_ec2\_securitygroups*
    - \* *default\_elb\_securitygroups*
    - \* *'default\_securitygroup\_rules'*
    - \* *gate\_client\_cert*
    - \* *gate\_ca\_bundle*
  - *[credentials]*
    - \* *gitlab\_token*
    - \* *slack\_token*
  - *[whitelists]*
    - \* *asg\_whitelist*
  - *[formats]*
    - \* *domain*

```
* app
* dns_elb
* s3_bucket
* jenkins_job_name
- [task_timeouts]
* default
* envs
```

## Purpose

This configuration holds information necessary for running foremast such as auth tokens, URLs, whitelists etc

## Example Configuration

```
; foremast.cfg
[base]
domain = example.com
envs = dev,stage,prod
regions = us-east-1,us-west-2
ami_json_url = http://s3.bucketname.com/ami_lookup.json
git_url = https://git.example.com
gate_api_url = http://gate-api.example.com:8084
templates_path = ../../foremast-templates
default_securitygroup_rules = { "bastion" : [ { "start_port": "22", "end_port": "22",
↪ "protocol": "tcp" } ],
                                "serviceapp" : [ { "start_port": "8080", "end_port":
↪ "8080", "protocol": "tcp" } ] }

[credentials]
gitlab_token = 123token23423343
slack_token = 123slack3203120312

[whitelists]
asg_whitelist = application1,application2

[formats]
app = {project}{repo}
dns_elb = lb-{project}{repo}.{env}.{domain}
s3_bucket = secret-{env}-{project}

[task_timeouts]
default = 120
envs = { "dev" : { "deleteScalingPolicy": 240} }
```

```
# config.py
CONFIG = {
    'base': {
        'domain': 'example.com',
        'envs': 'dev,stage,prod',
        'regions': 'us-east-1,us-west-2',
```

```

'ami_json_url': 'http://s3.bucketname.com/ami_lookup.json',
'git_url': 'https://git.example.com',
'gate_api_url': 'http://gate-api.example.com:8084',
'templates_path': '../..foremast-templates',
'default_securitygroup_rules': {
    'bastion': [{'start_port': '22', 'end_port': '22', 'protocol': 'tcp'}],
    'serviceapp': [{'start_port': '8080', 'end_port': '8080', 'protocol': 'tcp
↪ ' }],
    },
},
'credentials': {
    'gitlab_token': '123token23423343',
    'slack_token': '123slack3203120312',
},
'whitelists': {
    'asg_whitelist': 'application1,application2',
},
'formats': {
    'app': '{project}{repo}',
    'dns_elb': 'lb-{project}{repo}.{env}.{domain}',
    's3_bucket': 'secret-{env}-{project}',
},
'timeouts': {
    'default': 120,
    'envs': { 'dev': { 'deleteScalingPolicy': 240 } },
}
}

```

## Configuration Locations

Foremast will look in the following locations, in order, for the `foremast.cfg` or `config.py` config file.

1. `./.foremast/foremast.cfg`
2. `~/.foremast/.foremast.cfg`
3. `/etc/foremast/foremast/cfg`
4. `./config.py`

## Configuration Details

### [base]

Sections for base information such as urls and general configurations

### domain

The base domain of your applications. Used for generating DNS

*Required: Yes*

### **envs**

Comma delimited list of environments/applications that will be managed with Foremast

*Example:* dev, stage, prod

*Required:* Yes

### **types**

List of foremast managed Pipeline types to allow.

*Type:* str

*Example:* ec2, lambda, manual

*Default:* ec2, lambda

*Required:* No

### **regions**

Comma delimited list of AWS regions managed by Foremast

*Example:* us-east-1, us-west-2

*Required:* Yes

### **ami\_json\_url**

FQDN of where to query for AMI ID look ups. See [ami-lookup.json](#) for more details

*Required:* No

### **gitlab\_url**

FQDN of gitlab. Will be used for handling API calls to Gitlab

*Required:* No

### **gate\_api\_url**

FQDN Of your spinnaker Gate instance. This is where all API calls to Spinnaker will go

*Required:* Yes

### **templates\_path**

Path to custom templates directory. If provided, Foremast will first look in this directory for any templates. This can be an absolute path, or a path relative to where you where you are running the Foremast commands. See [Pipeline Flow and Examples](#) for more details on custom templates.

*Required:* No

### default\_ec2\_securitygroups

Comma separated list or json of EC2 security groups to include for all deployments. If a comma separated list is given, the groups are applied to all environments. If a json is provide, it assigns groups only to the specified environment.

*Required:* No

*Example:* office,test\_sg,example

*Example (json):* {"dev": ["sg1", "sg2"], "stage": ["sg3"]}

### default\_elb\_securitygroups

Comma separated list or json of ELB security groups to include for all deployments. If a comma separated list is given, the groups are applied to all environments. If a json is provide, it assigns groups only to the specified environment.

*Required:* No

*Example:* test\_sg,example\_elb\_sg

*Example (json):* {"dev": ["sg1", "sg2"], "stage": ["sg3"]}

### 'default\_securitygroup\_rules'

*Required:* No

*Example:* { "bastion" : [ { "start\_port": "22", "end\_port": "22", "protocol": "tcp" } ] }

### gate\_client\_cert

If accessing Gate via x509 certificate authentication, this value provides the local path to the certificate. Only PEM certs are supported at this time (containing both the key and certificate in the PEM).

*Required:* No

*Example:* /var/certs/gate-cert.pem

### gate\_ca\_bundle

If accessing Gate via x509 leveraging a custom certificate authority (such as acting as your own CA), this value provides the local path to the CA bundle. It is recommended to use an existing CA Bundle and append your CA certificate to it (<https://certifi.io/en/latest/>)

*Required:* No

*Example:* /var/certs/CA.pem

## [credentials]

Section for handling credential configurations such as tokens, usernames, and passwords

### gitlab\_token

Gitlab token used for authentication in Foremast

*Required:* No

### **slack\_token**

Slack token used for authentication when sending Slack messages from Foremast

*Required:* No

### **[whitelists]**

Sections for configuring whitelist info

### **asg\_whitelist**

Comma delimited list of applications to whitelist from ASG rules

*Required:* No

### **[formats]**

Section handling the naming convention of applications, elb, iam, s3 buckets and other services.

The most common sections are shown. The complete list of sections and defaults are defined by the underlying library [gogo-utils](#).

Any of the possible variables below can be used as the value.

- `domain` organization domain
- `env` dev, qa, production, etc
- `project` lowercase git group/organization
- `repo` lowercase git project/repository
- `raw_project` git group/organization
- `raw_repo` git project/repository

### **domain**

A string of your organization's domain

*Default:* example.com

*Required:* No

### **app**

A string of the format of your application

*Default:* {repo}{project}

*Required:* No

### **dns\_elb**

An FQDN of your application's Elastic Load Balancer (ELB)

*Default:* {repo}.{project}.{env}.{domain}

*Required:* No

### **s3\_bucket**

An string of your base S3 bucket name

*Default:* archaius-{env}

*Required:* No

### **jenkins\_job\_name**

An string of the format of the application's jenkins job name

*Default:* {project}\_{repo}

*Required:* No

### **[task\_timeouts]**

Section handling customization of task timeouts when communicating with Spinnaker.

Timeouts can vary per environment and per task.

### **default**

The default task timeout value

*Default:* 120

*Required:* No

### **envs**

A json object keyed by environment name. Each value should be a json object keyed by task name.

*Default:* 120

*Required:* No

## **pipeline.json**

- *Purpose*
- *Example Configuration*
- *Configuration Details*

- *type*
- *owner\_email*
- *documentation*
- *notifications Block*
  - \* *email*
  - \* *slack*
- *promote\_restrict*
- *base*
- *env*
- *pipeline\_files*
- *image Block*
  - \* *root\_volume\_size*
- *lambda Block*
  - \* *app\_description*
  - \* *runtime*
  - \* *handler*
  - \* *vpc\_enabled*
- *services Block*
  - \* *cloudformation*
  - \* *cloudwatchlogs*
  - \* *cloudwatch*
  - \* *dynamodb*
  - \* *elasticsearch*
  - \* *firehose*
  - \* *kinesis*
  - \* *lambda*
  - \* *rds-db*
  - \* *s3*
  - \* *sdb*
  - \* *ses*
  - \* *sns*
  - \* *sqs*
- *chaos\_monkey Block*
  - \* *enabled*
  - \* *mean\_time*
  - \* *minimum\_time*



---

\* *exceptions*

---

## Purpose

This configuration file is used for defining pipeline settings that affect the pipeline as a whole, not a specific account/environment.

## Example Configuration

```
{
  "type": "ec2",
  "owner_email": "",
  "documentation": "",
  "notifications": {
    "email": "",
    "slack": ""
  },
  "promote_restrict": "none",
  "base": "tomcat8",
  "env": ["stage", "prod"],
  "primary_region": "us-east-1",
  "image": {
    "root_volume_size": 6,
    "builder": "ebs"
  },
  "lambda": {
    "app_description": "default description",
    "runtime": "java8",
    "handler": "main",
    "vpc_enabled": false
  },
  "pipeline_files": [],
  "chaos_monkey": {
    "enabled": false,
    "mean_time": 5,
    "minimum_time": 3,
    "exceptions": []
  }
}
```

## Configuration Details

### type

Specifies what type of pipeline to use for the application.

*Default:* "ec2"

*Options:*

- "lambda" - Sets up the AWS Lambda pipeline and infrastructure
- "ec2" - Sets up the AWS EC2 pipeline and infrastructure
- "datapipeline" - Sets up the AWS Data Pipeline infrastructure

- "manual" - Create Pipelines from raw JSON, use with *pipeline\_files*.

#### **owner\_email**

The application owners email address. This is not used directly in the pipeline but can be consumed by other tools

*Default:* null

#### **documentation**

Link to the applications documentation. This is not used directly in the pipeline but can be consumed by other tools

*Default:* null

#### **notifications Block**

Where to send pipeline failure notifications

#### **email**

Email address to send pipeline failures (email must be configured in Spinnaker Echo)

*Default:* null

#### **slack**

Slack channel to send pipeline failures (Slack must be configured in Spinnaker Echo)

*Default:* null

#### **promote\_restrict**

Restriction setting for promotions to prod\* accounts.

*Default:* "none"

*Options:*

- "masters-only" - only masters/owners on a repository can approve deployments
- "members-only" - Any member of a repository can approve deployments
- "none" - No restrictions

#### **base**

The base AMI to use for baking the application. This can be an alias defined in *ami-lookup.json* or an AMI Id.

*Default:* "tomcat8"

**env**

List of accounts that the application will be deployed to. Order matters as it defines the order of the pipeline. The accounts should be named the same as you have them in Spinnaker Clouddriver

*Type:* List of strings

*Default:* ["stage", "prod"]

**pipeline\_files**

List of JSON files to use for manual *type*.

*Type:* list

*Default:* []

**image Block**

Holds settings for the baked image

**root\_volume\_size**

Defines the root volume size of the resulting AMI in GB

*Type:* int

*Units:* Gigabyte

*Default:* 6

**lambda Block**

Holds settings related to lambda deployments

**app\_description**

Lambda function description

*Default:* "default description"

**runtime**

The runtime environment for the Lambda function

*Default:* "java8"

*Options:*

- "java8"
- "nodejs"
- "nodejs4.3"
- "python2.7"

- "python3.6"

### **handler**

The function that Lambda calls to begin execution

*Default:* "main"

### **vpc\_enabled**

Whether or not the Lambda function should use a VPC

*Type:* Boolean

*Default:* false

### **services Block**

Access to different Cloud Services will be added to an inline Policy for an IAM Role. Keys must match with a corresponding template in `src/foremast/templates/infrastructure/iam/key.json.j2`.

### **cloudformation**

Add CloudFormation access.

*Type:* bool

*Default:* false

### **cloudwatchlogs**

Add CloudWatch Logs access. Lambda Functions will automatically have this added.

*Type:* bool

*Default:* false

### **cloudwatch**

Add CloudWatch Limited access.

*Type:* bool

*Default:* false

### **dynamodb**

Add DynamoDB access to tables listed.

*Type:* list

*Default:* []

### **elasticsearch**

Add ElasticSearch access to domains listed.

*Type:* list

*Default:* []

### **firehose**

Add Firehose access to streams listed.

*Type:* list

*Default:* []

### **kinesis**

Add Kinesis Streams access to streams listed.

*Type:* list

*Default:* []

### **lambda**

Add Lambda access.

*Type:* bool

*Default:* false

### **rds-db**

Add RDS-DB Connect access to RDS DB Name/RDS DB User key pairs listed. (<http://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/UsingWithRDS.IAMDBAuth.html>)

*Type:* dict

*Default:* {}

*Example:* {"dbi\_resource\_id": "db\_user", "\*": "example\_user"}`

### **s3**

Add S3 access. You may need to override default templates, see [templates\\_path](#). Alternatively, you can provide a list of s3 bucket names to be added to the instance profile.

*Type:* bool -or- list

*Default:* false

### **sdb**

Add SimpleDB access to SimpleDB Domains listed.

*Type:* list

*Default:* []

### **ses**

Add SES access.

*Type:* bool

*Default:* false

### **sns**

Add SNS access.

*Type:* bool

*Default:* false

### **sq3**

Add SQS access.

*Type:* bool

*Default:* false

## **chaos\_monkey Block**

Key that configures Chaos Monkey

### **enabled**

Enable or disable Chaos Monkey

*Type:* Boolean

*Default:* false

### **mean\_time**

Mean time between terminations. If mean\_time is n, then the probability of a termination on each day is 1/n

*Type:* Int

*Default:* 5

*Units:* Days

### **minimum\_time**

Minimum time between terminations

*Type:* Int

*Default:* 3

*Units:* Days

## exceptions

Accounts that Chaos Monkey will not affect

*Type:* List of strings

*Default:* []

## application-master-\$account.json

- *Purpose*
- *Example Configuration*
- *Configuration Details*
  - *app Block*
    - \* *app\_description*
    - \* *eureka\_enabled*
    - \* *instance\_profile*
    - \* *instance\_type*
    - \* *lambda\_environment*
      - *lambda\_environment* Keys
      - *lambda\_environment* Example
    - \* *lambda\_memory*
    - \* *lambda\_role*
    - \* *lambda\_timeout*
  - *asg Block*
    - \* *hc\_type*
    - \* *app\_grace\_period*
    - \* *max\_inst*
    - \* *min\_inst*
    - \* *ssh\_keypair*
    - \* *subnet\_purpose*
    - \* *enable\_public\_ips*
    - \* *scaling\_policy*
      - *scaling\_policy* Keys
      - *scaling\_policy* Example
  - *elb Block*
    - \* *access\_log*
      - *access\_log* Keys

```
* connection_draining_timeout
* certificate
* health
  · health Keys
* idle_timeout
* ports
  · ports Keys
  · ports Example
* subnet_purpose
* target
- regions Key
- deploy_strategy Key
- security_group Block
  * description
  * elb_extras
  * instance_extras
  * ingress
  * egress
  * security_group Example
- dns Block
  * ttl
- lambda_triggers
- datapipeline Block
  * name
  * description
  * activate_on_deploy
  * json_definition
```

## Purpose

This configuration file holds infrastructure information for \$account. Each AWS account in your pipeline would need a separate application-master-\$account.json file. If your account is named dev, you would want an application-master-dev.json file.

## Example Configuration

```
{
  "app": {
```



```

    "app_description": null,
    "email": null,
    "eureka_enabled": false,
    "instance_profile": "{{ profile }}",
    "instance_type": "t2.micro",
    "lambda_environment": null,
    "lambda_memory": "128",
    "lambda_role": null,
    "lambda_timeout": "30",
    "canary": false
  },
  "asg": {
    "hc_type": "ELB",
    "hc_grace_period": 180,
    "app_grace_period": 0,
    "max_inst": 3,
    "min_inst": 1,
    "ssh_keypair": null,
    "subnet_purpose": "internal",
    "enable_public_ips": null,
    "provider_healthcheck": {
      "amazon": false
    },
    "scaling_policy": {}
  },
  "elb": {
    "certificate": null,
    "policies": [],
    "listener_policies": [],
    "backend_policies": [],
    "idle_timeout": null,
    "access_log": {},
    "connection_draining_timeout": null,
    "health": {
      "interval": 20,
      "threshold": 2,
      "timeout": 10,
      "unhealthy_threshold": 5
    },
    "i_port": 8080,
    "i_proto": "HTTP",
    "lb_port": 80,
    "lb_proto": "HTTP",
    "subnet_purpose": "internal",
    "target": "TCP:8080"
  },
  "qe": {
  },
  "regions": [
    "us-east-1"
  ],
  "deploy_strategy": "highlander",
  "security_group": {
    "description": "Auto-Gen SG for {{ app }}",
    "egress": "0.0.0.0/0",
    "elb_extras": [],
    "ingress": {
    },
  },

```

```
    "instance_extras": []
  },
  "dns": {
    "ttl": 60,
    "failover_dns": true,
    "region_specific": true
  },
  "lambda_triggers": [],
  "s3": {
    "shared_bucket_master": false,
    "path": "/",
    "bucket_acl": "private",
    "bucket_policy": {},
    "website": {
      "enabled": true,
      "index_suffix": "index.html",
      "error_document": " "
    }
  },
  "datapipeline": {
    "description": "",
    "activate_on_deploy": false,
    "json_definition": {}
  }
}
```

## Configuration Details

### app Block

Top level key that contains information on the application and EC2 details

#### app\_description

Describes the application.

*Default:* null

#### eureka\_enabled

Setting this value to `true` will not create an ELB, DNS record, and set the ASG health check to EC2.

*Type:* Boolean

*Default:* false

#### instance\_profile

The instance profile to start EC2 instances with.

*Default:* "\${stack}\_\${app}\_profile" - Profile with this name will be created by default. Other profiles need to be created before usage

### `instance_type`

The size/type of the EC2 instance. Uses Standard AWS instance names. See <https://aws.amazon.com/ec2/instance-types/> for details

*Default:* "t2.micro"

### `lambda_environment`

Environment variables which are passed to the lambda function.

#### `lambda_environment` *Keys*

Variables : Dictionary of environment variables.

*Type:* Dict

*Default:* null

#### `lambda_environment` *Example*

```
"environment": {
  "Variables": {
    "VAR1": "val1",
    "VAR2": "val2",
    "VAR3": "val3"
  }
}
```

### `lambda_memory`

The amount of memory to give a Lambda function

*Default:* "128"

*Units:* Megabytes

### `lambda_role`

Override the default generated IAM Role name.

*Default:* "\${stack}\_\${app}\_role"

### `lambda_timeout`

The timeout setting for Lambda function

*Default:* "3600"

*Units:* Seconds

## asg Block

Top level key containing information regarding application ASGs

### hc\_type

---

**Note:** See `foremast.pipeline.construct_pipeline_block.construct_pipeline_block()` for cases where the Health Check type is overridden to "EC2".

---

ASG Health check type (EC2 or ELB)

*Default:* "ELB"

*Options:*

- "ELB"
- "EC2"

### app\_grace\_period

App specific health check grace period (added onto default ASG healthcheck grace period) to delay sending of health check requests. This is useful in the event your application takes longer to boot than the default `hc_grace_period` defined in templates. For example, `hc_grace_period` may be 180 seconds, but an app may need a variable amount of time to boot (say 30 seconds extra). This will add 180 + 30 to calculate the overall `hc_grace_period` of 210 seconds.

*Default:* 0

*Units:* Seconds

### max\_inst

Maximum number of instances ASG will scale to.

*Type:* int

*Default:* 3

### min\_inst

Minimum number of instances your auto-scaling group should have at all times. This is also the default number of instances

*Type:* int

*Default:* 1

### ssh\_keypair

SSH key that your EC2 instances will use. Must already be created in AWS. This replaces the non-functional and deprecated `app_ssh_key` configuration key.

*Default:* "`{{ account }}_{{ region }}_default`" - `{{ account }}` being the AWS account in the configuration name

### **subnet\_purpose**

Determines if the instances should be public (external) or non-public (internal).

*Default:* "internal"

*Options*

- "internal"
- "external"

### **enable\_public\_ips**

Determines if instances in an cluster should have public IPs associated. By default, this is set to null which means it uses default behavior configured for your subnets in your cloud provider.

*Type:* boolean

*Default:* null

*Options*

- true
- false

### **scaling\_policy**

Defines scaling policy to attach to ASG. If this block does not exist, no scaling policy will be attached

#### **scaling\_policy Keys**

`metric` : The CloudWatch metric to trigger auto-scaling events.

*Default:* "CPUUtilization"

*Options:*

- "CPUUtilization"
- "NetworkIn"
- "NetworkOut"
- "DiskReadBytes"

`threshold` : Metrics value limit for scaling up

*Type:* int

`period_minutes` : Time period to look across for determining if threshold was met

*Type:* int

*Units:* Minutes

`statistic` : Statistic to calculate at the period to determine if threshold was met

*Default:* "Average"

*Options:*

- "Average"

- "Maximum"
- "Minimum"
- "Sum"

### scaling\_policy *Example*

```
"scaling_policy": {  
  "metric": "CPUUtilization",  
  "threshold": 90,  
  "period_minutes": 10,  
  "statistic": "Average"  
}
```

### e1b Block

Top level key for ELB configuration

### access\_log

Access Log configuration block. Ensure S3 bucket has proper bucket policy to enable writing.

### access\_log *Keys*

bucket\_name : Name of S3 bucket to write access log to

*Type:* string

*Default:* Null

bucket\_prefix : Prefix to write to in the S3 bucket

*Type:* string

*Default:* Null

emit\_interval : ELB Access Log write delay

*Type:* int

*Range:* 5-60

*Units:* seconds

*Default:* Null

### connection\_draining\_timeout

Connection Draining Timeout to set on the ELB. This allows existing requests to complete before the load balancer shifts traffic away from a deregistered or unhealthy instance.

*Type:* int

*Range:* 1-3600

*Units:* seconds

*Default:* Null

### **certificate**

Name of SSL certification for ELB. SSL certificate must be uploaded to AWS first

*Default:* Null

### **health**

Health check configuration block

#### **health Keys**

`interval` : ELB health check interval

*Type:* int

*Units:* seconds

*Default:* 20

`threshold` : Number of consecutive health check successes before declaring EC2 instance healthy.

*Default:* 2

`timeout` : Health check response timeout

*Type:* int

*Units:* seconds

*Default:* 10

`unhealthy_threshold` : number of consecutive health check failures before declaring EC2 instance unhealthy

*Default:* 5

### **idle\_timeout**

Idle Timeout to set on the ELB. This the time, in seconds, that the connection is allowed to be idle (no data has been sent over the connection) before it is closed by the load balancer.

*Type:* int

*Range:* 1-3600

*Units:* seconds

*Default:* 60

### **ports**

Defines ELB listeners. Expects a list of listeners.

#### **ports Keys**

`instance` : The protocol:port of the instance

*Default:* "HTTP:8080"

loadbalancer : the protocol:port of the load balancer

*Default:* "HTTP:80"

stickiness : defines stickiness on ELB; if app, specify cookie\_name, if elb, specify cookie\_ttl

*Default:* None

*Supported Types:* elb, app

*Example:*

```
"stickiness": {
  "type": "app",
  "cookie_name": "$cookie_name"
}

"stickiness": {
  "type": "elb",
  "cookie_ttl": 300
}
```

certificate : The name of the certificate to use if required

*Default:* null

listener\_policies : A list of listener policies to associate to an ELB. Must be created in AWS first.

*Default:* []

*Type:* List of strings

backend\_policies : A list of backend server policies to associate to an ELB. Must be created in AWS first.

*Default:* []

*Type:* List of strings

*Example:* ["WebSocket-Proxy-Protocol"]`

### ports *Example*

```
"ports": [
  {
    "instance": "HTTP:8080",
    "loadbalancer": "HTTP:80",
    "stickiness": {
      "type": "app",
      "cookie_name": "cookie"
    }
  },
  {
    "certificate": "my_cert",
    "instance": "HTTP:8443",
```



```

"loadbalancer": "HTTPS:443",
"listener_policies": ["MyExamplePolicy"],
"stickiness": {
  "type": "elb",
  "cookie_name": 300
}
}
]

```

**subnet\_purpose**

Determines if the load balancer should be public (external) or non-public (internal).

*Default:* "internal"

*Options:*

- "internal"
- "external"

**target**

The check the ELB will use to validate application is online.

*Default:* "TCP:8080"

**regions Key**

List of AWS regions that application will be deployed to.

*Type:* List of strings

*Default:* [ "us-east-1" ]

**deploy\_strategy Key**

Spinnaker strategy to use for deployments.

*Default:* "highlander"

*Options:*

- "highlander" - destroy old server group
- "redblack" - disables old server group but do not destroy
- "canary" - Only used in S3 deployments. Causes pipeline to first deploy to CANARY path

**security\_group Block**

Hold configuration for creating application specific security group

### description

Description of the security group. Used in AWS for creation

*Default:* "Auto-Gen SG for {{ app }}"

### elb\_extras

A list of extra security groups to assign to ELB

*Type:* List of strings

*Default:* []

*Example:* ["all\_access", "test\_sg"]`

### instance\_extras

A list of extra security groups to assign to each instance

*Type:* List of strings

*Default:* []

*Example:* ["all\_access", "test\_sg"]`

### ingress

Provides a list of other security groups and ports to allow inbound access to application

### egress

Provides info about outbound access from application

*Default:* "0.0.0.0/0"``

### security\_group *Example*

You can reference SG by name or by cidr block, you can also specify cross account SG by name by referring to the spinnaker environment name. To see an example of this see below:

```
"security_group": {
  "ingress": {
    "examplesecuritygroupname": [
      { "start_port": 80, "end_port": 80, "protocol": "tcp" },
      { "start_port": 443, "end_port": 443, "protocol": "tcp" },
      { "start_port": 443, "end_port": 443, "protocol": "tcp", "env": "prod" },
    ],
    "192.168.100.0/24": [
      { "start_port": 80, "end_port": 80, "protocol": "tcp" }
    ]
  },
  "egress": {
    "192.168.100.0/24": [
      { "start_port": 80, "end_port": 80, "protocol": "tcp" }
    ]
  }
}
```

```

    ]
  }
}
```

**dns Block**

Top level key for dns settings

**ttl**

Defines DNS TTL for generated DNS records

*Type:* int  
*Units:* seconds  
*Default:* 60

**lambda\_triggers**

A list of all events to trigger a Lambda function. See *Lambda Triggers and Events* for details

*Type:* List  
*Default:* []

**datapipeline Block**

Top level key for AWS Data Pipeline settings. Only necessary for Data Pipeline deployments.

**name**

Name of the Data Pipeline. This defaults to the application name.

*Type:* string  
*Default:* \$appname

**description**

Description of the Data Pipeline.

*Type:* string  
*Default:* ""

**activate\_on\_deploy**

Activates a Data Pipeline after deployment. Useful for OnDemand pipelines

*Type:* bool  
*Default:* false

## json\_definition

The exported JSON definition of the AWS Data Pipeline. You can get this by clicking “Export” in the AWS Console when creating the Data Pipeline.

Type: json  
Default: {}

## AWS Credentials

- *Purpose*
- *Example Configuration*
- *Configuration Location*
- *Configuration Details*

### Purpose

This is how AWS credentials are stored for usage with Foremast. All AWS calls outside of Spinnaker use Boto3 so standard Boto3 locations work but account/environment must be specified.

### Example Configuration

```
[build]
aws_access_key_id = XXXXXXXXXXXXXXXXXXXXXXXXXXXX
aws_secret_access_key = yyyyyyyxxxxxxxxxyyyyyyyyyyyyyyxxxxxxx

[dev]
aws_access_key_id = AAAAAAAAAAAAAAAAAAAAAAAAAA
aws_secret_access_key = bbbbbbbbaaaaaaaaaabbbbbbbbaaaaa

[stage]
aws_access_key_id = TTTTTTTTTTTTTTTTTTTTTTTT
aws_secret_access_key = ssssssssssttttttttttttssssssss
```

### Configuration Location

Foremast just uses Boto3 which will look at `~/.aws/credentials` for the `credentials` file.

### Configuration Details

This is a standard Boto3 `credentials` file. You can read more about it on the [Boto3 docs](#). The important part is that each account/environment that Foremast is managing has a distinct section in `credentials`.

## ami-lookup.json

- *Purpose*
- *Example Json*
- *Json Location*

### Purpose

This json file is used as an AMI ID look up table for each region. It is used during the bake stage of Spinnaker deployments in order to determine the base AMI ID to use for baking.

### Example Json

```
{
  "us-east-1": {
    "origin": "ami-xxxx",
    "origin_default": "ami-xxxx",
    "origin_fedora": "ami-xxxx",
    "origin_amazon": "ami-xxxx",
    "origin_ubuntu": "ami-xxxx",
    "origin_debian": "ami-xxxx",
    "origin_testing": "ami-xxxx",
  }
  "us-west-2": {
    "origin": "ami-xxxx",
    "origin_default": "ami-xxxx",
    "origin_fedora": "ami-xxxx",
    "origin_amazon": "ami-xxxx",
    "origin_ubuntu": "ami-xxxx",
    "origin_debian": "ami-xxxx",
    "origin_testing": "ami-xxxx",
  }
}
```

### Json Location

Foremast will look for this information at `ami_json_url` defined in `foremast.cfg / config.py`. For example, you can host the file named `ami-lookup.json` in an S3 bucket and then set `ami_json_url = http://s3bucketurl.com/ami-lookup.json`.

You can host this file anywhere as long as an HTTP GET will return the JSON and a 2XX.

## Advance Usages

- *Environment Variables*
- *Pipeline Configs*

- *Running Foremast*
  - *Method 1*
  - *Method 2*
- *Next Steps*

This section will show many advance usages of Foremast.

## Environment Variables

These are environment variables used when executing Foremast

TRIGGER\_JOB: The name of the Jenkins job that Spinnaker should look for as a trigger  
APPNAME: The full name of your application in Spinnaker. `${GIT_REPO}${PROJECT}` is default  
EMAIL: Email address associated with application in Spinnaker  
PROJECT: The namespace or group of the application being set up  
GIT\_REPO: The name of the repo in the above namespace/group  
RUNWAY\_DIR: Path to the `pipeline.json` and `application-master-$account.json` files created above

## Pipeline Configs

The *pipeline.json* and *application-master-\$account.json* are critical files that determine on how each application in the pipeline will work. We recommend keeping these files in the same repository as your application but as long as they are on the same local machine as the Foremast runner they can be used.

In `~/runway` create a file `pipeline.json` with the contents:

```
{
  "deployment": "spinnaker",
  "env": [ "account1", "account2" ]
}
```

In the same `~/runway` directory, create a file `application-master-$account.json` where `$account` is the same name as an account in your AWS credentials file and in your `env` list in `pipeline.json`. This file can be empty and it will just use the defaults provided at *application-master-\$account.json*.

**Note:** You will need an `application-master-$account.json` config for each `$account` that you are deploying to.

See *pipeline.json* and *application-master-\$account.json* for all configuration options.

## Running Foremast

After setting up all of the configs there are a couple of ways to run Foremast components. You can use our bundled CLI endpoints that look at environment variables, or you can call each individual component with appropriate arguments on the CLI

Both methods will generate the same outcome. An application created in Spinnaker and a pipeline generated based on the configs.

## Method 1

This is our recommended method and how we internally at Gogo run Foremast. You need to first set the environment variables from above.

With the environment variables defined, you can simply run the command `foremast-pipeline` from the command line. This will create the Application in Spinnaker as well as generate a base pipeline.

## Method 2

This method is more explicit and requires calling multiple Foremast components to create the configs, create the application, and generate the pipeline:

```
create-configs -o ./raw.properties -g ${PROJECT}/${GIT_REPO} -r ${RUNWAY_DIR}
create-app -a ${APPNAME} --email ${EMAIL} --project ${PROJECT} --repo ${GIT_REPO}
create-pipeline -a ${APPNAME} --triggerjob ${TRIGGER_JOB}
```

## Next Steps

Take a look at the *Infrastructure* docs for details on the necessary Jenkins jobs.

This is only the tip of what Foremast can do. It also has functionality for creating scaling policies, setting up AWS infrastructure (elbs, security groups, iam policies, s3 buckets), sending slack notifications, and destroying old infrastructure. Take a look at our internal workflow docs for more detail on how Foremast is used at Gogo.

## Infrastructure

- *Spinnaker*
  - *Spinnaker Component Versions*
- *AWS*
- *Jenkins*
  - *Necessary Jenkins Jobs*
- *Gitlab*

## Spinnaker

- Foremast assumes that Spinnaker is already setup. Please see the [Spinnaker documentation](#) for assistance
- Requires connectivity to the Gate component of Spinnaker. Foremast also supports x509 authentication on Gate.
- Assumes AWS EBS is used for Packer bakes in Spinnaker Rosco

## Spinnaker Component Versions

Below are the Spinnaker component versions that we use internally at Gogo and that Foremast has been tested against:

- Gate: 2.70.0
- Clouddriver: 1.286.0
- Deck: 2.711.0
- Igor: 1.50.0
- Echo: 1.108.0
- Front50: 1.38.0
- Spinnaker: 0.50.0
- Rosco: 0.42.0
- Orca: 1.168.0

If you have any issues with Foremast at other Spinnaker versions please file an issue (or pull request).

## AWS

Foremast only works with AWS (for now). Below are the AWS requirements:

- Foremast IAM Access:
  - Will need credentials set up in a Boto3 configuration file. See *AWS Credentials* for details.
  - IAM user or role will need the following permissions:
    - \* S3: View, create and delete buckets.
    - \* IAM: View, create and delete roles, users, and policies.
    - \* Route53: View, create, and delete DNS records.
  - Everything else, such as ELBs and security groups, are handled through Spinnaker.
- VPC Subnets
  - If new subnets are being setup, follow the [Spinnaker AWS Setup guide](#).
  - If using existing subnets add an `immutable_metadata` tag.
    - \* Example `immutable_metadata` tag: `{"purpose": "external", "target": "elb"}`
    - \* The "purpose" key will dictate how this appears in Spinnaker.
      - Needs to be "internal" or "external" in order to properly work with Foremast

## Jenkins

Foremast takes advantage of the Spinnaker Jenkins stage. In order for the Foremast generated pipeline to work you will need the following:

- Jenkins configuration named “JenkinsCI” in Spinnaker Igor
  - Example Igor config:



```
jenkins:
  Masters:
    -
      name: 'JenkinsCI' # The display name for this server
      address: 'http://jenkinsci.example.com'
      username: 'spinnaker'
      password: 'password'
```

## Necessary Jenkins Jobs

The default generated pipeline requires a couple of Jenkins jobs to be setup in order to run.

- pipes-pipeline-prepare
  - Runs Foremast `prepare-infrastructure` during the “Infrastructure Setup” pipeline stage
  - Requires the following string variables
    - \* PROJECT
    - \* GIT\_REPO
    - \* ENV
    - \* REGION
  - Example Shell after cloning Foremast:

```
virtualenv -p python3 venv
. venv/bin/activate
pip install -U --quiet .

prepare-infrastructure
```

- pipes-scaling-policy
  - Runs Foremast `create-scaling-policy` for attaching a scaling policy if defined.
  - Only necessary if you plan on attaching scaling policies
  - Requires the following string variables
    - \* PROJECT
    - \* GIT\_REPO
    - \* ENV
    - \* REGION
  - Example Shell after cloning Foremast

```
virtualenv -p python3 venv
. venv/bin/activate
pip install -U --quiet .

create-scaling-policy

# You can export these variables or also pass them beforehand such as:
export GIT_REPO=<repo_name>
export ENV=<spinnaker_env_name>
```

```
PROJECT=<repo_project> RUNWAY_DIR=<OS_path_to_runway_dir> \  
REGION=<spinnaker_env_region> \  
foremast-infrastructure
```

## Gitlab

Gitlab is not required for Spinnaker but if it is already part of your infrastructure you can have Foremast directly look up the *pipeline.json* and *application-master-\$account.json* files. You will need to get the Gitlab Token of a user that has permissions to the desired repository and set them in your *foremast.cfg / config.py*.

## AWS Lambda Pipeline

### Lambda Triggers and Events

- *Purpose*
- *Example Configuration*
- *Configuration Details*
  - *type*
  - *S3 Event*
    - \* *bucket*
    - \* *events*
    - \* *prefix*
    - \* *suffix*
  - *SNS Event*
    - \* *topic*
  - *Cloudwatch Event*
    - \* *schedule*
    - \* *rule\_name*
    - \* *rule\_description*
  - *Cloudwatch Log Event*
    - \* *log\_group*
    - \* *filter\_name*
    - \* *filter\_pattern*
  - *API Gateway Event*
    - \* *api\_name*
    - \* *resource*
    - \* *method*

## Purpose

Foremast supports multiple Lambda events. These are configured in the *application-master-\$account.json* config and set as a list under the *lambda\_triggers* key.

## Example Configuration

This example would go in the *application-master-\$account.json* configuration file.

```
{
  "lambda_triggers": [
    {
      "type": "s3",
      "bucket": "app-bucket-dev",
      "events": [
        "s3:ObjectCreated:*"
      ],
      "prefix": "",
      "suffix": ""
    },
    {
      "type": "sns",
      "topic": "app-dns-dev"
    },
    {
      "type": "cloudwatch-event",
      "schedule": "rate(5 minutes)",
      "rule_name": "app cron - 5min",
      "rule_description": "triggers lambda function every five minutes"
    },
    {
      "type": "cloudwatch-logs",
      "log_group": "/aws/lambda/awslimit_test",
      "filter_name": "Trigger lambda on every WARNING message",
      "filter_pattern": ""
    },
    {
      "type": "api-gateway",
      "api_name": "lambdatest-api",
      "resource": "/index",
      "method": "GET"
    }
  ]
}
```

## Configuration Details

### type

Specifies what type of Lambda event/trigger to use. This needs to be set for all events.

*Options:*

- "s3" - S3 Lambda trigger
- "sns" - SNS Lambda trigger

- "cloudwatch-event" - Cloudwatch event Lambda trigger
- "cloudwatch-logs" - Cloudwatch logs event Lambda trigger
- "api-gateway" - API Gateway Lambda trigger

*Required:* True

## S3 Event

A Lambda trigger on S3 bucket actions.

### bucket

The bucket of the event to monitor.

*Required:* True

### events

The S3 event to trigger the lambda function from.

*Type:* List

*Required:* True

*Example:* ["s3:ObjectCreated:\*", "s3:ObjectRemoved:Delete"]

### prefix

Sets up a prefix filter on S3 bucket events.

*Required:* False

*Example:* "logs/"

### suffix

Sets up a suffix filter on s3 bucket events.

*Required:* False

*Example:* ".jpg"

## SNS Event

A Lambda trigger on SNS topic events.

### topic

The SNS topic name to monitor for events.

*Required:* True

## Cloudwatch Event

A Cloudwatch Scheduled event for Lambda triggers.

### **schedule**

The rate or cron string to trigger the Lambda function.

*Required:* True

*Examples:*

- `"rate(5 minutes)"`
- `"cron(0 17 ? * MON-FRI *)"`

### **rule\_name**

The name of the cloudwatch rule being created.

*Required:* False

*Default:* `"{app_name}+{schedule}"`

### **rule\_description**

Description of the rule being created.

*Required:* False

## Cloudwatch Log Event

A lambda event that triggers off a Cloudwatch log action.

### **log\_group**

The name of the log group to monitor.

*Required:* True

*Example:* `"/aws/lambda/test_function"`

### **filter\_name**

The name of the filter on log event.

*Required:* True

### `filter_pattern`

The pattern to look for in the `log_group` for triggering a Lambda function.

*Required:* True

*Example:* "warning"

### API Gateway Event

Sets up an API Gateway event to trigger a lambda function.

### `api_name`

The name of an existing API Gateway. If not provided, an API will be created.

*Required:* False

*Default:* {app\_name}

### `resource`

The API resource to tie the Lambda function to.

*Required:* True

*Example:* "/test"

### `method`

The API Method to trigger the Lambda function.

*Required:* True

*Example:* "GET"

## Lambda Pipeline

- [Overview](#)
- [Lambda Specific Setup](#)
- [Lambda Pipeline Example](#)

### Overview

Foremast supports the ability to setup Lambda infrastructure and build a pipeline around Lambda deployments. This was designed to be very similar to the default EC2 pipeline. It requires the same configuration files and general setup.

## Lambda Specific Setup

1. Look at the *Getting Started* guide for basic setup. The Lambda process will be very similar
2. Look at the *lambda Block* configurations in *pipeline.json* and *application-master-\$account.json*.
3. In *pipeline.json* set "type" : "lambda" in order for Foremast to treat the application as a Lambda function.
4. Setup the desired Lambda triggers. See *Lambda Triggers and Events* for details.

## Lambda Pipeline Example

1. Generate a ZIP artifact of your desired Lambda function
2. Trigger Spinnaker Lambda pipeline
3. Spinnaker runs “Infrastructure Setup Lambda”
  - (a) Sets up default function
  - (b) Sets up event triggers
  - (c) Sets up IAM Roles
  - (d) Sets up security groups
4. Spinnaker runs a “Deploy Lambda” stage
  - (a) This stage uploads the ZIP artifact to the created Lambda function
5. Manual Judgement checkpoint for deploying to the next environment
6. Repeat steps 3-5 for each desired environment



## How To Contribute

- *Getting Started*
  - *Commits*
  - *Branches*
  - *Documentation*
  - *Testing*
- *Code Submission*
  - *Code Improvement*
  - *Code Submission*
  - *Code Review*
  - *Code Acceptance*

Contributions to Foremast are welcome.

## Getting Started

### Commits

Follow [semantic commits](#) to make `git log` a little easier to follow.

**chore** something just needs to happen, e.g. versioning

**docs** documentation pages in `_docs/` or docstrings

**feat** new code in `src/`

**fix** code improvement in `src/`

**refactor** code movement in `src/`

**style** aesthetic changes

**test** test case modifications in `test/`

Examples commit messages:

- chore: v10.0
- docs: Add configuration setting
- feat: Create Lambda function
- fix: Retry upload on failure
- refactor: Extract duplicate code
- style: isort, YAPF
- test: Coverage around add permissions

### Branches

Use [slash convention](#) with the same leaders as *Commits*, e.g.:

- chore/v10.0
- docs/configs
- feat/lambda
- fix/deadlock
- refactor/debug\_util
- style/lambda\_whitespace
- test/lambda\_permission

### Documentation

- Use reStructuredText for docstrings and documentation
- For docstrings, follow [Example Google Style Python Docstrings](#)
- For documentation pages, follow the strong guidelines from Python with [Documenting Python](#)



**Note:**

- Use `.rst` for regular pages
  - Use `.rest` for pages included using `.. include:: file.rest` (fixes a Sphinx issue that thinks references are duplicated)
- 

**Testing**

Run any unit tests available in `./tests/`.

```
virtualenv venv
source ./venv/bin/activate
pip install -U -r requirements-dev.txt

tox
# OR
./runtests.py
```

**Code Submission****Code Improvement**

1. See if an [Issue](#) exists
  - Comment with any added information to help the discussion
2. Create an [Issue](#) if needed

**Code Submission**

1. See if a [Pull Request](#) exists
  - Add some comments or review the code to help it along
  - Don't be afraid to comment when logic needs clarification
2. Create a Fork and open a [Pull Request](#) if needed

**Code Review**

- Anyone can review code
- Any [Pull Request](#) should be closed or merged within a week

**Code Acceptance**

Try to keep history as linear as possible using a *rebase* merge strategy.

1. One thumb up at minimum, two preferred
2. Request submitter to *rebase* and resolve all conflicts

```
# Update `master`
git checkout master
git pull

# Update `feat/new` Branch
git checkout feat/new
git rebase master

# Update remote Branch and Pull Request
git push -f
```

### 3. Merge the new feature

```
# Merge `feat/new` into `master`
git checkout master
git merge --ff-only feat/new
git push
```

### 4. Delete merged Branch

## How To Create Releases

### Setup

Add the following to ~/.pypirc file

```
[distutils]
index-servers =
    pypi

[pypi]
repository = https://pypi.python.org/pypi
username = username
password = xxxyyyyzzz
```

### Upload Release

When releasing a new version, the following needs to occur:

#### 1. Add version Tag

```
git tag -a v#.#.#
git push --tags
```

#### 2. Ensure all test via tox pass

#### 3. Generate and upload the package

```
python setup.py bdist_wheel upload -r pypi
```

## src

### foremast package

#### Subpackages

#### foremast.app package

#### Submodules

#### foremast.app.create\_app module

Module for creating an application in spinnaker.

Looks to see if the application exists, and if not creates the application.

```
class foremast.app.create_app.SpinnakerApp (app=None, email=None, project=None,  
repo=None)
```

Bases: `object`

Class to manage and create Spinnaker applications

#### Parameters

- **app** (*str*) – Application name.
- **email** (*str*) – Email associated with application.
- **project** (*str*) – Git namespace or project group
- **repo** (*str*) – Repository name

#### appinfo

*dict* – A dictionary containing the provided arguments

#### appname

*str* – The name of the application.

**create\_app** (*pipeline\_configs=None*)

Send a POST to spinnaker to create a new application with class variables.

**Parameters** **pipeline\_configs** (*dict*) – A dictionary containing the pipeline.json info

**Raises** `AssertionError` – Application creation failed.

**get\_accounts** (*provider='aws'*)

Get Accounts added to Spinnaker.

**Parameters** **provider** (*str*) – What provider to find accounts for.

**Returns** list of dicts of Spinnaker credentials matching `_provider_`.

**Return type** `list`

**Raises** `AssertionError` – Failure getting accounts from Spinnaker.

#### Module contents

Package for creating a Spinnaker application.

## foremast.autoscaling\_policy package

### Submodules

#### foremast.autoscaling\_policy.create\_policy module

Manages AWS scaling policies in Spinnaker. Can find, create, and delete.

This module also creates an inverse policy for scaling down

```
class foremast.autoscaling_policy.create_policy.AutoScalingPolicy (app='',  
                                                             prop_path='',  
                                                             env='', re-  
                                                             gion='')
```

Bases: `object`

Manages scaling policies in Spinnaker

#### Parameters

- **app** (*str*) – Application name
- **prop\_path** (*str*) – Path of rendered property files
- **env** (*str*) – Environment/Account to add policy to
- **region** (*str*) – AWS region for policy

#### log

*str* – Logger name

#### settings

*dict* – Properties imported from prop\_path

#### create\_policy()

Wrapper function. Gets the server group, sets sane defaults, deletes existing policies, and then runs `self.prepare_policy_template` for scaling up and scaling down policies. This function acts as the main driver for the scaling policy creation process

#### delete\_existing\_policy(*scaling\_policy*, *server\_group*)

Given a `scaling_policy` and `server_group`, deletes the existing `scaling_policy`. Scaling policies need to be deleted instead of upserted for consistency.

#### Parameters

- **scaling\_policy** (*json*) – the `scaling_policy` json from Spinnaker that should be deleted
- **server\_group** (*str*) – the affected `server_group`

#### get\_all\_existing(*server\_group*)

Finds all existing scaling policies for an application

**Returns** List of all existing scaling policies for the application

**Return type** `scalingpolicies` (*list*)

#### get\_server\_group()

Finds the most recently deployed server group for the application. This is the server group that the scaling policy will be applied to.

**Returns** Name of the newest server group

**Return type** `server_group` (*str*)

**prepare\_policy\_template** (*scaling\_type, period\_sec, server\_group*)

Renders scaling policy templates based on configs and variables. After rendering, POSTs the json to Spinnaker for creation.

#### Parameters

- **scaling\_type** (*str*) – *scale\_up* or *scaling\_down*. Type of policy
- **period\_sec** (*int*) – Period of time to look at metrics for determining scale
- **server\_group** (*str*) – The name of the server group to render template for

## Module contents

Package for managing the creation and attachment of AWS scaling policies

### foremast.awslambda package

#### Subpackages

#### foremast.awslambda.api\_gateway\_event package

#### Submodules

#### foremast.awslambda.api\_gateway\_event.api\_gateway\_event module

```
class foremast.awslambda.api_gateway_event.api_gateway_event.APIGateway (app='',
                                                                           env='',
                                                                           re-
                                                                           gion='',
                                                                           rules={},
                                                                           prop_path='')
```

Bases: `object`

Class to handle API Gateway and Lambda integration.

#### Parameters

- **app** (*str*) – Application Name
- **env** (*str*) – Environment/account for deployments
- **region** (*str*) – AWS Region
- **rules** (*dict*) – Trigger settings
- **prop\_path** (*str*) – Path to the raw.properties.json

**add\_integration\_response** ()

Add an intergation response to the API for the lambda integration.

**add\_lambda\_integration** ()

Attach lambda found to API.

**add\_permission** ()

Add permission to Lambda for the API Trigger.

**attach\_method** (*resource\_id*)

Attach the defined method.

**create\_api** ()

Create the REST API.

**create\_api\_deployment** ()

Create API deployment of ENV name.

**create\_api\_key** ()

Create API Key for API access.

**create\_resource** (*parent\_id=''*)

Create the specified resource.

**Parameters** **parent\_id** (*str*) – The resource ID of the parent resource in API Gateway

**find\_api\_id** ()

Given API name, find API ID.

**find\_resource\_ids** ()

Given a resource path and API Id, find resource Id.

**generate\_uris** ()

Generate several lambda uris.

**setup\_lambda\_api** ()

A wrapper for all the steps needed to setup the integration.

**update\_api\_mappings** ()

Create a cname for the API deployment.

## Module contents

**foremast.awslambda.cloudwatch\_event** package

### Subpackages

**foremast.awslambda.cloudwatch\_event.destroy\_cloudwatch\_event** package

### Submodules

**foremast.awslambda.cloudwatch\_event.destroy\_cloudwatch\_event.destroy\_cloudwatch\_event** module

Destroy any DNS records.

`foremast.awslambda.cloudwatch_event.destroy_cloudwatch_event.destroy_cloudwatch_event`.**dest**

Destroy Cloudwatch event subscription.

#### Parameters

- **app** (*str*) – Spinnaker Application name.
- **env** (*str*) – Deployment environment.

- **region** (*str*) – AWS region.

**Returns** True upon successful completion.

**Return type** bool

## Module contents

### Submodules

#### foremast.awslambda.cloudwatch\_event.cloudwatch\_event module

foremast.awslambda.cloudwatch\_event.cloudwatch\_event.**create\_cloudwatch\_event** (*app\_name*,  
*env*,  
*re-*  
*gion*,  
*rules*)

Create cloudwatch event for lambda from rules.

#### Parameters

- **app\_name** (*str*) – name of the lambda function
- **env** (*str*) – Environment/Account for lambda function
- **region** (*str*) – AWS region of the lambda function
- **rules** (*dict*) – Trigger rules from the settings

## Module contents

### foremast.awslambda.cloudwatch\_log\_event package

#### Subpackages

#### foremast.awslambda.cloudwatch\_log\_event.destroy\_cloudwatch\_log\_event package

### Submodules

#### foremast.awslambda.cloudwatch\_log\_event.destroy\_cloudwatch\_log\_event.destroy\_cloudwatch\_log\_event module

Destroy any cloudwatch log events.

foremast.awslambda.cloudwatch\_log\_event.destroy\_cloudwatch\_log\_event.destroy\_cloudwatch\_log\_event

Destroy Cloudwatch log event.

#### Parameters

- **app** (*str*) – Spinnaker Application name.
- **env** (*str*) – Deployment environment.

- **region** (*str*) – AWS region.

**Returns** True upon successful completion.

**Return type** bool

## Module contents

### Submodules

#### foremast.awslambda.cloudwatch\_log\_event.cloudwatch\_log\_event module

foremast.awslambda.cloudwatch\_log\_event.cloudwatch\_log\_event.**create\_cloudwatch\_log\_event** (*app*,  
*env*,  
*re*,  
*gi*,  
*ru*)

Create cloudwatch log event for lambda from rules.

#### Parameters

- **app\_name** (*str*) – name of the lambda function
- **env** (*str*) – Environment/Account for lambda function
- **region** (*str*) – AWS region of the lambda function
- **rules** (*str*) – Trigger rules from the settings

## Module contents

### foremast.awslambda.s3\_event package

#### Subpackages

#### foremast.awslambda.s3\_event.destroy\_s3\_event package

### Submodules

#### foremast.awslambda.s3\_event.destroy\_s3\_event.destroy\_s3\_event module

Destroy S3 events.

foremast.awslambda.s3\_event.destroy\_s3\_event.destroy\_s3\_event.**destroy\_s3\_event** (*app*,  
*env*,  
*re*,  
*gion*)

Destroy S3 event.

#### Parameters

- **app** (*str*) – Spinnaker Application name.
- **env** (*str*) – Deployment environment.
- **region** (*str*) – AWS region.



**Returns** True upon successful completion.

**Return type** `bool`

## Module contents

### Submodules

#### foremast.awslambda.s3\_event.s3\_event module

`foremast.awslambda.s3_event.s3_event.create_s3_event` (*app\_name*, *env*, *region*, *rules*)  
Create S3 lambda event from rules.

##### Parameters

- **app\_name** (*str*) – name of the lambda function
- **env** (*str*) – Environment/Account for lambda function
- **region** (*str*) – AWS region of the lambda function
- **rules** (*obj*) – Trigger rules from the settings

## Module contents

### foremast.awslambda.sns\_event package

#### Subpackages

#### foremast.awslambda.sns\_event.destroy\_sns\_event package

### Submodules

#### foremast.awslambda.sns\_event.destroy\_sns\_event.destroy\_sns\_event module

`foremast.awslambda.sns_event.destroy_sns_event.destroy_sns_event.destroy_sns_event` (*app\_name*, *env*, *re-gion*)

Destroy all Lambda SNS subscriptions.

##### Parameters

- **app\_name** (*str*) – name of the lambda function
- **env** (*str*) – Environment/Account for lambda function
- **region** (*str*) – AWS region of the lambda function

**Returns** True if subscription destroyed successfully

**Return type** `boolean`

## Module contents

### Submodules

#### foremast.awslambda.sns\_event.sns\_event module

`foremast.awslambda.sns_event.sns_event.create_sns_event` (*app\_name*, *env*, *region*, *rules*)

Create SNS lambda event from rules.

#### Parameters

- **app\_name** (*str*) – name of the lambda function
- **env** (*str*) – Environment/Account for lambda function
- **region** (*str*) – AWS region of the lambda function
- **rules** (*str*) – Trigger rules from the settings

## Module contents

### Submodules

#### foremast.awslambda.awslambda module

**class** `foremast.awslambda.awslambda.LambdaFunction` (*app*, *env*, *region*, *prop\_path*)

Bases: `object`

Manipulate Lambda function.

**create\_alias** ()

Create lambda alias with env name and points it to \$LATEST.

**create\_function** (*vpc\_config*)

Create lambda function, configures lambda parameters.

We need to upload non-zero zip when creating function. Uploading hello\_world python lambda function since AWS doesn't care which executable is in ZIP.

**Parameters** **vpc\_config** (*dict*) – Dictionary of SubnetIds and SecurityGroupsIds for using a VPC in lambda

**create\_lambda\_function** ()

Create or update Lambda function.

**update\_alias** ()

Update lambda alias to point to \$LATEST.

**update\_function\_configuration** (*vpc\_config*)

Update existing Lambda function configuration.

**Parameters** **vpc\_config** (*dict*) – Dictionary of SubnetIds and SecurityGroupsIds for using a VPC in lambda

## foremast.awslambda.awslambdaevent module

Create Lambda event triggers.

```
class foremast.awslambda.awslambdaevent.LambdaEvent (app=None, env=None, re-
gion=None, prop_path=None)
```

Bases: `object`

Manipulate Lambda events.

```
create_lambda_events ()
```

Create all defined lambda events for an lambda application.

## Module contents

### foremast.configs package

#### Submodules

### foremast.configs.outputs module

Write output files for configurations.

```
foremast.configs.outputs.convert_ini (config_dict)
```

Convert `_config_dict_` into a list of INI formatted strings.

**Parameters** `config_dict` (*dict*) – Configuration dictionary to be flattened.

**Returns** (list) Lines to be written to a file in the format of KEY1\_KEY2=value.

```
foremast.configs.outputs.write_variables (app_configs=None, out_file='', git_short='')
```

Append `_application.json_configs` to `_out_file_`, `.exports`, and `.json`.

Variables are written in INI style, e.g. UPPER\_CASE=value. The `.exports` file contains 'export' prepended to each line for easy sourcing. The `.json` file is a minified representation of the combined configurations.

#### Parameters

- **app\_configs** (*dict*) – Environment configurations from `_application.json_` files, e.g. `{'dev': {'elb': {'subnet_purpose': 'internal'}}}`.
- **out\_file** (*str*) – Name of INI file to append to.
- **git\_short** (*str*) – Short name of Git repository, e.g. `forrest/core`.

**Returns** Configuration equivalent to the JSON output.

**Return type** `dict`

### foremast.configs.prepare\_configs module

Prepare the Application Configurations.

```
foremast.configs.prepare_configs.process_git_configs (git_short='')
```

Retrieve `_application.json_` files from GitLab.

**Parameters** `git_short` (*str*) – Short Git representation of repository, e.g. `forrest/core`.

**Returns** Configurations stored for each environment found.

**Return type** `collections.defaultdict`

`foremast.configs.prepare_configs.process_runway_configs` (*runway\_dir*='')  
Read the `_application.json_files`.

**Parameters** `runway_dir` (*str*) – Name of runway directory with app.json files.

**Returns** Configurations stored for each environment found.

**Return type** `collections.defaultdict`

## Module contents

Package for assembling `foremast` configuration files.

Retrieve the necessary configuration files from GitLab, merge with the default templates, and output a master `settings` file to be consumed by other `foremast` modules.

## foremast.datapipeline package

### Submodules

### foremast.datapipeline.datapipeline module

`class foremast.datapipeline.datapipeline.AWSDataPipeline` (*app=None, env=None, region='us-east-1, prop\_path=None*)

Bases: `object`

Manipulate Data Pipeline.

`activate_pipeline()`

Activates a deployed pipeline, useful for OnDemand pipelines

`create_datapipeline()`

Creates the data pipeline if it does not already exist

**Returns** the response of the Boto3 command

**Return type** `dict`

`get_pipeline_id()`

Finds the pipeline ID for configured pipeline

`set_pipeline_definition()`

Translates the json definition and puts it on created pipeline

**Returns** the response of the Boto3 command

**Return type** `dict`

## Module contents

## foremast.dns package

### Subpackages

## foremast.dns.destroy\_dns package

### Submodules

#### foremast.dns.destroy\_dns.destroy\_dns module

Destroy any DNS records.

`foremast.dns.destroy_dns.destroy_dns.destroy_dns(app='', env='dev', **_)`  
Destroy DNS records.

#### Parameters

- **app** (*str*) – Spinnaker Application name.
- **env** (*str*) – Deployment environment.
- **regions** (*str*) – AWS region.

**Returns** True upon successful completion.

**Return type** `bool`

`foremast.dns.destroy_dns.destroy_dns.destroy_record(client=None, found_record=None, record='', zone_id='')`

Destroy an individual DNS record.

#### Parameters

- **client** (*botocore.client.Route53*) – Route 53 boto3 client.
- **found\_record** (*dict*) – Route 53 record set:

```
{'Name': 'unicorn.forrest.dev.example.com.',
 'ResourceRecords':
  [{'Value':
    'internal-unicornforrest-1777489395.us-east-1.elb.amazonaws.com'
  }],
 'TTL': 60,
 'Type': 'CNAME'}
```

- **record** (*str*) – Application DNS record name. e.g.
- **zone\_id** (*str*) – Route 53 Hosted Zone ID, e.g. /hostedzone/ZSVGJWJ979WQD.

**Returns** True upon successful completion.

**Return type** `bool`

### Module contents

#### Submodules

#### foremast.dns.create\_dns module

Module to create dynamically generated DNS record in route53

**class** `foremast.dns.create_dns.SpinnakerDns` (*app=None, env=None, region=None, elb\_subnet=None, prop\_path=None*)

Bases: `object`

Manipulate and create generated DNS record in Route53.

**Parameters**

- **app** (*str*) – application name for DNS record
- **env** (*str*) – Environment/Account for DNS record creation
- **region** (*str*) – AWS Region for DNS record
- **elb\_subnet** (*str*) – Wether the DNS record is in a public or private zone
- **prop\_path** (*str*) – Path to the generated property files

**Returns** FQDN of application

**Return type** `str`

**create\_elb\_dns** (*regionspecific=False*)

Create dns entries in route53.

**Parameters** **hasregion** (*bool*) – The DNS entry should have region on it

**Returns** Auto-generated DNS name for the Elastic Load Balancer.

**create\_failover\_dns** (*primary\_region='us-east-1'*)

Create dns entries in route53 for multiregion failover setups

**Parameters** **primary\_region** (*str*) – primary AWS region for failover

**Returns** Auto-generated DNS name.

## Module contents

Package for creating DNS records in AWS

### foremast.elb package

#### Subpackages

#### foremast.elb.destroy\_elb package

#### Submodules

#### foremast.elb.destroy\_elb.destroy\_elb module

Destroy any ELB Resources.

`foremast.elb.destroy_elb.destroy_elb.destroy_elb` (*app='', env='dev', region='us-east-1', \*\*\_*)

Destroy ELB Resources.

**Parameters**

- **app** (*str*) – Spinnaker Application name.
- **env** (*str*) – Deployment environment.

- **region** (*str*) – AWS region.

**Returns** True upon successful completion.

## Module contents

### Submodules

#### foremast.elb.create\_elb module

Create ELBs for Spinnaker Pipelines.

**class** foremast.elb.create\_elb.**SpinnakerELB** (*app*='', *env*='', *region*='', *prop\_path*='')

Bases: `object`

Create ELBs for Spinnaker.

#### Parameters

- **app** (*str*) – Application name.
- **env** (*str*) – Deployment environment.
- **prop\_path** (*str*) – Path to the raw.properties.json.
- **region** (*str*) – AWS Region.

**add\_backend\_policy** (*json\_data*)

Attaches backend server policies to an ELB

**Parameters** **json\_data** (`json`) – return data from ELB upsert

**add\_listener\_policy** (*json\_data*)

Attaches listener policies to an ELB

**Parameters** **json\_data** (`json`) – return data from ELB upsert

**add\_stickiness** ()

Adds stickiness policy to created ELB

#### Returns

A dict of stickiness policies and ports:

```
example:
{
    80: "$policy_name"
}
```

**Return type** `dict`

**configure\_load\_balancer\_attributes** (*json\_data*)

Configure load balancer attributes such as idle timeout, connection draining, etc

**Parameters** **json\_data** (`json`) – return data from ELB upsert

**create\_elb** ()

Create or Update the ELB after rendering JSON data from configs. Asserts that the ELB task was successful.

**make\_elb\_json** ()

Render the JSON template with arguments.

**Returns** Rendered ELB template.

**Return type** `str`

### foremast.elb.format\_listeners module

Add the appropriate ELB Listeners.

`foremast.elb.format_listeners.format_cert_name` (*env*='', *account*='', *certificate*=None)  
Format the SSL certificate name into ARN for ELB.

#### Parameters

- **env** (*str*) – Account environment name
- **account** (*str*) – Account number for ARN
- **certificate** (*str*) – Name of SSL certificate

**Returns** Fully qualified ARN for SSL certificate None: Certificate is not desired

**Return type** `str`

`foremast.elb.format_listeners.format_listeners` (*elb\_settings*=None, *env*='dev')  
Format ELB Listeners into standard list.

#### Parameters

- **elb\_settings** (*dict*) – ELB settings including ELB Listeners to add, e.g.:

```
# old
{
  "certificate": null,
  "i_port": 8080,
  "lb_port": 80,
  "subnet_purpose": "internal",
  "target": "HTTP:8080/health"
}

# new
{
  "ports": [
    {
      "instance": "HTTP:8080",
      "loadbalancer": "HTTP:80"
    },
    {
      "certificate": "cert_name",
      "instance": "HTTP:8443",
      "loadbalancer": "HTTPS:443"
    }
  ],
  "subnet_purpose": "internal",
  "target": "HTTP:8080/health"
}
```

- **env** (*str*) – Environment to find the Account Number for.

#### Returns

ELB Listeners formatted into dicts for Spinnaker:



```
[
  {
    'externalPort': 80,
    'externalProtocol': 'HTTP',
    'internalPort': 8080,
    'internalProtocol': 'HTTP',
    'sslCertificateId': None,
    'listenerPolicies': [],
    'backendPolicies': []
  },
  ...
]
```

**Return type** `list`

`foremast.elb.format_listeners.generate_custom_cert_name` (*env*='', *account*='', *certificate*=None)

Generate a custom TLS Cert name based on a template.

**Parameters**

- **env** (*str*) – Account environment name
- **account** (*str*) – Account number for ARN.
- **certificate** (*str*) – Name of SSL certificate.

**Returns** Fully qualified ARN for SSL certificate. None: Template doesn't exist.

**Return type** `str`

### foremast.elb.splay\_health module

Cut Health Target up into pieces.

`foremast.elb.splay_health.splay_health` (*health\_target*)  
Set Health Check path, port, and protocol.

**Parameters** **health\_target** (*str*) – The health target. ie HTTP:80

**Returns** A `collections.namedtuple` class with *path*, *port*, *proto*, and *target* attributes.

**Return type** `HealthCheck`

### Module contents

Package for management of ELBs in Spinnaker

### foremast.iam package

#### Subpackages

### foremast.iam.destroy\_iam package

#### Submodules

## foremast.iam.destroy\_iam.destroy\_iam module

Destroy any IAM related resources.

```
foremast.iam.destroy_iam.destroy_iam.destroy_iam(app='', env='dev', **_)
    Destroy IAM Resources.
```

### Parameters

- **app** (*str*) – Spinnaker Application name.
- **env** (*str*) – Deployment environment, i.e. dev, stage, prod.

**Returns** True upon successful completion.

## Module contents

### Submodules

#### foremast.iam.construct\_policy module

Construct an IAM Policy from templates.

### Examples

pipeline.json:

```
{
  "services": {
    "dynamodb": [
      "another_app"
    ],
    "lambda": true,
    "s3": true
  }
}
```

```
foremast.iam.construct_policy.auto_service(pipeline_settings={}, services={})
    Automatically enable service for deployment types.
```

### Parameters

- **services** (*dict*) – Services to enable in IAM Policy.
- **pipeline\_settings** (*dict*) – Settings from *pipeline.json*.

**Returns** Services.

**Return type** *dict*

```
foremast.iam.construct_policy.construct_policy(app='coreforrest',          env='dev',
                                                group='forrest',      region='us-east-1',
                                                pipeline_settings=None)
```

Assemble IAM Policy for *\_app\_*.

### Parameters

- **app** (*str*) – Name of Spinnaker Application.

- **env** (*str*) – Environment/Account in AWS
- **group** (*str*) – A Application group/namespace
- **region** (*str*) – AWS region
- **pipeline\_settings** (*dict*) – Settings from *pipeline.json*.

**Returns** Custom IAM Policy for *\_app\_*. None: When no *services* have been defined in *pipeline.json*.

**Return type** *json*

```
foremast.iam.construct_policy.render_policy_template(account_number='',
                                                    app='coreforrest', env='dev',
                                                    group='forrest', items=None,
                                                    pipeline_settings=None,
                                                    region='us-east-1', service='')
```

Render IAM Policy template.

To support multiple statement blocks, JSON objects can be separated by a comma. This function attempts to turn any invalid JSON into a valid list based on this comma separated assumption.

#### Parameters

- **account\_number** (*str*) – AWS Account number.
- **app** (*str*) – Name of Spinnaker Application.
- **env** (*str*) – Environment/Account in AWS
- **group** (*str*) – A Application group/namespace
- **items** (*list*) – Resource names used to create a Policy per Resource.
- **region** (*str*) – AWS region.
- **pipeline\_settings** (*dict*) – Settings from *pipeline.json*.
- **service** (*str*) – Name of cloud service to find matching IAM Policy template.

**Returns** IAM Policy *dict* statements for the given service.

**Return type** *list*

## foremast.iam.create\_iam module

Create IAM Instance Profiles, Roles, Users, and Groups.

```
foremast.iam.create_iam.attach_profile_to_role(client, role_name='forrest_unicorn_role',
                                              profile_name='forrest_unicorn_profile')
```

Attach an IAM Instance Profile *\_profile\_name\_* to Role *\_role\_name\_*.

#### Parameters

- **role\_name** (*str*) – Name of Role.
- **profile\_name** (*str*) – Name of Instance Profile.

**Returns** True upon successful completion.

```
foremast.iam.create_iam.create_iam_resources(env='dev', app='', **_)
```

Create the IAM Resources for the application.

#### Parameters

- **env** (*str*) – Deployment environment/account, i.e. dev, stage, prod.
- **app** (*str*) – Spinnaker Application name.

**Returns** True upon successful completion.

## foremast.iam.resource\_action module

Generic boto3 Resource action caller.

```
foremast.iam.resource_action.resource_action(client, action='', log_format='item:
                                             %(key)s', **kwargs)
```

Call `_action_` using `boto3_client_` with `_kwargs_`.

This is meant for `_action_` methods that will create or implicitly prove a given Resource exists. The `_log_failure_` flag is available for methods that should always succeed, but will occasionally fail due to unknown AWS issues.

### Parameters

- **client** (*botocore.client.IAM*) – boto3 client object.
- **action** (*str*) – Client method to call.
- **log\_format** (*str*) – Generic log message format, ‘Added’ or ‘Found’ will be prepended depending on the scenario.
- **prefix** (*str*) – Prefix word to use in successful INFO message.
- **\*\*kwargs** – Keyword arguments to pass to `_action_` method.

**Returns** boto3 response.

**Return type** dict

## Module contents

Package for managing IAM policies in AWS. Spinnaker does not directly interfact with IAM so this package mostly uses Boto3

## foremast.pipeline package

### Submodules

#### foremast.pipeline.clean\_pipelines module

Clean removed Pipelines.

```
foremast.pipeline.clean_pipelines.clean_pipelines(app='', settings=None)
```

Delete Pipelines for regions not defined in application.json files.

For Pipelines named **app\_name [region]**, `_region_` will need to appear in at least one application.json file. All other names are assumed unamanaged.

### Parameters

- **app** (*str*) – Application name
- **settings** (*dict*) – imported configuration settings

**Returns** Upon successful completion.

**Return type** `True`

**Raises**

- `SpinnakerPipelineCreationFailed` – Missing application.json file from `create-configs`.

```
foremast.pipeline.clean_pipelines.delete_pipeline(app='', pipeline_name='')
Delete _pipeline_name_ from _app_.
```

## foremast.pipeline.construct\_pipeline\_block module

Construct a block section of Stages in a Spinnaker Pipeline.

```
foremast.pipeline.construct_pipeline_block.check_provider_healthcheck(settings,
                                                                    de-
                                                                    fault_provider='Discovery')
```

Set Provider Health Check when specified.

**Returns**

**ProviderHealthCheck** with attributes:

- `providers` (list): Providers set to use native Health Check.
- `has_healthcheck` (bool): If any native Health Checks requested.

**Return type** `collections.namedtuple`

```
foremast.pipeline.construct_pipeline_block.construct_pipeline_block(env='',
                                                                    gener-
                                                                    ated=None,
                                                                    previ-
                                                                    ous_env='',
                                                                    region='us-
                                                                    east-1',
                                                                    set-
                                                                    tings=None,
                                                                    pipeline_data=None,
                                                                    re-
                                                                    gion_subnets=None)
```

Create the Pipeline JSON from template.

This handles the common repeatable patterns in a pipeline, such as judgement, infrastructure, tagger and qe.

---

**Note:** ASG Health Check type is overridden to `EC2` when deploying to `dev` or using `eureka_enabled`.

---

**Parameters**

- `env` (`str`) – Deploy environment name, e.g. dev, stage, prod.
- `generated` (`gogoutils.Generator`) – Gogo Application name generator.
- `previous_env` (`str`) – The previous deploy environment to use as Trigger.
- `region` (`str`) – AWS Region to deploy to.
- `settings` (`dict`) – Environment settings from configurations.

- **pipeline\_data** (*dict*) – Pipeline settings from configurations
- **region\_subnets** (*dict*) – Subnets for a Region, e.g. {'us-west-2': ['us-west-2a', 'us-west-2b', 'us-west-2c']}.

**Returns** Pipeline JSON template rendered with configurations.

**Return type** *dict*

```
foremast.pipeline.construct_pipeline_block.ec2_pipeline_setup (appname='',
                                                             project='', settings=None,
                                                             env='', region='',
                                                             region_subnets=None)
```

Handles ec2 pipeline data setup

**Parameters**

- **appname** (*str*) – Name of the application
- **project** (*str*) – Group name of application
- **settings** (*dict*) – Environment settings from configurations.
- **env** (*str*) – Deploy environment name, e.g. dev, stage, prod.
- **region** (*str*) – AWS Region to deploy to.
- **region\_subnets** (*dict*) – Subnets for a Region, e.g. {'us-west-2': ['us-west-2a', 'us-west-2b', 'us-west-2c']}.

**Returns** Updated settings to pass to templates for EC2 info

**Return type** *dict*

```
foremast.pipeline.construct_pipeline_block.get_template_name (env, pipeline_type)
```

Generates the correct template name based on pipeline type

**Parameters**

- **env** (*str*) – environment to generate templates for
- **pipeline\_type** (*str*) – Type of pipeline like ec2 or lambda

**Returns** Name of template

**Return type** *str*

## foremast.pipeline.construct\_pipeline\_block\_datapipeline module

Construct a block section of Stages in a Spinnaker Pipeline.

---

```
foremast.pipeline.construct_pipeline_block_datapipeline.construct_pipeline_block_datapipel
```

Create the Pipeline JSON from template.

This handles the common repeatable patterns in a pipeline, such as judgement, infrastructure, tagger and qe.

**Parameters**

- **env** (*str*) – Deploy environment name, e.g. dev, stage, prod.
- **generated** (*gogoutils.Generator*) – Gogo Application name generator.
- **previous\_env** (*str*) – The previous deploy environment to use as Trigger.
- **region** (*str*) – AWS Region to deploy to.
- **settings** (*dict*) – Environment settings from configurations.

**Returns** Pipeline JSON template rendered with configurations.

**Return type** *dict*

### foremast.pipeline.construct\_pipeline\_block\_lambda module

Construct a block section of Stages in a Spinnaker Pipeline.

```
foremast.pipeline.construct_pipeline_block_lambda.construct_pipeline_block_lambda (env='',
gen-
er-
ated=None,
pre-
vi-
ous_env=None,
region='us-
east-
1',
re-
gion_subnet,
set-
tings=None,
pipeline_dat
```

Create the Pipeline JSON from template.

This handles the common repeatable patterns in a pipeline, such as judgement, infrastructure, tagger and qe.

**Parameters**

- **env** (*str*) – Deploy environment name, e.g. dev, stage, prod.

- **generated** (*gogoutils.Generator*) – Gogo Application name generator.
- **previous\_env** (*str*) – The previous deploy environment to use as Trigger.
- **region** (*str*) – AWS Region to deploy to.
- **settings** (*dict*) – Environment settings from configurations.
- **region\_subnets** (*dict*) – Subnets for a Region, e.g. {'us-west-2': ['us-west-2a', 'us-west-2b', 'us-west-2c']}.

**Returns** Pipeline JSON template rendered with configurations.

**Return type** `dict`

### foremast.pipeline.construct\_pipeline\_block\_s3 module

Construct a block section of Stages in a Spinnaker Pipeline.

```
foremast.pipeline.construct_pipeline_block_s3.construct_pipeline_block_s3(env='',
                                                                           gen-
                                                                           er-
                                                                           ated=None,
                                                                           pre-
                                                                           vi-
                                                                           ous_env=None,
                                                                           region='us-
                                                                           east-
                                                                           1',
                                                                           set-
                                                                           tings=None,
                                                                           pipeline_data=None)
```

Create the Pipeline JSON from template.

This handles the common repeatable patterns in a pipeline, such as judgement, infrastructure, tagger and qe.

#### Parameters

- **env** (*str*) – Deploy environment name, e.g. dev, stage, prod.
- **generated** (*gogoutils.Generator*) – Gogo Application name generator.
- **previous\_env** (*str*) – The previous deploy environment to use as Trigger.
- **region** (*str*) – AWS Region to deploy to.
- **settings** (*dict*) – Environment settings from configurations.

**Returns** Pipeline JSON template rendered with configurations.

**Return type** `dict`

### foremast.pipeline.create\_pipeline module

Create Pipelines for Spinnaker.

```
class foremast.pipeline.create_pipeline.SpinnakerPipeline(app='', trigger_job='',
                                                         prop_path='', base='',
                                                         runway_dir='')
```

Bases: `object`



Manipulate Spinnaker Pipelines.

#### Parameters

- **app** (*str*) – Application name.
- **trigger\_job** (*str*) – Jenkins trigger job.
- **base** (*str*) – Base image name (i.e: fedora).
- **prop\_path** (*str*) – Path to the raw.properties.json.
- **runway\_dir** (*str*) – Path to local runway directory.

**compare\_with\_existing** (*region='us-east-1', onetime=False*)

Compare desired pipeline with existing pipelines.

#### Parameters

- **region** (*str*) – Region of desired pipeline.
- **onetime** (*bool*) – Looks for different pipeline if Onetime

**Returns** pipeline\_id if existing, empty string if not.

**Return type** *str*

**create\_pipeline** ()

Main wrapper for pipeline creation. 1. Runs clean\_pipelines to clean up existing ones 2. determines which environments the pipeline needs 3. gets all subnets for template rendering 4. Renders all of the pipeline blocks as defined in configs 5. Runs post\_pipeline to create pipeline

**get\_existing\_pipelines** ()

Get existing pipeline configs for specific application.

**Returns** Pipeline config json

**Return type** *str*

**post\_pipeline** (*pipeline*)

Send Pipeline JSON to Spinnaker.

**Parameters** **pipeline** (*json*) – json of the pipeline to be created in Spinnaker

**render\_wrapper** (*region='us-east-1'*)

Generate the base Pipeline wrapper.

This renders the non-repeatable stages in a pipeline, like jenkins, baking, tagging and notifications.

**Parameters** **region** (*str*) – AWS Region.

**Returns** Rendered Pipeline wrapper.

**Return type** *dict*

## foremast.pipeline.create\_pipeline\_datapipeline module

Create Pipelines for Spinnaker.

```
class foremast.pipeline.create_pipeline_datapipeline.SpinnakerPipelineDataPipeline (app='',
trig-
ger_job='',
prop_path='',
base='',
run-
way_dir='')
```

Bases: *foremast.pipeline.create\_pipeline.SpinnakerPipeline*

Manipulate Spinnaker Pipelines.

#### Parameters

- **app** (*str*) – Application name.
- **trigger\_job** (*str*) – Jenkins trigger job.
- **base** (*str*) – Base image name (i.e: fedora).
- **prop\_path** (*str*) – Path to the raw.properties.json.

#### create\_pipeline ()

Main wrapper for pipeline creation. 1. Runs clean\_pipelines to clean up existing ones 2. determines which environments the pipeline needs 3. Renders all of the pipeline blocks as defined in configs 4. Runs post\_pipeline to create pipeline

#### render\_wrapper (region='us-east-1')

Generate the base Pipeline wrapper.

This renders the non-repeatable stages in a pipeline, like jenkins, baking, tagging and notifications.

**Parameters** **region** (*str*) – AWS Region.

**Returns** Rendered Pipeline wrapper.

**Return type** dict

## foremast.pipeline.create\_pipeline\_lambda module

Create Pipelines for Spinnaker.

```
class foremast.pipeline.create_pipeline_lambda.SpinnakerPipelineLambda (app='',
trig-
ger_job='',
prop_path='',
base='',
run-
way_dir='')
```

Bases: *foremast.pipeline.create\_pipeline.SpinnakerPipeline*

Manipulate Spinnaker Pipelines.

#### Parameters

- **app** (*str*) – Application name.
- **trigger\_job** (*str*) – Jenkins trigger job.
- **base** (*str*) – Base image name (i.e: fedora).
- **prop\_path** (*str*) – Path to the raw.properties.json.

**create\_pipeline ()**

Main wrapper for pipeline creation. 1. Runs `clean_pipelines` to clean up existing ones 2. determines which environments the pipeline needs 3. gets all subnets for template rendering 4. Renders all of the pipeline blocks as defined in configs 5. Runs `post_pipeline` to create pipeline

**render\_wrapper** (*region='us-east-1'*)

Generate the base Pipeline wrapper.

This renders the non-repeatable stages in a pipeline, like jenkins, baking, tagging and notifications.

**Parameters** **region** (*str*) – AWS Region.

**Returns** Rendered Pipeline wrapper.

**Return type** `dict`

**foremast.pipeline.create\_pipeline\_manual** module

Create manual Pipeline for Spinnaker.

```
class foremast.pipeline.create_pipeline_manual.SpinnakerPipelineManual (app='',
                                                                    trig-
                                                                    ger_job='',
                                                                    prop_path='',
                                                                    base='',
                                                                    run-
                                                                    way_dir='')
```

Bases: `foremast.pipeline.create_pipeline.SpinnakerPipeline`

Manual JSON configured Spinnaker Pipelines.

**create\_pipeline ()**

Use JSON files to create Pipelines.

**foremast.pipeline.create\_pipeline\_onetime** module

Create onetime Pipelines for Spinnaker.

These are circumventions for redployments to a specific Environment in a Region.

```
class foremast.pipeline.create_pipeline_onetime.SpinnakerPipelineOnetime (app='',
                                                                    trig-
                                                                    ger_job='',
                                                                    prop_path='',
                                                                    base='',
                                                                    one-
                                                                    time='',
                                                                    run-
                                                                    way_dir='')
```

Bases: `foremast.pipeline.create_pipeline.SpinnakerPipeline`

Manipulate Spinnaker Pipelines.

**Parameters**

- **app** (*str*) – Application name.
- **trigger\_job** (*str*) – Jenkins trigger job.
- **base** (*str*) – Base image name (i.e: fedora).

- **prop\_path** (*str*) – Path to the raw.properties.json.
- **onetime** (*str*) – Environment to build onetime pipeline for.

**post\_pipeline** (*pipeline*)

Send Pipeline JSON to Spinnaker.

**Parameters** **pipeline** (*dict*, *str*) – New Pipeline to create.

## foremast.pipeline.create\_pipeline\_s3 module

Create Pipelines for Spinnaker.

```
class foremast.pipeline.create_pipeline_s3.SpinnakerPipelineS3 (app='',          trig-
                                                              ger_job='',
                                                              prop_path='',
                                                              base='',          run-
                                                              way_dir='')
```

Bases: *foremast.pipeline.create\_pipeline.SpinnakerPipeline*

Manipulate Spinnaker Pipelines.

### Parameters

- **app** (*str*) – Application name.
- **trigger\_job** (*str*) – Jenkins trigger job.
- **base** (*str*) – Base image name (i.e: fedora).
- **prop\_path** (*str*) – Path to the raw.properties.json.

**create\_pipeline** ()

Main wrapper for pipeline creation. 1. Runs clean\_pipelines to clean up existing ones 2. determines which environments the pipeline needs 3. Renders all of the pipeline blocks as defined in configs 4. Runs post\_pipeline to create pipeline

**render\_wrapper** (*region='us-east-1'*)

Generate the base Pipeline wrapper.

This renders the non-repeatable stages in a pipeline, like jenkins, baking, tagging and notifications.

**Parameters** **region** (*str*) – AWS Region.

**Returns** Rendered Pipeline wrapper.

**Return type** *dict*

## foremast.pipeline.renumerate\_stages module

Renumerate the Pipeline Stages.

**foremast.pipeline.renumerate\_stages.renumerate\_stages** (*pipeline*)

Renumber Pipeline Stage reference IDs to account for dependencies.

stage order is defined in the templates. The `refId` field dictates if a stage should be mainline or parallel to other stages.

- **master** - A mainline required stage. Other stages depend on it
- **branch** - A stage that should be ran in parallel to master stages.
- **merge** - A stage that is parallel but other stages still depend on it.

**Parameters** `pipeline` (*dict*) – Completed Pipeline ready for reenumeration.

**Returns** Pipeline ready to be sent to Spinnaker.

**Return type** `dict`

## Module contents

Package for the creation of spinnaker pipelines

### foremast.s3 package

#### Subpackages

#### foremast.s3.destroy\_s3 package

#### Submodules

#### foremast.s3.destroy\_s3.destroy\_s3 module

Destroy any S3 Resources.

```
foremast.s3.destroy_s3.destroy_s3.destroy_s3 (app='', env='dev', **_)
    Destroy S3 Resources for _app_ in _env_.
```

##### Parameters

- **app** (*str*) – Application name
- **env** (*str*) – Deployment environment/account name

**Returns** True if destroyed successfully

**Return type** `boolean`

## Module contents

#### Submodules

#### foremast.s3.create\_archaius module

Archaius functions for deployment.

```
foremast.s3.create_archaius.init_properties (env='dev', app='unnecessary', **_)
    Make sure _application.properties_ file exists in S3.
```

For Applications with Archaius support, there needs to be a file where the cloud environment variable points to.

##### Parameters

- **env** (*str*) – Deployment environment/account, i.e. dev, stage, prod.
- **app** (*str*) – GitLab Project name.

**Returns** True when `application.properties` was found. False when `application.properties` needed to be created.

## foremast.s3.s3apps module

S3 web application infrastructure.

**class** `foremast.s3.s3apps.S3Apps` (*app, env, region, prop\_path*)

Bases: `object`

Configure infrastructure and policies for S3 web applications.

**create\_bucket** ()

Create or update bucket based on app name.

## foremast.s3.s3deploy module

Deploy artifacts to S3.

**class** `foremast.s3.s3deploy.S3Deployment` (*app, env, region, prop\_path, artifact\_path, artifact\_version*)

Bases: `object`

Handle uploading artifacts to S3 and S3 deployment strategies.

**promote\_artifacts** ()

Promote artifact version to LATEST.

**setup\_pathing** ()

Format pathing for S3 deployments.

**upload\_artifacts** ()

Upload artifacts to S3 and copy to LATEST depending on strategy.

## Module contents

Package for creating S3 bucket for each application. Used primarily for Archaius

## foremast.securitygroup package

### Subpackages

### foremast.securitygroup.destroy\_sg package

### Submodules

### foremast.securitygroup.destroy\_sg.destroy\_sg module

Destroy Security Group Resources.

`foremast.securitygroup.destroy_sg.destroy_sg`.**destroy\_sg** (*app='', env='', region='', \*\*\_*)

Destroy Security Group.

#### Parameters

- **app** (*str*) – Spinnaker Application name.
- **env** (*str*) – Deployment environment.

- **region** (*str*) – Region name, e.g. us-east-1.

**Returns** True upon successful completion.

## Module contents

### Submodules

#### foremast.securitygroup.create\_securitygroup module

Create Security Groups for Spinnaker Pipelines.

Security Group port specifications will be sourced from the *application.json* files for each environment.

### Examples

application-master.json:

```
{
  "security_group": {
    "description": "Security Group description",
    "ingress": {
      "eureka": [
        {"start_port": 80, "end_port": 8080, "protocol": "tcp"}
      ],
      "coreforrest": [
        8080,
        8443
      ],
      "0.0.0.0/0": [
        8080
      ]
    }
  }
}
```

**class** foremast.securitygroup.create\_securitygroup.**SpinnakerSecurityGroup** (*app=None, env=None, re- gion=None, prop\_path=None*)

Bases: `object`

Manipulate Spinnaker Security Groups.

#### Parameters

- **app** (*str*) – Application name.
- **env** (*str*) – Deployment environment.
- **prop\_path** (*str*) – Path to the raw.properties.json.
- **region** (*str*) – AWS Region.

**add\_cidr\_rules** (*rules*)

Add cidr rules to security group via boto.

**Parameters** `rules` (*list*) – Allowed Security Group ports and protocols.

**Returns** Upon successful completion.

**Return type** `True`

**Raises** `SpinnakerSecurityGroupError` – boto3 call failed to add CIDR block to Security Group.

**add\_tags** ()

Add tags to security group.

**Returns** Upon successful completion.

**Return type** `True`

**create\_security\_group** ()

Send a POST to spinnaker to create a new security group.

**Returns** True if created successfully

**Return type** `boolean`

**Raises** `ForemastConfigurationFileError` – Missing environment configuration or misconfigured Security Group definition.

**update\_default\_securitygroup\_rules** ()

Concatenate application and global security group rules

## Module contents

Package for managing security groups in AWS

### foremast.slacknotify package

#### Submodules

#### foremast.slacknotify.slack\_notification module

Notify Slack channel.

**class** `foremast.slacknotify.slack_notification.SlackNotification` (*app=None, env=None, prop\_path=None*)

Bases: `object`

Post slack notification. Inform users about infrastructure changes to prod\* accounts.

#### Parameters

- **app** (*str*) – Application name
- **env** (*str*) – Environment/account name of changed infrastructure
- **prop\_path** (*str*) – Path to the rendered configuration files

**notify\_slack\_channel** ()

Post message to a defined Slack channel.



`post_message()`  
Send templated message to `#deployments-{env}`.  
Primarily for production deployments.

## Module contents

Package for posting a notification to slack

## foremast.utils package

### Submodules

#### foremast.utils.apps module

Application related utilities.

`foremast.utils.apps.get_all_apps()`  
Get a list of all applications in Spinnaker.

**Returns** Response from Gate containing list of all apps.

**Return type** `requests.models.Response`

`foremast.utils.apps.get_details(app='groupproject', env='dev', region='us-east-1')`  
Extract details for Application.

#### Parameters

- **app** (*str*) – Application Name
- **env** (*str*) – Environment/account to get details from

#### Returns

`collections.namedtuple` with `_group_`, `_policy_`, `_profile_`, `_role_`, `_user_`.

#### foremast.utils.awslambda module

Lambda related utilities.

`foremast.utils.awslambda.add_lambda_permissions(function='', statement_id='', action='lambda:InvokeFunction', principal='', source_arn='', env='', region='us-east-1')`

Add permission to Lambda for the event trigger.

#### Parameters

- **function** (*str*) – Lambda function name
- **statement\_id** (*str*) – IAM policy statement (principal) id
- **action** (*str*) – Lambda action to allow
- **principal** (*str*) – AWS principal to add permissions
- **source\_arn** (*str*) – ARN of the source of the event. Only needed for S3

- **env** (*str*) – Environment/account of function
- **region** (*str*) – AWS region of function

`foremast.utils.awslambda.get_lambda_alias_arn` (*app, account, region*)

Get lambda alias ARN. Assumes that account name is equal to alias name.

**Parameters**

- **account** (*str*) – AWS account name.
- **region** (*str*) – Region name, e.g. us-east-1
- **app** (*str*) – Lambda function name

**Returns** ARN for requested lambda alias

**Return type** *str*

`foremast.utils.awslambda.get_lambda_arn` (*app, account, region*)

Get lambda ARN.

**Parameters**

- **account** (*str*) – AWS account name.
- **region** (*str*) – Region name, e.g. us-east-1
- **app** (*str*) – Lambda function name

**Returns** ARN for requested lambda function

**Return type** *str*

`foremast.utils.awslambda.remove_all_lambda_permissions` (*app\_name='', env='', region='us-east-1'*)

Remove all foremast-\* permissions from lambda.

**Parameters**

- **app\_name** (*str*) – Application name
- **env** (*str*) – AWS environment
- **region** (*str*) – AWS region

## foremast.utils.banners module

Prints a banner.

Example:

### Create Security Group

`foremast.utils.banners.banner` (*text, border='=', width=80*)

Center *text* in a banner *width* wide with *border* characters.

**Parameters**

- **text** (*str*) – What to write in the banner
- **border** (*str*) – Border character
- **width** (*int*) – How long the border should be

**foremast.utils.credentials module**

Retrieve Account Credential from Gate API.

`foremast.utils.credentials.get_env_credential` (*env*='dev')

Get Account Credential from Spinnaker for *env*.

**Parameters** *env* (*str*) – Environment name to find credentials for.

**Returns**

Complete credentials for *env*:

```
{
  'accountId': '123098123',
  'accountType': 'dev',
  'assumeRole': 'role/spinnakerManaged',
  'bastionEnabled': False,
  'challengeDestructiveActions': False,
  'cloudProvider': 'aws',
  'defaultKeyPair': 'dev_access',
  'discoveryEnabled': False,
  'eddaEnabled': False,
  'environment': 'dev',
  'front50Enabled': False,
  'name': 'dev',
  'primaryAccount': False,
  'provider': 'aws',
  'regions': [
    {
      'availabilityZones': ['us-east-1b', 'us-east-1c',
                          'us-east-1d', 'us-east-1e'],
      'deprecated': False,
      'name': 'us-east-1',
      'preferredZones':
        ['us-east-1b', 'us-east-1c', 'us-east-1d', 'us-east-1e']
    }, {
      'availabilityZones':
        ['us-west-2a', 'us-west-2b', 'us-west-2c'],
      'deprecated': False,
      'name': 'us-west-2',
      'preferredZones':
        ['us-west-2a', 'us-west-2b', 'us-west-2c']
    }
  ],
  'requiredGroupMembership': [],
  'sessionName': 'Spinnaker',
  'type': 'aws'
}
```

**Return type** `dict`

**foremast.utils.deep\_chain\_map module**

ChainMap modification to handle nested dict objects.

**class** `foremast.utils.deep_chain_map.DeepChainMap` (\*maps)  
Bases: `collections.ChainMap`

Deep lookups for `collections.ChainMap` objects.

When there are nested dicts, the first found, second level dict is returned instead of overlaying alternative second level dicts.

```
>>> first = {'key1': {'key1_1': 'first_one'}}
>>> second = {'key1': {'key1_1': 'second_one', 'key1_2': 'second_two'}}
>>> collections.ChainMap(first, second)['key1']
{'key1_1': 'first_one'}
>>> collections.ChainMap(second, first)['key1']
{'key1_1': 'second_one', 'key1_2': 'second_two'}
```

# Deep lookup will flatten every level.

```
>>> DeepChainMap(first, second)['key1']
{'key1_1': 'first_one', 'key1_2': 'second_two'}
>>> DeepChainMap(second, first)['key1']
{'key1_1': 'second_one', 'key1_2': 'second_two'}
```

## foremast.utils.dns module

Retrieve Route 53 Hosted Zone IDs.

`foremast.utils.dns.delete_existing_cname` (*env*, *zone\_id*, *dns\_name*)  
Delete an existing CNAME record.

This is used when updating to multi-region for deleting old records. The record can not just be upserted since it changes types.

### Parameters

- **env** (*str*) – Deployment environment.
- **zone\_id** (*str*) – Route53 zone id.
- **dns\_name** (*str*) – FQDN of application’s dns entry to add/update.

`foremast.utils.dns.find_existing_record` (*env*, *zone\_id*, *dns\_name*, *check\_key=None*,  
*check\_value=None*)

Check if a specific DNS record exists.

### Parameters

- **env** (*str*) – Deployment environment.
- **zone\_id** (*str*) – Route53 zone id.
- **dns\_name** (*str*) – FQDN of application’s dns entry to add/update.
- **check\_key** (*str*) – Key to look for in record. Example: “Type”
- **check\_value** (*str*) – Value to look for with `check_key`. Example: “CNAME”

**Returns** Found Record. Returns None if no record found

**Return type** *json*

`foremast.utils.dns.get_dns_zone_ids` (*env='dev'*, *facing='internal'*)  
Get Route 53 Hosted Zone IDs for `_env_`.

**Parameters**

- **env** (*str*) – Deployment environment.
- **facing** (*str*) – Type of ELB, external or internal.

**Returns** Hosted Zone IDs for `_env_`. Only `PrivateZone` when `_facing_` is internal.

**Return type** `list`

`foremast.utils.dns.update_dns_zone_record(env, zone_id, **kwargs)`  
Create a Route53 CNAME record in `_env_` zone.

**Parameters**

- **env** (*str*) – Deployment environment.
- **zone\_id** (*str*) – Route53 zone id.

**Keyword Arguments**

- **dns\_name** (*str*) – FQDN of application's dns entry to add/update.
- **dns\_name\_aws** (*str*) – FQDN of AWS resource
- **dns\_ttl** (*int*) – DNS time-to-live (ttl)

`foremast.utils.dns.update_failover_dns_record(env, zone_id, **kwargs)`  
Create a Failover Route53 alias record in `_env_` zone.

**Parameters**

- **env** (*str*) – Deployment environment.
- **zone\_id** (*str*) – Route53 zone id.

**Keyword Arguments**

- **dns\_name** (*str*) – FQDN of application's dns entry to add/update.
- **dns\_ttl** (*int*) – DNS time-to-live (ttl)
- **elb\_aws\_dns** (*str*) – DNS A Record of ELB from AWS
- **elb\_dns\_zone\_id** (*str*) – Zone ID of ELB DNS
- **failover\_state** (*str*) – if the record is primary or secondary
- **primary\_region** (*str*) – Primary AWS region for DNS

**foremast.utils.elb module**

Search for ELB DNS name.

`foremast.utils.elb.find_elb(name='', env='', region='')`  
Get an application's AWS elb dns name.

**Parameters**

- **name** (*str*) – ELB name
- **env** (*str*) – Environment/account of ELB
- **region** (*str*) – AWS Region

**Returns** elb DNS record

**Return type** `str`

```
foremast.utils.elb.find_elb_dns_zone_id(name='', env='dev', region='us-east-1')
```

Get an application's AWS elb dns zone id.

**Parameters**

- **name** (*str*) – ELB name
- **env** (*str*) – Environment/account of ELB
- **region** (*str*) – AWS Region

**Returns** elb DNS zone ID

**Return type** *str*

**foremast.utils.encoding module**

Generate base64 encoded User Data.

```
foremast.utils.encoding.generate_encoded_user_data(env='dev', region='us-east-1',
                                                    app_name='', group_name='',
                                                    canary=False)
```

Generate base64 encoded User Data.

**Parameters**

- **env** (*str*) – Deployment environment, e.g. dev, stage.
- **region** (*str*) – AWS Region, e.g. us-east-1.
- **app\_name** (*str*) – Application name, e.g. coreforrest.
- **group\_name** (*str*) – Application group name, e.g. core.

**Returns**

base64 encoded User Data script.

```
#!/bin/bash      export      CLOUD_ENVIRONMENT=dev      export
CLOUD_ENVIRONMENT_C=dev      export      CLOUD_ENVIRONMENT_P=dev
export CLOUD_ENVIRONMENT_S=dev      export CLOUD_APP=coreforrest      ex-
port CLOUD_APP_GROUP=forrest      export CLOUD_STACK=forrest      export
EC2_REGION=us-east-1      export CLOUD_DOMAIN=dev.example.com      printenv |
grep 'CLOUDIEC2' | awk '$0="export "'>> /etc/gogo/cloud_env
```

**Return type** *str*

**foremast.utils.gate module**

Dynamic Gate API interface.

It is best to use a new Class Instance for each request unless something is keeping close track of `_self.path_`. Reusing an Instance will have adverse affects as `_self.path_` will not be cleared automatically.

**Examples**

Typical imports:

```
from foremast.utils import Gate
from .utils import Gate
```

Responses will be a *dict* type:

```
response = Gate().credentials.dev.get()
response = Gate('credentials/dev').get()
type(response) == dict
```

The first arguments is expected to be a JSON *str* or *dict* representation and will be passed to the **json** argument of the `_requests_` call:

```
response = Gate().tasks.post({'json': 'data'})
# requests.post(json={'json': 'data'})
```

Keyword arguments besides `_json_dict_` will be passed to **data** or **params** of the `_requests_` call:

```
response = Gate().tasks.post({'json': 'data'}, custom='param')
# requests.post(json={'json': 'data'}, data={'custom': 'param'})
```

What is happening? The normal instantiation initializes the request path to an empty string:

```
a = Gate()
a.path == ''
```

Accessing attributes will append the accessed attribute to the end of the path:

```
b = Gate().applications
# __getattr__() appends 'applications' to self.path and returns self
b.path == '/applications'
```

This continues recursively because each attribute access will return a reference to the current Instance:

```
c = Gate().applications.coreforrest
# __getattr__() appends 'applications' to self.path and returns self
# __getattr__() appends 'coreforrest' to self.path and returns self
c.path == '/applications/coreforrest'
```

Once an HTTP method matches, the Instance's **verb** attribute will be set in preparation for the `_requests_` call:

```
d = Gate().applications.coreforrest.get
# __getattr__() appends 'applications' to self.path and returns self
# __getattr__() appends 'coreforrest' to self.path and returns self
# __getattr__() sets 'get' to self.verb and returns self
d.path == '/applications/coreforrest'
d.verb == 'get'
```

Finally ending with `()` will trigger the `_requests_` call. The following are all equivalent calls based on the previous examples:

```
d() == c.get()
d() == b.coreforrest.get()
d() == a.applications.coreforrest.get()
d() == Gate().applications.coreforrest.get()
# __getattr__() appends 'applications' to self.path and returns self
# __getattr__() appends 'coreforrest' to self.path and returns self
# __getattr__() sets 'get' to self.verb and returns self
# __call__() executes the request
# requests.get() is used because d.verb == 'get'
# requests.get(API_URL + '/applications/coreforrest')
```

Reusing an Instance is discouraged due to stored Instance attributes:

```
e = Gate().applications
e.coreforrest.get()
# Succeeds because e.path == '/applications/coreforest'
e.edgeforrest.get()
# Fails because e.path == '/applications/coreforrest/edgeforrest'
```

**class** foremast.utils.gate.**Gate** (*path*='')

Bases: `object`

Dynamic Gate API interface.

**Parameters** *path* (*str*) – URL path or full URL.

**assemble\_request\_kwargs** (*json\_data*, *kwargs*)

Construct kwargs for final request.

**Parameters**

- **json\_data** (*str*) – JSON content to send in request.
- **path** (*str*) – URL path to request from Gate API.

**Returns**

Assembled kwargs:

```
{
  'headers': {'accept': '*/*', ...},
  'data': {'extra': 'arguments', ...},
  'json': {'name': 'coreforrest', ...}
}
```

**Return type** `dict`

**normalize\_url** ()

Return URL based on `_self.path_` or construct from `_API_URL_`.

## foremast.utils.generate\_filename module

Generate various filenames.

foremast.utils.generate\_filename.**generate\_packer\_filename** (*provider*, *region*,  
*builder*)

Generate a filename to be used by packer.

**Parameters**

- **provider** (*str*) – Name of Spinnaker provider.
- **region** (*str*) – Name of provider region to use.
- **builder** (*str*) – Name of builder process type.

**Returns** Generated filename based on parameters.

**Return type** `str`



### foremast.utils.generate\_s3\_tags module

S3 Tag functions.

foremast.utils.generate\_s3\_tags.**generated\_tag\_data** (*tags*)

Convert *dict* to S3 Tag list.

**Parameters** *tags* (*dict*) – Dictionary of tag key and tag value passed.

**Returns** List of dictionaries.

**Return type** *list*

### foremast.utils.get\_cloudwatch\_event\_rule module

CloudWatch Event functions.

foremast.utils.get\_cloudwatch\_event\_rule.**get\_cloudwatch\_event\_rule** (*app\_name*,  
*account*,  
*region*)

Get CloudWatch Event rule names.

### foremast.utils.get\_sns\_subscriptions module

SNS Subscription functions.

foremast.utils.get\_sns\_subscriptions.**get\_sns\_subscriptions** (*app\_name*, *env*, *re-*  
*gion*)

List SNS lambda subscriptions.

**Returns** List of Lambda subscribed SNS ARNs.

**Return type** *list*

### foremast.utils.get\_sns\_topic\_arn module

SNS Topic functions.

foremast.utils.get\_sns\_topic\_arn.**get\_sns\_topic\_arn** (*topic\_name*, *account*, *region*)

Get SNS topic ARN.

**Parameters**

- **topic\_name** (*str*) – Name of the topic to lookup.
- **account** (*str*) – Environment, e.g. dev
- **region** (*str*) – Region name, e.g. us-east-1

**Returns** ARN for requested topic name

**Return type** *str*

### foremast.utils.lookups module

Lookup AMI ID from a simple name.

**class** `foremast.utils.lookups.FileLookup` (*git\_short*='', *runway\_dir*='')

Bases: `object`

Retrieve files from a local filesystem or remote GitLab Server.

When `_runway_dir_` is specified, the local directory is given priority and remote Git Server will not be used.

#### Parameters

- **git\_short** (*str*) – Short Git representation of repository, e.g. forrest/core.
- **runway\_dir** (*str*) – Root of local runway directory to use instead of accessing Git.

**get** (*branch*='master', *filename*='')

Retrieve `_filename_` from GitLab.

#### Parameters

- **branch** (*str*) – Git Branch to find file.
- **filename** (*str*) – Name of file to retrieve relative to root of Git repository, or `_runway_dir_` if specified.

**Returns** Contents of file.

**Return type** `str`

**get\_gitlab\_project\_id**()

Get numerical GitLab Project ID.

**Returns** Project ID number.

**Return type** `int`

**Raises** `foremast.exceptions.GitLabApiError` – GitLab responded with bad status code.

**json** (*branch*='master', *filename*='')

Retrieve `_filename_` from GitLab.

#### Parameters

- **branch** (*str*) – Git Branch to find file.
- **filename** (*str*) – Name of file to retrieve.

**Returns** Decoded JSON.

**Return type** `dict`

**Raises** `SystemExit` – Invalid JSON provided.

**local\_file** (*filename*)

Read the local file in `_self.runway_dir_`.

**Parameters** **filename** (*str*) – Name of file to retrieve relative to root of `_runway_dir_`.

**Returns** Contents of local file.

**Return type** `str`

**Raises** `FileNotFoundError` – Requested file missing.

**remote\_file** (*branch*='master', *filename*='')

Read the remote file on Git Server.

#### Parameters

- **branch** (*str*) – Git Branch to find file.

- **filename** (*str*) – Name of file to retrieve relative to root of repository.

**Returns** Contents of remote file.

**Return type** *str*

**Raises** `FileNotFoundError` – Requested file missing.

```
foremast.utils.lookups.ami_lookup(region='us-east-1', name='tomcat8')
Look up AMI ID.
```

Use `_name_` to find AMI ID. If no `ami_base_url` or `gitlab_token` is provided, `_name_` is returned as the ami id.

**Parameters**

- **region** (*str*) – AWS Region to find AMI ID.
- **name** (*str*) – Simple AMI base name to lookup.

**Returns** AMI ID for `_name_` in `_region_`.

**Return type** *str*

## foremast.utils.pipelines module

Check Pipeline name to match format.

```
foremast.utils.pipelines.check_managed_pipeline(name='', app_name='')
Check a Pipeline name is a managed format app_name [region].
```

**Parameters**

- **name** (*str*) – Name of Pipeline to check.
- **app\_name** (*str*) – Name of Application to find in Pipeline name.

**Returns** Region name from managed Pipeline name.

**Return type** *str*

**Raises** `ValueError` – Pipeline is not managed.

```
foremast.utils.pipelines.get_all_pipelines(app='')
Get a list of all the Pipelines in _app_.
```

**Parameters** **app** (*str*) – Name of Spinnaker Application.

**Returns** Response from Gate containing Pipelines.

**Return type** `requests.models.Response`

```
foremast.utils.pipelines.get_pipeline_id(app='', name='')
Get the ID for Pipeline _name_.
```

**Parameters**

- **app** (*str*) – Name of Spinnaker Application to search.
- **name** (*str*) – Name of Pipeline to get ID for.

**Returns** ID of specified Pipeline. None: Pipeline or Spinnaker Application not found.

**Return type** *str*

```
foremast.utils.pipelines.normalize_pipeline_name(name='')
Translate unsafe characters to underscores.
```

## foremast.utils.properties module

Get Application properties that have been generated by *create-configs*.

```
foremast.utils.properties.get_properties(properties_file='raw.properties.json',  
                                         env=None)
```

Get contents of `_properties_file_` for the `_env_`.

### Parameters

- **properties\_file** (*str*) – File name of *create-configs* JSON output.
- **env** (*str*) – Environment to read optionally

**Returns** JSON loaded Application properties for `_env_`. None: Given `_env_` was not found in *create-configs* JSON output.

**Return type** `dict`

## foremast.utils.roles module

IAM Role functions.

```
foremast.utils.roles.get_role_arn(role_name, env, region)
```

Get role ARN given role name.

### Parameters

- **role\_name** (*str*) – Role name to lookup
- **env** (*str*) – Environment in which to lookup
- **region** (*str*) – Region

**Returns** ARN if role found

## foremast.utils.security\_group module

Get security group id.

```
foremast.utils.security_group.get_security_group_id(name='', env='', region='')
```

Get a security group ID.

### Parameters

- **name** (*str*) – Security Group name to find.
- **env** (*str*) – Deployment environment to search.
- **region** (*str*) – AWS Region to search.

**Returns** ID of Security Group, e.g. sg-xxxx.

**Return type** `str`

### Raises

- `AssertionError` – Call to Gate API was not successful.
- `SpinnakerSecurityGroupError` – Security Group `_name_` was not found for `_env_` in `_region_`.

## foremast.utils.slack module

Post a message to slack.

```
foremast.utils.slack.post_slack_message (message=None, channel=None, username=None,
                                          icon_emoji=None)
```

Format the message and post to the appropriate slack channel.

### Parameters

- **message** (*str*) – Message to post to slack
- **channel** (*str*) – Desired channel. Must start with #

## foremast.utils.subnets module

Get available Subnets for specific Targets.

```
foremast.utils.subnets.get_subnets (target='ec2', purpose='internal', env='', region='')
```

Get all availability zones for a given target.

### Parameters

- **target** (*str*) – Type of subnets to look up (ec2 or elb).
- **env** (*str*) – Environment to look up.
- **region** (*str*) – AWS Region to find Subnets for.

**Returns** dictionary of availability zones, structured like { \$region: [ \$availabilityzones ] } or { \$account: \$region: [ \$availabilityzone ] }

**Return type** az\_dict

## foremast.utils.tasks module

POST a new task or check status of running task.

```
foremast.utils.tasks.check_task (taskid, timeout=120, wait=2)
```

Wrap check\_task.

### Parameters

- **taskid** (*str*) – the task id returned from post\_task
- **timeout** (*int*) (*optional*) – how long to wait before failing the task
- **wait** (*int*, *optional*) – Seconds to pause between polling attempts.

**Returns** polls for task status.

### Raises

- `AssertionError` – API did not responde with a 200 status code.
- `foremast.exceptions.SpinnakerTaskInconclusiveError` – Task did not reach a terminal state in the given time.

```
foremast.utils.tasks.post_task (task_data)
```

POST JSON to Spinnaker /tasks.

**Parameters** **task\_data** (*str*) – the task json that needs posted.

**Returns** taskid.

**Return type** `str`

`foremast.utils.tasks.wait_for_task(task_data)`

Run task and check the result.

**Parameters** `task_data` (`str`) – the task json to execute

**Returns** polls for task status

## foremast.utils.templates module

Render Jinja2 template.

`foremast.utils.templates.get_template(template_file='', **kwargs)`

Get the Jinja2 template and renders with dict `_kwargs_`.

**Parameters**

- `template_file` (`str`) – name of the template file
- `kwargs` – Keywords to use for rendering the Jinja2 template.

**Returns** String of rendered JSON template.

`foremast.utils.templates.get_template_object(template_file='')`

Get the Jinja2 template and returns Template object.

**Parameters** `template_file` (`str`) – name of the template file

**Returns** Template jinja2 object

**Return type** `jinja2.Template`

## foremast.utils.vpc module

Get VPC ID.

`foremast.utils.vpc.get_vpc_id(account, region)`

Get vpc id.

**Parameters**

- `account` (`str`) – AWS account name.
- `region` (`str`) – Region name, e.g. us-east-1.

**Returns** ID for the requested `_account_` in `_region_`.

**Return type** `str`

## foremast.utils.warn\_user module

Overwriting the default output of warnings package.

`foremast.utils.warn_user.warning_format(message, category, *_ , **_)`

Warning format.

## Module contents

Package for foremast supporting utilities.

## Submodules

### foremast.args module

Common `_argparse_` arguments.

`foremast.args.add_app(parser)`  
Add an `app` flag to the `_parser_`.

`foremast.args.add_artifact_path(parser)`  
Add an `artifact-path` flag to `_parser_`.

`foremast.args.add_artifact_version(parser)`  
Add an `artifact-version` flag to `_parser_`.

`foremast.args.add_debug(parser)`  
Add a `debug` flag to the `_parser_`.

`foremast.args.add_env(parser)`  
Add an `env` flag to the `_parser_`.

`foremast.args.add_gitlab_token(parser)`  
Add a `token-file` flag to the `_parser_`.

`foremast.args.add_properties(parser)`  
Add a `settings` flag to the `_parser_`.

`foremast.args.add_region(parser)`  
Add a `region` flag to the `_parser_`.

### foremast.consts module

Load base config and export package constants.

The foremast configuration file is read from the following locations in descending order. First found wins.

- `./foremast/foremast.cfg`
- `~/foremast/foremast.cfg`
- `/etc/foremast/foremast.cfg`

```
; foremast.cfg
[base]
domain = example.com
envs = dev,stage,prod
regions = us-east-1,us-west-2
ami_json_url = http://s3.bucketname.com/ami_lookup.json
git_url = https://git.example.com
gate_api_url = http://gate-api.example.com:8084
templates_path = ../../foremast-templates
default_securitygroup_rules = { "bastion" : [ { "start_port": "22", "end_port": "22",
↪ "protocol": "tcp" } ],
                                "serviceapp" : [ { "start_port": "8080", "end_port":
↪ "8080", "protocol": "tcp" } ] }
```

```
[credentials]
gitlab_token = 123token23423343
slack_token = 123slack3203120312

[whitelists]
asg_whitelist = application1,application2

[formats]
app = {project}{repo}
dns_elb = lb-{project}{repo}.{env}.{domain}
s3_bucket = secret-{env}-{project}

[task_timeouts]
default = 120
envs = { "dev" : { "deleteScalingPolicy": 240} }
```

`foremast.consts.extract_formats` (*config\_handle*)

Get application formats.

**Parameters** `config_handle` (*configparser.ConfigParser*) – Instance of configurations.

**Returns** `str` when *key* exists, otherwise *default* object. dict: of formats in {*format\_type*: *format\_pattern*}. See (`gogoutils.Formats`) for available options.

**Return type** `object`

`foremast.consts.find_config` ()

Look for `foremast.cfg` in `config_locations`.

**Raises** `SystemExit` – No configuration file found.

**Returns** found configuration file

**Return type** `ConfigParser`

`foremast.consts.load_dynamic_config` (*configurations*, *config\_dir*=`'/home/docs/checkouts/readthedocs.org/user_builds/fo`

Load and parse dynamic config

`foremast.consts.validate_key_values` (*config\_handle*, *section*, *key*, *default*=`None`)

Warn when *key* is missing from configuration *section*.

**Parameters**

- **config\_handle** (*configparser.ConfigParser*) – Instance of configurations.
- **section** (*str*) – Name of configuration section to retrieve.
- **key** (*str*) – Configuration key to look up.
- **default** (*object*) – Default object to use when *key* is not found.

**Returns** `str` when *key* exists, otherwise *default* object.

**Return type** `object`

## foremast.destroyer module

Complete Application destroyer script.



`foremast.destroyer.main()`

Attempt to fully destroy AWS Resources for a Spinnaker Application.

## foremast.exceptions module

Foremast and Spinnaker related custom exceptions.

**exception** `foremast.exceptions.DataPipelineDefinitionError`

Bases: `foremast.exceptions.ForemastError`

Error Creating Data Pipeline.

**exception** `foremast.exceptions.ForemastConfigurationFileError`

Bases: `foremast.exceptions.ForemastError`

Foremast configuration file misconfigured.

**exception** `foremast.exceptions.ForemastError`

Bases: `Exception`

Foremast related error.

**exception** `foremast.exceptions.ForemastTemplateNotFound`

Bases: `Exception`

Foremast Template was not found.

**exception** `foremast.exceptions.GitLabApiError`

Bases: `foremast.exceptions.ForemastError`

GitLab API did not return a good status.

**exception** `foremast.exceptions.InvalidEventConfiguration`

Bases: `foremast.exceptions.ForemastError`

Invalid AWS Lambda event configuration.

**exception** `foremast.exceptions.LambdaAliasDoesNotExist`

Bases: `foremast.exceptions.ForemastError`

Lambda function was not found.

**exception** `foremast.exceptions.LambdaFunctionDoesNotExist`

Bases: `foremast.exceptions.ForemastError`

Lambda function was not found.

**exception** `foremast.exceptions.PrimaryDNSRecordNotFound`

Bases: `foremast.exceptions.ForemastError`

Required Primary DNS record does not exist.

**exception** `foremast.exceptions.RequiredKeyNotFound`

Bases: `foremast.exceptions.ForemastError`

Required key in json config not found.

**exception** `foremast.exceptions.S3ArtifactNotFound`

Bases: `foremast.exceptions.ForemastError`

Could not find Artifact to upload to S3.

- exception** `foremast.exceptions.S3SharedBucketNotFound`  
Bases: `foremast.exceptions.ForemastError`  
Shared S3 Bucket does not exist.
- exception** `foremast.exceptions.SNSSubscriptionDoesNotExist`  
Bases: `foremast.exceptions.ForemastError`  
SNS Subscriptions does not exist.
- exception** `foremast.exceptions.SNSTopicNotFound`  
Bases: `foremast.exceptions.ForemastError`  
SNS Topic was not found.
- exception** `foremast.exceptions.SpinnakerAppNotFound`  
Bases: `foremast.exceptions.SpinnakerError`  
Spinnaker app not found error.
- exception** `foremast.exceptions.SpinnakerApplicationListError`  
Bases: `foremast.exceptions.SpinnakerError`  
Spinnaker application list error.
- exception** `foremast.exceptions.SpinnakerDnsCreationFailed`  
Bases: `foremast.exceptions.SpinnakerError`  
Spinnaker DNS creation error.
- exception** `foremast.exceptions.SpinnakerElbNotFound`  
Bases: `foremast.exceptions.SpinnakerError`  
Spinnaker Elb not found.
- exception** `foremast.exceptions.SpinnakerError`  
Bases: `foremast.exceptions.ForemastError`  
Spinnaker related error.
- exception** `foremast.exceptions.SpinnakerPipelineCreationFailed`  
Bases: `foremast.exceptions.SpinnakerError`  
Could not create Spinnaker Pipeline.
- exception** `foremast.exceptions.SpinnakerPipelineDeletionFailed`  
Bases: `foremast.exceptions.SpinnakerError`  
Could not delete Spinnaker Pipeline.
- exception** `foremast.exceptions.SpinnakerSecurityGroupCreationFailed`  
Bases: `foremast.exceptions.SpinnakerError`  
Could not create Security Group.
- exception** `foremast.exceptions.SpinnakerSecurityGroupError`  
Bases: `foremast.exceptions.SpinnakerError`  
Could not create Security Group.
- exception** `foremast.exceptions.SpinnakerSubnetError` (`env=''`, `region=''`)  
Bases: `foremast.exceptions.SpinnakerError`  
Unavailable environment or region.

**exception** `foremast.exceptions.SpinnakerTaskError` (*task\_state*)

Bases: `foremast.exceptions.SpinnakerError`

Spinnaker Task did not finish properly.

**exception** `foremast.exceptions.SpinnakerTaskInconclusiveError` (*message*)

Bases: `foremast.exceptions.SpinnakerTaskError`

Spinnaker Task state failed to reach terminal state in allowed time.

**exception** `foremast.exceptions.SpinnakerTimeout`

Bases: `foremast.exceptions.SpinnakerError`

Spinnaker Timeout error.

**exception** `foremast.exceptions.SpinnakerVPCIDNotFound`

Bases: `foremast.exceptions.SpinnakerError`

Spinnaker did not find the VPC ID.

**exception** `foremast.exceptions.SpinnakerVPCNotFound`

Bases: `foremast.exceptions.SpinnakerError`

Spinnaker did not find a VPC.

## foremast.runner module

A runner for all of the spinnaker pipe modules.

Read environment variables from Jenkins:

- EMAIL
- ENV
- GIT\_REPO
- PROJECT
- REGION

Then run specific prepare jobs.

**class** `foremast.runner.ForemastRunner`

Bases: `object`

Wrap each pipes module in a way that is easy to invoke.

**cleanup** ()

Clean up generated files.

**create\_app** ()

Create the spinnaker application.

**create\_archaius** ()

Create S3 bucket for Archaius.

**create\_autoscaling\_policy** ()

Create Scaling Policy for app in environment

**create\_awslambda** ()

Create security groups as defined in the configs.

**create\_datapipeline** ()

Creates data pipeline and adds definition

**create\_dns** ()  
Create DNS for the defined app and environment.

**create\_elb** ()  
Create the ELB for the defined environment.

**create\_iam** ()  
Create IAM resources.

**create\_pipeline** (*onetime=None*)  
Create the spinnaker pipeline(s).

**create\_s3app** ()  
Create S3 infra for s3 applications

**create\_secgroups** ()  
Create security groups as defined in the configs.

**deploy\_s3app** ()  
Deploys artifacts contents to S3 bucket

**promote\_s3app** ()  
promotes S3 deployment to LATEST

**slack\_notify** ()  
Send out a slack notification.

**write\_configs** ()  
Generate the configurations needed for pipes.

`foremast.runner.create_scaling_policy` ()  
Create Auto Scaling Policy for an Auto Scaling Group.

`foremast.runner.debug_flag` ()  
Set logging level for entry points.

`foremast.runner.deploy_s3app` ()  
Entry point for application setup and s3 deployments

`foremast.runner.prepare_app_pipeline` ()  
Entry point for application setup and initial pipeline in Spinnaker.

`foremast.runner.prepare_infrastructure` ()  
Entry point for preparing the infrastructure in a specific env.

`foremast.runner.prepare_onetime_pipeline` ()  
Entry point for single use pipeline setup in the defined app.

`foremast.runner.promote_s3app` ()  
Entry point for application setup and s3 promotions

`foremast.runner.rebuild_pipelines` (*\*args*)  
Entry point for rebuilding pipelines.

Use to rebuild all pipelines or a specific group.

## foremast.validate module

Spinnaker validate functions.

`foremast.validate.validate_all` (*args*)  
Run all validate steps.

`foremast.validate.validate_gate()`  
Check Gate connection.

### foremast.version module

Package version functions.

`foremast.version.get_version()`  
Retrieve package version.

`foremast.version.print_version()`  
Show package version.

### Module contents

Tools for creating infrastructure and Spinnaker Applications.

## Changelog

### 3.22.6.dev47

#### Fix

- Remove prod, prods, and prodp for public templates. [Varun Rao]
- Fix formatting in json. [Varun Rao]
- Include parameter name in function call. [Varun Rao]
- Remove prod, prods, and prodp for public templates. [Varun Rao]
- Add docstrings for pipeline\_configs. [Varun Rao]
- Remove unneeded parenthesis around conditional. [Sijis Aviles]
- Simplify conditional check. [Sijis Aviles]
- Remove unused variables. [Sijis Aviles]
- Remove unused import. [Sijis Aviles]
- Use better variable name. [Sijis Aviles]
- Better variable names. [Nate Tangsurat]
- Raise proper error. [Nate Tangsurat]
- Lazy logging. [Nate Tangsurat]
- Passed in arguments are for future use. [Nate Tangsurat]

#### Features

- Include chaos\_monkey configs. [Varun Rao]
- Include chaos\_monkey configs. [Varun Rao]
- Include chaos\_monkey configs. [Varun Rao]

- Change order of create\_app and write\_configs. [Varun Rao]
- Retrieve pipeline.json dict, pass pipeline.json dictionary to create\_app. [Varun Rao]

## Other

- Docs: Fix spelling in description of exceptions. [Varun Rao]
- Docs: Change min time to minimum\_time. [Varun Rao]
- Docs: Add units to mean and min time. [Varun Rao]
- Docs: Add explanation of Mean Time. [Varun Rao]
- Docs: Remove new line. [Varun Rao]
- Docs: Sphinx documentation for chaos monkey. [Varun Rao]
- Docs: Remove new line. [Varun Rao]
- Docs: Sphinx documentation for chaos monkey. [Varun Rao]
- Docs: Remove new line. [Varun Rao]
- Docs: Sphinx documentation for chaos monkey. [Varun Rao]
- Docs: Remove new line. [Varun Rao]
- Docs: Sphinx documentation for chaos monkey. [Varun Rao]
- Docs: Remove new line. [Varun Rao]
- Docs: Sphinx documentation for chaos monkey. [Varun Rao]
- Style: Fix formatting of json. [Varun Rao]
- Style: Properly give unused variables a more obvious name. [Sijis Aviles]
- Style: Fix variable names. [Sijis Aviles]
- Style: Fix variable names. [Sijis Aviles]
- Style: Fixup comments. [Sijis Aviles]
- Style: Use lazy logging. [Sijis Aviles]
- Style: Fixup comments. [Sijis Aviles]
- Style: Help with linting. [Sijis Aviles]
- Docs: Update docstrings. [Nate Tangsurat]
- Docs: Update S3 deployment docstrings. [Nate Tangsurat]
- Style: Pylint configuration. [Nate Tangsurat]
- Test: Ignore docs. [Nate Tangsurat]
- Style: First run through with isort. [Sijis Aviles]
- Chore: Add isort config. [Sijis Aviles]
- Style: First run through with yapf. [Sijis Aviles]
- Chore: Add yapf config. [Sijis Aviles]

### v3.22.5 (2017-08-07)

#### Fix

- Remove duplicate variable definition. [Sijis Aviles]
- Ensure we handle dynamic configs properly for default\_securitygroup\_rules. [Sijis Aviles]
- Move config entry to [base] [Steven Basgall]

#### Features

- Added example configs. [Steven Basgall]

#### Other

- Docs: Update key to match other examples. [Sijis Aviles]
- Docs: Add docstring. [Sijis Aviles]
- Tests: Fix missing mock and rename variable. [Sijis Aviles]
- Tests: Default security group tests. [Sijis Aviles]
- Docs: Fix example for default\_securitygroup\_rules. [Sijis Aviles]
- Test: added test and slight refactor for test. [Steven Basgall]
- Added const tests. [Steven Basgall]
- Doc: default security group examples. [Steven Basgall]
- Style: indent whitespace. [Steven Basgall]
- Added ability to have default application securitygroup rules. [Steven Basgall]

### v3.22.4 (2017-08-03)

- Add unit test and refactor. [Bekzot Azimov]
- Fix tests and refactor the code. [Bekzot Azimov]
- Add tagging to security groups. [Bekzot Azimov]

### v3.22.3 (2017-07-31)

#### Fix

- Should not assign from an append operation. [Nate Tangsurat]

#### Other

- Test: Split IAM template tests with paramtrize. [Nate Tangsurat]
- See also: #208

- Test: Use generator for IAM template names. [Nate Tangersurat]  
See also: #208
- Docs: Fix return description for Policy render. [Nate Tangersurat]
- Tests: IAM Policy templates should render. [Nate Tangersurat]
- Refactor: Extract local templates path. [Nate Tangersurat]
- Refactor: Extract IAM policy template rendering. [Nate Tangersurat]

### v3.22.2 (2017-07-31)

#### Fix

- Create S3 lambda trigger SID with hash of rules. [Will Kelleher]

### v3.22.1 (2017-07-28)

#### Fix

- Allow access to DynamoDB table/name/stream/ [Nate Tangersurat]

### v3.22.0 (2017-07-28)

- Changed to sorted. [Doug Campbell]
- Create new list to avoid mutation errors. [Doug Campbell]
- Added in pipeline passing. [Doug Campbell]
- Unit test. [Doug Campbell]
- Removed kwarg. [Doug Campbell]
- Removed pipeline\_type stuff from create\_pipeline. not needed. [Doug Campbell]
- Fixed some typos and restructured get\_template\_name. [Doug Campbell]
- Changed kwargs to named arguments for clarity. [Doug Campbell]
- Flattened template block and moved formatting to one call. [Doug Campbell]
- Ran yapf. [Doug Campbell]
- Refactored construct blocks and create pipeline to segregate ec2 specific logic. [Doug Campbell]
- Style: YAPF. [Nate Tangersurat]
- Style: YAPF. [Nate Tangersurat]

### v3.21.2 (2017-07-26)

#### Fix

- Invalid trailing comma. [Nate Tangersurat]



### v3.21.1 (2017-07-25)

- Pass all pipeline data to templates. [Doug Campbell]

### v3.21.0 (2017-07-24)

#### Fix

- Add check to existing conditional. [Sijis Aviles]
- Typos and docstring example. [Sijis Aviles]
- Remove correct item from list. [Sijis Aviles]
- Detect value as native python type. [Sijis Aviles]
- Remove empty items from security group list. [Sijis Aviles]

#### Features

- Make security groups for elb/ec2 environment specific. [Sijis Aviles]

#### Other

- Refactor: Use set() earlier in iteration. [Sijis Aviles]
- Style: Update docstring. [Sijis Aviles]
- Refactor: Use different way to strip out empty entries. [Sijis Aviles]
- Style: Word wrap to 80 chars. [Sijis Aviles]
- Docs: Add json example for security groups. [Sijis Aviles]
- Style: Quick lint fix. [Sijis Aviles]
- Tests: Validate passing dictionary from a dynamic config. [Sijis Aviles]
- Refactor: Populate security groups for each environment. [Sijis Aviles]
- Test: Fix elb test case to include an environment. [Sijis Aviles]  
Our default environment is just an empty string and this is a workaround that problem.
- Refactor: Use new security group format. [Sijis Aviles]
- Style: Linting fixes. [Sijis Aviles]
- Test: Add tests for security group changes. [Sijis Aviles]

### v3.20.5 (2017-07-20)

- Simplify the logic of updating tags and add tests. [Bekzot Azimov]
- Separate out get tags logic. [Bekzot Azimov]
- Keep old s3 tags when new tags added. [Bekzot Azimov]

### v3.20.4 (2017-07-11)

- Add limited cloudwatch iam access services option. [Bekzot Azimov]
- Add limited cloudwatch iam access services option. [Bekzot Azimov]

### v3.20.2 (2017-07-11)

#### Fix

- Include seconds for timeout failure. [Nate Tangersurat]
- Use custom exception for inconclusive Task. [Nate Tangersurat]
- Remove exception `pass` statements. [Nate Tangersurat]
- Fail when Project ID lookup fails. [Nate Tangersurat]
- Bucket name, logging, access group as property. [Steven Basgall]

#### Features

- New Check Task inconclusive exception. [Nate Tangersurat]
- Exception for GitLab API errors. [Nate Tangersurat]

#### Other

- Fixed bug with pipelineId in data pipeline. [Doug Campbell]
- Docs: Fix test docstring. [Nate Tangersurat]
- Tests: Refactor duplicate test. [Nate Tangersurat]
- Tests: Remove unused mock. [Nate Tangersurat]
- Tests: Asserts outside the exception context. [Nate Tangersurat]
- Tests: Don't wait so long to fail. [Nate Tangersurat]
- Tests: Move retry task to new module. [Nate Tangersurat]
- Tests: Update to new Task inconclusive exception. [Nate Tangersurat]
- Tests: Update to new inconclusive Task exception. [Nate Tangersurat]
- Tests: Faster Check Task with new keyword argument. [Nate Tangersurat]
- Refactor: Move Check Task wait to argument. [Nate Tangersurat]
- Tests: Inconclusive Check Task polling. [Nate Tangersurat]
- Tests: Check Task keep polling. [Nate Tangersurat]
- Tests: Check Task failure. [Nate Tangersurat]
- Tests: Check Task success functionality. [Nate Tangersurat]
- Docs: Add periods to docstrings. [Nate Tangersurat]
- Tests: Check for GitLab API error during lookup. [Nate Tangersurat]
- Read group a different way. [Steven Basgall]

- Initial commit of s3 tagging. [Steven Basgall]

### **v3.20.1 (2017-06-29)**

- Fixed variable name. [Doug Campbell]
- Added logic for handling pipeline ID of onetime pipelines. [Doug Campbell]
- Added runway\_dir to fix errors in onetime pipelines. [Doug Campbell]

### **v3.20.0 (2017-06-28)**

#### **Fix**

- Use dirty tag when developing. [Nate Tangsurat]
- Remove local scheme from version. [Nate Tangsurat]  
Required by PEP 440 when uploading to PyPI.
- Inconsistent quoting in PR. [Steven Basgall]
- Skip creation of resource id if resource id already exists. [Steven Basgall]
- Flip statement IDs to reflect http method permission. [Steven Basgall]
- Ensure no in SID. [Steven Basgall]
- Don't eMail on Travis success. [Nate Tangsurat]

#### **Features**

- On function update also update tags. [Steven Basgall]

#### **Other**

- Added canary deploy\_type to the docs. [Doug Campbell]
- Refactored path creation. [Doug Campbell]
- Removed canary specific deployment stage for base templates. [Doug Campbell]
- Better logging. [Doug Campbell]
- Updated templates for s3 deployments. [Doug Campbell]
- Ran yapf on s3deploy. [Doug Campbell]
- Added sync\_to\_canary functionality. [Doug Campbell]
- Remove spaces around non-assignment = [Steven Basgall]
- Refactor: removed redunant call to attach\_method. [Steven Basgall]
- Refactor: add more specific names to arn variables and remove duplicate variable declarations. [Steven Basgall]
- Added passing of source ARN to permissions in lambda function policy and add function polices to alias and unqualified functions. [Steven Basgall]
- Docs: ASG Health Check type override note. [Nate Tangsurat]

- Docs: Note on ASG Health Check in dev environment. [Nate Tangsurat]
- Style: Strip. [Nate Tangsurat]
- Docs: Fix typo. [Sijis Aviles]
- Docs: Fix extra character. [Nate Tangsurat]
- Docs: Fix Scaling Policy key name. [Nate Tangsurat]
- Docs: Fix wrong key in pipeline.json. [Sijis Aviles]

### **v3.19.3 (2017-06-09)**

- MR feedback, removed else. [Doug Campbell]
- Added paginating for finding lambda function arn. [Doug Campbell]
- Updated data pipeline docs. [Doug Campbell]
- Added ability to activate pipeline on deployment. [Doug Campbell]
- Test: Simplify travis config. [Sijis Aviles]

### **v3.19.2 (2017-06-02)**

- Move tagging to create lambda from update. [Bekzot Azimov]

### **v3.19.1 (2017-05-31)**

- Updated docs and renamed template for rds-db. [Joel Vasallo]
- Added docs for rds-db and updated refs to resource-id. [Joel Vasallo]
- Added support for rds-db iam policy. [Joel Vasallo]
- Fixed typo in elasticache iam policy. [Joel Vasallo]
- Update index.rst. [Joel Vasallo]
- Added data pipeline config docs. [Doug Campbell]

### **v3.19.0 (2017-05-31)**

- Fixed function doc return types. [Doug Campbell]
- Removed data pipeline main. We do not need two entry points. [Doug Campbell]
- Continued working on bad exceptions. [Doug Campbell]
- Added return true for easier unit testing. [Doug Campbell]
- Added better error handling around bad json. [Doug Campbell]
- Added exception for issues creating data pipeline. [Doug Campbell]
- Added assert to test case. [Doug Campbell]
- Fixed unittest with mocking paginate. [Doug Campbell]
- Feedback from #173. [Doug Campbell]

- Removed endif from jinja template. [Doug Campbell]
- Refactored unit tests. [Doug Campbell]
- Added ability to paginate through listing Data Pipelines to get all results. [Doug Campbell]
- Added unit tests. [Doug Campbell]
- Added datapipeline type and templates. [Doug Campbell]
- Added datapipeline functionality into runner. [Doug Campbell]
- Added tags to pipeline creation. [Doug Campbell]
- Added functionality to create pipeline and put definition. [Doug Campbell]
- Added datapipeline dir and defaults to config template. [Doug Campbell]

### v3.18.0 (2017-05-31)

#### Fix

- Travis lint with matrix exclusions. [Nate Tangersurat]  
Go back to four Build Jobs and run linting with Python 3.6.
- Run separate lint. [Nate Tangersurat]
- Run Travis without multiple environments. [Nate Tangersurat]

#### Features

- Show package version with `-version` [Nate Tangersurat]
- Generate changelog. [Nate Tangersurat]

#### Other

- Refactor: Unused import. [Nate Tangersurat]
- Refactor: Sphinx should also use `setuptools_scm` [Nate Tangersurat]
- Refactor: Use `setuptools_scm` for package version. [Nate Tangersurat]
- Docs: Forgot changelog. [Nate Tangersurat]
- Tests: Travis should use more Python versions. [Nate Tangersurat]
- Docs: Fix include path to configuration example. [Nate Tangersurat]
- Docs: Remove autogenerated docs. [Nate Tangersurat]

### v3.17.4 (2017-05-31)

- Tag option for lambda deployments. [Bekzot Azimov]
- Docs: Add reference for intersphinx. [Nate Tangersurat]
- Added global prefix and continue loop instead of return. [Doug Campbell]
- Moved prefix into creating permission logic. [Doug Campbell]

### v3.17.3 (2017-05-31)

#### Fix

- Indentation warnings. [Sijis Aviles]

#### Other

- Added support for alias policies. [Doug Campbell]
- Look for old Lambda policies too. [Doug Campbell]
- Added foremast-\* to all SIDs and added functionality for cleaning up foremast created Lambda policies. [Doug Campbell]
- Docs: Fix 'Title underline too short.' warning. [Sijis Aviles]
- Added conditional to autoscaling templates to fix issue with decrease policies. [Doug Campbell]

### v3.17.2 (2017-05-19)

#### Fix

- Make readthedocs work again. [Sijis Aviles]
- Add variable assignment to replace statement. [Steven Basgall]
- Change print to debug log. [Chris Kamradt]

#### Features

- Configurable task timeouts. [Chris Kamradt]  
Added support for configuring timeouts per task per environment.

#### Other

- Added floor for scaling policy math to keep it all integers. [Doug Campbell]
- Test: add timeout testing for tasks. [Chris Kamradt]
- Refactor: rename timeout vars and add docs. [Chris Kamradt]
- Test: Update tests with new task methods. [Chris Kamradt]
- Refactor: enable task timeout config. [Chris Kamradt]

### v3.17.1 (2017-05-11)

#### Fix

- Re-enable linting. [Sijis Aviles]

## Other

- Fixed tests base on correct structure. [Doug Campbell]
- Docs: Add test docstring information. [Nate Tansurat]
- Tests: Renumerate properly. [Nate Tansurat]
- Fixed bug where multiple branch stages did not renumerate properly. [Doug Campbell]
- Added default for canary. [Doug Campbell]

## v3.17.0 (2017-05-10)

- Refactor: consolidate canary conditionals. [Steven Basgall]
- Initial concept for canary userdata in foremast. [Steven Basgall]

## v3.16.1 (2017-05-04)

- Print out AWS exception so we can debug why this happens. [Doug Campbell]
- Place log statements variable references after variables. [Bekzot Azimov]

## v3.16 (2017-05-02)

### Fix

- Handle missing dynamic config file. [Sijis Aviles]
- Version number parser broke docs compilation. [Nate Tansurat]  
Version number uses *setuptools* which moved the *packaging* module up a level.

### Features

- Add ability to use a dynamic config. [Sijis Aviles]  
We are now able to load a python file 'config.py' as a source of configuration details.

### Other

- Added config.py to gitignore. [Doug Campbell]
- Docs: Add details regarding config.py. [Sijis Aviles]
- Refactor: Loading static or dynamic configurations. [Sijis Aviles]  
This ensures that a static config is preferred over a dynamic one. When a dynamic or static config is not found, use the default and show where we are searching for configs.
- Updated docs to have example of Security Group usage. [Joel Vasallo]

### v3.15.1 (2017-04-21)

- Fixed invalid app cookie stickiness policy names. [Joel Vasallo]
  - Some JS libraries ship with dots by default in their cookie name, this at least strips it out.

### v3.15.0 (2017-04-20)

- Fixed remaining bugs, working version with s3 creation and deployment. [Doug Campbell]
- Fixed issues with shared bucket naming, works with updated gogo-utils. [Doug Campbell]
- Fixed typos. [Doug Campbell]
- Added logic for making sure shared bucket exists. [Doug Campbell]
- Added logic for getting shared bucket name. [Doug Campbell]

### v3.14.1 (2017-04-19)

- Fixed missing test case for create\_elb. [Joel Vasallo]

### v3.14.0 (2017-04-19)

- Added proper tag structure to RELEASING docs. [Joel Vasallo]
- Cleaned up logging statements and if conditional on modify-lb- attributes. [Joel Vasallo]
- Added docs for enabling access\_log, connection\_draining\_timeout, and idle\_timeout. [Joel Vasallo]
  - Also fixed logic to provide defaults in case of enabling or disabling of features
- Added support for ELB Access Logs. [Joel Vasallo]
- WIP: Enable modification of ELB attributes such as draining and timeouts. [Joel Vasallo]
- Adding recursive cp before s3 sync. [Bekzot Azimov]
- Added TODO to migrate ssh keyname generation out. [Joel Vasallo]
- Added docs to show migration of app\_ssh\_key to ssh\_keypair. [Joel Vasallo]
- Added support to specify ssh\_keypair to use. [Joel Vasallo]
- Removed linting from travis too. [Doug Campbell]
- Commented out linting to fix CI jobs until the PR in prospector is accepted. [Doug Campbell]
- Docs:Add python3.6 runtime option to lambda documentation. [Steven Basgall]

### v3.12.2 (2017-04-14)

#### Fix

- Remove extra whitespace around config locations. [Sijis Aviles]
- Set section warning to info level. [Sijis Aviles]
- Ensure proper logging format when validating config. [Sijis Aviles]



- Remove duplicate key. [Sijis Aviles]

## Features

- Add SimpleDB IAM template. [Will Kelleher]
- Add multipart upload permissions to s3 template. [Will Kelleher]

## Other

- Fix 120 line character limit. [Doug Campbell]
- Added ‘–exact-timestamps’ to s3 sync. [Doug Campbell]
- Increased visibility how grace\_period is calculated. [Joel Vasallo]
- Added support for app\_grace\_period to extend grace\_period. [Joel]
- Added support for modifying ASG grace period from json files. [Joel]
- Updated docs to reflect new services added to foremast. [Joel]
- Added support for kinesis in json. [Joel]
- Ensure threshold and period\_minutes are integers. [Sijis Aviles]  
This handles cases where those keys are set as strings even though we expect integers.  
Fixes #100
- Chore: FIXME to handle pyapi-gitlab return False. [Nate Tangsurat]

## v3.12.1 (2017-03-13)

- Fixed formatting. [Doug Campbell]
- Catches problems with empty or missing artifact path. [Doug Campbell]

## v3.11.0 (2017-03-10)

### Fix

- Removed unneeded subnet config. [Steven Basgall]
- Missing close paren. [Steven Basgall]

### Features

- Template additions for judgement promote. [Steven Basgall]
- New pipeline stage ordering. [Steven Basgall]
- Added artifact version to deploy-s3 stage template. [Steven Basgall]
- Changed default jenkins job name for s3 deploy stage. [Steven Basgall]
- Code changes to utilize new pipeline templates. [Steven Basgall]
- Added s3 spinnaker templates. [Steven Basgall]

## Other

- Changed if to elif in jinja2 template. [Doug Campbell]
- Removed unneeded import. [Steven Basgall]
- Correct missing S3 strings. [Steven Basgall]
- Added type for s3 in consts.py. [Steven Basgall]
- Added s3 pipeline block - repeatable stage for s3. [Steven Basgall]
- Added s3 conditional to pipeline wrapper. [Steven Basgall]
- Added configs to runner s3 jobs. [Doug Campbell]
- Added bucket DNS. [Doug Campbell]
- Changed bucket policy to empty dict. [Doug Campbell]
- Added S3 website settings for meeting a bucket serve static content. [Doug Campbell]
- Removed lingering print statement. [Doug Campbell]
- Implemented feedback from #136. [Doug Campbell]
- Renabled create\_bucket. [Doug Campbell]
- Added s3 deployments to runner. [Doug Campbell]
- Switched for SH to subprocess to removed a dependency. [Doug Campbell]
- Changed s3 deployments to us SH and aws cli. [Doug Campbell]
- Added function to copy deployed version to LATEST. [Doug Campbell]
- Added function to upload all files and directories of artifact path. [Doug Campbell]
- Setup skeleton code for s3 deployments. [Doug Campbell]
- Fixed doc strings to better reflect what the class does” [Doug Campbell]
- Fixed formatting. [Doug Campbell]
- Added to runner, reorganized under s3 dir with archaius. [Doug Campbell]
- Added policy attachment and updated default configs to include S3. [Doug Campbell]
- Started skeleton for s3deployment infrastructure. [Doug Campbell]
- Updated policies block in elb templates. [Joel Vasallo]
- Cleaned up references to backendPolicies and fixed hardcoded test values. [Joel Vasallo]
- Updated docs, tests, and cleaned up if logic. [Joel Vasallo]
- Fixed test cases for missing mocks and added default response if dict key missing for backend policies. [Joel Vasallo]
- Defaulting to empty lists instead of NoneType elb\_settings for policies. [Joel Vasallo]
- Added new elb\_json structure for backendPolicies to test cases. [Joel Vasallo]
- Added test for testing backend policy addition. [Joel Vasallo]
- Updated log statements and docs. [Joel Vasallo]
- Updated references to null from empty list and updated base reference template. [Joel Vasallo]
- Formatted variable naming to be easier to read and cleaner. Added docs like a good developer. [Joel Vasallo]

- Added support for backend server policies in foremast config. [Joel Vasallo]
  - Needed for legacy support for WebSockets where they need to pass to backend systems through ProxyProtocol
  - Cleaned up naming of ‘policies’; to be specific to ‘listenerpolicies’ in the foremast config, but in order to not break existing functionality, merged policies + listenerpolicies
- Switch static names to args. [Bekzot Azimov]
- Username and emoji as an argument. [Bekzot Azimov]
- Give a name and icon for slackbot. [Bekzot Azimov]

### v3.10.3 (2017-02-22)

#### Features

- Added null default value for app:lambda\_environment. [Steven Basgall]

#### Other

- Added missing client for route53 delete func. [Bekzot Azimov]
- Style: Extended title underlines. [Steven Basgall]
- Docs: Added lambda\_environment documentation and example. [Steven Basgall]
- Style: removed parens from import. [Steven Basgall]
- Style: use project column width. [Steven Basgall]
- Added test. [Steven Basgall]
- Renamed clobbering key name - deviating from API naming. [Steven Basgall]
- Added environment dict. [Steven Basgall]

### v3.10.2 (2017-02-21)

- Fixed issue with cookie expiration period default. [Doug Campbell]

### v3.10.1 (2017-02-17)

- Moved string format outside conditionals. [Doug Campbell]
- Added cookie\_ttl support and fixed bug with duplicate stickiness policies. [Doug Campbell]

### v3.10.0 (2017-02-16)

- Added back in code formatting to docs for stickiness. [Doug Campbell]
- Updated docs to include elb cookie stickiness. [Doug Campbell]
- Added loadbalancer cookie stickiness support. [Doug Campbell]
- Added setup.cfg for bdist universal. [Bekzot Azimov]

### v3.9.3 (2017-02-09)

- Fixed issue with poorly named keywords. [Doug Campbell]

### v3.9.2 (2017-02-06)

- Adding asg\_whitelist data. [Bekzot Azimov]
- Removing hard coded asg instance defaults. [Bekzot Azimov]

### v3.9.1 (2017-01-30)

- Moved test until utils with other dns tests, split tuple into two values. [Doug Campbell]
- Made the dns test more explicit. [Doug Campbell]
- Removed duplicate test. [Doug Campbell]
- Added unit test for getting zone\_ids. [Doug Campbell]
- Added test case for finding existing record. [Doug Campbell]
- Refactored into a generic find\_existing\_record function. [Doug Campbell]
- Fixed item variable name to be more consistent, changed to record. [Doug Campbell]
- Added a lookup to make sure that the primary record exists before creating the secondary failover record. I also updated the CNAME lookup code to use paginators to solve a future issue. [Doug Campbell]
- Removed comments and fixed templates mocking. [Doug Campbell]
- Mocked config values so that it works with local foremast configs. [Doug Campbell]

### v3.9.0 (2017-01-17)

- Removed lingering line that I forgot about. [Doug Campbell]
- Updated docs and ran yapf on elb code. [Doug Campbell]
- Added cookie stickiness logic. [Doug Campbell]

### v3.8.1 (2017-01-16)

- Added rstring and fixed bad variable name. [Doug Campbell]
- Added feedback from #114. [Doug Campbell]
- Added logic for finding and deleting old CNAME records when updating to multiregion. [Doug Campbell]

### v3.8.0 (2017-01-06)

#### Fix

- Add rule name to INFO. [Nate Tansurat]

## Other

- Added emr policy. [Doug Campbell]
- Docs: Fix argument type hint. [Nate Tangersurat]
- Style: YAPF. [Nate Tangersurat]

## v3.7.2 (2017-01-04)

### Fix

- Fatal message text. [Sijis Aviles]

### Other

- Add description to debug output. [Sijis Aviles]
- Add additional debug logging. [Sijis Aviles]
- Use non-alias arn for adding permissions. [Sijis Aviles]
- Docs: Fix docstring. [Nate Tangersurat]

See also: PSOBAT-2925

## v3.7.1 (2017-01-03)

- Chore: Debug Role name message. [Nate Tangersurat]

## v3.7.0 (2017-01-03)

### Fix

- Provide default Lambda Role configuration. [Nate Tangersurat]

### Features

- New Lambda IAM Role name generator. [Nate Tangersurat]  
gogo-utils 1.5 provides a new IAM Role name generator for Lambda Functions.  
See also: gogoair/gogo-utils#4
- Support custom Lambda Role. [Nate Tangersurat]

### Other

- Test: Use custom Lambda Role when provided. [Nate Tangersurat]
- Docs: Note on custom Lambda Role. [Nate Tangersurat]

## v3.6.1 (2016-12-29)

### Fix

- Remove hardcoded IAM name fields. [Nate Tangersurat]  
See also: gogoair/gogo-utils#4
- Requirements for docs. [Nate Tangersurat]
- Update log messages for Lambda configuration. [Nate Tangersurat]
- Better Pipeline deletion. [Nate Tangersurat]  
Handle bad names from manual Pipelines and exit when Pipeline name is most likely bad.

### Features

- New Pipeline delete exception. [Nate Tangersurat]

### Other

- Docs: Fix errant character. [Nate Tangersurat]
- Docs: Fix underline lengths. [Nate Tangersurat]
- Docs: Populate release and version fields. [Nate Tangersurat]
- Add application name in successful pipeline message. [Sijis Aviles]

## v3.6.0 (2016-12-19)

### Fix

- Remove need to delete Pipeline when updating. [Nate Tangersurat]  
When “id” is *null*, a new Pipeline is automatically created. When “id” is an actual ID, the Pipeline is updated with the new configuration.
- Delete Pipeline using new Pipeline values. [Nate Tangersurat]
- Allow Manual Pipeline application and name. [Nate Tangersurat]  
Only use default generated Spinnaker application and Pipeline name when not defined in JSON.
- Use safe name for manual Pipeline. [Nate Tangersurat]

### Features

- Normalize Pipeline name function. [Nate Tangersurat]  
Spinnaker does not allow special characters in the Pipeline name.

## Other

- Test: Look for Pipeline in an Application. [Nate Tangsurat]
- Test: Check Pipeline name normalizer. [Nate Tangsurat]

## v3.5.1 (2016-12-13)

- Made it so that when DNS is created the global record and region specific is created. This is configurable but true by default. [Doug Campbell]

## v3.5.0 (2016-12-12)

### Fix

- Change subcommand from tester -> validator. [Sijis Aviles]
- Testers take in arguments for later use. [Nate Tangsurat]
- Rename to use “testers” [Nate Tangsurat]
- Move all tester runner to subcommand. [Nate Tangsurat]

### Features

- Add Gate tester subcommand. [Nate Tangsurat]
  - Test Gate connection. [Nate Tangsurat]
  - Stub out tester command. [Nate Tangsurat]
- Provide some manner of testing Spinnaker setup.

### Other

- Keep names consistent using validate. [Sijis Aviles]
- Style: YAPF. [Nate Tangsurat]

## v3.4.0 (2016-12-07)

- Split off into separate functions in the dns utils. This cleans up the code. [Doug Campbell]
- Removing loops for regions. [Doug Campbell]
- Fixed issue with selecting failover status in DNS. [Doug Campbell]
- Added the ability to configure default primary region and if to create failover DNS. [Doug Campbell]
- Updated runner to run multiregion setup if two are specified. [Doug Campbell]
- Ran yapf and isort. [Doug Campbell]
- Added elb\_zone\_id getting, template works. Working commit just needs cleanup. [Doug Campbell]
- Added region specific DNS and failover creation and template. Still WIP. [Doug Campbell]
- Added start for failover record creation. Needs fleshed out. [Doug Campbell]

- Added regions to gogoutils generator. [Doug Campbell]

### v3.3.1 (2016-12-05)

#### Fix

- Include api details in docs. [Sijis Aviles]

#### Other

- Added purpose to get\_subnet for elbs. [Doug Campbell]

### v3.3 (2016-11-30)

#### Fix

- Update to use CliArgs namedtuple. [Nate Tangersurat]
- Use namedtuple for passing parsed args. [Nate Tangersurat]
- Use better name for unknown arguments. [Nate Tangersurat]
- Allow unknown arguments to pass through. [Nate Tangersurat]
- Support rebuild subcommand arguments. [Nate Tangersurat]
- Rebuild should fail before getting all apps. [Nate Tangersurat]
- Rebuild docstring formatting. [Nate Tangersurat]
- Onetime subcommand -all should be flag. [Nate Tangersurat]
- Point autoscaling to entry point. [Nate Tangersurat]
- Point rebuild to entry point. [Nate Tangersurat]
- Point Pipeline onetime to entry point. [Nate Tangersurat]
- Point pipeline app subcommand to entry point. [Nate Tangersurat]
- Pipeline subcommand title. [Nate Tangersurat]
- Allow no argument passing fallback. [Nate Tangersurat]
- Point infra subcommand to function. [Nate Tangersurat]
- Environment argument overrides \$ENV. [Nate Tangersurat]
- Show argument defaults. [Nate Tangersurat]
- Support ENV environment variable. [Nate Tangersurat]

#### Features

- Short logging format. [Nate Tangersurat]
- Project argument for rebuild subcommand. [Nate Tangersurat]
- Add autoscaling subcommand. [Nate Tangersurat]



- Add rebuild subcommand. [Nate Tangsurat]
- Add pipeline subcommand. [Nate Tangsurat]
- Add infra subcommand. [Nate Tangsurat]
- Start unified 'foremast' CLI. [Nate Tangsurat]

## Other

- Merge pull request #86 from gogoair/feat/commands. [Sijis Aviles]  
feat: Unified CLI commands
- Refactor: Move rebuild ALL check. [Nate Tangsurat]

## v3.2.0 (2016-11-15)

- Merge pull request #102 from gogoair/r53-multiplezonehandler. [fadi- almasri]  
Route53 DNS Enhancements
- R53 DNS Fixes. [Joel Vasallo]
  - Enabled support for multiple Hosted Zones (skipping over invalid private DNS zones)
  - Added try/except to potential boto3 call for creating R53 records
  - Enhanced logging around creating R53 records
- WIP: Attempting to fix multiple DNS zones error. [Joel Vasallo]
- Added docs to highlight firehose support. [Joel Vasallo]

## v3.1.7 (2016-11-07)

- Fixed typo in firehose policy template. [Joel Vasallo]
- Updated tests to use the tests/ directory specifically. [Joel Vasallo]

## v3.1.6 (2016-11-01)

### Fix

- Missing square bracket. [Nate Tangsurat]

## v3.1.5 (2016-11-01)

### Fix

- New exception, ForemastConfigurationFileError. [Nate Tangsurat]  
See also: #96
- Handle missing environment configuration. [Nate Tangsurat]

## Other

- Updated docs to show ElasticSearch support. [Joel Vasallo]
- Updated ElasticSearch permissions. [Joel Vasallo]
  - Now supports multiple domains (list names)
  - Fixed issue for hidden undocumented IAM Permissions (such as es:ESHttpGet)
- Test: Raise missing SG environment configuration. [Nate Tangersurat]

## v3.1.4 (2016-10-24)

- Updated tests to expect Discovery. [Doug Campbell]
- Changed default provider to discovery. [Doug Campbell]

## v3.1.3 (2016-10-24)

### Fix

- Delete manual Pipeline before creating. [Nate Tangersurat]  
See also: #72
- Use filename for Pipeline name. [Nate Tangersurat]  
See also: #72
- Use new class name FileLookup. [Nate Tangersurat]  
See also: #72
- Path expansions need empty string default. [Nate Tangersurat]  
See also: #72
- Pass runway directory to Pipeline. [Nate Tangersurat]  
See also: #72
- Pass runway directory to lookup. [Nate Tangersurat]  
See also: #72
- Add manual Spinnaker Pipeline Class to init. [Nate Tangersurat]  
See also: #72

### Features

- Save runway directory for Pipeline usage. [Nate Tangersurat]  
See also: #72
- Add manual Spinnaker Pipeline type. [Nate Tangersurat]  
See also: #72
- New manual Pipeline class. [Nate Tangersurat]  
See also: #72

- Default Pipeline file list. [Nate Tansurat]

See also: #72

## Other

- Refactor: Extract Pipeline deletion. [Nate Tansurat]

See also: #72

- Style: isort, YAPF. [Nate Tansurat]

See also: #72

- Docs: Add manual Pipeline settings. [Nate Tansurat]

See also: #72

- Changed pipeline\_id to be None if no existing pipeline exists. The empty string causes problems in S3. [Doug Campbell]
- Changed to pypi references. [Doug Campbell]

## v3.1.2 (2016-10-20)

- Added logic to make sure the policies actually exist in ASG before trying to delete. Also fixed formatting. [Doug Campbell]

## v3.1.1 (2016-10-20)

- Updated lambda policy after AWS addressed a bug in their documentation: <http://docs.aws.amazon.com/lambda/latest/dg/policy-templates.html#LambdaVPCAccessExecutionRole>. [Joel Vasallo]
- Fixed line lengths to be 120 chars for import statements using isort. [Joel Vasallo]

## v3.1.0 (2016-10-12)

### Fix

- No longer need to split the logging string. [Nate Tansurat]

### Other

- Fixed logging and docstrings to match convention. [Joel Vasallo]
- Added log messages and fixed default tls\_naming.json.j2 path. [Joel Vasallo]
- Fixed import sorts and standardized log formatting. [Joel Vasallo]
- Created ForemastTemplateNotFound exception and updated references to use this. [Joel Vasallo]
- Added custom tls cert naming generation. [Joel Vasallo]
  - This will help out rotating IAM TLS/SSL certs without impact and forcing developers to update the name in their repo files
- Raising exception if template file can't be found. [Joel Vasallo]

## v3.0.2 (2016-10-10)

### Fix

- Update to new name FileLookup. [Nate Tangersurat]  
See also: #72
- Missing character. [Nate Tangersurat]  
See also: #72
- CRITICAL when missing app.json files. [Nate Tangersurat]  
See also: #72
- Add runway directory path to INFO. [Nate Tangersurat]  
See also: #72

### Other

- Refactor: Squash assignments. [Nate Tangersurat]  
See also: #72
- Refactor: Remove extra INFO. [Nate Tangersurat]  
See also: #72
- Refactor: Remove unused globals and imports. [Nate Tangersurat]  
See also: #72
- Refactor: process\_runway\_configs() use GitLookup. [Nate Tangersurat]  
See also: #72
- Refactor: process\_git\_configs() use GitLookup. [Nate Tangersurat]  
See also: #72
- Style: isort, YAPF. [Nate Tangersurat]  
See also: #72

## v3.0.1 (2016-10-10)

### Features

- Elasticache IAM Template. [Aaron Rea]

## v3.0 (2016-10-10)

### Fix

- Command typo. [Nate Tangersurat]

## Other

- Added runway dir path to README to avoid future confusion. [Doug Campbell]
- Changed continue to pass. [Doug Campbell]
- Updated docstrings as per #81 review. [Doug Campbell]
- Updated wording to user master, branch, merge instead of a and b. [Doug Campbell]
- Updated templates to use a/b renumerate logic. [Doug Campbell]
- Updated renumerate function to remove hardcoded stage names. [Doug Campbell]

## v2.20.1 (2016-10-05)

### Features

- Kinesis Firehose IAM template. [Nate Tangersurat]  
See also: #70

## v2.20 (2016-10-04)

### Fix

- Rename GitLookup to FileLookup. [Nate Tangersurat]  
See also: #72
- Support Python 3.4 JSON decoding for now. [Nate Tangersurat]  
See also: #72
- Raise for missing remote file. [Nate Tangersurat]  
See also: #72
- WARNING when local file missing. [Nate Tangersurat]  
See also: #72
- No Git initialization when using local runway. [Nate Tangersurat]  
See also: #72
- Use Git short name in INFO. [Nate Tangersurat]  
See also: #72
- Move bytes decode to get() [Nate Tangersurat]  
See also: #72

### Features

- Support runway directory override. [Nate Tangersurat]  
See also: #74

- Centralized Git file retrieval. [Nate Tangsurat]  
See also: #72

## Other

- Merge pull request #74 from gogoair/feat/central\_git\_lookup. [Sijis Aviles]  
feat: Provide centralized Git file retrieval
- Refactor: Move log statements to methods. [Nate Tangsurat]  
See also: #72
- Tests: Local file lookup should not access Git. [Nate Tangsurat]  
See also: #72
- Tests: Ensure FileNotFoundError raises. [Nate Tangsurat]  
See also: #72
- Refactor: Extra remote Git file lookup. [Nate Tangsurat]  
See also: #72
- Refactor: Move safe assignment outside of try. [Nate Tangsurat]  
See also: #72
- Refactor: Extract local file lookup. [Nate Tangsurat]  
See also: #72
- Docs: Update GitLookup docstring. [Nate Tangsurat]  
See also: #72
- Docs: Add exception raise note. [Nate Tangsurat]  
See also: #72
- Tests: Runway directory support. [Nate Tangsurat]  
See also: #72
- Tests: Assert return types to match docstrings. [Nate Tangsurat]  
See also: #72
- Tests: Separate variables for bytes and string. [Nate Tangsurat]  
See also: #72
- Tests: Check invalid JSON from Git. [Nate Tangsurat]  
See also: #72
- Tests: Check GitLookup methods. [Nate Tangsurat]  
See also: #72
- Tests: GitLookup basic case. [Nate Tangsurat]  
See also: #72
- Fixed a typo in s3 docs. [Joel Vasallo]
- Updated documentation around s3 buckets. [Joel Vasallo]

- Mentioned you can also provide a list of bucket names

## v2.19.4 (2016-10-04)

### Fix

- Certs need default of empty string. [Nate Tangersurat]
- Expand certificate paths. [Nate Tangersurat]
- Forgot to add lint check to Travis. [Nate Tangersurat]

### Features

- ElasticSearch IAM template. [Aaron Rea]

### Other

- Merge pull request #79 from gogoair/fix/expand\_cert\_paths. [Joel Vasallo]  
fix: Expand certificate paths
- Style: isort, YAPF. [Nate Tangersurat]  
See also: #72
- Split tox into code / lint checks. [Sijis Aviles]

## v2.19.3 (2016-09-30)

### Features

- Define Pipeline types allowed. [Nate Tangersurat]  
See also: #72

### Other

- Tests: Check default Pipeline types. [Nate Tangersurat]  
See also: #73
- Docs: Pipeline types in foremast.cfg. [Nate Tangersurat]  
See also: #72
- Refactor: Save Pipeline type. [Nate Tangersurat]  
See also: #72

## v2.19.2 (2016-09-30)

### Fix

- Default max ASGs for redblack deployments. [Nate Tansurat]  
See also: #65

### Other

- Set rebuild\_pipelines failure as warnings. [Sijis Aviles]
- Fixed app typo in rebuilding all. [Doug Campbell]
- Merge pull request #69 from gogoair/feature/lambda-logging-template. [Sibin Arsenijevic]  
Added lambda IAM permission to log by default
- Added lambda IAM permission to log by default. [Sibin Arsenijevic]
- Newlogo with correct text. [Doug Campbell]
- Changed to logo without text until Typo is fixed. [Doug Campbell]
- Added Logo to README. [Doug Campbell]

## v2.19.1 (2016-09-26)

- Merge pull request #64 from gogoair/fix/lambda-trigger-permissions. [Sibin Arsenijevic]
- Removed unused imports. [Sibin Arsenijevic]
- FIX: lambda trigger permissions now targeting function alias instead of app\_name. [Sibin Arsenijevic]
- Updated docs for enable\_public\_ips. [Joel Vasallo]
- Added support for modifying associatePublicIpAddress. [Joel Vasallo]

## v2.19 (2016-09-23)

- Removed backslash, reformated. [Sibin Arsenijevic]
- Fixed styling on docstrings, added License to lambda files that were missing it. Other minor cleanup of unused variables. [Sibin Arsenijevic]
- Styling, logic and error handling fixes as per requests in PR#60. [Sibin Arsenijevic]
- Get\_lambda\_alias tests added. [Sibin Arsenijevic]
- Redefined event triggers to use lambda alias as base for triggering. [Sibin Arsenijevic]
- New lambda alias arn getter get\_lambda\_alias\_arn() and exception to follow. [Sibin Arsenijevic]
- Created support for lambda alias-ing. Code updates lambda pointer even if the alias exists to enforce \$LATEST. [Sibin Arsenijevic]
- Merge pull request #61 from gogoair/enhancement/blog-readme. [Joel Vasallo]  
added blog post to read me. Will update with future posts
- Added blog post to read me. Will update with future posts. [Doug Campbell]



- Merge pull request #57 from gogoair/bug/empty\_lambda\_triggers. [Sijis Aviles]  
added lambda\_triggers as an empty list
- Added lambda\_triggers as an empty list. [Doug Campbell]

## v2.18.1 (2016-09-15)

### Fix

- Handle template defined Provider Health Check. [Nate Tangersurat]  
Forgot to force enable the default Provider Health Check when the templates have this value defined.  
See also: PSOBAT-2365
- Add retry to Lambda creation. [Nate Tangersurat]  
Need to compensate for lag in IAM Role Policy changes.  
See also: #50
- Add Sid to all service templates. [Nate Tangersurat]  
See also: #51
- Add lambda to services for lambda types. [Nate Tangersurat]  
When `{“type”: “lambda”}` is defined, the service should automatically be added to enabled services. This will add the correct IAM Policy.  
See also: #51
- Whoops, unbreak Sphinx. [Nate Tangersurat]
- PyPI doesn't like :caption: [Nate Tangersurat]

### Other

- Merge pull request #56 from gogoair/fix/provider\_health\_checks. [Joel Vasallo]  
fix: Handle template defined Provider Health Check
- Merge pull request #53 from gogoair/fix/retry\_lambda\_create. [Sijis Aviles]  
fix: Add retry to Lambda creation
- Merge pull request #54 from gogoair/fix/lambda\_type\_plus\_service. [Sijis Aviles]  
Fix/lambda type plus service
- Test: IAM tests should use template as base. [Nate Tangersurat]  
See also: #51
- Docs: Reflow text. [Nate Tangersurat]
- Docs: Use backticks around links. [Nate Tangersurat]

## v2.18 (2016-09-13)

### Fix

- Tests need to use deepcopy. [Nate Tangersurat]  
See also: PSOBAT-2465
- Rename test. [Nate Tangersurat]  
See also: PSOBAT-2465
- Can't set namedtuple attributes, immutable. [Nate Tangersurat]  
See also: PSOBAT-2465
- Use returned namedtuple attributes. [Nate Tangersurat]  
See also: PSOBAT-2465
- Use namedtuple for returning provider HCs. [Nate Tangersurat]  
See also: PSOBAT-2465
- Use provider HC when Eureka enabled. [Nate Tangersurat]  
Resolves a FIXME that has needed to be done for now. Now that scaffolding is in place, use that to set the option.  
See also: PSOBAT-2465
- Fallback *git describe* string for tox. [Nate Tangersurat]  
When *tox* runs, *git describe* fails to generate the version number. This provides a safe default in the case when the command fails to generate a version number.
- DEBUG message wording. [Nate Tangersurat]
- Remove no Accounts check. [Nate Tangersurat]
- Wrong string format. [Nate Tangersurat]
- Raise error when no Accounts match. [Nate Tangersurat]
- DEBUG Accounts configured in Spinnaker. [Nate Tangersurat]
- Handle Spinnaker missing Accounts. [Nate Tangersurat]  
Error out early when no Accounts found in Spinnaker.

### Features

- Use Provider HC for Eureka enabled apps. [Nate Tangersurat]  
Set the Health Check to true for the default Provider when Eureka is enabled.  
See also: PSOBAT-2465
- Default to alpha releases. [Nate Tangersurat]

## Other

- Merge pull request #47 from gogoair/fix/asg\_healthcheck. [Sijis Aviles]  
fix: Use provider HC when Eureka enabled
- Test: One provider defined for HC. [Nate Tangsurat]  
See also: PSOBAT-2465
- Docs: Eureka enabled uses default HC provider. [Nate Tangsurat]  
See also: PSOBAT-2465
- Test: Provider and Eureka enabled. [Nate Tangsurat]  
See also: PSOBAT-2465
- Test: Eureka enabled sets Amazon HC. [Nate Tangsurat]  
See also: PSOBAT-2465
- Test: Update Provider Health Check sanity. [Nate Tangsurat]  
See also: PSOBAT-2465
- Test: Provider Health Check sanity. [Nate Tangsurat]  
See also: PSOBAT-2465
- Refactor: Reference variable for providers. [Nate Tangsurat]  
See also: PSOBAT-2465
- Refactor: Move return variables to top. [Nate Tangsurat]  
See also: PSOBAT-2465
- Refactor: Extract provider health check section. [Nate Tangsurat]  
See also: PSOBAT-2465
- Add travis -> gitter integration. [Sijis Aviles]
- Fix test cases as default path of api gateway resource changed. [Sijis Aviles]
- Added travis badge. [Doug Campbell]
- Merge pull request #48 from gogoair/fix/tox\_setup. [Sijis Aviles]  
fix: Fallback *git describe* string for tox
- Add travis-ci integration. [Sijis Aviles]
- Style: isort, YAPF. [Nate Tangsurat]  
See also: PSOBAT-2465
- Merge pull request #46 from gitter-badger/gitter-badge. [Doug Campbell]  
Add a Gitter chat badge to README.rst
- Add Gitter badge. [The Gitter Badger]
- Updated URLs in the readme with correct readthedocs stuff. [Doug Campbell]
- Removed sphinx.ext.githubpages as it was unnecessary and breaking readthedocs. [Doug Campbell]
- Added info around x509 certs and CA Bundle. [Joel Vasallo]
  - made a mention that only PEM is supported with both key and cert

- cleaned up wording around custom CA to make it clear for when it can be used
  - added recommendation on how to use ca\_bundle leveraging an existing ca bundle.
- Added x509 docs - fixes #40. [Doug Campbell]
- Docs: Use caption option for code block. [Nate Tangsurat]
- Style: Strip. [Nate Tangsurat]
- Added feedback from #44, moved testing to contributing. [Doug Campbell]
- Moved links around in Readme, added placeholder links. [Doug Campbell]
- Updated readme - new header structure. [Doug Campbell]
- Updated README by adding a list of features. [Doug Campbell]
- Updated readme, still may need some work. [Doug Campbell]
- Give the module page a better title. [Sijis Aviles]
- Reorganize sidebar for better content flow. [Sijis Aviles]
- Split Getting Started into multiple parts. [Sijis Aviles]
  - We need to have a quick start guide and an advance usage guide. Having them both on the same page was confusing and there was also some content overlap.
- Give releasing page better title. [Sijis Aviles]
- Add missing step when using git. [Sijis Aviles]
- Reformat code blocks. [Sijis Aviles]
- Fix spelling mistakes. [Sijis Aviles]
- Add a quick start section. [Sijis Aviles]
- Merge pull request #41 from gogoit/fix/missing\_accounts. [Sijis Aviles]
  - fix: Handle Spinnaker missing Accounts
- Discovered duplicate hardcoded environments. Removed this. [Doug Campbell]
- Docs: Fix duplicate eureka\_enabled option. [Nate Tangsurat]
  - Found eureka\_enabled in application.json, removing false pipeline.json reference.
- Docs: Include eureka\_enabled option. [Nate Tangsurat]
- Merge pull request #39 from gogoit/feat/alpha\_releases. [Sijis Aviles]
  - feat: Default to alpha releases
- Merge pull request #37 from gogoit/rename\_endpoints. [Sijis Aviles]
  - added foremast-\* endpoints for runner
- Added in feedback from #37. [Doug Campbell]
- Changed name of onetime-pipeline to pipeline-onetime. [Doug Campbell]
- Updated docs with new endpoints. [Doug Campbell]
- Added foremast-\* endpoints for runner. [Doug Campbell]
- Merge pull request #35 from gogoit/feat/auto\_version. [Sijis Aviles]
  - feat: Get version from Tag automatically

- Docs: Update releasing workflow. [Nate Tangersurat]

## v2.17 (2016-09-02)

### Fix

- Only track annotated Tags. [Nate Tangersurat]  
See also: #35

### Features

- Get version from Tag automatically. [Nate Tangersurat]

### Other

- Chore: Add TODO for cleaning out GitLab AMI lookup. [Nate Tangersurat]

## v2.16.3 (2016-09-01)

### Fix

- Move shebang to top. [Nate Tangersurat]  
See also: PSOBAT-2503

### Other

- Chore: v2.16.3. [Nate Tangersurat]
- Added slash remove. [Doug Campbell]

## v2.16.2 (2016-08-31)

### Fix

- Retry when updating Lambda Function. [Nate Tangersurat]  
IAM permissions can lag a little.  
See also: PSOBAT-2503
- Add ec2:CreateNetworkInterface for VPC Lambda. [Nate Tangersurat]  
See also: PSOBAT-2503

## Other

- Chore: v2.16.2. [Nate Tangersurat]  
See also: PSOBAT-2503
- Refactor: Remove unused imports. [Nate Tangersurat]  
See also: PSOBAT-2503

## v2.16.1 (2016-08-31)

### Fix

- Lambda Functions need a Spinnaker Application. [Nate Tangersurat]  
See also: PSOBAT-2503
- Handle Lambda Role missing permission. [Nate Tangersurat]  
See also: PSOBAT-2503

### Features

- Log out Lambda Function Role ARN. [Nate Tangersurat]
- Extra logging around Lambda update. [Nate Tangersurat]

## Other

- Chore: v2.16.1. [Nate Tangersurat]  
See also: PSOBAT-2503
- Style: isort, YAPF. [Nate Tangersurat]

## v2.16 (2016-08-30)

### Fix

- Support default bucket in example. [Nate Tangersurat]  
See also: PSOBAT-2448
- Update S3 IAM Policy. [Nate Tangersurat]  
See also: PSOBAT-2448

## Other

- Chore: v2.16. [Nate Tangersurat]  
See also: PSOBAT-2484
- Test: Check S3 IAM Policy. [Nate Tangersurat]  
See also: PSOBAT-2448

## v2.15 (2016-08-30)

- Upped version number to 2.15. [Sibin Arsenijevic]
- Fixed logic where ELB was created even if Eureka was enabled. [Sibin Arsenijevic]

## v2.14 (2016-08-29)

- Updated tag to 2.14. [Doug Campbell]
- Merge branch 'master' of github.com:gogoit/foremast. [Doug Campbell]
- Hotfix: moved lambda creation under conditional. [Doug Campbell]

## v2.13 (2016-08-29)

### Fix

- Remove default Service. [Nate Tangersurat]  
See also: #32
- Remove extra keyword argument. [Nate Tangersurat]  
Deployment type is already stored in *pipeline\_settings*.  
See also: #32

### Features

- Add CloudWatch Logs to Lambda deployments. [Nate Tangersurat]  
Lambda deployments should have CloudWatch Logs access automatically added.  
See also: PSOBAT-2482
- Add CloudWatch Logs template. [Nate Tangersurat]  
See also: PSOBAT-2482
- Pass deployment type to Policy constructor. [Nate Tangersurat]  
See also: PSOBAT-2482

### Other

- Chore: v2.13. [Nate Tangersurat]
- Test: Check cloudwatchlogs specifically. [Nate Tangersurat]  
See also: #32
- Docs: Add cloudwatchlogs to pipeline.json services. [Nate Tangersurat]  
See also: PSOBAT-2482
- Test: Check CloudWatch Logs acces for Lambda. [Nate Tangersurat]  
Lambda Policy should automatically have CloudWatch Logs access.  
See also: PSOBAT-2482

- Test: add\_lambda\_permissions moved to utils. [Nate Tangsurat]  
Update testing to target new util function moved from a class method.  
See also: PSOBAT-2337
- Test: Check add\_lambda\_permissions. [Nate Tangsurat]  
See also: PSOBAT-2337
- Test: Add basic APIGateway init. [Nate Tangsurat]  
See also: PSOBAT-2337
- Test: Add required rules dictionary. [Nate Tangsurat]  
See also: PSOBAT-2337
- Test: API Gateway create resource. [Nate Tangsurat]  
See also: PSOBAT-2337
- Added default parameter to dictionary get method. [Steven Basgall]
- Added json input passing to cloudwatch event config. [Steven Basgall]
- Added generic lambda templates. [Doug Campbell]
- Docs: Add note on documentation file extensions. [Nate Tangsurat]  
See also: PSOBAT-2476
- Docs: Split documentation notes into bullets. [Nate Tangsurat]  
See also: PSOBAT-2476
- Docs: Move documentation section up. [Nate Tangsurat]  
See also: PSOBAT-2476
- Docs: Add contents to contributing. [Nate Tangsurat]  
See also: PSOBAT-2476
- Docs: Refactor pipeline.json notifications block. [Nate Tangsurat]
- Docs: Refactor pipeline.json image block. [Nate Tangsurat]
- Docs: Change include files to .rest suffix. [Nate Tangsurat]
- Docs: Refactor pipeline.json lambda block. [Nate Tangsurat]
- Docs: Fix JSON block. [Nate Tangsurat]
- Docs: Services for pipeline.json. [Nate Tangsurat]
- Docs: Move Lambda docs into directory. [Nate Tangsurat]  
Updated :doc: links to :ref:.
- Docs: Move configuration files into directory. [Nate Tangsurat]  
Updated :doc: links to :ref: links.
- Docs: Move pipeline.json into directory. [Nate Tangsurat]
- Style: isort, YAPF. [Nate Tangsurat]  
See also: PSOBAT-2482
- Style: isort, YAPF. [Nate Tangsurat]



- Docs: Add Branch and Commit guidelines. [Nate Tangersurat]
- Added lambda support to prod pipeline. [Fadi Almasri]
- Docs: Start contribution guidelines. [Nate Tangersurat]
- Removed References to Gate Class (in favor of requests) [Joel Vasallo]
  - We still have some work to do on this class, so I opted to standardize the way we call Gate to just use requests.
- Formatting and Missing SSL Call. [Joel Vasallo]
  - Cleaned up lines to meet 120 char limit
  - Fixed missing request.delete() call not passing SSL CA bundle and PEM
- Updated all references of requests to use x509 certificates if specified. [Joel Vasallo]
- Docs: Use wheels for releasing. [Nate Tangersurat]

## v2.12 (2016-08-26)

### Features

- Add debug flag support for runners. [Nate Tangersurat]

### Other

- Chore: v2.12. [Nate Tangersurat]

## v2.11 (2016-08-26)

### Fix

- Misspelled variable. [Nate Tangersurat]

### Features

- Include short Git name in INFO. [Nate Tangersurat]
- Create base ForemastError (#9) [Nate Tangersurat]

### Other

- Chore: v2.11. [Nate Tangersurat]
- Updated docs with feedback and editing notes from #26, added ref links. [Doug Campbell]
- Documented lambda pipeline and added image. [Doug Campbell]
- Updated lambda events docs for all values. [Doug Campbell]
- Added lambda events skeleton and aws lambda subsection. [Doug Campbell]
- Updated configuration docs. [Doug Campbell]
- Regenerated foremast code docs. Started lambda documentation. [Doug Campbell]

- Docs: Reword pipeline.json description. [Nate Tangsurat]
- Docs: Fix reference. [Nate Tangsurat]
- Ran isort, added docstrings. [Doug Campbell]
- Added lambda permissions to cloudwatch log events. [Doug Campbell]
- Updated docstrings, ran isort, feedback from #24. [Doug Campbell]
- Added lambda permissions for SNS event. [Doug Campbell]
- Ran isort, incorporated feedback from #23. [Doug Campbell]
- Added lambda permissions for cloudwatch events. [Doug Campbell]
- Added feedback from #22, changed permissions to kwargs. [Doug Campbell]
- Added env and region to api gateway permissions. [Doug Campbell]
- Removed print. [Doug Campbell]
- Added lambda function util to API gateway, added to s3 creation. Intergrated all together. [Doug Campbell]
- Updated utils to use awslambda for arn and permissions. [Doug Campbell]
- Added additional variables for templates. [Steven Basgall]
- Docs: Fix example configuration path. [Nate Tangsurat]
- Docs: Remove unneeded autodoc mocks. [Nate Tangsurat]
- Docs: Remove page for missing module. [Nate Tangsurat]
- Docs: Fix section markers. [Nate Tangsurat]
- Docs: Sync sphinx-apidoc. [Nate Tangsurat]
- Docs: Move comment into docstring. [Nate Tangsurat]
- Docs: Update docstrings. [Nate Tangsurat]
- Docs: End docstring sentence. [Nate Tangsurat]
- Docs: Update main Lambda docstring. [Nate Tangsurat]
- Refactor: Remove adhoc launcher. [Nate Tangsurat]
- Docs: Fix docstrings. [Nate Tangsurat]
- Added feedback from #18. Refactored adding permissions and finding api and resource IDs. [Doug Campbell]
- Removed setup api file. [Doug Campbell]
- Added remove permissions, removed source SRN (which fixed permissions bug), ran yapf. [Doug Campbell]
- Added doc strings, tied fuctions together for api creation. [Doug Campbell]
- Moved functions into api\_gateway. [Doug Campbell]
- Remove unused variable. [Sijis Aviles]
- Added doc strings, tied fuctions together for api creation. [Doug Campbell]
- Moved functions into api\_gateway. [Doug Campbell]
- Added functions for handling API creation, need to clean up and tie everything together. [Doug Campbell]
- Merge pull request #20 from gogoit/feature/lambda\_iam. [Joel Vasallo]  
feat: Add Lamda IAM Role Trust Policy

- Refactor: Rename IAM Trust Policies. [Nate Tangsurat]  
See also: PSOBAT-2092
- Test: Check Lambda IAM Role Policy. [Nate Tangsurat]  
See also: PSOBAT-2092
- Chore: Add Lambda IAM Role Policy. [Nate Tangsurat]  
See also: PSOBAT-2092
- Test: Check EC2 IAM Policy. [Nate Tangsurat]  
See also: PSOBAT-2092
- Chore: Move IAM Role template. [Nate Tangsurat]  
See also: PSOBAT-2092
- Refactor: Extract Policy template. [Nate Tangsurat]  
See also: PSOBAT-2092
- Refactor: Store properties for reuse. [Nate Tangsurat]  
See also: PSOBAT-2092
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-2092
- Changed default lambda runtime to java8. [Steven Basgall]
- Test: Fix subnet checking. [Nate Tangsurat]  
See also: PSOBAT-2092
- Safe class selection for create\_pipeline function. [Steven Basgall]
- Indentation fixes for 120 cols. [Steven Basgall]
- Changed dict to string. [Steven Basgall]
- Added entrypoint for lambda infrastructure prepare. [Steven Basgall]
- Style: argument order. [Steven Basgall]
- Corrected class name. [Steven Basgall]
- Changed to inherit SpinnakerPipeline and remove unchanged functions. [Steven Basgall]
- Changed conditional logic to avoid catch all. [Steven Basgall]
- Added lambda pipeline templates. [Steven Basgall]
- Added pipeline creation based on type conditional. [Steven Basgall]
- Added type default ec2 to pipeline.json defaults. [Steven Basgall]
- Added alernate condition for initial pipeline stage assignemnt. [Steven Basgall]
- Removed ec2 specific code. [Steven Basgall]
- Removed ec2 specific code. [Steven Basgall]
- Removed excess logging. [Steven Basgall]
- Added lambda specific pipeline class and require module changes. [Steven Basgall]
- Removed unused lambda entry point and added conditional lambda logic to existing endpoint. [Steven Basgall]

- Removed entry point not used. [Steven Basgall]
- Added lambda specific construct\_pipeline\_block. [Steven Basgall]
- Deleted file not needed. [Steven Basgall]
- Added create\_pipeline lambda specific. [Steven Basgall]
- Renamed lambda entrypoint. [Steven Basgall]
- Removed old file. [Steven Basgall]
- Renamed file. [Steven Basgall]
- Initial changes for lambda pipeline creation. [Steven Basgall]
- Test: Fix mock path. [Nate Tangsurat]  
See also: PSOBAT-2092
- Add retry around creating an api deployment. [Sijis Aviles]
- Provide a more accurate response when adding an existing api mapping. [Sijis Aviles]
- Add missing docstring. [Sijis Aviles]
- Update dns paths via api\_mapping functionality. [Sijis Aviles]
- Fix issue where permissions where indefinitely being added. [Sijis Aviles]
- Add property path parameter. [Sijis Aviles]
- Remove unused variable. [Sijis Aviles]
- Add note on retrying when hitting api limit. [Sijis Aviles]
- Add api gateway dns zone record. [Sijis Aviles]
- Split update dns record as a util method. [Sijis Aviles]
- Use get\_dns\_zone\_ids utils method. [Sijis Aviles]
- Update dns template to use generic variables. [Sijis Aviles]
- Add elb add\_listener\_policy test case. [Sijis Aviles]
- Add test case for make\_elb\_json. [Sijis Aviles]
- Add create\_elb test cases. [Sijis Aviles]
- Add test cases for format\_cert\_name. [Sijis Aviles]
- Moved location of elb tests. [Sijis Aviles]
- Fixed spinnaker java error with bad data. Removed subnet key from the dict for now. [Doug Campbell]
- Added feedback from #11 comments. Better with open logic for zip files, fixed typos. [Doug Campbell]
- Updated templates and dictionary calls to use better defaults. [Doug Campbell]
- Updated default templates, added feedback from #11, uncommented out necessary code. [Doug Campbell]
- Changed zip logic to use python for creation instead of putting zip file in git. [Doug Campbell]
- Updated subnet logic, added securit\_group ID getter. [Doug Campbell]
- Cleaned up subnet stuff. [Doug Campbell]
- Added dummy zip file. [Doug Campbell]
- Cleaned up sibins code, added better dictionary handling. [Doug Campbell]

- Added lambda manipulation function, few FIXME comments left. [Sibin Arsenijevic]
- Renamed function to update\_function\_configuration to be more clear. [Doug Campbell]
- Changed zip logic to use python for creation instead of putting zip file in git. [Doug Campbell]
- Updated subnet logic, added securit\_group ID getter. [Doug Campbell]
- Cleaned up subnet stuff. [Doug Campbell]
- Added dummy zip file. [Doug Campbell]
- Cleaned up sibins code, added better dictionary handling. [Doug Campbell]
- Added lambda manipulation function, few FIXME comments left. [Sibin Arsenijevic]
- Merge branch 'master' of github.com:gogoit/foremast. [Doug Campbell]
- Chore: Rename IAM test files. [Nate Tangsurat]  
See also: PSOBAT-2092
- Test: Move iam tests into iam directory. [Nate Tangsurat]  
See also: PSOBAT-2092
- Updated spinnaker versions in docs. [Doug Campbell]
- Merge pull request #15 from gogoit/eureka-log-fix. [Sijis Aviles]  
Remove positive logging message from negative eureka conditional
- Remove positive logging message from negative eureka conditional. [Steven Basgall]
- Better exception formatting. [Doug Campbell]
- Added a wrapper function for uri generation. [Doug Campbell]
- Fix linting warnings. [Sijis Aviles]
- Remove unused imports. [Sijis Aviles]
- Ran yapf, added exception handling and better logging, connected everything together. [Doug Campbell]
- Added gateway event to awslambdaevent.py. [Doug Campbell]
- Added all steps for adding lambda integration to api gateway. Added doc strings. [Doug Campbell]
- Added logic for finding api gate way IDs. still need to work on the lambda integration, api\_key, deployment, and dns. [Doug Campbell]
- Removed old import. [Doug Campbell]
- Removed hard coded bucket naming, added a generated for s3\_app\_bucket. [Doug Campbell]
- Reorganized exceptions, moved all lambda exceptions into exceptions.py. [Doug Campbell]
- Fixed few conditionals and function arguments as per comments on PR. [Sibin Arsenijevic]
- Renamed utils functions, simplified imports, removed return True for some functions, simplified jinja2 template for s3 events. [Sibin Arsenijevic]
- Fixed wrong return type in docstring in cloudwatch\_events. [Sibin Arsenijevic]
- Fixed logging using .format. [Sibin Arsenijevic]
- Docstrings fixed. [Sibin Arsenijevic]
- Added lambda infrastructure (events) functions, missing API Gateway. Few helper functions. [Sibin Arsenijevic]

- Test/dns (#10) [Sijis Aviles]
    - Add test cases for dns
    - Update docstring and move variables
  - Test: Check basic functionality for create\_iam\_resources() (#7) [Nate Tangersurat]
    - test: Add test for create\_iam\_resources()
- See also: PSOBAT-2092
- test: Add called\_with checks
- See also: PSOBAT-2092
- Update assertion to be more explicit
  - test: Check number of calls to resource\_action()
- See also: PSOBAT-2092
- Update docs explaining [formats] section in formats.cfg (#5) [Sijis Aviles]
  - Removed implementation section. (#8) [Sijis Aviles]

This is covered in more details in the docs.
  - Added doc section to readme (#6) [Doug Campbell]
  - Removed unused references to git token file. [Steven Basgall]
  - Correct spelling of virtualenv (#3) [Steven Basgall]
  - Fixed typo for dns creation. [Doug Campbell]
  - Fixed hardcoded DNS name in dns setup. [Doug Campbell]
  - Test: Split test case (#1) [Nate Tangersurat]

## v2.10 (2016-08-09)

- Updated tag to 2.10. [Doug Campbell]
- Linting fixes. [Sijis Aviles]
- Updated docs. [Doug Campbell]
- Fixed elb sg issue and removed sg from configs. [Doug Campbell]
- Fixed elb sg issue and removed sg from configs. [Doug Campbell]
- Chore: Include tox for development. [Nate Tangersurat]
- Chore: Add Python 3.6 testing. [Nate Tangersurat]
- Linting fixes. [Sijis Aviles]

## v2.9.0 (2017-05-31)

### Fix

- Mock DOMAIN constant. [Nate Tangersurat]

## Other

- Chore: v2.9. [Nate Tangersurat]
- Merge branch 'master' of github.com:gogoair/foremast. [Doug Campbell]
- Test: Fix external DNS Zone IDs mock. [Nate Tangersurat]
- Test: Fix mocking. [Nate Tangersurat]
- Test: Mock constant and request call. [Nate Tangersurat]
- Test: Fix constant mock. [Nate Tangersurat]
- Test: Fix constant mocking. [Nate Tangersurat]
- Linting fixes. [Sijis Aviles]
- Added link to foremast-templates. [Doug Campbell]
- Removed jira. [Doug Campbell]
- Updated pipeline tests. [Sijis Aviles]
- Add dns test cases. [Sijis Aviles]
- Simplified iam tests cases to just validate json. [Sijis Aviles]

It would make sense to validate the exact policy, however, policies do change significantly and the only real changes are the content.

We also cannot determine if the policy generated is in fact legal or represents what policies we'd like to enforce. Since that's the case, i think we just ensure that generated policy is simply valid json.

- Fix elb test cases. [Sijis Aviles]
- Refactor subnets util and remove unused parameters. [Sijis Aviles]
- Renamed files in utils for easier testing. [Sijis Aviles]
- Add additional subnets tests cases. [Sijis Aviles]
- Add utils/subnets test cases. [Sijis Aviles]
- Add test cases for utils/vpc. [Sijis Aviles]
- Add utils/security\_group test cases. [Sijis Aviles]
- Add utils/dns test cases. [Sijis Aviles]
- Add application util related test cases. [Sijis Aviles]
- Added more pipeline util test cases. [Sijis Aviles]
- Add simple test case for utils/slack. [Sijis Aviles]
- Add test cases for find\_elb. [Sijis Aviles]
- Consolidated filename test into utils. [Sijis Aviles]
- Add test cases for checking managed pipeline. [Sijis Aviles]
- Add deep\_chain\_map test cases. [Sijis Aviles]
- Add utils.banners test case. [Sijis Aviles]
- Rename utils.banner -> utils.banners. [Sijis Aviles]
- Stupid print statement. [Doug Campbell]

- Moved default security groups to a config setting. [Doug Campbell]
- Removed print statement, was overlooked. [Doug Campbell]
- Updated securitygroups to not include apps-all or offices\_all by default. [Doug Campbell]
- Removed gogo-archaius references. [Doug Campbell]
- Made templates more generic for open source users. [Doug Campbell]

## v2.9 (2016-08-08)

### Fix

- Mock DOMAIN constant. [Nate Tangersurat]

### Other

- Chore: v2.9. [Nate Tangersurat]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Doug Campbell]
- Test: Fix external DNS Zone IDs mock. [Nate Tangersurat]
- Test: Fix mocking. [Nate Tangersurat]
- Test: Mock constant and request call. [Nate Tangersurat]
- Test: Fix constant mock. [Nate Tangersurat]
- Test: Fix constant mocking. [Nate Tangersurat]
- Linting fixes. [Sijis Aviles]
- Added link to foremast-templates. [Doug Campbell]
- Removed jira. [Doug Campbell]
- Updated pipeline tests. [Sijis Aviles]
- Add dns test cases. [Sijis Aviles]
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- Fix elb test cases. [Sijis Aviles]
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- Add utils/subnets test cases. [Sijis Aviles]
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- Add utils/dns test cases. [Sijis Aviles]



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- Made templates more generic for open source users. [Doug Campbell]

## v2.8.0 (2017-05-31)

### Fix

- Generalize module to “lookups” [Nate Tangsurat]
- Move section check into value checker. [Nate Tangsurat]
- WARNING message for missing configurations. [Nate Tangsurat]
- Use underscores for module names. [Nate Tangsurat]
- Missing napoleon Sphinx requirement. [Nate Tangsurat]
- Exit with error when no configuration found. [Nate Tangsurat]
- Exit with error when no configuration found. [Nate Tangsurat]
- Remove print. [Nate Tangsurat]
- Unnecessary comment. [Nate Tangsurat]  
See also: PSOBAT-2146
- Potentially overriding variable name. [Nate Tangsurat]
- Use lazy logging. [Nate Tangsurat]
- Locations was move to a local variable. [Nate Tangsurat]
- Include Region for boto3 Session. [Nate Tangsurat]

### Features

- Indicate missing configuration keys. [Nate Tangsurat]

## Other

- Bump to v2.8. [Sijis Aviles]
- Fixed lingering merge conflict text. [Doug Campbell]
- Added the correct pictures. [Doug Campbell]
- Fixed merge conflict. [Doug Campbell]
- Updated pipeline example and workflow doc, included pictures. [Doug Campbell]
- Added single pipeline image. [Doug Campbell]
- Added vpc subnet assumptions to docs. [Doug Campbell]
- Updated infrastructure docs. Still needs VPC info. [Doug Campbell]
- Started infra docs. [Doug Campbell]
- Fixed example references, fixed typos and basic editing, improved wording. [Doug Campbell]
- Added more content. [Doug Campbell]
- Updated doc images. [Doug Campbell]
- Updated pipeline examples for new external pipeline pathing. [Doug Campbell]
- Updated pipeline example and workflow doc, included pictures. [Doug Campbell]
- Added single pipeline image. [Doug Campbell]
- Added vpc subnet assumptions to docs. [Doug Campbell]
- Updated infrastructure docs. Still needs VPC info. [Doug Campbell]
- Started infra docs. [Doug Campbell]
- Fix bug with autoscaling policys and reorganize the code a bit. [Doug Campbell]
- Fixed merge conflict. [Doug Campbell]
- Fixed template paths in test. [Doug Campbell]
- Fixed error with expand-user. [Doug Campbell]
- Renamed template files to j2 extension. [Doug Campbell]
- Changed logic for jinja loader to accept a list. Added `os.path.expanduser`. [Doug Campbell]
- Merge request feedback, changed to `os.path.join` and removed redundant logs. [Doug Campbell]
- Simiplified `templatedir` logic. [Doug Campbell]
- Renamed template files to remove redundant naming. [Doug Campbell]
- Renamed slack directory for templates. [Doug Campbell]
- Updated pathing on all templates. [Doug Campbell]
- Restored templates back to original, just with new pathing. [Doug Campbell]
- Added logic for `template_dir` config, moved pipeline-templates to just pipeline. [Doug Campbell]
- Updaated appending logic for templates. [Doug Campbell]
- Fixed template paths in test. [Doug Campbell]
- Fixed error with expand-user. [Doug Campbell]
- Renamed template files to j2 extension. [Doug Campbell]

- Changed logic for jinja loader to accept a list. Added `os.path.expanduser`. [Doug Campbell]
- Merge request feedback, changed to `os.path.join` and removed redundant logs. [Doug Campbell]
- Simplified `templatedir` logic. [Doug Campbell]
- Renamed template files to remove redundant naming. [Doug Campbell]
- Renamed slack directory for templates. [Doug Campbell]
- Updated pathing on all templates. [Doug Campbell]
- Restored templates back to original, just with new pathing. [Doug Campbell]
- Added logic for `template_dir` config, moved `pipeline-templates` to just `pipeline`. [Doug Campbell]
- Chore: Add FIXME note for settings ASG HC to EC2. [Nate Tangsurat]  
Need to make sure that `provider_healthcheck` is set when `eureka_enabled`. Without it, the ASG Health Check defaults back to ELB in Spinnaker.
- Remove IDE project files. [Sijis Aviles]
- Licensing as Apache 2.0. [Sijis Aviles]
- Fixed for loop else and put `app_name` in a variable for `gogoutils`. [Doug Campbell]
- Incorporated feedback from merge request 13. [Doug Campbell]
- Updated docstrings and conditional wrapping. [Doug Campbell]
- Added functions to look up existing pipeline and compare with desired pipelines. This puts `pipeline_id` in the templates. [Doug Campbell]
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- Merge branch 'cross-account-sg' into 'master' [Sijis Aviles]

Enabled Cross Account VPC Security Groups

Doing this should enable cross account security group access.

My cases I should handle: - Developer specifies app name SG, specifies account, specifies ports. - Developer doesn't specify app name, account, or ports, - Developer specifies app\_name, ports, but not account.

Logic: If account is specified, cross account is true. Look up vpcID and post to spinnaker to enable cross account SG. If account is not specified, default to legacy behavior.

Here is the sample JSON posted to Spinnaker. `““javascript`

```
{ "accountName": "dev", "id": "sg-578bcc2f", "name": "coreforrest", "type": "tcp",
  "startPort": 80, "endPort": 80, "existing": true
}, {
  "type": "tcp", "startPort": 7001, "endPort": 7001, "name": "admincrewconnect",
  "crossAccountEnabled": true, "accountName": "dev", "vpcId": "vpc-869f46e2"
}
],
```

`““`

See merge request !5

- Mock actual update calls when running security group tests. [Sijis Aviles]
- Added testcases for security group. [Joel Vasallo]
- Renamed key from account to env since it will make it clearer for developers to understand. [Joel Vasallo]
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- Added fall back for just ami ID and updated docs. [Doug Campbell]
- Merge branch 'master' of github.com:gogoair/foremast into feature/dir. [Doug Campbell]

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- Added better logging and changed dict to .get() for configs. [Doug Campbell]
- Fixed token error. [Doug Campbell]
- Added runway\_dir env. [Doug Campbell]
- Updated getting\_started guide. [Doug Campbell]
- Added getting started docs. [Doug Campbell]
- Added doc for aws credentials. [Doug Campbell]
- Docs: Clean up foremast.configs docstring. [Nate Tangsurat]
- Chore: Ignore generated files. [Nate Tangsurat]
- Docs: Forgot to include link to requirements. [Nate Tangsurat]
- Docs: Change configuration example to link. [Nate Tangsurat]
- Docs: Remove extra underline for links. [Nate Tangsurat]
- Docs: Use code-block. [Nate Tangsurat]
- Docs: Use code-block. [Nate Tangsurat]
- Docs: Convert and include RELEASING. [Nate Tangsurat]
- Docs: Convert to rst. [Nate Tangsurat]
- Docs: Use only local contents. [Nate Tangsurat]
- Docs: Figured out local page index, *contents* [Nate Tangsurat]
- Docs: Update Python 3 intersphinx mapping. [Nate Tangsurat]
- Docs: Fix header line. [Nate Tangsurat]
- Docs: Fix argument style. [Nate Tangsurat]
- Docs: Fix code block. [Nate Tangsurat]

- Docs: Fix code blocks. [Nate Tangersurat]
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- Docs: Fix code block. [Nate Tangersurat]
- Docs: Fix code blocks. [Nate Tangersurat]
- Docs: Code syntax block. [Nate Tangersurat]
- Docs: Include example configuration. [Nate Tangersurat]
- Docs: Example configuration file. [Nate Tangersurat]  
Compiling the docs is easier with a demo configuration file.
- Docs: Update configuration locations. [Nate Tangersurat]
- Docs: Update docstring to include config file name. [Nate Tangersurat]
- Docs: Complete sentences. [Nate Tangersurat]
- Docs: Imperative mood. [Nate Tangersurat]
- Added docs for foremast.cfg. [Doug Campbell]
- Style: isort, YAPF. [Nate Tangersurat]
- Updated doc string. [Doug Campbell]
- Added jenkins s3 sync for foremast configs. [Doug Campbell]
- Added most consts to config. [Doug Campbell]
- Config loader is working as expected. [Doug Campbell]
- Updated gitlab and slack token to use base config. [Doug Campbell]
- Added config loader for a ~/.foremast.cfg file for gitlab and slack token. [Doug Campbell]
- Updated readme, made better for general public. [Doug Campbell]
- Fixed missing key error for policies in legacy ELB way. [Joel Vasallo]
- Merge branch 'listenerpolicies' into 'master' [Sijis Aviles]  
Listenerpolicies  
This will resolve PSOBAT-2186.  
This enables setting of SSL Ciphers via code.  
See merge request !4
- Removed unneeded pprint statement. [Joel Vasallo]
- Fixed issue where policy is not set foremast errors out. [Joel Vasallo]
- Added support for elb listener policies. [Joel Vasallo]
- Updated slacknotify and utils doc strings. [Doug Campbell]
- Updated doc strings for s3 and securitygroup. [Doug Campbell]
- Updated pipeline doc strings. [Doug Campbell]
- Updated iam and elb doc strings. [Doug Campbell]
- Updated configs and DNS doc strings. [Doug Campbell]
- Updated doc strings for scaling\_policies. [Doug Campbell]

- Updated doc strings for app package. [Doug Campbell]
- Changed gitlab ci config to master. [Doug Campbell]
- Updated app.\_\_main\_\_ docstring. [Doug Campbell]
- Added apidoc generation to gitlabci script. [Doug Campbell]
- Updated security group settings. [Doug Campbell]
- Fixed merge issue. [Doug Campbell]
- Merge branch 'docs' of github.com:gogoair/foremast into docs. [Doug Campbell]
- Removed key/block wording for clean up. [Doug Campbell]
- Changed block/key wording to test. [Doug Campbell]
- Added napoleon to sphinx configs. [Doug Campbell]
- Changed keys to be headers and reformatted everything. [Doug Campbell]
- Resolved all import issues. [Doug Campbell]
- Fixing moc imports. [Doug Campbell]
- Added docs to mock. [Doug Campbell]
- Added mocked imports. [Doug Campbell]
- Fixed typo in gitlab-ci. [Doug Campbell]
- Updated build script, new idea for pip. [Doug Campbell]
- Testing load path. [Doug Campbell]
- Added aws cp for pip config to gitlab ci. [Doug Campbell]
- Updated pip install in gitlab-ci config. [Doug Campbell]
- Updated gitignore and gitlab-ci config. [Doug Campbell]
- Changed branch to docs. [Doug Campbell]
- Added gitlab-ci runner for generating pages with docs. [Doug Campbell]
- Updated pipeline.json docs with new structure and literal include. [Doug Campbell]
- Added examples, changed formatting. [Doug Campbell]
- Generated all module docs. [Doug Campbell]
- Added foremast.app to test automodule features. [Doug Campbell]
- Started documenting details of config. [Doug Campbell]
- Added base for configuration files and getting started. [Doug Campbell]
- Started docs. [Doug Campbell]
- Restructured pipeline\_json to match app\_json. [Doug Campbell]
- Removed key/block wording for clean up. [Doug Campbell]
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- Started docs. [Doug Campbell]
- Fixed issue with service now stage order. [Doug Campbell]
- Added service now stage. [Doug Campbell]
- Raise SystemExit if REBUILD\_PROJECT is not present. [Sijis Aviles]
- Updated dsl.groovy to include rebuild job. [Doug Campbell]
- Added get\_all\_apps and ability to rebuild all pipelines. [Doug Campbell]
- Merge branch 'master' of github.com:gogoair/foremast into feature/asg\_policy. [Doug Campbell]
- Add ability to set TTL for created CNAME DNS record. [Sijis Aviles]
- Lowered the scale down threshold to 50 percent if the scale up threshold. [Fadi Almasri]
- Bug fixes for prepare\_policy\_template refactored code. [Fadi Almasri]
- Typo bug fix. [Fadi Almasri]
- Added scaledown policy logic. [Fadi Almasri]
- Merge branch 'feature/asg\_policy' of github.com:gogoair/foremast into feature/asg\_policy. [Doug Campbell]
- Added task checker to task posts. [Doug Campbell]
- Changed logic to delete all server groups before creating. [Doug Campbell]
- Working template. changed policy and alarm name. [Doug Campbell]
- Changed some autoscaling template variables around, trying to get everything lined up. [Doug Campbell]
- Updated template for autoscaling groups. [Doug Campbell]
- Updated policy name. [Doug Campbell]

- Merge branch 'master' of github.com:gogoair/foremast into feature/asg\_policy. [Doug Campbell]
- Updated renumerate to include scaling policy order. [Doug Campbell]
- Fixed comma typo and added better logging. [Doug Campbell]
- Added stage for updating scaling policy. [Doug Campbell]
- Changed period to minutes and added conversion. [Doug Campbell]
- Updated autoscalling template. [Doug Campbell]
- Updated template to have ARN, ran yapf. [Doug Campbell]
- Added scaling policy jobs to runway dsl. [Doug Campbell]
- Added default values, working commit. [Doug Campbell]
- Updated app\_name to app, added empty scaling policy continue logic. [Doug Campbell]
- All working, just need to figure out how to handle configs. [Doug Campbell]
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- More typo fixes. [Doug Campbell]
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- Added endpoint to setup.py. [Doug Campbell]
- Updated runner to included scaling policy stuff. [Doug Campbell]
- Added autoscaling policy class and template. Needs testing and logging. [Doug Campbell]
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- Updated log line to proper list name. [Joel Vasallo]
- Add test to validate json of templates. [Sijis Aviles]
- Always set templateFileName when baking. [Sijis Aviles]
- Remove condition for eureka flag. [Sijis Aviles]  
This isn't necessary as 'hc\_type' is exposed to user directly.
- Moved asg whitelist as a constant list instead of reading a file. [Sijis Aviles]
- Merge branch 'multi-cloud-env' into 'master' [Sijis Aviles]  
Added support for PRODP and PRODS CLOUD\_ENVIRONMENT variables
  - Enables support for \$CLOUD\_ENVIRONMENT\_P for NGINX configs and possibly use in tomcat as wellSee merge request !3
- Added support for CLOUD\_ENVIRONMENT\_C in userdata. [Joel Vasallo]
  - needed for references back to PROD from PRODP and PRODS
- Added support for PRODP and PRODS CLOUD\_ENVIRONMENT variables. [Joel Vasallo]
  - Enables support for \$CLOUD\_ENVIRONMENT\_P for NGINX configs and possibly use in tomcat as well
- Fixed invalid JSON Syntax in pipeline.json.j2. [Joel Vasallo]
- Added extra description of construct block and wrapper methods. [Sijis Aviles]

## v2.8 (2016-08-08)

### Fix

- Generalize module to "lookups" [Nate Tangsurat]
- Move section check into value checker. [Nate Tangsurat]
- WARNING message for missing configurations. [Nate Tangsurat]
- Use underscores for module names. [Nate Tangsurat]
- Missing napoleon Sphinx requirement. [Nate Tangsurat]
- Exit with error when no configuration found. [Nate Tangsurat]
- Exit with error when no configuration found. [Nate Tangsurat]
- Remove print. [Nate Tangsurat]
- Unnecessary comment. [Nate Tangsurat]  
See also: PSOBAT-2146
- Potentially overriding variable name. [Nate Tangsurat]

- Use lazy logging. [Nate Tangsurat]
- Locations was move to a local variable. [Nate Tangsurat]
- Include Region for boto3 Session. [Nate Tangsurat]

## Features

- Indicate missing configuration keys. [Nate Tangsurat]

## Other

- Bump to v2.8. [Sijis Aviles]
- Fixed lingering merge conflict text. [Doug Campbell]
- Added the correct pictures. [Doug Campbell]
- Fixed merge conflict. [Doug Campbell]
- Updated pipeline example and workflow doc, included pictures. [Doug Campbell]
- Added single pipeline image. [Doug Campbell]
- Added vpc subnet assumptions to docs. [Doug Campbell]
- Updated infrastructure docs. Still needs VPC info. [Doug Campbell]
- Started infra docs. [Doug Campbell]
- Fixed example references, fixed typos and basic editing, improved wording. [Doug Campbell]
- Added more content. [Doug Campbell]
- Updated doc images. [Doug Campbell]
- Updated pipeline examples for new external pipeline pathing. [Doug Campbell]
- Updated pipeline example and workflow doc, included pictures. [Doug Campbell]
- Added single pipeline image. [Doug Campbell]
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- Fix bug with autoscaling policys and reorganize the code a bit. [Doug Campbell]
- Fixed merge conflict. [Doug Campbell]
- Fixed template paths in test. [Doug Campbell]
- Fixed error with expand-user. [Doug Campbell]
- Renamed template files to j2 extension. [Doug Campbell]
- Changed logic for jinja loader to accept a list. Added os.path.expanduser. [Doug Campbell]
- Merge request feedback, changed to os.path.join and removed redundant logs. [Doug Campbell]
- Simplified templatedir logic. [Doug Campbell]
- Renamed template files to remove redundant naming. [Doug Campbell]
- Renamed slack directory for templates. [Doug Campbell]

- Updated pathing on all templates. [Doug Campbell]
- Restored templates back to original, just with new pathing. [Doug Campbell]
- Added logic for `template_dir` config, moved pipeline-templates to just pipeline. [Doug Campbell]
- Updaated appending logic for templates. [Doug Campbell]
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- Chore: Add FIXME note for settings ASG HC to EC2. [Nate Tangsurat]  
Need to make sure that `provider_healthcheck` is set when `eureka_enabled`. Without it, the ASG Health Check defaults back to ELB in Spinnaker.
- Remove IDE project files. [Sijis Aviles]
- Licensing as Apache 2.0. [Sijis Aviles]
- Fixed for loop else and put `app_name` in a variable for `gogoutils`. [Doug Campbell]
- Incorporated feedback from merge request 13. [Doug Campbell]
- Updated docstrings and conditional wrapping. [Doug Campbell]
- Added functions to look up existing pipeline and compare with desired pipelines. This puts `pipeline_id` in the templates. [Doug Campbell]
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- Revert "Remove condition for eureka flag" [Sijis Aviles]  
This reverts commit 0e70e27f30e826e46ef16c72c3810f2799b3f81d.
- Change default builder to ebs. [Sijis Aviles]
- Combine prospector with existing pytest command. [Sijis Aviles]
- Enable pyflakes and disable checking of `__init__.py`. [Sijis Aviles]
- Use better options for lint. [Sijis Aviles]
- Add lint tox command. [Sijis Aviles]
- Run tests in tests directory. [Sijis Aviles]
- Add consts test cases. [Sijis Aviles]
- Add missing docstring. [Sijis Aviles]
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Configuration files at lower levels (in user directories) should override any values set a global or higher level.
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Removes the *raise SystemExit* in favour of warning messages when sourcing *foremast.consts*. This will allow tests to run with a missing configuration file and mocking should be possible.  
See merge request !7
- Merge branch 'feature/chroot\_options' [Sijis Aviles]
- Use imperative sentences. [Sijis Aviles]
- Add feature to determine how baking is handled. [Sijis Aviles]
- Remove token, as its handled by new config format. [Sijis Aviles]
- Give tests better names. [Sijis Aviles]

- Merge branch 'feature/dir' of git.gogoair.com:spinnaker/pipes into feature/dir. [Doug Campbell]
- Fixed potential bugs with empty lists, none evaluations, and logging. [Doug Campbell]
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- Added better logging and changed dict to .get() for configs. [Doug Campbell]
- Fixed token error. [Doug Campbell]
- Added runway\_dir env. [Doug Campbell]
- Merge branch 'cross-account-sg' into 'master' [Sijis Aviles]

Enabled Cross Account VPC Security Groups

Doing this should enable cross account security group access.

My cases I should handle: - Developer specifies app name SG, specifies account, specifies ports. - Developer doesn't specify app name, account, or ports, - Developer specifies app\_name, ports, but not account.

Logic: If account is specified, cross account is true. Look up vpcID and post to spinnaker to enable cross account SG. If account is not specified, default to legacy behavior.

Here is the sample JSON posted to Spinnaker. ““javascript

```
{ "accountName": "dev", "id": "sg-578bcc2f", "name": "coreforrest", "type": "tcp",
  "startPort": 80, "endPort": 80, "existing": true
}, {
  "type": "tcp", "startPort": 7001, "endPort": 7001, "name": "admincrewconnect",
  "crossAccountEnabled": true, "accountName": "dev", "vpcId": "vpc-869f46e2"
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““

See merge request !5

- Mock actual update calls when running security group tests. [Sijis Aviles]
- Added testcases for security group. [Joel Vasallo]
- Renamed key from account to env since it will make it clearer for developers to understand. [Joel Vasallo]
- Cleaned up cross account SG feature. [Joel Vasallo]

- WIP: Fixed cross account SG to actually work. [Joel Vasallo]
- Enabled Cross Account VPC Security Groups. [Joel Vasallo]
- Merge branch 'feature/dir' of git.gogoair.com:spinnaker/pipes into feature/dir. [Doug Campbell]
- Docs: Punctuation. [Nate Tangsurat]
- Docs: Use code-block for JSON. [Nate Tangsurat]
- Added fall back for just ami ID and updated docs. [Doug Campbell]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes into feature/dir. [Doug Campbell]
- Updated docs with ami\_json. [Doug Campbell]
- Added docs. [Doug Campbell]
- Changed ami-url to a base url. [Doug Campbell]
- Added ami lookup from URL, not just gitlab. [Doug Campbell]
- Added better logging and changed dict to .get() for configs. [Doug Campbell]
- Fixed token error. [Doug Campbell]
- Added runway\_dir env. [Doug Campbell]
- Fixed potential bugs with empty lists, none evaluations, and logging. [Doug Campbell]
- Docs: Punctuation. [Nate Tangsurat]
- Docs: Use code-block for JSON. [Nate Tangsurat]
- Added fall back for just ami ID and updated docs. [Doug Campbell]
- Updated docs with ami\_json. [Doug Campbell]
- Added docs. [Doug Campbell]
- Changed ami-url to a base url. [Doug Campbell]
- Added ami lookup from URL, not just gitlab. [Doug Campbell]
- Added better logging and changed dict to .get() for configs. [Doug Campbell]
- Fixed token error. [Doug Campbell]
- Added runway\_dir env. [Doug Campbell]
- Updated getting\_started guide. [Doug Campbell]
- Added getting started docs. [Doug Campbell]
- Added doc for aws credentials. [Doug Campbell]
- Docs: Clean up foremast.configs docstring. [Nate Tangsurat]
- Chore: Ignore generated files. [Nate Tangsurat]
- Docs: Forgot to include link to requirements. [Nate Tangsurat]
- Docs: Change configuration example to link. [Nate Tangsurat]
- Docs: Remove extra underline for links. [Nate Tangsurat]
- Docs: Use code-block. [Nate Tangsurat]
- Docs: Use code-block. [Nate Tangsurat]
- Docs: Convert and include RELEASING. [Nate Tangsurat]



- Docs: Convert to rst. [Nate Tangersurat]
  - Docs: Use only local contents. [Nate Tangersurat]
  - Docs: Figured out local page index, *contents* [Nate Tangersurat]
  - Docs: Update Python 3 intersphinx mapping. [Nate Tangersurat]
  - Docs: Fix header line. [Nate Tangersurat]
  - Docs: Fix argument style. [Nate Tangersurat]
  - Docs: Fix code block. [Nate Tangersurat]
  - Docs: Fix code blocks. [Nate Tangersurat]
  - Docs: Fix code block. [Nate Tangersurat]
  - Docs: Fix code block. [Nate Tangersurat]
  - Docs: Fix code blocks. [Nate Tangersurat]
  - Docs: Code syntax block. [Nate Tangersurat]
  - Docs: Include example configuration. [Nate Tangersurat]
  - Docs: Example configuration file. [Nate Tangersurat]
  - Compiling the docs is easier with a demo configuration file.
  - Docs: Update configuration locations. [Nate Tangersurat]
  - Docs: Update docstring to include config file name. [Nate Tangersurat]
  - Docs: Complete sentences. [Nate Tangersurat]
  - Docs: Imperative mood. [Nate Tangersurat]
  - Added docs for foremast.cfg. [Doug Campbell]
  - Style: isort, YAPF. [Nate Tangersurat]
  - Updated doc string. [Doug Campbell]
  - Added jenkins s3 sync for foremast configs. [Doug Campbell]
  - Added most consts to config. [Doug Campbell]
  - Config loader is working as expected. [Doug Campbell]
  - Updated gitlab and slack token to use base config. [Doug Campbell]
  - Added config loader for a `~/foremast.cfg` file for gitlab and slack token. [Doug Campbell]
  - Updated readme, made better for general public. [Doug Campbell]
  - Fixed missing key error for policies in legacy ELB way. [Joel Vasallo]
  - Merge branch 'listenerpolicies' into 'master' [Sijis Aviles]
- Listenerpolicies
- This will resolve PSOBAT-2186.
- This enables setting of SSL Ciphers via code.
- See merge request !4
- Removed unneeded pprint statement. [Joel Vasallo]
  - Fixed issue where policy is not set foremast errors out. [Joel Vasallo]

- Added support for elb listener policies. [Joel Vasallo]
- Updated slacknotify and utils doc strings. [Doug Campbell]
- Updated doc strings for s3 and securitygroup. [Doug Campbell]
- Updated pipeline doc strings. [Doug Campbell]
- Updated iam and elb doc strings. [Doug Campbell]
- Updated configs and DNS doc strings. [Doug Campbell]
- Updated doc strings for scaling\_policies. [Doug Campbell]
- Updated doc strings for app package. [Doug Campbell]
- Changed gitlab ci config to master. [Doug Campbell]
- Updated app.\_\_main\_\_ docstring. [Doug Campbell]
- Added apidoc generation to gitlabci script. [Doug Campbell]
- Updated security group settings. [Doug Campbell]
- Fixed merge issue. [Doug Campbell]
- Merge branch 'docs' of git.gogoair.com:spinnaker/pipes into docs. [Doug Campbell]
- Removed key/block wording for clean up. [Doug Campbell]
- Changed block/key wording to test. [Doug Campbell]
- Added napoleon to sphinx configs. [Doug Campbell]
- Changed keys to be headers and reformatted everything. [Doug Campbell]
- Resolved all import issues. [Doug Campbell]
- Fixing moc imports. [Doug Campbell]
- Added docs to mock. [Doug Campbell]
- Added mocked imports. [Doug Campbell]
- Fixed typo in gitlab-ci. [Doug Campbell]
- Updated build script, new idea for pip. [Doug Campbell]
- Testing load path. [Doug Campbell]
- Added aws cp for pip config to gitlab ci. [Doug Campbell]
- Updated pip install in gitlab-ci config. [Doug Campbell]
- Updated gitignore and gitlab-ci config. [Doug Campbell]
- Changed branch to docs. [Doug Campbell]
- Added gitlab-ci runner for generating pages with docs. [Doug Campbell]
- Updated pipeline.json docs with new structure and literal include. [Doug Campbell]
- Added examples, changed formatting. [Doug Campbell]
- Generated all module docs. [Doug Campbell]
- Added foremast.app to test automodule features. [Doug Campbell]
- Started documenting details of config. [Doug Campbell]
- Added base for configuration files and getting started. [Doug Campbell]

- Started docs. [Doug Campbell]
- Restructured pipeline\_json to match app\_json. [Doug Campbell]
- Removed key/block wording for clean up. [Doug Campbell]
- Changed block/key wording to test. [Doug Campbell]
- Added napoleon to sphinx configs. [Doug Campbell]
- Changed keys to be headers and reformatted everything. [Doug Campbell]
- Resolved all import issues. [Doug Campbell]
- Fixing moc imports. [Doug Campbell]
- Added docs to mock. [Doug Campbell]
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- Fixed typo in gitlab-ci. [Doug Campbell]
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- Added foremast.app to test automodule features. [Doug Campbell]
- Started documenting details of config. [Doug Campbell]
- Added base for configuration files and getting started. [Doug Campbell]
- Started docs. [Doug Campbell]
- Fixed issue with service now stage order. [Doug Campbell]
- Added service now stage. [Doug Campbell]
- Raise SystemExit if REBUILD\_PROJECT is not present. [Sijis Aviles]
- Updated dsl.groovy to include rebuild job. [Doug Campbell]
- Added get\_all\_apps and ability to rebuild all pipelines. [Doug Campbell]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes into feature/asg\_policy. [Doug Campbell]
- Add ability to set TTL for created CNAME DNS record. [Sijis Aviles]
- Lowered the scale down threshold to 50 percent if the scale up threshold. [Fadi Almasri]
- Bug fixes for prepare\_policy\_template refactored code. [Fadi Almasri]
- Typo bug fix. [Fadi Almasri]
- Added scaledown policy logic. [Fadi Almasri]

- Merge branch 'feature/asg\_policy' of git.gogoair.com:spinnaker/pipes into feature/asg\_policy. [Doug Campbell]
- Added task checker to task posts. [Doug Campbell]
- Changed logic to delete all server groups before creating. [Doug Campbell]
- Working template. changed policy and alarm name. [Doug Campbell]
- Changed some autoscaling template variables around, trying to get everything lined up. [Doug Campbell]
- Updated template for autoscaling groups. [Doug Campbell]
- Updated policy name. [Doug Campbell]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes into feature/asg\_policy. [Doug Campbell]
- Updated renumerate to include scaling policy order. [Doug Campbell]
- Fixed comma typo and added better logging. [Doug Campbell]
- Added stage for updating scaling policy. [Doug Campbell]
- Changed period to minutes and added conversion. [Doug Campbell]
- Updated autoscaling template. [Doug Campbell]
- Updated template to have ARN, ran yapf. [Doug Campbell]
- Added scaling policy jobs to runway dsl. [Doug Campbell]
- Added default values, working commit. [Doug Campbell]
- Updated app\_name to app, added empty scaling policy continue logic. [Doug Campbell]
- All working, just need to figure out how to handle configs. [Doug Campbell]
- Fixed typos, it atleast runs now. [Doug Campbell]
- Fixed dictionary syntac. [Doug Campbell]
- More typo fixes. [Doug Campbell]
- Fixed import path typo. [Doug Campbell]
- Added endpoint to setup.py. [Doug Campbell]
- Updated runner to included scaling policy stuff. [Doug Campbell]
- Added autoscaling policy class and template. Needs testing and logging. [Doug Campbell]
- Added task checker to task posts. [Doug Campbell]
- Changed logic to delete all server groups before creating. [Doug Campbell]
- Working template. changed policy and alarm name. [Doug Campbell]
- Changed some autoscaling template variables around, trying to get everything lined up. [Doug Campbell]
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- Updated policy name. [Doug Campbell]
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- Fixed comma typo and added better logging. [Doug Campbell]
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- Updated autoscalling template. [Doug Campbell]
- Updated template to have ARN, ran yapf. [Doug Campbell]
- Added scaling policy jobs to runway dsl. [Doug Campbell]
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- All working, just need to figure out how to handle configs. [Doug Campbell]
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- More typo fixes. [Doug Campbell]
- Fixed import path typo. [Doug Campbell]
- Added endpoint to setup.py. [Doug Campbell]
- Updated runner to included scaling policy stuff. [Doug Campbell]
- Added autoscaling policy class and template. Needs testing and logging. [Doug Campbell]
- Updated log line to proper list name. [Joel Vasallo]
- Add test to validate json of templates. [Sijis Aviles]
- Always set templateFileName when baking. [Sijis Aviles]
- Remove condition for eureka flag. [Sijis Aviles]  
This isn't necessary as 'hc\_type' is exposed to user directly.
- Moved asg whitelist as a constant list instead of reading a file. [Sijis Aviles]
- Merge branch 'multi-cloud-env' into 'master' [Sijis Aviles]  
Added support for PRODP and PRODS CLOUD\_ENVIRONMENT variables
  - Enables support for \$CLOUD\_ENVIRONMENT\_P for NGINX configs and possibly use in tomcat as wellSee merge request !3
- Added support for CLOUD\_ENVIRONMENT\_C in userdata. [Joel Vasallo]
  - needed for references back to PROD from PRODP and PRODS
- Added support for PRODP and PRODS CLOUD\_ENVIRONMENT variables. [Joel Vasallo]
  - Enables support for \$CLOUD\_ENVIRONMENT\_P for NGINX configs and possibly use in tomcat as well
- Fixed invalid JSON Syntax in pipeline.json.j2. [Joel Vasallo]
- Added extra description of construct block and wrapper methods. [Sijis Aviles]

## v2.7.0 (2017-05-31)

- Bump to v2.7. [Sijis Aviles]
- Merge branch 'root-volume' [Sijis Aviles]
- Expose ability to update size of root volume on image. [Sijis Aviles]
- Added support for specifying root\_volume\_size. [Joel Vasallo]
- Increased healthcheck grace to 3 minutes. [Doug Campbell]

- Added condition to switch HC to EC2 in case there is “eureka\_enabled” in runway files. [Sibin Arsenijevic]

## v2.7 (2016-06-24)

- Bump to v2.7. [Sijis Aviles]
- Merge branch ‘root-volume’ [Sijis Aviles]
- Expose ability to update size of root volume on image. [Sijis Aviles]
- Added support for specifying root\_volume\_size. [Joel Vasallo]
- Increased healthcheck grace to 3 minutes. [Doug Campbell]
- Added condition to switch HC to EC2 in case there is “eureka\_enabled” in runway files. [Sibin Arsenijevic]

## v2.6.0 (2017-05-31)

- Updated version v2.6. [Sijis Aviles]
- Remove strings so its empty. [Sijis Aviles]
- Remove redundant check to set defaults. [Sijis Aviles]
- Add message when unable to decode a json file. [Sijis Aviles]
- Fixed template formate. [Doug Campbell]
- Added owner\_email field. [Jeff Lu]
- Fixed formatting issue. [Doug Campbell]
- Took out earlier changes. [Jeff Lu]
- Adds owner\_email to pipeline template. [Jeff Lu]
- Added better loggic for template processing. [Doug Campbell]
- Forgot comma. [Doug Campbell]
- Continuing to test templating logic. [Doug Campbell]
- Fixed issue with lenght in jinja2. [Doug Campbell]
- Added conditional in stage-deploy for interestingHealthProviderName. [Doug Campbell]
- Added documentation key to pipeline.json. [Doug Campbell]
- Docs: Copy releasing information. [Nate Tangersurat]

## v2.6 (2016-06-22)

### Fix

- Bring modules into package level. [Nate Tangersurat]
- Bring destroy functions up a few levels. [Nate Tangersurat]
- Remove trailing slash for DynamoDB Policy. [Nate Tangersurat]
- Use format string placeholder. [Nate Tangersurat]

See also: PSOBAT-1803

- Set banner logger to INFO. [Nate Tangersurat]  
See also: PSOBAT-1803
- Missing comma in arguments. [Nate Tangersurat]  
See also: PSOBAT-1803
- Squish string format down to one format. [Nate Tangersurat]  
See also: PSOBAT-1803
- Use empty string for string arguments. [Nate Tangersurat]  
See also: PSOBAT-1803
- Remove try, config defaults ensure key exists. [Nate Tangersurat]  
See also: PSOBAT-1803
- Saved configs needs to be deep merged version. [Nate Tangersurat]  
Returned data from `configs.process_git_configs()` is the contents of `pipeline.json` with some defaults. The full configuration after that has been overlayed on top of the default configuration template is from `configs.write_variables()`.  
See also: PSOBAT-1803
- Check GitLab token file exists. [Nate Tangersurat]  
See also: PSOBAT-1803
- Use path expansion. [Nate Tangersurat]
- Class should inherit from `object` [Nate Tangersurat]
- Class should inherit from `object` [Nate Tangersurat]
- Move properties fetching before dict. [Nate Tangersurat]
- Move timestamp before dict for insertion. [Nate Tangersurat]
- Resolve `message` variable missing error. [Nate Tangersurat]
- Convert comment to method. [Nate Tangersurat]
- Use different exception. [Nate Tangersurat]  
See also: PSOBAT-1538
- Calm the `full-destroy` logging a bit. [Nate Tangersurat]  
See also: PSOBAT-1538
- Handle `destroy-sg` boto3 AccessDenied error. [Nate Tangersurat]  
See also: PSOBAT-1538
- Ignore `destroy-iam` boto3 AccessDenied. [Nate Tangersurat]  
See also: PSOBAT-1538
- Remove SystemExit from `destroy-sg` [Nate Tangersurat]  
See also: PSOBAT-1538
- Ignore DNS AccessDenied destroy error. [Nate Tangersurat]  
See also: PSOBAT-1538

- Handle empty Gate response. [Nate Tangsurat]  
See also: PSOBAT-1538
- Ignore Security Group delete errors. [Nate Tangsurat]  
See also: PSOBAT-1538
- Ignore any SpinnakerError Exception. [Nate Tangsurat]  
See also: PSOBAT-1538
- Clean onetime Pipelines. [Nate Tangsurat]  
See also: PSOBAT-1559
- Handle Policy template with > 1 block. [Nate Tangsurat]  
For templates/iam/s3.json.j2, permissions were split out to two object blocks without enclosing list indicators. This adds brackets to what is most likely a list without brackets.  
See also: PSOBAT-1538
- Remove the entire section. [Nate Tangsurat]
- Remove downstream from *pipes-app* [Nate Tangsurat]  
Need to secure Git Pushes from changing things.
- Identify missing application.json error. [Nate Tangsurat]
- Use relative Bucket name. [Nate Tangsurat]  
Accidentally hardcoded Bucket name. Definitely needs to be dynamic.
- S3 directory access. [Nate Tangsurat]  
Only allow harmful actions in Application directory. Everything else is list only.  
See also: PSOBAT-1586
- If eureka is defined in settings, do not attach an elb. [Sijis Aviles]
- Pass asg subnet to pipeline in clusters section. [Sijis Aviles]

## Features

- Add banner painting utility. [Nate Tangsurat]
- Add banner painting utility. [Nate Tangsurat]
- Add *pipes-destroyer* Job. [Nate Tangsurat]  
See also: PSOBAT-1538
- Add *destroy.bash* script for Jenkins Job. [Nate Tangsurat]  
See also: PSOBAT-1538
- Add *full-destroy* command. [Nate Tangsurat]  
See also: PSOBAT-1538
- Add destroyer script. [Nate Tangsurat]  
See also: PSOBAT-1538



## Other

- Updated version v2.6. [Sijis Aviles]
- Remove strings so its empty. [Sijis Aviles]
- Remove redundant check to set defaults. [Sijis Aviles]
- Add message when unable to decode a json file. [Sijis Aviles]
- Fixed template formate. [Doug Campbell]
- Added owner\_email field. [Jeff Lu]
- Fixed formatting issue. [Doug Campbell]
- Took out earlier changes. [Jeff Lu]
- Adds owner\_email to pipeline template. [Jeff Lu]
- Added better logic for template processing. [Doug Campbell]
- Forgot comma. [Doug Campbell]
- Continuing to test templating logic. [Doug Campbell]
- Fixed issue with lenght in jinja2. [Doug Campbell]
- Added conditional in stage-deploy for interestingHealthProviderName. [Doug Campbell]
- Added documentation key to pipeline.json. [Doug Campbell]
- Docs: Copy releasing information. [Nate Tangsurat]
- V2.5. [Nate Tangsurat]
- Sending production notifications to a single channel. [Sijis Aviles]
- Changed redblack startegy to scale down to 0 instances. [Doug Campbell]
- Added appversion to inject build data into spinnaker. [Joel Vasallo]
- Forgot a comma, classic mistake. [Doug Campbell]
- Added deploy\_strategy to templates. [Doug Campbell]
- Fixed merge conflix with banner. [Doug Campbell]
- Updated jenkins jobs for new python runner. [Doug Campbell]
- Docs: Add foremast package docstring. [Nate Tangsurat]  
See also: PSOBAT-1803
- Refactor: Remove unused import. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Lazy logging. [Nate Tangsurat]  
See also: PSOBAT-1803
- Docs: Update docstrings. [Nate Tangsurat]  
See also: PSOBAT-1803

- Refactor: Remove unused import. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Use lazy logging format. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: More descriptive variable name. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Strip. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Sort console scripts. [Nate Tangsurat]  
See also: PSOBAT-1803
- Refactor: Remove unused variable. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Reflow TODO comment. [Nate Tangsurat]  
See also: PSOBAT-1803
- Docs: Remove example in favour of argparse help. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: isort. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Use empty strings for keyword arguments. [Nate Tangsurat]  
See also: PSOBAT-1803
- Docs: Update docstring. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Reflow comment. [Nate Tangsurat]  
See also: PSOBAT-1803

- Docs: Update docstring. [Nate Tangersurat]  
See also: PSOBAT-1803
- Style: isort, YAPF. [Nate Tangersurat]  
See also: PSOBAT-1803
- Refactor: Move method entry points to functions. [Nate Tangersurat]  
Keep the class pure operational calls and have the calling entry point functions tie the calls together.  
See also: PSOBAT-1803
- Refactor: Reuse keyword arguments. [Nate Tangersurat]  
See also: PSOBAT-1803
- Style: Collapse small method lines. [Nate Tangersurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangersurat]  
See also: PSOBAT-1803
- Refactor: Consolidate private token check. [Nate Tangersurat]  
See also: PSOBAT-1803
- Docs: Init has no arguments. [Nate Tangersurat]  
See also: PSOBAT-1803
- Style: Sort. [Nate Tangersurat]
- Style: Remove comment, code is clear enough. [Nate Tangersurat]
- Docs: Update docstrings. [Nate Tangersurat]
- Style: Breathing room. [Nate Tangersurat]
- Docs: Update docstrings. [Nate Tangersurat]
- Style: isort, YAPF. [Nate Tangersurat]
- Style: Remove extra EOF newline. [Nate Tangersurat]
- Style: Whitespace. [Nate Tangersurat]
- Docs: Update docstring. [Nate Tangersurat]
- Style: isort and YAPF. [Nate Tangersurat]
- Docs: Add docstrings. [Nate Tangersurat]
- Refactor: Remove unused dictionary. [Nate Tangersurat]
- Style: YAPF. [Nate Tangersurat]
- Style: isort. [Nate Tangersurat]
- Docs: Update docstring. [Nate Tangersurat]
- Refactor: Remove unused import. [Nate Tangersurat]
- Docs: Update docstrings. [Nate Tangersurat]
- Style: YAPF. [Nate Tangersurat]
- Style: isort. [Nate Tangersurat]

- Style: Fix whitespace. [Nate Tangsurat]
- Style: Sort. [Nate Tangsurat]
- Style: Strip, isort, YAPF. [Nate Tangsurat]
- Updated DSL for doug tests with python foremast. [Doug Campbell]
- Fixed banner print issue. [Doug Campbell]
- Fixed eureka keycheck error. [Doug Campbell]
- Working on eureka bug, added print statement to help in Jenkins build. [Doug Campbell]
- Bug with eureka naming. [Doug Campbell]
- Updated nates banner. [Doug Campbell]
- Updated dsl for testing. [Doug Campbell]
- Moved banner utils and fixed pylint issues. [Doug Campbell]
- Added endpoints for the runner, moved runner under foremaster. [Doug Campbell]
- Yapf formatted. [Doug Campbell]
- Removed old bash scripts for spinnaker setup. [Doug Campbell]
- Pipeline and app creating working, added banner. Still need to test infra builds. [Doug Campbell]
- Updated all classes and documentaiton for new python foremast runner changes. [Doug Campbell]
- Updated class calls for arguments. [Doug Campbell]
- Added most functions, still need to add pipeline one time. [Doug Campbell]
- Updated pipeline to work with new python foremast runner. [Doug Campbell]
- Refactored app pipes for new foremast runer. [Doug Campbell]
- Updated slacknotify to take args and not dict. [Doug Campbell]
- Changed DNS class structure, takes arguements instead of dict. [Doug Campbell]
- Refactored ELB to take direct arguments, not args obj. [Doug Campbell]
- Updated security groups to not expect args object, directly passes values. [Doug Campbell]
- Renamed foremast scripts to foremast-runner and started work on python. [Doug Campbell]
- Add missing trigger job variable. [Sijis Aviles]
- Update infra stage to reference proper jobname. [Sijis Aviles]
- Added a space for formating. [Doug Campbell]
- Reordered group and repo, bug. [Doug Campbell]
- Disabled slack notifications for now. [Doug Campbell]
- Updated dict to contain generated repo name. [Doug Campbell]
- Added infra template and updated pipeline templates. [Doug Campbell]
- Add missing token. [Sijis Aviles]
- Updated perms so its executable. [Sijis Aviles]
- Merge create-app and create pipeline into a single job. [Sijis Aviles]
- Add env and region parameters to prepare. [Sijis Aviles]

- Refactor: Remove unused imports. [Nate Tangsurat]  
See also: PSOBAT-1538
- Docs: Update *full-destroy* docstring. [Nate Tangsurat]  
See also: PSOBAT-1538
- Docs: INFO end of destruction. [Nate Tangsurat]  
See also: PSOBAT-1538
- Docs: INFO destroy loop. [Nate Tangsurat]  
See also: PSOBAT-1538
- Docs: DEBUG Gate response. [Nate Tangsurat]  
See also: PSOBAT-1538
- Disabled slack notification for team defined channels. This is noisy, will work on a better solution. [Doug Campbell]
- Clean up from bug fix. [Doug Campbell]
- Continued bug fix for slack post. [Doug Campbell]
- Bug fix for slack notify. [Doug Campbell]
- Bug fix for slack notify not finding channel. [Doug Campbell]
- Updated wording on slack template. [Doug Campbell]
- Updated utils to work for slack message. [Doug Campbell]
- Forgot self. [Doug Campbell]
- Added actual post message. [Doug Campbell]
- Fixed typo. [Doug Campbell]
- Added properties to slack. [Doug Campbell]
- Fixed config commit issue. [Doug Campbell]
- Renamed module and fixed setup issue. [Doug Campbell]
- Added slack notify to foremast.bash. [Doug Campbell]
- Added slack notification script and templates. [Doug Campbell]
- Fix syntax error so parameter is read. [Sijis Aviles]
- Style: isort, YAPF. [Nate Tangsurat]  
See also: PSOBAT-1559
- Docs: Update docstrings. [Nate Tangsurat]  
See also: PSOBAT-1559
- Remove remnant debug statements. [Sijis Aviles]
- Rename to more appropriate SpinnakerPipelineOnetime. [Sijis Aviles]
- Set flag to onetime instead of a combination of env and manual. [Sijis Aviles]
- Remove env check. [Sijis Aviles]  
The check was moved to `__main__` as that is where we separate where manual/onetime deployment pipelines are created

- Remove parameter in add\_env. [Sijis Aviles]
- Refactor: Remove unused imports. [Nate Tansurat]  
See also: PSOBAT-1559
- Remove lingering print() [Sijis Aviles]
- Add SpinnakerPipelineManual class. [Sijis Aviles]
- Enable manual pipeline. [Sijis Aviles]
- Add env argument to pipeline creation. [Sijis Aviles]
- Add onetime jenkins job. [Sijis Aviles]
- Added bash flags. [Doug Campbell]
- Added gitlab member checking functionality. [Doug Campbell]
- Bugfix: Ensure data is not modifying global settings scope. [Sijis Aviles]
- Setting proper value for isInternal so ELBs are created properly. [Sijis Aviles]
- Changed judgement steps not to fail builds by default. [Sibin Arsenijevic]
- Update dev\_asg\_whitelist. [Fadi Almasri]
- Merge branch 'dev\_asg\_restriction' into 'master' [Fadi Almasri]

Dev asg restriction

3 main changes: - if your app is not whitelisted you get only 1 instance in DEV. - changed the tag 'Name' to 'app\_name' to match with cloudhealth reporting. - changed health check type to EC2 instead of ELB in dev

See merge request !1

- Update dev\_asg\_whitelist. [Fadi Almasri]
- Still fixing the path issue. [Fadi Almasri]
- The path bug fix didn't work, here's another bug fix. [Fadi Almasri]
- Added the asg whitelist file name to the path. [Fadi Almasri]
- Need to import os now. [Fadi Almasri]
- Fixed a relative path issue, one more time. [Fadi Almasri]
- Fixed a relative path issue. [Fadi Almasri]
- Added a missing comma. [Fadi Almasri]
- Fixed tags minor issue. [Fadi Almasri]
- Changed default health check type in dev to EC2. [Fadi Almasri]
- Added dev asg white list logic. [Fadi Almasri]
- Set backing stage for 15 minutes. [Sijis Aviles]
- Add ability to add a provider healthcheck. [Sijis Aviles]
- Allow ability to modify health check type for ASG. [Sijis Aviles]

## v2.5.0 (2017-05-31)

### Fix

- Bring modules into package level. [Nate Tangersurat]
- Bring destroy functions up a few levels. [Nate Tangersurat]
- Remove trailing slash for DynamoDB Policy. [Nate Tangersurat]
- Use format string placeholder. [Nate Tangersurat]

See also: PSOBAT-1803

- Set banner logger to INFO. [Nate Tangersurat]

See also: PSOBAT-1803

- Missing comma in arguments. [Nate Tangersurat]

See also: PSOBAT-1803

- Squish string format down to one format. [Nate Tangersurat]

See also: PSOBAT-1803

- Use empty string for string arguments. [Nate Tangersurat]

See also: PSOBAT-1803

- Remove try, config defaults ensure key exists. [Nate Tangersurat]

See also: PSOBAT-1803

- Saved configs needs to be deep merged version. [Nate Tangersurat]

Returned data from *configs.process\_git\_configs()* is the contents of *pipeline.json* with some defaults. The full configuration after that has been overlayed on top of the default configuration template is from *configs.write\_variables()*.

See also: PSOBAT-1803

- Check GitLab token file exists. [Nate Tangersurat]

See also: PSOBAT-1803

- Use path expansion. [Nate Tangersurat]

- Class should inherit from *object* [Nate Tangersurat]

- Class should inherit from *object* [Nate Tangersurat]

- Move properties fetching before dict. [Nate Tangersurat]

- Move timestamp before dict for insertion. [Nate Tangersurat]

- Resolve *message* variable missing error. [Nate Tangersurat]

- Convert comment to method. [Nate Tangersurat]

- Use different exception. [Nate Tangersurat]

See also: PSOBAT-1538

- Calm the *full-destroy* logging a bit. [Nate Tangersurat]

See also: PSOBAT-1538

- Handle *destroy-sg* boto3 AccessDenied error. [Nate Tangsurat]  
See also: PSOBAT-1538
- Ignore *destroy-iam* boto3 AccessDenied. [Nate Tangsurat]  
See also: PSOBAT-1538
- Remove SystemExit from *destroy-sg* [Nate Tangsurat]  
See also: PSOBAT-1538
- Ignore DNS AccessDenied destroy error. [Nate Tangsurat]  
See also: PSOBAT-1538
- Handle empty Gate response. [Nate Tangsurat]  
See also: PSOBAT-1538
- Ignore Security Group delete errors. [Nate Tangsurat]  
See also: PSOBAT-1538
- Ignore any SpinnakerError Exception. [Nate Tangsurat]  
See also: PSOBAT-1538
- Clean onetime Pipelines. [Nate Tangsurat]  
See also: PSOBAT-1559
- Handle Policy template with > 1 block. [Nate Tangsurat]  
For templates/iam/s3.json.j2, permissions were split out to two object blocks without enclosing list indicators. This adds brackets to what is most likely a list without brackets.  
See also: PSOBAT-1538
- Remove the entire section. [Nate Tangsurat]
- Remove downstream from *pipes-app* [Nate Tangsurat]  
Need to secure Git Pushes from changing things.
- Identify missing application.json error. [Nate Tangsurat]
- Use relative Bucket name. [Nate Tangsurat]  
Accidentally hardcoded Bucket name. Definitely needs to be dynamic.
- S3 directory access. [Nate Tangsurat]  
Only allow harmful actions in Application directory. Everything else is list only.  
See also: PSOBAT-1586
- If eureka is defined in settings, do not attach an elb. [Sijis Aviles]
- Pass asg subnet to pipeline in clusters section. [Sijis Aviles]

## Features

- Add banner painting utility. [Nate Tangsurat]
- Add banner painting utility. [Nate Tangsurat]



- Add *pipes-destroyer* Job. [Nate Tangsurat]  
See also: PSOBAT-1538
- Add *destroy.bash* script for Jenkins Job. [Nate Tangsurat]  
See also: PSOBAT-1538
- Add *full-destroy* command. [Nate Tangsurat]  
See also: PSOBAT-1538
- Add *destroyer* script. [Nate Tangsurat]  
See also: PSOBAT-1538

## Other

- V2.5. [Nate Tangsurat]
- Sending production notifications to a single channel. [Sijis Aviles]
- Changed redblack startegy to scale down to 0 instances. [Doug Campbell]
- Added appversion to inject build data into spinnaker. [Joel Vasallo]
- Forgot a comma, classic mistake. [Doug Campbell]
- Added `deploy_strategy` to templates. [Doug Campbell]
- Fixed merge conflix with banner. [Doug Campbell]
- Updated jenkins jobs for new python runner. [Doug Campbell]
- Docs: Add foremast package docstring. [Nate Tangsurat]  
See also: PSOBAT-1803
- Refactor: Remove unused import. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Lazy logging. [Nate Tangsurat]  
See also: PSOBAT-1803
- Docs: Update docstrings. [Nate Tangsurat]  
See also: PSOBAT-1803
- Refactor: Remove unused import. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Use lazy logging format. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: More descriptive variable name. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Strip. [Nate Tangsurat]  
See also: PSOBAT-1803

- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Sort console scripts. [Nate Tangsurat]  
See also: PSOBAT-1803
- Refactor: Remove unused variable. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Reflow TODO comment. [Nate Tangsurat]  
See also: PSOBAT-1803
- Docs: Remove example in favour of argparse help. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: isort. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Use empty strings for keyword arguments. [Nate Tangsurat]  
See also: PSOBAT-1803
- Docs: Update docstring. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: Reflow comment. [Nate Tangsurat]  
See also: PSOBAT-1803
- Docs: Update docstring. [Nate Tangsurat]  
See also: PSOBAT-1803
- Style: isort, YAPF. [Nate Tangsurat]  
See also: PSOBAT-1803
- Refactor: Move method entry points to functions. [Nate Tangsurat]  
Keep the class pure operational calls and have the calling entry point functions tie the calls together.  
See also: PSOBAT-1803

- Refactor: Reuse keyword arguments. [Nate Tangersurat]  
See also: PSOBAT-1803
- Style: Collapse small method lines. [Nate Tangersurat]  
See also: PSOBAT-1803
- Style: YAPF. [Nate Tangersurat]  
See also: PSOBAT-1803
- Refactor: Consolidate private token check. [Nate Tangersurat]  
See also: PSOBAT-1803
- Docs: Init has no arguments. [Nate Tangersurat]  
See also: PSOBAT-1803
- Style: Sort. [Nate Tangersurat]
- Style: Remove comment, code is clear enough. [Nate Tangersurat]
- Docs: Update docstrings. [Nate Tangersurat]
- Style: Breathing room. [Nate Tangersurat]
- Docs: Update docstrings. [Nate Tangersurat]
- Style: isort, YAPF. [Nate Tangersurat]
- Style: Remove extra EOF newline. [Nate Tangersurat]
- Style: Whitespace. [Nate Tangersurat]
- Docs: Update docstring. [Nate Tangersurat]
- Style: isort and YAPF. [Nate Tangersurat]
- Docs: Add docstrings. [Nate Tangersurat]
- Refactor: Remove unused dictionary. [Nate Tangersurat]
- Style: YAPF. [Nate Tangersurat]
- Style: isort. [Nate Tangersurat]
- Docs: Update docstring. [Nate Tangersurat]
- Refactor: Remove unused import. [Nate Tangersurat]
- Docs: Update docstrings. [Nate Tangersurat]
- Style: YAPF. [Nate Tangersurat]
- Style: isort. [Nate Tangersurat]
- Style: Fix whitespace. [Nate Tangersurat]
- Style: Sort. [Nate Tangersurat]
- Style: Strip, isort, YAPF. [Nate Tangersurat]
- Updated DSL for doug tests with python foremast. [Doug Campbell]
- Fixed banner print issue. [Doug Campbell]
- Fixed eureka keycheck error. [Doug Campbell]
- Working on eureka bug, added print statement to help in Jenkins build. [Doug Campbell]

- Bug with eureka naming. [Doug Campbell]
- Updated nates banner. [Doug Campbell]
- Updated dsl for testing. [Doug Campbell]
- Moved banner utils and fixed pylint issues. [Doug Campbell]
- Added endpoints for the runner, moved runner under foremaster. [Doug Campbell]
- Yapf formatted. [Doug Campbell]
- Removed old bash scripts for spinnaker setup. [Doug Campbell]
- Pipeline and app creating working, added banner. Still need to test infra builds. [Doug Campbell]
- Updated all classes and documentaiton for new python foremast runner changes. [Doug Campbell]
- Updated class calls for arguments. [Doug Campbell]
- Added most functions, still need to add pipeline one time. [Doug Campbell]
- Updated pipeline to work with new python foremast runner. [Doug Campbell]
- Refactored app pipes for new foremast runer. [Doug Campbell]
- Updated slacknotify to take args and not dict. [Doug Campbell]
- Changed DNS class structure, takes arguements instead of dict. [Doug Campbell]
- Refactored ELB to take direct arguments, not args obj. [Doug Campbell]
- Updated security groups to not expect args object, directly passes values. [Doug Campbell]
- Renamed foremast scripts to foremast-runner and started work on python. [Doug Campbell]
- Add missing trigger job variable. [Sijis Aviles]
- Update infra stage to reference proper jobname. [Sijis Aviles]
- Added a space for formating. [Doug Campbell]
- Reordered group and repo, bug. [Doug Campbell]
- Disabled slack notifications for now. [Doug Campbell]
- Updated dict to contain generated repo name. [Doug Campbell]
- Added infra template and updated pipeline templates. [Doug Campbell]
- Add missing token. [Sijis Aviles]
- Updated perms so its executable. [Sijis Aviles]
- Merge create-app and create pipeline into a single job. [Sijis Aviles]
- Add env and region parameters to prepare. [Sijis Aviles]
- Refactor: Remove unused imports. [Nate Tangsurat]  
See also: PSOBAT-1538
- Docs: Update *full-destroy* docstring. [Nate Tangsurat]  
See also: PSOBAT-1538
- Docs: INFO end of destruction. [Nate Tangsurat]  
See also: PSOBAT-1538

- Docs: INFO destroy loop. [Nate Tangsurat]  
See also: PSOBAT-1538
- Docs: DEBUG Gate response. [Nate Tangsurat]  
See also: PSOBAT-1538
- Disabled slack notification for team defined channels. This is noisy, will work on a better solution. [Doug Campbell]
- Clean up from bug fix. [Doug Campbell]
- Continued bug fix for slack post. [Doug Campbell]
- Bug fix for slack notify. [Doug Campbell]
- Bug fix for slack notify not finding channel. [Doug Campbell]
- Updated wording on slack template. [Doug Campbell]
- Updated utils to work for slack message. [Doug Campbell]
- Forgot self. [Doug Campbell]
- Added actual post message. [Doug Campbell]
- Fixed typo. [Doug Campbell]
- Added properties to slack. [Doug Campbell]
- Fixed config commit issue. [Doug Campbell]
- Renamed module and fixed setup issue. [Doug Campbell]
- Added slack notify to foremast.bash. [Doug Campbell]
- Added slack notification script and templates. [Doug Campbell]
- Fix syntax error so parameter is read. [Sijis Aviles]
- Style: isort, YAPF. [Nate Tangsurat]  
See also: PSOBAT-1559
- Docs: Update docstrings. [Nate Tangsurat]  
See also: PSOBAT-1559
- Remove remnant debug statements. [Sijis Aviles]
- Rename to more appropriate SpinnakerPipelineOnetime. [Sijis Aviles]
- Set flag to onetime instead of a combination of env and manual. [Sijis Aviles]
- Remove env check. [Sijis Aviles]  
The check was moved to `__main__` as that is where we separate where manual/onetime deployment pipelines are created
- Remove parameter in `add_env`. [Sijis Aviles]
- Refactor: Remove unused imports. [Nate Tangsurat]  
See also: PSOBAT-1559
- Remove lingering `print()` [Sijis Aviles]
- Add `SpinnakerPipelineManual` class. [Sijis Aviles]
- Enable manual pipeline. [Sijis Aviles]

- Add env argument to pipeline creation. [Sijis Aviles]
- Add onetime jenkins job. [Sijis Aviles]
- Added bash flags. [Doug Campbell]
- Added gitlab member checking functionality. [Doug Campbell]
- Bugfix: Ensure data is not modifying global settings scope. [Sijis Aviles]
- Setting proper value for isInternal so ELBs are created properly. [Sijis Aviles]
- Changed judgement steps not to fail builds by default. [Sibin Arsenijevic]
- Update dev\_asg\_whitelist. [Fadi Almasri]
- Merge branch 'dev\_asg\_restriction' into 'master' [Fadi Almasri]

Dev asg restriction

3 main changes: - if your app is not whitelisted you get only 1 instance in DEV. - changed the tag 'Name' to 'app\_name' to match with cloudhealth reporting. - changed health check type to EC2 instead of ELB in dev

See merge request !1

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- Still fixing the path issue. [Fadi Almasri]
- The path bug fix didn't work, here's another bug fix. [Fadi Almasri]
- Added the asg whitelist file name to the path. [Fadi Almasri]
- Need to import os now. [Fadi Almasri]
- Fixed a relative path issue, one more time. [Fadi Almasri]
- Fixed a relative path issue. [Fadi Almasri]
- Added a missing comma. [Fadi Almasri]
- Fixed tags minor issue. [Fadi Almasri]
- Changed default health check type in dev to EC2. [Fadi Almasri]
- Added dev asg white list logic. [Fadi Almasri]
- Set backing stage for 15 minutes. [Sijis Aviles]
- Add ability to add a provider healthcheck. [Sijis Aviles]
- Allow ability to modify health check type for ASG. [Sijis Aviles]

## v2.4.0 (2017-05-31)

### Features

- Add *destroy-dns* command. [Nate Tangsurat]  
See also: PSOBAT-1535
- Add util for getting DNS Zone IDs. [Nate Tangsurat]  
See also: PSOBAT-1535

## Other

- V2.4. [Nate Tangsurat]

## v2.4 (2016-05-17)

### Features

- Add *destroy-dns* command. [Nate Tangsurat]  
See also: PSOBAT-1535
- Add util for getting DNS Zone IDs. [Nate Tangsurat]  
See also: PSOBAT-1535

## Other

- V2.4. [Nate Tangsurat]

## v2.3.0 (2017-05-31)

### Fix

- ELB arguments replaced by default configs. [Nate Tangsurat]  
See also: PSOBAT-1534

## Other

- V2.3. [Nate Tangsurat]
- Style: Use newlines for easier to read INFO. [Nate Tangsurat]  
See also: PSOBAT-1534

## v2.3 (2016-05-12)

### Fix

- ELB arguments replaced by default configs. [Nate Tangsurat]  
See also: PSOBAT-1534

## Other

- V2.3. [Nate Tangsurat]
- Style: Use newlines for easier to read INFO. [Nate Tangsurat]  
See also: PSOBAT-1534

## v2.2.0 (2017-05-31)

### Features

- Add *destroy-elb* command. [Nate Tangsurat]  
See also: PSOBAT-1534

### Other

- V2.2. [Nate Tangsurat]
- Chore: Remove unused comment. [Nate Tangsurat]  
See also: PSOBAT-1534
- Reformatted how security group is constructed. [Sijis Aviles]
- Fix linting warning. [Sijis Aviles]
- Use utils *get\_properties*. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Docs: Improve help for *create-iam* [Nate Tangsurat]
- Add ability to set security groups on instances. [Sijis Aviles]
- Use *get\_properties* util to get properties content. [Sijis Aviles]
- Send complete file if no environment is specified. [Sijis Aviles]
- Added build as an accepted environment. [Doug Campbell]
- Update warning message to be more clear. [Sijis Aviles]

## v2.2 (2016-05-12)

### Features

- Add *destroy-elb* command. [Nate Tangsurat]  
See also: PSOBAT-1534

### Other

- V2.2. [Nate Tangsurat]
- Chore: Remove unused comment. [Nate Tangsurat]  
See also: PSOBAT-1534
- Reformatted how security group is constructed. [Sijis Aviles]
- Fix linting warning. [Sijis Aviles]
- Use utils *get\_properties*. [Sijis Aviles]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Docs: Improve help for *create-iam* [Nate Tangsurat]



- Add ability to set security groups on instances. [Sijis Aviles]
- Use `get_properties` util to get properties content. [Sijis Aviles]
- Send complete file if no environment is specified. [Sijis Aviles]
- Added build as an accepted environment. [Doug Campbell]
- Update warning message to be more clear. [Sijis Aviles]

## v2.1.0 (2017-05-31)

### Fix

- Remove unused properties argument. [Nate Tangersurat]  
See also: PSOBAT-1533
- Store HTTP verb as class attribute. [Nate Tangersurat]  
See also: PSOBAT-1533

### Features

- Add `destroy-sg` command. [Nate Tangersurat]  
See also: PSOBAT-1533
- Add Gate API interface. [Nate Tangersurat]  
See also: PSOBAT-1533

### Other

- V2.1. [Nate Tangersurat]
- Docs: Expand on `Gate()` docstring. [Nate Tangersurat]  
See also: PSOBAT-1533

## v2.1 (2016-05-11)

### Fix

- Remove unused properties argument. [Nate Tangersurat]  
See also: PSOBAT-1533
- Store HTTP verb as class attribute. [Nate Tangersurat]  
See also: PSOBAT-1533

## Features

- Add *destroy-sg* command. [Nate Tangsurat]  
See also: PSOBAT-1533
- Add Gate API interface. [Nate Tangsurat]  
See also: PSOBAT-1533

## Other

- V2.1. [Nate Tangsurat]
- Docs: Expand on Gate() docstring. [Nate Tangsurat]  
See also: PSOBAT-1533

## v2.0.0 (2017-05-31)

### Fix

- Singular file name `get_env_credentials.py`. [Nate Tangsurat]  
See also: PSOBAT-1544
- Do not attach 2 125GB volumes to each deploy. [Sijis Aviles]  
The default setup for spinnaker is to attach 2 12GB volumes to each deployment. In our case, this is unnecessary and overkill.  
Related spinnaker bug: <https://github.com/spinnaker/spinnaker/issues/721>
- Use Region for boto3 EC2 clients. [Nate Tangsurat]
- Stringify error to get message. [Nate Tangsurat]  
See also: PSOBAT-1528
- Verbose DEBUG statements. [Nate Tangsurat]  
See also: PSOBAT-1528

## Features

- Generate ELB SSL certificate ARN. [Nate Tangsurat]  
When a *certificate* has been specified for an ELB port, the name will be formatted into a fully qualified ARN with the Account number for the given Environment.  
See also: PSOBAT-1544
- Add *destroy-s3* command. [Nate Tangsurat]  
See also: PSOBAT-1532

## Other

- V2.0. [Nate Tansurat]
- Docs: Missing default from docstring. [Nate Tansurat]  
See also: PSOBAT-1544
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Chore: TODO to retry DNS boto3 call. [Nate Tansurat]
- Merge branch 'master' of github.com:gogoair/foremast. [Doug Campbell]
- Fixed bug with tagging group name, sorry for all the commits to master. [Doug Campbell]
- Testing bug with templates. [Doug Campbell]
- Better logging. [Doug Campbell]
- Fixed groupname tag for instances. [Doug Campbell]
- Merge branch 'master' of github.com:gogoair/foremast. [Doug Campbell]
- Merge branch 'feature/security\_group\_cidr' [Sijis Aviles]
- Add warning to user about older security groups. [Sijis Aviles]
- Docs: Fix example, protocol is TCP or UDP. [Nate Tansurat]  
See also: PSOBAT-1528
- Docs: Add Security Group example. [Nate Tansurat]  
See also: PSOBAT-1528
- Style: Avoid \* imports and YAPF. [Nate Tansurat]  
See also: PSOBAT-1528
- Style: Format strings should reference index. [Nate Tansurat]  
See also: PSOBAT-1528
- Style: YAPF. [Nate Tansurat]  
See also: PSOBAT-1528
- Style: Avoid variable reuse. [Nate Tansurat]  
Use more verbose variable name and avoid hidden issues when reusing variables.  
See also: PSOBAT-1528
- Docs: Enrich docstrings. [Nate Tansurat]  
See also: PSOBAT-1528
- Add cidr rules to existing security group. [Sijis Aviles]  
Spinnaker does not natively allow cidr to be specified, so this is using aws api directly to add that functionality.
- Fix pep8 warnings. [Sijis Aviles]
- Add util to get the id of a security group. [Sijis Aviles]
- Add generic security group exception. [Sijis Aviles]
- Add cidr functionality and validation. [Sijis Aviles]
- Fix logging. [Sijis Aviles]

- Added append for securitygroups.elb\_extras. [Doug Campbell]
- Removed elb sg arg and added app sg. [Doug Campbell]

## v2.0 (2016-05-11)

### Fix

- Singular file name `get_env_credentials.py`. [Nate Tangersurat]  
See also: PSOBAT-1544
- Do not attach 2 125GB volumes to each deploy. [Sijis Aviles]  
The default setup for spinnaker is to attach 2 12GB volumes to each deployment. In our case, this is unnecessary and overkill.  
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- Stringify error to get message. [Nate Tangersurat]  
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### Features

- Generate ELB SSL certificate ARN. [Nate Tangersurat]  
When a *certificate* has been specified for an ELB port, the name will be formatted into a fully qualified ARN with the Account number for the given Environment.  
See also: PSOBAT-1544
- Add *destroy-s3* command. [Nate Tangersurat]  
See also: PSOBAT-1532

### Other

- V2.0. [Nate Tangersurat]
- Docs: Missing default from docstring. [Nate Tangersurat]  
See also: PSOBAT-1544
- Merge branch 'master' of `git.gogoair.com:spinnaker/pipes`. [Sijis Aviles]
- Chore: TODO to retry DNS boto3 call. [Nate Tangersurat]
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- Testing bug with templates. [Doug Campbell]
- Better logging. [Doug Campbell]
- Fixed groupname tag for instances. [Doug Campbell]

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- Merge branch 'feature/security\_group\_cidr' [Sijis Aviles]
- Add warning to user about older security groups. [Sijis Aviles]
- Docs: Fix example, protocol is TCP or UDP. [Nate Tangersurat]  
See also: PSOBAT-1528
- Docs: Add Security Group example. [Nate Tangersurat]  
See also: PSOBAT-1528
- Style: Avoid \* imports and YAPF. [Nate Tangersurat]  
See also: PSOBAT-1528
- Style: Format strings should reference index. [Nate Tangersurat]  
See also: PSOBAT-1528
- Style: YAPF. [Nate Tangersurat]  
See also: PSOBAT-1528
- Style: Avoid variable reuse. [Nate Tangersurat]  
Use more verbose variable name and avoid hidden issues when reusing variables.  
See also: PSOBAT-1528
- Docs: Enrich docstrings. [Nate Tangersurat]  
See also: PSOBAT-1528
- Add cidr rules to existing security group. [Sijis Aviles]  
Spinnaker does not natively allow cidr to be specified, so this is using aws api directly to add that functionality.
- Fix pep8 warnings. [Sijis Aviles]
- Add util to get the id of a security group. [Sijis Aviles]
- Add generic security group exception. [Sijis Aviles]
- Add cidr functionality and validation. [Sijis Aviles]
- Fix logging. [Sijis Aviles]
- Added append for securitygroups.elb\_extras. [Doug Campbell]
- Removed elb sg arg and added app sg. [Doug Campbell]

## v1.8.0 (2017-05-31)

### Fix

- Forgot \_\_init\_\_ [Nate Tangersurat]  
See also: PSOBAT-1531

### Other

- V1.8. [Nate Tangersurat]

## v1.8 (2016-05-10)

### Fix

- Forgot `__init__` [Nate Tangersurat]  
See also: PSOBAT-1531

### Other

- V1.8. [Nate Tangersurat]

## v1.7.0 (2017-05-31)

### Fix

- Remove intermediary log message prefix. [Nate Tangersurat]  
See also: PSOBAT-1531
- WARNING when no environment settings found. [Nate Tangersurat]  
See also: PSOBAT-1482
- Handle no “services” in pipeline.json. [Nate Tangersurat]  
See also: PSOBAT-1482
- Restrict S3 access to read only. [Nate Tangersurat]  
See also: PSOBAT-1482
- Remove unused import. [Nate Tangersurat]
- Remove one more argument. [Nate Tangersurat]  
See also: PSOBAT-1444
- Remove more deprecated arguments. [Nate Tangersurat]  
See also: PSOBAT-1444
- Remove extra `create-elb` argument. [Nate Tangersurat]  
See also: PSOBAT-1444
- Add default null certificate to old configs. [Nate Tangersurat]  
See also: PSOBAT-1444
- Remove extra JSON dumps/loads. [Nate Tangersurat]  
See also: PSOBAT-1444
- INFO each ELB Listener found. [Nate Tangersurat]  
See also: PSOBAT-1444
- Remove unused import. [Nate Tangersurat]  
See also: PSOBAT-1444

- Add default ELB protocols at template level. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use Health Check target from properties. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use subnet purose from properties. [Nate Tangsurat]  
See also: PSOBAT-1444
- Remove unused arguments. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use properties to fill in ELB Listeners. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use *create-configs* output for properties. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use correct generic custom Base OS. [Nate Tangsurat]  
See also: PSOBAT-1468
- Use Base OS “other” [Nate Tangsurat]  
See also: PSOBAT-1468

## Features

- Add *destroy-iam* command. [Nate Tangsurat]  
See also: PSOBAT-1531
- Delete IAM Resources function. [Nate Tangsurat]  
See also: PSOBAT-1531
- Add inline IAM Policy to Role. [Nate Tangsurat]  
Based on *pipeline.json* **services** key, an inline Policy will be attached to the IAM Role.  
See also: PSOBAT-1482
- Construct IAM Policies. [Nate Tangsurat]  
See also: PSOBAT-1482

## Other

- V1.7. [Nate Tangsurat]
- Chore: Remove configurations in favour of consts. [Nate Tangsurat]
- Refactor: Unpack to keywords directly. [Nate Tangsurat]
- Style: Sort *add\_\**() functions. [Nate Tangsurat]
- Refactor: Use *add\_gitlab\_token()* [Nate Tangsurat]
- Refactor: Use *add\_properties()* [Nate Tangsurat]
- Refactor: Use *add\_region()* [Nate Tangsurat]

- Refactor: Use `add_env()` [Nate Tangsurat]
- Refactor: Switch to `add_app()` [Nate Tangsurat]
- Refactor: Pull out available environments. [Nate Tangsurat]  
See also: PSOBAT-1531
- Refactor: Pull out arguments for reuse. [Nate Tangsurat]  
See also: PSOBAT-1531
- Refactor: Pull out `resource_action()` for reuse. [Nate Tangsurat]  
See also: PSOBAT-1531
- Tests: `construct_policy()` can return `None`. [Nate Tangsurat]  
See also: PSOBAT-1482
- Tests: Test IAM Policy with no “services” [Nate Tangsurat]  
See also: PSOBAT-1482
- Chore: Add TODO for more IAM Policy testing. [Nate Tangsurat]  
See also: PSOBAT-1482
- Docs: Fix example of services for IAM Policies. [Nate Tangsurat]  
See also: PSOBAT-1482
- Tests: Fix S3 Policy test. [Nate Tangsurat]  
See also: PSOBAT-1482
- Merge branch ‘features/security\_group’ [Sijis Aviles]
- Ensure the advanced style is a list. [Sijis Aviles]  
This handles situations where an application has multiple ports defined but they are different protocols
- Add `apps_all` to default security group. [Sijis Aviles]
- Handle older published securitygroup format. [Sijis Aviles]  
We essentially have two security group formats: - simple: just a list of ports  

```
{ ‘ingress’: { ‘app’: [1,2,3,4] }}
```

  - advanced: ports ranges { ‘ingress’: { ‘app’: { ‘start\_port’: 1, ‘end\_port’: 10, ‘protocol’: ‘udp’ } } }
- Split ports into separate distinct keys. [Sijis Aviles]
- Use given description for security group. [Sijis Aviles]
- Update security group based on property file values. [Sijis Aviles]
- Add a properties file parameter for securitygroup. [Sijis Aviles]
- Add `get_properties` util method. [Sijis Aviles]
- Forgot a comma. [Doug Campbell]
- More typo fixes. [Doug Campbell]
- Fixed json typo. [Doug Campbell]
- Added notification to templates. [Doug Campbell]
- Set healthcheck grace period to 5 minutes. [Sijis Aviles]



- Removed bypassing elb health check amazon stuff. [Doug Campbell]
- Updated jenkins job name for audit-approval. [Doug Campbell]
- Fixed audit-approval json to fail properly and added a stage comment. [Doug Campbell]
- Changed log-deployment to audit approval and fixed remunerate to work with it. [Doug Campbell]
- Tests: Make sure 'ports' key overrides. [Nate Tangersurat]  
See also: PSOBAT-1444
- Tests: Remove unneeded key by key comparison. [Nate Tangersurat]  
See also: PSOBAT-1444
- Tests: Add test for format\_listeners() [Nate Tangersurat]  
See also: PSOBAT-1444
- Tests: Update splay\_health() test to new module. [Nate Tangersurat]
- Refactor: Extract reused ELB settings lookup. [Nate Tangersurat]  
See also: PSOBAT-1444
- Docs: Update format\_listeners() docstring example. [Nate Tangersurat]  
See also: PSOBAT-1444
- Refactor: Separate out Listener reading logic. [Nate Tangersurat]  
See also: PSOBAT-1444
- Style: Prettify and sort. [Nate Tangersurat]  
See also: PSOBAT-1444
- Refactor: Move splay\_health() into file. [Nate Tangersurat]  
See also: PSOBAT-1444

## **v1.7 (2016-05-10)**

- V1.7. [Nate Tangersurat]

## **v1.6 (2016-05-10)**

- Chore: Remove configurations in favour of consts. [Nate Tangersurat]
- Refactor: Unpack to keywords directly. [Nate Tangersurat]

## **v1.5 (2016-05-10)**

- Style: Sort add\_\*( ) functions. [Nate Tangersurat]
- Refactor: Use add\_gitlab\_token() [Nate Tangersurat]
- Refactor: Use add\_properties() [Nate Tangersurat]
- Refactor: Use add\_region() [Nate Tangersurat]
- Refactor: Use add\_env() [Nate Tangersurat]

- Refactor: Switch to `add_app()` [Nate Tangersurat]

## v1.4 (2016-05-10)

### Fix

- Remove intermediary log message prefix. [Nate Tangersurat]  
See also: PSOBAT-1531

### Features

- Add `destroy-iam` command. [Nate Tangersurat]  
See also: PSOBAT-1531
- Delete IAM Resources function. [Nate Tangersurat]  
See also: PSOBAT-1531

### Other

- Refactor: Pull out available environments. [Nate Tangersurat]  
See also: PSOBAT-1531
- Refactor: Pull out arguments for reuse. [Nate Tangersurat]  
See also: PSOBAT-1531
- Refactor: Pull out `resource_action()` for reuse. [Nate Tangersurat]  
See also: PSOBAT-1531

## v1.3 (2016-05-09)

### Fix

- WARNING when no environment settings found. [Nate Tangersurat]  
See also: PSOBAT-1482
- Handle no “services” in `pipeline.json`. [Nate Tangersurat]  
See also: PSOBAT-1482
- Restrict S3 access to read only. [Nate Tangersurat]  
See also: PSOBAT-1482
- Remove unused import. [Nate Tangersurat]

## Features

- Add inline IAM Policy to Role. [Nate Tangersurat]  
Based on *pipeline.json* **services** key, an inline Policy will be attached to the IAM Role.  
See also: PSOBAT-1482
- Construct IAM Policies. [Nate Tangersurat]  
See also: PSOBAT-1482

## Other

- Tests: `construct_policy()` can return None. [Nate Tangersurat]  
See also: PSOBAT-1482
- Tests: Test IAM Policy with no “services” [Nate Tangersurat]  
See also: PSOBAT-1482
- Chore: Add TODO for more IAM Policy testing. [Nate Tangersurat]  
See also: PSOBAT-1482
- Docs: Fix example of services for IAM Policies. [Nate Tangersurat]  
See also: PSOBAT-1482
- Tests: Fix S3 Policy test. [Nate Tangersurat]  
See also: PSOBAT-1482

## v1.2 (2016-05-09)

### Fix

- Remove one more argument. [Nate Tangersurat]  
See also: PSOBAT-1444
- Remove more deprecated arguments. [Nate Tangersurat]  
See also: PSOBAT-1444
- Remove extra *create-elb* argument. [Nate Tangersurat]  
See also: PSOBAT-1444
- Add default null certificate to old configs. [Nate Tangersurat]  
See also: PSOBAT-1444
- Remove extra JSON dumps/loads. [Nate Tangersurat]  
See also: PSOBAT-1444
- INFO each ELB Listener found. [Nate Tangersurat]  
See also: PSOBAT-1444
- Remove unused import. [Nate Tangersurat]  
See also: PSOBAT-1444

- Add default ELB protocols at template level. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use Health Check target from properties. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use subnet purose from properties. [Nate Tangsurat]  
See also: PSOBAT-1444
- Remove unused arguments. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use properties to fill in ELB Listeners. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use *create-configs* output for properties. [Nate Tangsurat]  
See also: PSOBAT-1444
- Use correct generic custom Base OS. [Nate Tangsurat]  
See also: PSOBAT-1468
- Use Base OS “other” [Nate Tangsurat]  
See also: PSOBAT-1468

## Other

- Merge branch ‘features/security\_group’ [Sijis Aviles]
- Ensure the advanced style is a list. [Sijis Aviles]  
This handles situations where an application has multiple ports defined but they are different protocols
- Add apps\_all to default security group. [Sijis Aviles]
- Handle older published securitygroup format. [Sijis Aviles]  
We essentially have two security group formats: - simple: just a list of ports  

```
{ ‘ingress’: { ‘app’: [1,2,3,4] }}
```

  
– advanced: ports ranges { ‘ingress’: { ‘app’: { ‘start\_port’: 1, ‘end\_port’: 10, ‘protocol’: ‘udp’ } } }
- Split ports into seperate distinct keys. [Sijis Aviles]
- Use given description for security group. [Sijis Aviles]
- Update security group based on property file values. [Sijis Aviles]
- Add a properties file parameter for securitygroup. [Sijis Aviles]
- Add get\_properties util method. [Sijis Aviles]
- Forgot a comma. [Doug Campbell]
- More typo fixes. [Doug Campbell]
- Fixed json typo. [Doug Campbell]
- Added notification to templates. [Doug Campbell]
- Set healthcheck grace period to 5 minutes. [Sijis Aviles]

- Removed bypassing elb health check amazon stuff. [Doug Campbell]
- Updated jenkins job name for audit-approval. [Doug Campbell]
- Fixed audit-approval json to fail properly and added a stage comment. [Doug Campbell]
- Changed log-deployment to audit approval and fixed renumerate to work with it. [Doug Campbell]
- Tests: Make sure 'ports' key overrides. [Nate Tangersurat]  
See also: PSOBAT-1444
- Tests: Remove unneeded key by key comparison. [Nate Tangersurat]  
See also: PSOBAT-1444
- Tests: Add test for format\_listeners() [Nate Tangersurat]  
See also: PSOBAT-1444
- Tests: Update splay\_health() test to new module. [Nate Tangersurat]
- Refactor: Extract reused ELB settings lookup. [Nate Tangersurat]  
See also: PSOBAT-1444
- Docs: Update format\_listeners() docstring example. [Nate Tangersurat]  
See also: PSOBAT-1444
- Refactor: Separate out Listener reading logic. [Nate Tangersurat]  
See also: PSOBAT-1444
- Style: Prettify and sort. [Nate Tangersurat]  
See also: PSOBAT-1444
- Refactor: Move splay\_health() into file. [Nate Tangersurat]  
See also: PSOBAT-1444

### v1.1.0 (2017-05-31)

#### Fix

- Remove “qe” contents. [Nate Tangersurat]  
See also: PSOBAT-1448
- Send Python dict to QE. [Nate Tangersurat]  
See also: PSOBAT-1448
- Remove duplicate template. [Nate Tangersurat]  
See also: PSOBAT-1468
- Expand user path. [Nate Tangersurat]  
See also: PSOBAT-1468
- Use default of \$HOME. [Nate Tangersurat]  
See also: PSOBAT-1468

- INFO message env and region should be flipped. [Nate Tangersurat]  
See also: PSOBAT-1468
- Use safer dict.get() [Nate Tangersurat]  
See also: PSOBAT-1468
- Use AMI based on name and Region. [Nate Tangersurat]  
See also: PSOBAT-1468
- Default to tomcat8. [Nate Tangersurat]  
See also: PSOBAT-1468
- Use raw.properties.json for Base OS. [Nate Tangersurat]  
See also: PSOBAT-1468
- Strip out any quotes for `-base`. [Nate Tangersurat]  
See also: PSOBAT-1468
- Add “base” option to pipeline.json. [Nate Tangersurat]  
Base AMI will default to “tomcat” if not specified. Also added default deployment environments.  
See also: PSOBAT-1468
- Remove trailing comma. [Nate Tangersurat]  
Trailing commas turn normal assignments into tuple assignments, very hidden and confusing.  
See also: PSOBAT-1197
- Entry point command does not need *python* [Nate Tangersurat]  
See also: PSOBAT-1197
- Pip install foremast. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use *create-app* command for *pipes-app* [Nate Tangersurat]  
See also: PSOBAT-1197
- One reference to pipeline.json environments. [Nate Tangersurat]  
See also: PSOBAT-1197
- INFO message refers to blocks. [Nate Tangersurat]  
See also: PSOBAT-1197
- Prettify found envs and regions for Pipelines. [Nate Tangersurat]  
See also: PSOBAT-1197
- Put failure message in exception. [Nate Tangersurat]  
See also: PSOBAT-1197
- Remove unused import. [Nate Tangersurat]  
See also: PSOBAT-1197
- Region parameter should not be modified. [Nate Tangersurat]  
See also: PSOBAT-1197

- Slightly cleaner environment list. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use more concise error message for VPCs. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use generated details in `clean_pipelines()` [Nate Tangersurat]  
See also: PSOBAT-1197
- Echo variables. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use `cat` of `raw.properties` in place of `DEBUG`. [Nate Tangersurat]  
See also: PSOBAT-1197
- INFO for found ELB. [Nate Tangersurat]  
See also: PSOBAT-1197
- Simplify and notify during ELB searching. [Nate Tangersurat]  
See also: PSOBAT-1197
- Shorten ELB searching loop time. [Nate Tangersurat]  
See also: PSOBAT-1197
- Handle missing region for environments. [Nate Tangersurat]  
See also: PSOBAT-1197
- Pass environment to generator for DNS record. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use new relative import within directory. [Nate Tangersurat]  
See also: PSOBAT-1197
- Install foremast. [Nate Tangersurat]  
See also: PSOBAT-1197
- Remove debug modes. [Nate Tangersurat]  
See also: PSOBAT-1197
- Remove going back a directory for properties. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use `SpinnakerAppNotFound` exception. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use global `get_app_details()` [Nate Tangersurat]  
See also: PSOBAT-1197
- Add missing exception. [Nate Tangersurat]  
See also: PSOBAT-1197
- Remove unused imports. [Nate Tangersurat]  
See also: PSOBAT-1197

- Increase `check_task()` retry back to 100 sec. [Nate Tangersurat]  
See also: PSOBAT-1197
- Add message for `check_task()` assertion. [Nate Tangersurat]  
See also: PSOBAT-1197
- Poll Task ID a little faster. [Nate Tangersurat]  
See also: PSOBAT-1197
- Custom exceptions inherit from `SpinnakerError`. [Nate Tangersurat]  
See also: PSOBAT-1197
- Pass errors to `super`. [Nate Tangersurat]  
See also: PSOBAT-1197
- Correct error message. [Nate Tangersurat]  
See also: PSOBAT-1197
- Handle errors in `kato.tasks` [Nate Tangersurat]  
See also: PSOBAT-1197
- Use global exceptions and `utils`. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use global `get_vpc_id`. [Nate Tangersurat]  
See also: PSOBAT-1359
- Use better help for `-elb-subnet`. [Nate Tangersurat]  
See also: PSOBAT-1359
- Use new Generator Archaius attributes. [Nate Tangersurat]  
See also: PSOBAT-1359
- Need to add Stages back into Pipeline. [Nate Tangersurat]  
See also: PSOBAT-1399
- Handle JSON data package. [Nate Tangersurat]  
See also: PSOBAT-1399
- Remove unused imports. [Nate Tangersurat]  
See also: PSOBAT-1399
- Handle new `get_template()` return. [Nate Tangersurat]  
See also: PSOBAT-1399
- Include `pipeline-templates` directory. [Nate Tangersurat]  
See also: PSOBAT-1399
- IAM use `API_URL`. [Nate Tangersurat]  
See also: PSOBAT-1399
- Remove unused import. [Nate Tangersurat]  
See also: PSOBAT-1399



- Update IAM to package utils. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use dict unpacking for args. [Nate Tangsurat]  
See also: PSOBAT-1399
- App use API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use centralized HTTP HEADERS. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use centralized configs for Gate URL. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use json.dumps for Security Groups. [Nate Tangsurat]  
See also: PSOBAT-1399
- More descriptive variable name. [Nate Tangsurat]  
See also: PSOBAT-1399
- TCP Health Check should not include a path. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use assert for check\_task() [Nate Tangsurat]  
This reads a little easier and uses more specific exceptions. Using *Exception* was not allowing *SpinnakerTaskError* to properly bubble out.  
See also: PSOBAT-1399
- Use assertiong for ELB check\_task. [Nate Tangsurat]  
See also: PSOBAT-1399
- Move Health Check logic to class. [Nate Tangsurat]  
See also: PSOBAT-1399
- Pass args into init. [Nate Tangsurat]  
See also: PSOBAT-1399
- DEBUG appinfo. [Nate Tangsurat]  
See also: PSOBAT-1399
- Remove unneeded comment. [Nate Tangsurat]  
See also: PSOBAT-1399
- Simplify if to assert. [Nate Tangsurat]  
See also: PSOBAT-1399
- Set class attributes in init. [Nate Tangsurat]  
See also: PSOBAT-1399
- Remove unused import. [Nate Tangsurat]  
See also: PSOBAT-1399

- Use `utils.get_template()` [Nate Tangersurat]  
See also: PSOBAT-1399
- Logging level at root package name. [Nate Tangersurat]  
See also: PSOBAT-1113
- Update loggers. [Nate Tangersurat]  
See also: PSOBAT-1399
- Forgot new utils directory. [Nate Tangersurat]  
See also: PSOBAT-1399
- Allow DEBUG mode. [Nate Tangersurat]  
See also: PSOBAT-1399
- Use utils for configs and templates. [Nate Tangersurat]  
See also: PSOBAT-1399
- Remove unused imports, use module docstring. [Nate Tangersurat]  
See also: PSOBAT-1399
- Use lazy logging format. [Nate Tangersurat]  
See also: PSOBAT-1399
- Remove unused imports. [Nate Tangersurat]  
See also: PSOBAT-1399
- Convert pipeline call to package. [Nate Tangersurat]  
See also: PSOBAT-1399
- Convert elb to package. [Nate Tangersurat]  
See also: PSOBAT-1399
- Use `main()` for `create_app`. [Nate Tangersurat]  
See also: PSOBAT-1399
- Add all entrypoints. [Nate Tangersurat]  
See also: PSOBAT-1399
- Start gathering entry points. [Nate Tangersurat]  
See also: PSOBAT-1399
- Compose **foremast** package. [Nate Tangersurat]  
See also: PSOBAT-1399
- Remove `init` to prepare for movement. [Nate Tangersurat]  
See also: PSOBAT-1399
- Update logging messages. [Nate Tangersurat]  
See also: PSOBAT-1399
- Clean Pipelines matching “`app_name [region]`” [Nate Tangersurat]  
See also: PSOBAT-1399

- Use envs from pipeline.json for construction. [Nate Tangersurat]  
See also: PSOBAT-1399
- Use generated Instance Profile. [Nate Tangersurat]  
Default to the generated Instance Profile name instead of “app\_default\_profile”.
- Remove pci and sox. [Nate Tangersurat]  
Force usages of bad names to fail now while we’re transitioning.
- Format Health Check path with slashes. [Nate Tangersurat]  
See also: PSOBAT-1113
- INFO Health Check properties. [Nate Tangersurat]  
See also: PSOBAT-1113
- Make AccessDenied errors more evident. [Nate Tangersurat]  
See also: PSOBAT-1113
- Use extended sequence unpacking for clarity. [Nate Tangersurat]  
See also: PSOBAT-1359
- Remove alerting for non-failures. [Nate Tangersurat]  
See also: PSOBAT-1359
- Simplify Stage reference IDs. [Nate Tangersurat]  
See also: PSOBAT-1359
- Hard code Git taggers. [Nate Tangersurat]  
See also: PSOBAT-1359
- DEBUG Regions dict. [Nate Tangersurat]  
See also: PSOBAT-1359
- Stage names corrected. [Nate Tangersurat]  
See also: PSOBAT-1359
- Lower case Pipeline names. [Nate Tangersurat]  
See also: PSOBAT-1372
- Minimize Pipeline notifications. [Nate Tangersurat]  
See also: PSOBAT-1374
- Convert bytes to string. [Nate Tangersurat]  
See also: PSOBAT-1374
- Include User Data. [Nate Tangersurat]  
See also: PSOBAT-1374
- Add ELB and SG name to templates. [Nate Tangersurat]
- Update Manual Judgement comment. [Nate Tangersurat]  
See also: PSOBAT-1361
- Use InstanceProfileName value to remove. [Nate Tangersurat]

- Start using master Branch again. [Nate Tangersurat]  
See also: PSOBAT-1250
- Add environments for IAM. [Nate Tangersurat]  
See also: PSOBAT-1344
- Subnets should be for elb. [Nate Tangersurat]  
See also: PSOBAT-1344
- Shorten logging. [Nate Tangersurat]  
See also: PSOBAT-1344
- INFO template text. [Nate Tangersurat]  
See also: PSOBAT-1344
- Pull AWS exception into exception message. [Nate Tangersurat]  
See also: PSOBAT-1344
- Update logging. [Nate Tangersurat]  
See also: PSOBAT-1344
- Use default Health Check path. [Nate Tangersurat]  
See also: PSOBAT-1344
- Flipped variables. [Nate Tangersurat]  
See also: PSOBAT-1344
- Forgot missing file. [Nate Tangersurat]  
See also: PSOBAT-1344
- Use region aware get\_vpc\_id() [Nate Tangersurat]  
See also: PSOBAT-1344
- Use subnet lookups for ELB. [Nate Tangersurat]  
See also: PSOBAT-1344
- Need to retry for a couple seconds for ELB. [Nate Tangersurat]  
See also: PSOBAT-1344
- No need to get first of array. [Nate Tangersurat]  
See also: PSOBAT-1344
- Change another variable name. [Nate Tangersurat]  
See also: PSOBAT-1344
- Change variable name. [Nate Tangersurat]  
See also: PSOBAT-1344
- Wrong health target variable. [Nate Tangersurat]  
See also: PSOBAT-1344
- Remove required for default arguments. [Nate Tangersurat]  
See also: PSOBAT-1344

- Format Health Check path. [Nate Tangersurat]  
See also: PSOBAT-1344
- Remove and simplify arguments. [Nate Tangersurat]  
See also: PSOBAT-1344
- Loop over regions. [Nate Tangersurat]  
See also: PSOBAT-1344
- Loop over environments. [Nate Tangersurat]  
See also: PSOBAT-1344
- Downstream to pipes-pipeline-prepare. [Nate Tangersurat]  
See also: PSOBAT-1344
- App calls prepare. [Nate Tangersurat]  
See also: PSOBAT-1344
- Remove. [Nate Tangersurat]
- Missed some values. [Nate Tangersurat]  
See also: PSOBAT-1342
- Update DSL. [Nate Tangersurat]  
See also: PSOBAT-1342
- Silence utils logging. [Nate Tangersurat]  
See also: PSOBAT-1342
- Only one Bake requisite. [Nate Tangersurat]  
See also: PSOBAT-1342
- One Bakery. [Nate Tangersurat]  
See also: PSOBAT-1212
- Typo, us-west-2. [Nate Tangersurat]  
See also: PSOBAT-1341
- Update us-west-2 back baseAmi. [Nate Tangersurat]  
See also: PSOBAT-1341
- Default region to us-east-1 when missing. [Nate Tangersurat]  
See also: PSOBAT-1342
- Add multi-regions to create Pipelines. [Nate Tangersurat]  
See also: PSOBAT-1342
- Template rendering with subnet list. [Nate Tangersurat]  
See also: PSOBAT-1212
- Log INFO by default. [Nate Tangersurat]  
See also: PSOBAT-1249

- Simplify App check. [Nate Tangsurat]  
Turns out Gate is case insensitive from our perspective, so Application names “TEST” == “teSt”.  
See also: PSOBAT-1248
- Break out of loop once Pipeline found. [Nate Tangsurat]  
See also: PSOBAT-1248
- Use ChainMap with deep resolution. [Nate Tangsurat]  
Need to override the default behaviour of collections.ChainMap to allow for nested dictionary lookups.
- Bring functions up to package level. [Nate Tangsurat]
- Give default “None” [Nate Tangsurat]  
See also: PSOBAT-548
- Handle ‘-git None’ [Nate Tangsurat]  
See also: PSOBAT-548
- Remove more arguments. [Nate Tangsurat]  
See also: PSOBAT-548
- Update command arguments. [Nate Tangsurat]  
See also: PSOBAT-548
- Use Spinnaker Application name for parsing. [Nate Tangsurat]  
See also: PSOBAT-548
- Call downstream from pipes-app. [Nate Tangsurat]  
See also: PSOBAT-548
- Support Git URI. [Nate Tangsurat]  
See also: PSOBAT-845
- Better file missing detection. [Nate Tangsurat]  
See also: PSOBAT-548
- Handle missing files. [Nate Tangsurat]  
See also: PSOBAT-845
- Use incoming Git URI. [Nate Tangsurat]  
See also: PSOBAT-548
- Support Git URIs. [Nate Tangsurat]  
See also: PSOBAT-548
- Configs update before writing outputs. [Nate Tangsurat]  
See also: PSOBAT-548
- Include configs.json.j2 template. [Nate Tangsurat]  
See also: PSOBAT-548
- Add single quotes around JSON objects. [Nate Tangsurat]  
See also: PSOBAT-548

- Use Git URI for application.json files. [Nate Tangersurat]  
See also: PSOBAT-548
- Add extra INFO message for appending. [Nate Tangersurat]
- Remove extra keyword argument. [Nate Tangersurat]
- Use new append\_variables() [Nate Tangersurat]
- Use shared library for generating names. [Nate Tangersurat]  
See also: PSOBAT-1116
- Remove *\_name* for more consistent variables. [Nate Tangersurat]  
See also: PSOBAT-1116
- Assert that command completed. [Nate Tangersurat]  
See also: PSOBAT-1116
- Return True for good run. [Nate Tangersurat]  
See also: PSOBAT-1116
- Move config read earlier. [Nate Tangersurat]  
See also: PSOBAT-1099
- Remove extra parenthesis. [Nate Tangersurat]  
See also: PSOBAT-1099
- Make app name part of Class init. [Nate Tangersurat]  
See also: PSOBAT-1099
- Update main to use newer Class methods. [Nate Tangersurat]  
See also: PSOBAT-1099
- Use kwargs for get\_template() [Nate Tangersurat]  
See also: PSOBAT-1099
- Double quotes JSON template. [Nate Tangersurat]  
See also: PSOBAT-1099

## Features

- Add Base AMI option for Bake Stage. [Nate Tangersurat]  
See also: PSOBAT-1468
- Start testing code. [Nate Tangersurat]  
See also: PSOBAT-1399
- Add Git Tagger stages. [Nate Tangersurat]  
See also: PSOBAT-1359
- Add two Bakes, one for each region. [Nate Tangersurat]  
See also: PSOBAT-1341

- ELB regions. [Nate Tangsurat]  
See also: PSOBAT-1212
- Allow manual Pipeline override. [Nate Tangsurat]  
See also: PSOBAT-1249
- Add Pipeline ID getter. [Nate Tangsurat]  
See also: PSOBAT-1248
- Environmentalized templates. [Nate Tangsurat]  
See also: PSOBAT-1248
- Also create .exports file for sourceability. [Nate Tangsurat]  
See also: PSOBAT-548
- Output JSON configurations. [Nate Tangsurat]  
See also: PSOBAT-548
- Inject application.json environment variables. [Nate Tangsurat]  
See also: PSOBAT-548
- Get application.json files from GitLab. [Nate Tangsurat]
- Add app.json configuration preparer. [Nate Tangsurat]
- Add gogo-utils to requirements. [Nate Tangsurat]  
See also: PSOBAT-1116
- Add IAM Resource creation command. [Nate Tangsurat]  
See also: PSOBAT-1116
- Create application.properties in S3. [Nate Tangsurat]  
See also: PSOBAT-1110
- Add debug flag. [Nate Tangsurat]  
See also: PSOBAT-1099
- Use Class logger. [Nate Tangsurat]  
See also: PSOBAT-1099

## Other

- V1.1. [Nate Tangsurat]
- Added passing of QE JSON to downstream job. [Joel Vasallo]
- Chore: Remove unused templates. [Nate Tangsurat]  
See also: PSOBAT-1468
- Tests: More lenient test. [Nate Tangsurat]  
AMI IDs will change in the future. All we care about is that we get an AMI ID.  
See also: PSOBAT-1468



- Tests: ami\_lookup() testing. [Nate Tangersurat]  
See also: PSOBAT-1468
- Update jenkins jobs to use simple bash script. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' [Sijis Aviles]
- Added minor TODO. [Sijis Aviles]
- Docs: Update running instructions. [Nate Tangersurat]  
See also: PSOBAT-1197
- Docs: Can run code from root of repository. [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: Remove unused import. [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: Remove extra INFO. [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: Reduce number of calls to get\_subnets() [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: Remove some extra logging. [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: No longer need regions in blocks. [Nate Tangersurat]  
The *data.app.regions* template variable exists in the Find Images Stage, which is no longer used with the de-compiled Pipeline blocks.  
See also: PSOBAT-1197
- Style: Use more descriptive variable names. [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: Extract construct\_pipeline\_block() [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: Simplify blocks and extract functions. [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: Convert get\_settings() to staticmethod. [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: get\_pipe\_id() -> get\_pipeline\_id() [Nate Tangersurat]  
See also: PSOBAT-1197
- Chore: Remove unneeded comments. [Nate Tangersurat]  
See also: PSOBAT-1197
- Refactor: get\_all\_pipelines(), clean\_pipelines() [Nate Tangersurat]  
See also: PSOBAT-1197

- Refactor: Run create-pipeline only once at end. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Retab. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Move Region independent outside of loop. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Pull out ELB searching to utils. [Nate Tangsurat]  
See also: PSOBAT-1197
- Chore: Create bash runner. [Nate Tangsurat]  
See also: PSOBAT-1197
- Removed the options in manual judgement, as it made no sense. [Sijis Aviles]
- Style: Replase \* *with* \**any* [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Use more descriptive variables. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Pass variables to template directly. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Sort utils init. [Nate Tangsurat]  
See also: PSOBAT-1197
- Docs: Make docstrings imperative sentences. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: New lines. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Reflow and format strings. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Space after class docstring. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Use global API\_URL and HEADERS. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Docstring first line end in period. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Imperative mood for docstring. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Use descriptive variable names. [Nate Tangsurat]  
See also: PSOBAT-1197

- Style: Reflow and remove unused import. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Use global exceptions. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Check response.ok separately. [Nate Tangsurat]  
See also: PSOBAT-1359
- Docs: Fix up docstrings. [Nate Tangsurat]  
See also: PSOBAT-1359
- Merge branch 'fix/clean\_pipes' of github.com:gogoair/foremast into fix/clean\_pipes. [Sijis Aviles]
- Refactor: Use global API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Use global API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Use global HEADERS. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Use global API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Use global API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1359
- Add judgement at beginning of stage. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' of github.com:gogoair/foremast into fix/clean\_pipes. [Sijis Aviles]
- Simplified generic stages template. [Sijis Aviles]
- Split stages and triggers into separate templates. [Sijis Aviles]
- Style: isort. [Nate Tangsurat]  
See also: PSOBAT-1399
- Initial split for better environment templates. [Sijis Aviles]
- Removing. We no longer used this. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' of github.com:gogoair/foremast into fix/clean\_pipes. [Sijis Aviles]
- Refactor: Use const API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1399
- Fix iam. [Sijis Aviles]
- Fix references to get\_details. [Sijis Aviles]
- Fix s3 creation for archaius. [Sijis Aviles]
- Argument should have dashes, not underscores. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' of github.com:gogoair/foremast into fix/clean\_pipes. [Sijis Aviles]

- Refactor: Remove unused ELB template. [Nate Tangsurat]  
See also: PSOBAT-1399
- Tests: Create Pipeline utils moved to package. [Nate Tangsurat]  
See also: PSOBAT-1399
- Tests: Verify Health Check splaying works. [Nate Tangsurat]  
See also: PSOBAT-1399
- Style: Sort keys. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Use namedtuple for Health Check splay. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use `utils.get_template`. [Sijis Aviles]
- Moved exceptions to common exceptions. [Sijis Aviles]
- Refactor: Move logger into class. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Move task checking to `create()` [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Move ELB template logic into class. [Nate Tangsurat]  
See also: PSOBAT-1399
- Moved util methods to common utils. [Sijis Aviles]
- Move utils to common utils. [Sijis Aviles]
- Moved utils to common utils. [Sijis Aviles]
- Fix import typo. [Sijis Aviles]
- Moved utils to common utils. [Sijis Aviles]
- Moved constants. [Sijis Aviles]
- Move elb utils into utils. [Sijis Aviles]
- Add import of `DeepChainMap` to utils. [Sijis Aviles]
- Fixed exceptions and utils location. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' of [github.com:gogoair/foremast](https://github.com:gogoair/foremast) into `fix/clean_pipes`. [Sijis Aviles]
- Refactor: Use common HTTP headers. [Nate Tangsurat]  
See also: PSOBAT-1399
- Style: Reduce nesting function calls. [Nate Tangsurat]  
See also: PSOBAT-1399
- Style: Reflow and use single quotes. [Nate Tangsurat]  
See also: PSOBAT-1399
- Docs: Docstring details. [Nate Tangsurat]  
See also: PSOBAT-1399

- Moved exception into single location. [Sijis Aviles]
- Move DeepChainMap to utils. [Sijis Aviles]
- Refactor: Use common args. [Nate Tangsurat]  
See also: PSOBAT-1399
- Docs: Add module docstring for consts. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Normalize logging. [Nate Tangsurat]  
Use a universal logging format string and support the *-d* DEBUG flag.  
See also: PSOBAT-1399
- Refactor: Remove unused methods. [Nate Tangsurat]  
See also: PSOBAT-1399
- Docs: Installation and running instructions. [Nate Tangsurat]  
See also: PSOBAT-1399
- We need to include package data! [Sijis Aviles]
- Simplified the test cases. [Sijis Aviles]
- Adding templates and configurations to packaging. [Sijis Aviles]
- Change examples to use dashes, not underscores. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' of github.com:gogoair/foremast into fix/clean\_pipes. [Sijis Aviles]
- Refactor: Package app. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Package securitygroup. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Convert dns to package. [Nate Tangsurat]  
See also: PSOBAT-1399
- Moved configs and templates into src path. [Sijis Aviles]
- Refactor: Use src/foremast/ [Nate Tangsurat]  
See also: PSOBAT-1399
- Updated manual judgement instructions for prods/prodp. [Sijis Aviles]
- Docs: Able to run from top level directory. [Nate Tangsurat]  
With *pipes/\_\_init\_\_.py*, *pipes* can override the builtin and packages can be called properly from the top level of the repository.  
See also: PSOBAT-1399
- Docs: Add usage and testing information. [Nate Tangsurat]  
See also: PSOBAT-1399
- Updated runway/dsl for app job. [Doug Campbell]

- Revert “cleaned up jenkins jobs” [Doug Campbell]  
This reverts commit c9a044c6970c652c5ec5b1bb33805847996d3b38.
- Cleaned up jenkins jobs. [Doug Campbell]
- Updated combine loop to account for deployment logs. [Doug Campbell]
- Updated template for processor jenkins job. [Doug Campbell]
- Fixed directory naming. [Doug Campbell]
- Added name tag to templates. [Doug Campbell]
- Merge branch ‘master’ of github.com:gogoair/foremast. [Doug Campbell]
- Fixed key naming for prods and prodp. [Doug Campbell]
- Changed prodsox/prodpci to props/prodp. [Doug Campbell]
- Fixed s3 prodsox/prodpci. [Doug Campbell]
- Merge branch ‘master’ of github.com:gogoair/foremast. [Doug Campbell]
- Changed pci/sox to prodpci/prodsox. [Doug Campbell]
- More typo fixes in tempaltes. [Doug Campbell]
- Fixed typo. [Doug Campbell]
- Fixed issues in templates again. [Doug Campbell]
- Fixed elb naming int templates. [Doug Campbell]
- Fixed min instance issue. [Doug Campbell]
- Changed pipeline name. [Doug Campbell]
- Docs: Add refId example for Stages. [Nate Tangsurat]  
See also: PSOBAT-1359
- Style: Fix up whitespace and docstring. [Nate Tangsurat]  
See also: PSOBAT-1359
- Fixed big with region looping. [Doug Campbell]
- Added region support. [Doug Campbell]
- Added PCI template. [Doug Campbell]
- Fixed templating, added sox specific template. [Doug Campbell]
- Updated logic to combine pipelines. [Doug Campbell]
- Chore: Add TODO to consider using defaults always. [Nate Tangsurat]  
sbasgall posited that when an *application-`{branch}`-`{env}`.json* file is missing, should we default to the templated configuration? This could introduce the issue of people not being aware that they are using the defaults instead of needing to create the JSON file, but may be worth it.
- Docs: Spruce up docstrings. [Nate Tangsurat]  
See also: PSOBAT-1374
- Docs: Finished Manual Judgement. [Nate Tangsurat]  
See also: PSOBAT-1361
- Merge branch ‘master’ of github.com:gogoair/foremast. [Sijis Aviles]

- Add all accounts when new application is creation. [Sijis Aviles]
- Docs: Add more TODOs. [Nate Tangersurat]  
See also: PSOBAT-1250
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Docs: Update with initial migration. [Nate Tangersurat]  
See also: PSOBAT-1250
- Fix desired capacity for trigger template. [Sijis Aviles]
- Desired capacity should use min\_inst defined. [Sijis Aviles]
- Added sox and pci to args. [Doug Campbell]
- Docs: Add note why server group is not used. [Nate Tangersurat]  
See also: PSOBAT-1250
- Docs: Add note on deployment environments. [Nate Tangersurat]  
See also: PSOBAT-1250
- Docs: Note about JSON Pipeline override. [Nate Tangersurat]  
See also: PSOBAT-1250
- Style: Correct spelling. [Nate Tangersurat]
- Style: Minor tuneup. [Nate Tangersurat]
- Docs: Add Jenkins Job note. [Nate Tangersurat]  
See also: PSOBAT-1250
- Style: Sort requirements. [Nate Tangersurat]  
See also: PSOBAT-1250
- Docs: Update basic task order. [Nate Tangersurat]  
See also: PSOBAT-1250
- Docs: Add trigger files. [Nate Tangersurat]  
See also: PSOBAT-1250
- Refactor: Have check\_task() raise exception. [Nate Tangersurat]  
See also: PSOBAT-1344
- Refactor: Add get\_vpc\_id() logging. [Nate Tangersurat]  
See also: PSOBAT-1344
- Revert "fix: Flipped variables" [Nate Tangersurat]  
This reverts commit bae37dde7495d57aec7d0f9d0497460b25770515.
- Update env name. [Sijis Aviles]
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Sijis Aviles]
- Fix typo in variable name. [Sijis Aviles]
- Simplified elb creation. [Sijis Aviles]

- Chore: Remove extra parameters. [Nate Tangsurat]  
See also: PSOBAT-1344
- Docs: Add `-region` to example docstring. [Nate Tangsurat]  
See also: PSOBAT-1344
- Style: Docstrings and formatting. [Nate Tangsurat]
- Fix bug where find image was referring itself instead of previous environment. [Sijis Aviles]
- Changed cluster to pipename. [Doug Campbell]
- Added sox to env. [Doug Campbell]
- Fixy. [Nate Tangsurat]
- Fix. [Nate Tangsurat]
- Style: YAPF. [Nate Tangsurat]
- Docs: Update pipe finding logs. [Nate Tangsurat]  
See also: PSOBAT-1342
- Add full pipeline name created. [Sijis Aviles]
- Fixed missed variables in template. [Sijis Aviles]
- Specify the template in us-west-2. [Sijis Aviles]
- Pipeline names now include region. [Sijis Aviles]  
Posting is a separate method which allows us to iterate over the regions. Also cleaned up deleting older pipelines based on region name.
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Sijis Aviles]
- Fixed additional changes in variable name. [Sijis Aviles]
- Fix account in deployment step. [Sijis Aviles]
- Use environment variable. [Sijis Aviles]
- Use find images, instead of a rebake. [Sijis Aviles]
- Remove `aws_region` key, as that's moved to a different level. [Sijis Aviles]
- Add default regions. [Sijis Aviles]
- Docs: More DEBUG. [Nate Tangsurat]  
See also: PSOBAT-1212
- Test: Add sample override. [Nate Tangsurat]  
See also: PSOBAT-1212
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Sijis Aviles]
- Removed html comments. [Doug Campbell]
- Added retries, since it has been timing out. [Sijis Aviles]
- Remove print statement. [Sijis Aviles]
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Doug Campbell]
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Sijis Aviles]



- Add pci as a valid file. [Sijis Aviles]
- Capture other pci and sox related application.json files. [Sijis Aviles]
- Fixed dictionary region issue. [Doug Campbell]
- Changed input values. [Doug Campbell]
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Doug Campbell]
- Add parameter for location of combined json file. [Sijis Aviles]
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Sijis Aviles]
- Ensure local runway lookup uses same list as gitlab lookup. [Sijis Aviles]
- Fixed reference to trigger job. [Doug Campbell]
- Fixed triggerjob reference. [Doug Campbell]
- Removed notifications for each stage for pipelines. [Doug Campbell]
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Sijis Aviles]
- Style: Reflow. [Nate Tangsurat]  
See also: PSOBAT-1212
- Renamed typo method. [Sijis Aviles]
- Add subnets to region. [Sijis Aviles]
- Pep8 fixes. [Sijis Aviles]
- Moved utility to pipeline. [Sijis Aviles]
- Ensure region is passed to template. [Sijis Aviles]
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Sijis Aviles]
- Chore: Wrap comment. [Nate Tangsurat]  
See also: PSOBAT-1249
- Chore: DEBUG delete response. [Nate Tangsurat]  
See also: PSOBAT-1249
- Docs: Add docstrings. [Nate Tangsurat]  
See also: PSOBAT-1249
- Docs: DEBUG pipeline creation response. [Nate Tangsurat]  
See also: PSOBAT-1249
- Refactor: Pipeline template rendering. [Nate Tangsurat]  
See also: PSOBAT-1249
- Full region support. [Sijis Aviles]
- Merge branch 'feature/templates' of github.com:gogoair/foremast into feature/templates. [Sijis Aviles]
- Remove pipeline if not defined in pipeline.json. [Sijis Aviles]
- Split out getting all pipelines. [Sijis Aviles]
- Renamed stage names regarding QE. [Sijis Aviles]
- Fixed errors in generated pipeline template. [Sijis Aviles]

- Refactor: Conver `get_settings()` to `@staticmethod`. [Nate Tangsurat]  
See also: PSOBAT-1248
- Style: Lazy logging. [Nate Tangsurat]  
See also: PSOBAT-1248
- Style: Fix variable names. [Nate Tangsurat]  
See also: PSOBAT-1248
- Docs: Add docstrings. [Nate Tangsurat]  
See also: PSOBAT-1248
- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1248
- Remove dead code. [Sijis Aviles]
- Use a different template, if not first environment. [Sijis Aviles]
- Add example pipeline trigger template. [Sijis Aviles]
- Ensure environment defaults are also given with a defined `pipeline.json`. [Sijis Aviles]
- Add ability to parse and handle `pipeline.json`. [Sijis Aviles]
- Enhanced tickets validation logging. [Fadi Almasri]
- Adding `__init__.py` to `jira-validator`. [Fadi Almasri]
- Created JIRA ticket validator. [Fadi Almasri]
- Docs: Update docstring. [Nate Tangsurat]
- Docs: Extra DEBUG for skipped keys. [Nate Tangsurat]
- Refactor: Wrap INI lining in function. [Nate Tangsurat]
- Changed cluster name to app name. [Doug Campbell]
- DSL.groovy update to include APP generation. [Doug Campbell]
- Fixed argparse error. [Doug Campbell]
- Updated DSL.groovy to include pipeline creation. [Doug Campbell]
- Added `trigger_job` to create pipeline. [Doug Campbell]
- Removed stage step. [Steven Basgall]
- Commented out stage. [Steven Basgall]
- Added relative path. [Steven Basgall]
- Updated json name. [Steven Basgall]
- Added `appname`. [Steven Basgall]
- Remove `elb_name` from job parameters. [Sijis Aviles]
- Merge branch 'master' of `github.com:gogoair/foremast`. [Sijis Aviles]
- Disable `elb_name` and assume `app_name` instead. [Sijis Aviles]
- Remove `vpc` parameter. [Sijis Aviles]

We are able to get that detail based on the account/environment, so we are using that instead.

- Docs: DEBUG GitLab file retrieval. [Nate Tangsurat]  
See also: PSOBAT-548
- Docs: Extra INFO message for writing JSON. [Nate Tangsurat]  
See also: PSOBAT-548
- Refactor: Move file writing to outputs.py. [Nate Tangsurat]  
See also: PSOBAT-548
- Various pipeline updates. [Steven Basgall]
- Updates for jenkins execution. [Steven Basgall]
- Initial variables from app metadata souce. [Steven Basgall]
- Merge app json with app\_info dict. [Steven Basgall]
- Added requests - import order. [Steven Basgall]
- Removed prep step from pipeline template. [Steven Basgall]
- Wrong path. [Sijis Aviles]
- Another attempt to source env variables. [Sijis Aviles]
- Only getting EUREKA env variables. [Sijis Aviles]
- Source the file that's configs output. [Sijis Aviles]
- Force uppercase ENV. [Sijis Aviles]
- Force bash. [Sijis Aviles]
- Add missing quote. [Sijis Aviles]
- Better conditional check for eureka. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Revert "fix: Use Git URI for application.json files" [Nate Tangsurat]  
This reverts commit f9a156d72ecb85ffc36b11cfcbb84227e924d87e.
- Add sections to scripts. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Checking for eureka parameters are set. [Sijis Aviles]
- Remove wrong param sent to iam script. [Sijis Aviles]
- Remove app creation from prepare job. [Sijis Aviles]
- Changed repo param to use GIT\_REPO env variable. [Sijis Aviles]
- Unify all scripts into prepare. [Sijis Aviles]
- A different way to comment out the section. [Sijis Aviles]
- Disabling prep job. [Sijis Aviles]
- Added application group throughout. [Steven Basgall]
- Updated pipeline creation template. [Steven Basgall]
- Merge branch 'master' of github.com:gogoair/foremast. [Doug Campbell]
- Changed default template. [Steven Basgall]

- Initial variables in pipeline template. [Steven Basgall]
  - Fix syntax. [Sijis Aviles]
  - Add elb and dns jobs to prep. [Sijis Aviles]
  - Update graphite metric name. [Sijis Aviles]
  - Use spinnaker app properties for group/project details. [Sijis Aviles]
  - Update to use new gate api. [Sijis Aviles]
  - Use project and repo slugs instead of url. [Sijis Aviles]
  - Update check, since it returns nodata. [Sijis Aviles]
  - Fix json syntax. [Sijis Aviles]
  - Added script to get availability zones. [Doug Campbell]
  - Merge branch 'master' of github.com:gogoair/foremast. [Doug Campbell]
  - Create pipeline creation. [Sijis Aviles]
  - Added test template. [Doug Campbell]
  - Updated template without tags. [Doug Campbell]
  - Increased retry timeout. [Fadi Almasri]
  - First commit with create pipelines. [Doug Campbell]
  - Set ELB\_SUBNET as a choice parameter. [Sijis Aviles]
  - Sync all parameters to prepare job. [Sijis Aviles]
  - Update elb params job. [Sijis Aviles]
  - S3: Changed param from group to project. [Sijis Aviles]
  - Add iam and s3 downstream. [Sijis Aviles]
  - Block only works on 1.38. disabling for now. [Sijis Aviles]
  - Moving more things around. [Sijis Aviles]
  - Fix typo of publisher. [Sijis Aviles]
  - Trying different publisher. [Sijis Aviles]
  - Add trigger job to prepare. [Sijis Aviles]
  - Chore: Add token for pipes-app. [Nate Tangsurat]
- See also: PSOBAT-1140
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
  - Bugfix for healthcheck string. [Fadi Almasri]
  - Added some logic to figure out the health check string if the protocol is not HTTP. [Fadi Almasri]
  - Updated user to mention its from a script. [Sijis Aviles]
  - Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
  - Changed gate endpoint address. [Fadi Almasri]
  - Create pipeline-prepare job. [Sijis Aviles]
  - Add newline character to parameter. [Sijis Aviles]

- Updated Gate URL to new API. [Doug Campbell]
- Removed existing checker. [Doug Campbell]
- Tchanged healthoverride check to true. [Doug Campbell]
- Add pipeline job skeleton. [Sijis Aviles]
- Update dns pipe job to reflect script changes. [Sijis Aviles]
- Add elb\_subnet parameter, instead of using app.json settings. [Sijis Aviles]
- Add sauce related files. [Sijis Aviles]
- Remove stack parameter. [Sijis Aviles]
- Uppercased all parameters sent to scripts. [Sijis Aviles]
- Update app and elb. [Sijis Aviles]
- Linting. [Sijis Aviles]
- Keep consistent interfaces. [Sijis Aviles]
- Keep consistent interfaces. [Sijis Aviles]
- Add build as a possible environment option. [Sijis Aviles]
- Add build as available environment. [Sijis Aviles]
- Remove unused import. [Sijis Aviles]
- Minor linting. [Sijis Aviles]
- Dns: Set consistent interfaces. [Sijis Aviles]
- Move docstrings to correct location. [Sijis Aviles]
- Linting updates. [Sijis Aviles]
- App: Keep same interface of parameters. [Sijis Aviles]
- Add detail param, even though not current used. [Sijis Aviles]
- Reorganized list and set default for APP. [Sijis Aviles]
- Add securitygroup pipes job. [Sijis Aviles]
- Fix possible multiline error. [Sijis Aviles]
- Renamed variable to be more explicit. [Sijis Aviles]
- Removed app-stack from create\_elb. [Fadi Almasri]
- Add s3 pipe job. [Sijis Aviles]
- Add iam pipe job. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Add dns pipe job. [Sijis Aviles]
- Add check if elb exist in region. [Sijis Aviles]
- Use single quotes for multiple lines. [Sijis Aviles]
- Add securitygroup job. [Sijis Aviles]
- Fix double requirements. [Sijis Aviles]
- Trigger rebuild. [Sijis Aviles]

- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Add elb job. [Sijis Aviles]
- Add elb job. [Sijis Aviles]
- Rename apps jobname. [Sijis Aviles]
- Add colorizeOutput and keep history of 50. [Sijis Aviles]
- Add jenkins job. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Fixed typos. [Steven Basgall]
- Remove unused parameter. [Sijis Aviles]
- Enable dns upsert. [Sijis Aviles]
- Remove extra variable. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Docs: Update docstrings. [Nate Tangsurat]  
See also: PSOBAT-1116
- Get application and dns details. [Sijis Aviles]
- Lint updates. [Sijis Aviles]
- Remove unused import. [Sijis Aviles]
- Updated .gitignore. [Sijis Aviles]
- Remove venv. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Added better logging. [Doug Campbell]
- Yapf. [Doug Campbell]
- Changed to amiid. [Doug Campbell]
- Add stack name to template. [Doug Campbell]
- Added docs strings. [Fadi Almasri]
- Added more variables and updated template. [Doug Campbell]
- Use a json template to create dns record. [Sijis Aviles]
- Used common logger. [Sijis Aviles]
- Add initial port of dns. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Removed an extra line. [Fadi Almasri]
- Added logging config. [Fadi Almasri]
- Merge branch 'master' of github.com:gogoair/foremast. [Fadi Almasri]
- Added retry logic to check the elb creation status. [Fadi Almasri]
- Enabling creation of security groups. [Sijis Aviles]
- Fixed argparse lists and template. [Doug Campbell]

- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Logging and sync-up. [Fadi Almasri]
- Add better help message for arguments. [Sijis Aviles]
- Add better description of security group in template. [Sijis Aviles]
- Properly check for returned status. [Sijis Aviles]
- Simplified variables names. [Sijis Aviles]
- Fixed tasks path check. [Sijis Aviles]
- Docs: Link to requirements. [Nate Tangsurat]  
See also: PSOBAT-1110
- Docs: Note application.properties in Tasks. [Nate Tangsurat]  
See also: PSOBAT-1110
- Docs: Fix spelling. [Nate Tangsurat]  
See also: PSOBAT-1110
- Docs: Add boto3 note. [Nate Tangsurat]  
See also: PSOBAT-1110
- Docs: Format more markdown-like. [Nate Tangsurat]  
See also: PSOBAT-1110
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Fixed credentials issue and default role. [Doug Campbell]
- Removed a testing file. [Fadi Almasri]
- Fixed the JSON escaping problem. [Fadi Almasri]
- Adding retries for checking task status. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Doug Campbell]
- Chore: Remove unused import and variable. [Nate Tangsurat]  
See also: PSOBAT-1099
- Added jinj2 environment loading for elb. [Doug Campbell]
- Bunch of bug fixes. [Fadi Almasri]
- Remove subnet, as its not being used. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Fixing merge conflict. [Fadi Almasri]
- Base template for elb creation. [Fadi Almasri]
- Return True on successful creation of security group. [Sijis Aviles]
- Add debug output of rendered json. [Sijis Aviles]
- Fix template to use correct security group name. [Sijis Aviles]
- Reorder variables so dependencies can work. [Sijis Aviles]

- Fix syntax error. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Chore: DEBUG just config sections. [Nate Tangersurat]  
See also: PSOBAT-1099
- Add logic to create security group. [Sijis Aviles]
- Pass a dict of appinfo details instead of multiple parameters. [Sijis Aviles]  
Eventually we will need all the application details, so its simpler to pass a dict with all the values rather than specifying each specific parameter needed in the class.
- Format url string. [Sijis Aviles]
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Chore: Add DEBUG output of parsed arguments. [Nate Tangersurat]  
See also: PSOBAT-1099
- Style: YAPF. [Nate Tangersurat]  
See also: PSOBAT-1099
- Style: Remove extra newlines. [Nate Tangersurat]  
See also: PSOBAT-1099
- Update app\_exists to return str or raise if app is not found. [Sijis Aviles]
- Docs: Add Class docstring. [Nate Tangersurat]  
See also: PSOBAT-1099
- Docs: Move comments to docstrings. [Nate Tangersurat]  
See also: PSOBAT-1099
- Style: JSON prettify. [Nate Tangersurat]  
See also: PSOBAT-1099
- Merge branch 'master' of github.com:gogoair/foremast. [Sijis Aviles]
- Refactor: Use reusable template rendering. [Nate Tangersurat]  
See also: PSOBAT-1099
- Refactor: Pull out configuration parsing. [Nate Tangersurat]  
See also: PSOBAT-1099
- Merge branch 'master' of github.com:gogoair/foremast. [Doug Campbell]
- Docs: Add module docstring. [Nate Tangersurat]  
See also: PSOBAT-1099
- Fixed template and setup sginfo dict. [Doug Campbell]
- Changed to r.ok. [Doug Campbell]
- Add security group template. [Sijis Aviles]
- Add securitygroup. [Sijis Aviles]
- Updated arg parse and logic in servergroups. [Doug Campbell]



- Added global configuration. [Doug Campbell]
- Removed description, was unnecessary. [Doug Campbell]
- Templated the servergroup json. [Doug Campbell]
- First commit for servergroup stuff, added template and skel. [Doug Campbell]
- Added `__init__` and renamed main. [Doug Campbell]
- Merge branch 'master' of github.com:gogoair/foremast. [Doug Campbell]

## v1.1 (2016-05-03)

### Fix

- Remove “qe” contents. [Nate Tangersurat]  
See also: PSOBAT-1448
- Send Python dict to QE. [Nate Tangersurat]  
See also: PSOBAT-1448
- Remove duplicate template. [Nate Tangersurat]  
See also: PSOBAT-1468
- Expand user path. [Nate Tangersurat]  
See also: PSOBAT-1468
- Use default of \$HOME. [Nate Tangersurat]  
See also: PSOBAT-1468
- INFO message env and region should be flipped. [Nate Tangersurat]  
See also: PSOBAT-1468
- Use safer dict.get() [Nate Tangersurat]  
See also: PSOBAT-1468
- Use AMI based on name and Region. [Nate Tangersurat]  
See also: PSOBAT-1468
- Default to tomcat8. [Nate Tangersurat]  
See also: PSOBAT-1468
- Use raw.properties.json for Base OS. [Nate Tangersurat]  
See also: PSOBAT-1468
- Strip out any quotes for `-base`. [Nate Tangersurat]  
See also: PSOBAT-1468
- Add “base” option to pipeline.json. [Nate Tangersurat]  
Base AMI will default to “tomcat” if not specified. Also added default deployment environments.  
See also: PSOBAT-1468

- Remove trailing comma. [Nate Tangersurat]  
Trailing commas turn normal assignments into tuple assignments, very hidden and confusing.  
See also: PSOBAT-1197
- Entry point command does not need *python* [Nate Tangersurat]  
See also: PSOBAT-1197
- Pip install foremast. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use *create-app* command for *pipes-app* [Nate Tangersurat]  
See also: PSOBAT-1197
- One reference to pipeline.json environments. [Nate Tangersurat]  
See also: PSOBAT-1197
- INFO message refers to blocks. [Nate Tangersurat]  
See also: PSOBAT-1197
- Prettify found envs and regions for Pipelines. [Nate Tangersurat]  
See also: PSOBAT-1197
- Put failure message in exception. [Nate Tangersurat]  
See also: PSOBAT-1197
- Remove unused import. [Nate Tangersurat]  
See also: PSOBAT-1197
- Region parameter should not be modified. [Nate Tangersurat]  
See also: PSOBAT-1197
- Slightly cleaner environment list. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use more concise error message for VPCs. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use generated details in `clean_pipelines()` [Nate Tangersurat]  
See also: PSOBAT-1197
- Echo variables. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use `cat` of `raw.properties` in place of `DEBUG`. [Nate Tangersurat]  
See also: PSOBAT-1197
- INFO for found ELB. [Nate Tangersurat]  
See also: PSOBAT-1197
- Simplify and notify during ELB searching. [Nate Tangersurat]  
See also: PSOBAT-1197

- Shorten ELB searching loop time. [Nate Tangersurat]  
See also: PSOBAT-1197
- Handle missing region for environments. [Nate Tangersurat]  
See also: PSOBAT-1197
- Pass environment to generator for DNS record. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use new relative import within directory. [Nate Tangersurat]  
See also: PSOBAT-1197
- Install foremast. [Nate Tangersurat]  
See also: PSOBAT-1197
- Remove debug modes. [Nate Tangersurat]  
See also: PSOBAT-1197
- Remove going back a directory for properties. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use SpinnakerAppNotFound exception. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use global `get_app_details()` [Nate Tangersurat]  
See also: PSOBAT-1197
- Add missing exception. [Nate Tangersurat]  
See also: PSOBAT-1197
- Remove unused imports. [Nate Tangersurat]  
See also: PSOBAT-1197
- Increase `check_task()` retry back to 100 sec. [Nate Tangersurat]  
See also: PSOBAT-1197
- Add message for `check_task()` assertion. [Nate Tangersurat]  
See also: PSOBAT-1197
- Poll Task ID a little faster. [Nate Tangersurat]  
See also: PSOBAT-1197
- Custom exceptions inherit from `SpinnakerError`. [Nate Tangersurat]  
See also: PSOBAT-1197
- Pass errors to super. [Nate Tangersurat]  
See also: PSOBAT-1197
- Correct error message. [Nate Tangersurat]  
See also: PSOBAT-1197
- Handle errors in `kato.tasks` [Nate Tangersurat]  
See also: PSOBAT-1197

- Use global exceptions and utils. [Nate Tangersurat]  
See also: PSOBAT-1197
- Use global `get_vpc_id`. [Nate Tangersurat]  
See also: PSOBAT-1359
- Use better help for `-elb-subnet`. [Nate Tangersurat]  
See also: PSOBAT-1359
- Use new Generator Archaius attributes. [Nate Tangersurat]  
See also: PSOBAT-1359
- Need to add Stages back into Pipeline. [Nate Tangersurat]  
See also: PSOBAT-1399
- Handle JSON data package. [Nate Tangersurat]  
See also: PSOBAT-1399
- Remove unused imports. [Nate Tangersurat]  
See also: PSOBAT-1399
- Handle new `get_template()` return. [Nate Tangersurat]  
See also: PSOBAT-1399
- Include *pipeline-templates* directory. [Nate Tangersurat]  
See also: PSOBAT-1399
- IAM use `API_URL`. [Nate Tangersurat]  
See also: PSOBAT-1399
- Remove unused import. [Nate Tangersurat]  
See also: PSOBAT-1399
- Update IAM to package utils. [Nate Tangersurat]  
See also: PSOBAT-1399
- Use dict unpacking for args. [Nate Tangersurat]  
See also: PSOBAT-1399
- App use `API_URL`. [Nate Tangersurat]  
See also: PSOBAT-1399
- Use centralized HTTP HEADERS. [Nate Tangersurat]  
See also: PSOBAT-1399
- Use centralized configs for Gate URL. [Nate Tangersurat]  
See also: PSOBAT-1399
- Use `json.dumps` for Security Groups. [Nate Tangersurat]  
See also: PSOBAT-1399
- More descriptive variable name. [Nate Tangersurat]  
See also: PSOBAT-1399

- TCP Health Check should not include a path. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use assert for check\_task() [Nate Tangsurat]  
This reads a little easier and uses more specific exceptions. Using *Exception* was not allowing *SpinnakerTaskError* to properly bubble out.  
See also: PSOBAT-1399
- Use assertion for ELB check\_task. [Nate Tangsurat]  
See also: PSOBAT-1399
- Move Health Check logic to class. [Nate Tangsurat]  
See also: PSOBAT-1399
- Pass args into init. [Nate Tangsurat]  
See also: PSOBAT-1399
- DEBUG appinfo. [Nate Tangsurat]  
See also: PSOBAT-1399
- Remove unneeded comment. [Nate Tangsurat]  
See also: PSOBAT-1399
- Simplify if to assert. [Nate Tangsurat]  
See also: PSOBAT-1399
- Set class attributes in init. [Nate Tangsurat]  
See also: PSOBAT-1399
- Remove unused import. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use utils.get\_template() [Nate Tangsurat]  
See also: PSOBAT-1399
- Logging level at root package name. [Nate Tangsurat]  
See also: PSOBAT-1113
- Update loggers. [Nate Tangsurat]  
See also: PSOBAT-1399
- Forgot new utils directory. [Nate Tangsurat]  
See also: PSOBAT-1399
- Allow DEBUG mode. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use utils for configs and templates. [Nate Tangsurat]  
See also: PSOBAT-1399
- Remove unused imports, use module docstring. [Nate Tangsurat]  
See also: PSOBAT-1399

- Use lazy logging format. [Nate Tangersurat]  
See also: PSOBAT-1399
- Remove unused imports. [Nate Tangersurat]  
See also: PSOBAT-1399
- Convert pipeline call to package. [Nate Tangersurat]  
See also: PSOBAT-1399
- Convert elb to package. [Nate Tangersurat]  
See also: PSOBAT-1399
- Use main() for create\_app. [Nate Tangersurat]  
See also: PSOBAT-1399
- Add all entrypoints. [Nate Tangersurat]  
See also: PSOBAT-1399
- Start gathering entry points. [Nate Tangersurat]  
See also: PSOBAT-1399
- Compose **foremast** package. [Nate Tangersurat]  
See also: PSOBAT-1399
- Remove init to prepare for movement. [Nate Tangersurat]  
See also: PSOBAT-1399
- Update logging messages. [Nate Tangersurat]  
See also: PSOBAT-1399
- Clean Pipelines matching “app\_name [region]” [Nate Tangersurat]  
See also: PSOBAT-1399
- Use envs from pipeline.json for construction. [Nate Tangersurat]  
See also: PSOBAT-1399

## Features

- Add Base AMI option for Bake Stage. [Nate Tangersurat]  
See also: PSOBAT-1468
- Start testing code. [Nate Tangersurat]  
See also: PSOBAT-1399

## Other

- V1.1. [Nate Tangersurat]
- Added passing of QE JSON to downstream job. [Joel Vasallo]
- Chore: Remove unused templates. [Nate Tangersurat]  
See also: PSOBAT-1468

- Tests: More lenient test. [Nate Tangsurat]  
AMI IDs will change in the future. All we care about is that we get an AMI ID.  
See also: PSOBAT-1468
- Tests: ami\_lookup() testing. [Nate Tangsurat]  
See also: PSOBAT-1468
- Update jenkins jobs to use simple bash script. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' [Sijis Aviles]
- Added minor TODO. [Sijis Aviles]
- Docs: Update running instructions. [Nate Tangsurat]  
See also: PSOBAT-1197
- Docs: Can run code from root of repository. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Remove unused import. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Remove extra INFO. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Reduce number of calls to get\_subnets() [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Remove some extra logging. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: No longer need regions in blocks. [Nate Tangsurat]  
The *data.app.regions* template variable exists in the Find Images Stage, which is no longer used with the de-compiled Pipeline blocks.  
See also: PSOBAT-1197
- Style: Use more descriptive variable names. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Extract construct\_pipeline\_block() [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Simplify blocks and extract functions. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Convert get\_settings() to staticmethod. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: get\_pipe\_id() -> get\_pipeline\_id() [Nate Tangsurat]  
See also: PSOBAT-1197
- Chore: Remove unneeded comments. [Nate Tangsurat]  
See also: PSOBAT-1197

- Refactor: `get_all_pipelines()`, `clean_pipelines()` [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Run create-pipeline only once at end. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Retab. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Move Region independent outside of loop. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Pull out ELB searching to utils. [Nate Tangsurat]  
See also: PSOBAT-1197
- Chore: Create bash runner. [Nate Tangsurat]  
See also: PSOBAT-1197
- Removed the options in manual judgement, as it made no sense. [Sijis Aviles]
- Style: Replase \* *with* \*any [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Use more descriptive variables. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Pass variables to template directly. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Sort utils init. [Nate Tangsurat]  
See also: PSOBAT-1197
- Docs: Make docstrings imperative sentences. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: New lines. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Reflow and format strings. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Space after class docstring. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Use global `API_URL` and `HEADERS`. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Docstring first line end in period. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Imperative mood for docstring. [Nate Tangsurat]  
See also: PSOBAT-1197



- Style: Use descriptive variable names. [Nate Tangsurat]  
See also: PSOBAT-1197
- Style: Reflow and remove unused import. [Nate Tangsurat]  
See also: PSOBAT-1197
- Refactor: Use global exceptions. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Check response.ok separately. [Nate Tangsurat]  
See also: PSOBAT-1359
- Docs: Fix up docstrings. [Nate Tangsurat]  
See also: PSOBAT-1359
- Merge branch 'fix/clean\_pipes' of git.gogoair.com:spinnaker/pipes into fix/clean\_pipes. [Sijis Aviles]
- Refactor: Use global API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Use global API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Use global HEADERS. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Use global API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1359
- Refactor: Use global API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1359
- Add judgement at beginning of stage. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' of git.gogoair.com:spinnaker/pipes into fix/clean\_pipes. [Sijis Aviles]
- Simplified generic stages template. [Sijis Aviles]
- Split stages and triggers into separate templates. [Sijis Aviles]
- Style: isort. [Nate Tangsurat]  
See also: PSOBAT-1399
- Initial split for better environment templates. [Sijis Aviles]
- Removing. We no longer used this. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' of git.gogoair.com:spinnaker/pipes into fix/clean\_pipes. [Sijis Aviles]
- Refactor: Use const API\_URL. [Nate Tangsurat]  
See also: PSOBAT-1399
- Fix iam. [Sijis Aviles]
- Fix references to get\_details. [Sijis Aviles]
- Fix s3 creation for archaius. [Sijis Aviles]
- Argument should have dashes, not underscores. [Sijis Aviles]

- Merge branch 'fix/clean\_pipes' of git.gogoair.com:spinnaker/pipes into fix/clean\_pipes. [Sijis Aviles]
- Refactor: Remove unused ELB template. [Nate Tangsurat]  
See also: PSOBAT-1399
- Tests: Create Pipeline utils moved to package. [Nate Tangsurat]  
See also: PSOBAT-1399
- Tests: Verify Health Check splaying works. [Nate Tangsurat]  
See also: PSOBAT-1399
- Style: Sort keys. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Use namedtuple for Health Check splay. [Nate Tangsurat]  
See also: PSOBAT-1399
- Use utils.get\_template. [Sijis Aviles]
- Moved exceptions to common exceptions. [Sijis Aviles]
- Refactor: Move logger into class. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Move task checking to create() [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Move ELB template logic into class. [Nate Tangsurat]  
See also: PSOBAT-1399
- Moved util methods to common utils. [Sijis Aviles]
- Move utils to common utils. [Sijis Aviles]
- Moved utils to common utils. [Sijis Aviles]
- Fix import typo. [Sijis Aviles]
- Moved utils to common utils. [Sijis Aviles]
- Moved constants. [Sijis Aviles]
- Move elb utils into utils. [Sijis Aviles]
- Add import of DeepChainMap to utils. [Sijis Aviles]
- Fixed exceptions and utils location. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' of git.gogoair.com:spinnaker/pipes into fix/clean\_pipes. [Sijis Aviles]
- Refactor: Use common HTTP headers. [Nate Tangsurat]  
See also: PSOBAT-1399
- Style: Reduce nesting function calls. [Nate Tangsurat]  
See also: PSOBAT-1399
- Style: Reflow and use single quotes. [Nate Tangsurat]  
See also: PSOBAT-1399

- Docs: Docstring details. [Nate Tangsurat]  
See also: PSOBAT-1399
- Moved exception into single location. [Sijis Aviles]
- Move DeepChainMap to utils. [Sijis Aviles]
- Refactor: Use common args. [Nate Tangsurat]  
See also: PSOBAT-1399
- Docs: Add module docstring for consts. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Normalize logging. [Nate Tangsurat]  
Use a universal logging format string and support the *-d* DEBUG flag.  
See also: PSOBAT-1399
- Refactor: Remove unused methods. [Nate Tangsurat]  
See also: PSOBAT-1399
- Docs: Installation and running instructions. [Nate Tangsurat]  
See also: PSOBAT-1399
- We need to include package data! [Sijis Aviles]
- Simplified the test cases. [Sijis Aviles]
- Adding templates and configurations to packaging. [Sijis Aviles]
- Change examples to use dashes, not underscores. [Sijis Aviles]
- Merge branch 'fix/clean\_pipes' of git.gogoair.com:spinnaker/pipes into fix/clean\_pipes. [Sijis Aviles]
- Refactor: Package app. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Package securitygroup. [Nate Tangsurat]  
See also: PSOBAT-1399
- Refactor: Convert dns to package. [Nate Tangsurat]  
See also: PSOBAT-1399
- Moved configs and templates into src path. [Sijis Aviles]
- Refactor: Use src/foremast/ [Nate Tangsurat]  
See also: PSOBAT-1399
- Updated manual judgement instructions for prods/prodp. [Sijis Aviles]
- Docs: Able to run from top level directory. [Nate Tangsurat]  
With *pipes/\_\_init\_\_.py*, *pipes* can override the builtin and packages can be called properly from the top level of the repository.  
See also: PSOBAT-1399
- Docs: Add usage and testing information. [Nate Tangsurat]  
See also: PSOBAT-1399

## v0.0 (2016-04-28)

### Fix

- Use generated Instance Profile. [Nate Tangersurat]  
Default to the generated Instance Profile name instead of “app\_default\_profile”.
- Remove pci and sox. [Nate Tangersurat]  
Force usages of bad names to fail now while we’re transitioning.
- Format Health Check path with slashes. [Nate Tangersurat]  
See also: PSOBAT-1113
- INFO Health Check properties. [Nate Tangersurat]  
See also: PSOBAT-1113
- Make AccessDenied errors more evident. [Nate Tangersurat]  
See also: PSOBAT-1113
- Use extended sequence unpacking for clarity. [Nate Tangersurat]  
See also: PSOBAT-1359
- Remove alerting for non-failures. [Nate Tangersurat]  
See also: PSOBAT-1359
- Simplify Stage reference IDs. [Nate Tangersurat]  
See also: PSOBAT-1359
- Hard code Git taggers. [Nate Tangersurat]  
See also: PSOBAT-1359
- DEBUG Regions dict. [Nate Tangersurat]  
See also: PSOBAT-1359
- Stage names corrected. [Nate Tangersurat]  
See also: PSOBAT-1359
- Lower case Pipeline names. [Nate Tangersurat]  
See also: PSOBAT-1372
- Minimize Pipeline notifications. [Nate Tangersurat]  
See also: PSOBAT-1374
- Convert bytes to string. [Nate Tangersurat]  
See also: PSOBAT-1374
- Include User Data. [Nate Tangersurat]  
See also: PSOBAT-1374
- Add ELB and SG name to templates. [Nate Tangersurat]
- Update Manual Judgement comment. [Nate Tangersurat]  
See also: PSOBAT-1361

- Use InstanceProfileName value to remove. [Nate Tangersurat]
- Start using master Branch again. [Nate Tangersurat]  
See also: PSOBAT-1250
- Add environments for IAM. [Nate Tangersurat]  
See also: PSOBAT-1344
- Subnets should be for elb. [Nate Tangersurat]  
See also: PSOBAT-1344
- Shorten logging. [Nate Tangersurat]  
See also: PSOBAT-1344
- INFO template text. [Nate Tangersurat]  
See also: PSOBAT-1344
- Pull AWS exception into exception message. [Nate Tangersurat]  
See also: PSOBAT-1344
- Update logging. [Nate Tangersurat]  
See also: PSOBAT-1344
- Use default Health Check path. [Nate Tangersurat]  
See also: PSOBAT-1344
- Flipped variables. [Nate Tangersurat]  
See also: PSOBAT-1344
- Forgot missing file. [Nate Tangersurat]  
See also: PSOBAT-1344
- Use region aware get\_vpc\_id() [Nate Tangersurat]  
See also: PSOBAT-1344
- Use subnet lookups for ELB. [Nate Tangersurat]  
See also: PSOBAT-1344
- Need to retry for a couple seconds for ELB. [Nate Tangersurat]  
See also: PSOBAT-1344
- No need to get first of array. [Nate Tangersurat]  
See also: PSOBAT-1344
- Change another variable name. [Nate Tangersurat]  
See also: PSOBAT-1344
- Change variable name. [Nate Tangersurat]  
See also: PSOBAT-1344
- Wrong health target variable. [Nate Tangersurat]  
See also: PSOBAT-1344

- Remove required for default arguments. [Nate Tangersurat]  
See also: PSOBAT-1344
- Format Health Check path. [Nate Tangersurat]  
See also: PSOBAT-1344
- Remove and simplify arguments. [Nate Tangersurat]  
See also: PSOBAT-1344
- Loop over regions. [Nate Tangersurat]  
See also: PSOBAT-1344
- Loop over environments. [Nate Tangersurat]  
See also: PSOBAT-1344
- Downstream to pipes-pipeline-prepare. [Nate Tangersurat]  
See also: PSOBAT-1344
- App calls prepare. [Nate Tangersurat]  
See also: PSOBAT-1344
- Remove. [Nate Tangersurat]
- Missed some values. [Nate Tangersurat]  
See also: PSOBAT-1342
- Update DSL. [Nate Tangersurat]  
See also: PSOBAT-1342
- Silence utils logging. [Nate Tangersurat]  
See also: PSOBAT-1342
- Only one Bake requisite. [Nate Tangersurat]  
See also: PSOBAT-1342
- One Bakery. [Nate Tangersurat]  
See also: PSOBAT-1212
- Typo, us-west-2. [Nate Tangersurat]  
See also: PSOBAT-1341
- Update us-west-2 back baseAmi. [Nate Tangersurat]  
See also: PSOBAT-1341
- Default region to us-east-1 when missing. [Nate Tangersurat]  
See also: PSOBAT-1342
- Add multi-regions to create Pipelines. [Nate Tangersurat]  
See also: PSOBAT-1342
- Template rendering with subnet list. [Nate Tangersurat]  
See also: PSOBAT-1212

- Log INFO by default. [Nate Tangsurat]  
See also: PSOBAT-1249
- Simplify App check. [Nate Tangsurat]  
Turns out Gate is case insensitive from our perspective, so Application names “TEST” == “teSt”.  
See also: PSOBAT-1248
- Break out of loop once Pipeline found. [Nate Tangsurat]  
See also: PSOBAT-1248
- Use ChainMap with deep resolution. [Nate Tangsurat]  
Need to override the default behaviour of collections.ChainMap to allow for nested dictionary lookups.
- Bring functions up to package level. [Nate Tangsurat]
- Give default “None” [Nate Tangsurat]  
See also: PSOBAT-548
- Handle ‘-git None’ [Nate Tangsurat]  
See also: PSOBAT-548
- Remove more arguments. [Nate Tangsurat]  
See also: PSOBAT-548
- Update command arguments. [Nate Tangsurat]  
See also: PSOBAT-548
- Use Spinnaker Application name for parsing. [Nate Tangsurat]  
See also: PSOBAT-548
- Call downstream from pipes-app. [Nate Tangsurat]  
See also: PSOBAT-548
- Support Git URI. [Nate Tangsurat]  
See also: PSOBAT-845
- Better file missing detection. [Nate Tangsurat]  
See also: PSOBAT-548
- Handle missing files. [Nate Tangsurat]  
See also: PSOBAT-845
- Use incoming Git URI. [Nate Tangsurat]  
See also: PSOBAT-548
- Support Git URIs. [Nate Tangsurat]  
See also: PSOBAT-548
- Configs update before writing outputs. [Nate Tangsurat]  
See also: PSOBAT-548
- Include configs.json.j2 template. [Nate Tangsurat]  
See also: PSOBAT-548

- Add single quotes around JSON objects. [Nate Tangersurat]  
See also: PSOBAT-548
- Use Git URI for application.json files. [Nate Tangersurat]  
See also: PSOBAT-548
- Add extra INFO message for appending. [Nate Tangersurat]
- Remove extra keyword argument. [Nate Tangersurat]
- Use new append\_variables() [Nate Tangersurat]
- Use shared library for generating names. [Nate Tangersurat]  
See also: PSOBAT-1116
- Remove *\_name* for more consistent variables. [Nate Tangersurat]  
See also: PSOBAT-1116
- Assert that command completed. [Nate Tangersurat]  
See also: PSOBAT-1116
- Return True for good run. [Nate Tangersurat]  
See also: PSOBAT-1116
- Move config read earlier. [Nate Tangersurat]  
See also: PSOBAT-1099
- Remove extra parenthesis. [Nate Tangersurat]  
See also: PSOBAT-1099
- Make app name part of Class init. [Nate Tangersurat]  
See also: PSOBAT-1099
- Update main to use newer Class methods. [Nate Tangersurat]  
See also: PSOBAT-1099
- Use kwargs for get\_template() [Nate Tangersurat]  
See also: PSOBAT-1099
- Double quotes JSON template. [Nate Tangersurat]  
See also: PSOBAT-1099

## Features

- Add Git Tagger stages. [Nate Tangersurat]  
See also: PSOBAT-1359
- Add two Bakes, one for each region. [Nate Tangersurat]  
See also: PSOBAT-1341
- ELB regions. [Nate Tangersurat]  
See also: PSOBAT-1212



- Allow manual Pipeline override. [Nate Tangersurat]  
See also: PSOBAT-1249
- Add Pipeline ID getter. [Nate Tangersurat]  
See also: PSOBAT-1248
- Environmentalized templates. [Nate Tangersurat]  
See also: PSOBAT-1248
- Also create .exports file for sourceability. [Nate Tangersurat]  
See also: PSOBAT-548
- Output JSON configurations. [Nate Tangersurat]  
See also: PSOBAT-548
- Inject application.json environment variables. [Nate Tangersurat]  
See also: PSOBAT-548
- Get application.json files from GitLab. [Nate Tangersurat]
- Add app.json configuration preparer. [Nate Tangersurat]
- Add gogo-utils to requirements. [Nate Tangersurat]  
See also: PSOBAT-1116
- Add IAM Resource creation command. [Nate Tangersurat]  
See also: PSOBAT-1116
- Create application.properties in S3. [Nate Tangersurat]  
See also: PSOBAT-1110
- Add debug flag. [Nate Tangersurat]  
See also: PSOBAT-1099
- Use Class logger. [Nate Tangersurat]  
See also: PSOBAT-1099

## Other

- Updated runway/dsl for app job. [Doug Campbell]
- Revert “cleaned up jenkins jobs” [Doug Campbell]  
This reverts commit c9a044c6970c652c5ec5b1bb33805847996d3b38.
- Cleaned up jenkins jobs. [Doug Campbell]
- Updated combine loop to account for deployment logs. [Doug Campbell]
- Updated template for processor jenkins job. [Doug Campbell]
- Fixed directory naming. [Doug Campbell]
- Added name tag to templates. [Doug Campbell]
- Merge branch ‘master’ of git.gogoair.com:spinnaker/pipes. [Doug Campbell]
- Fixed key naming for prods and prodp. [Doug Campbell]

- Changed prodsox/prodpci to props/prodp. [Doug Campbell]
- Fixed s3 prodsox/prodpci. [Doug Campbell]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Doug Campbell]
- Changed pci/sox to prodpci/prodsox. [Doug Campbell]
- More typo fixes in tempaltes. [Doug Campbell]
- Fixed typo. [Doug Campbell]
- Fixed issues in templates again. [Doug Campbell]
- Fixed elb naming int templates. [Doug Campbell]
- Fixed min instance issue. [Doug Campbell]
- Changed pipeline name. [Doug Campbell]
- Docs: Add refId example for Stages. [Nate Tangsurat]  
See also: PSOBAT-1359
- Style: Fix up whitespace and docstring. [Nate Tangsurat]  
See also: PSOBAT-1359
- Fixed big with region looping. [Doug Campbell]
- Added region support. [Doug Campbell]
- Added PCI template. [Doug Campbell]
- Fixed templating, added sox specific template. [Doug Campbell]
- Updated logic to combine pipelines. [Doug Campbell]
- Chore: Add TODO to consider using defaults always. [Nate Tangsurat]  
sbsagall posited that when an *application-{branch}-{env}.json* file is missing, should we default to the templated configuration? This could introduce the issue of people not being aware that they are using the defaults instead of needing to create the JSON file, but may be worth it.
- Docs: Spruce up docstrings. [Nate Tangsurat]  
See also: PSOBAT-1374
- Docs: Finished Manual Judgement. [Nate Tangsurat]  
See also: PSOBAT-1361
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Add all accounts when new application is creation. [Sijis Aviles]
- Docs: Add more TODOs. [Nate Tangsurat]  
See also: PSOBAT-1250
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Docs: Update with initial migration. [Nate Tangsurat]  
See also: PSOBAT-1250
- Fix desired capacity for trigger template. [Sijis Aviles]
- Desired capacity should use min\_inst defined. [Sijis Aviles]
- Added sox and pci to args. [Doug Campbell]

- Docs: Add note why server group is not used. [Nate Tangersurat]  
See also: PSOBAT-1250
- Docs: Add note on deployment environments. [Nate Tangersurat]  
See also: PSOBAT-1250
- Docs: Note about JSON Pipeline override. [Nate Tangersurat]  
See also: PSOBAT-1250
- Style: Correct spelling. [Nate Tangersurat]
- Style: Minor tuneup. [Nate Tangersurat]
- Docs: Add Jenkins Job note. [Nate Tangersurat]  
See also: PSOBAT-1250
- Style: Sort requirements. [Nate Tangersurat]  
See also: PSOBAT-1250
- Docs: Update basic task order. [Nate Tangersurat]  
See also: PSOBAT-1250
- Docs: Add trigger files. [Nate Tangersurat]  
See also: PSOBAT-1250
- Refactor: Have check\_task() raise exception. [Nate Tangersurat]  
See also: PSOBAT-1344
- Refactor: Add get\_vpc\_id() logging. [Nate Tangersurat]  
See also: PSOBAT-1344
- Revert “fix: Flipped variables” [Nate Tangersurat]  
This reverts commit bae37dde7495d57aec7d0f9d0497460b25770515.
- Update env name. [Sijis Aviles]
- Merge branch ‘feature/templates’ of git.gogoair.com:spinnaker/pipes into feature/templates. [Sijis Aviles]
- Fix typo in variable name. [Sijis Aviles]
- Simplified elb creation. [Sijis Aviles]
- Chore: Remove extra parameters. [Nate Tangersurat]  
See also: PSOBAT-1344
- Docs: Add –region to example docstring. [Nate Tangersurat]  
See also: PSOBAT-1344
- Style: Docstrings and formatting. [Nate Tangersurat]
- Fix bug where find image was referring itself instead of previous environment. [Sijis Aviles]
- Changed cluster to pipename. [Doug Campbell]
- Added sox to env. [Doug Campbell]
- Fixy. [Nate Tangersurat]
- Fix. [Nate Tangersurat]

- Style: YAPF. [Nate Tangersurat]
- Docs: Update pipe finding logs. [Nate Tangersurat]  
See also: PSOBAT-1342
- Add full pipeline name created. [Sijis Aviles]
- Fixed missed variables in template. [Sijis Aviles]
- Specify the template in us-west-2. [Sijis Aviles]
- Pipeline names now include region. [Sijis Aviles]

Posting is a separate method which allows us to iterate over the regions. Also cleaned up deleting older pipelines based on region name.

- Merge branch 'feature/templates' of git.gogoair.com:spinnaker/pipes into feature/templates. [Sijis Aviles]
- Fixed additional changes in variable name. [Sijis Aviles]
- Fix account in deployment step. [Sijis Aviles]
- Use environment variable. [Sijis Aviles]
- Use find images, instead of a rebake. [Sijis Aviles]
- Remove aws\_region key, as that's moved to a different level. [Sijis Aviles]
- Add default regions. [Sijis Aviles]
- Docs: More DEBUG. [Nate Tangersurat]  
See also: PSOBAT-1212
- Test: Add sample override. [Nate Tangersurat]  
See also: PSOBAT-1212
- Merge branch 'feature/templates' of git.gogoair.com:spinnaker/pipes into feature/templates. [Sijis Aviles]
- Removed html comments. [Doug Campbell]
- Added retries, since it has been timing out. [Sijis Aviles]
- Remove print statement. [Sijis Aviles]
- Merge branch 'feature/templates' of git.gogoair.com:spinnaker/pipes into feature/templates. [Doug Campbell]
- Merge branch 'feature/templates' of git.gogoair.com:spinnaker/pipes into feature/templates. [Sijis Aviles]
- Add pci as a valid file. [Sijis Aviles]
- Capture other pci and sox related application.json files. [Sijis Aviles]
- Fixed dictionary region issue. [Doug Campbell]
- Changed input values. [Doug Campbell]
- Merge branch 'feature/templates' of git.gogoair.com:spinnaker/pipes into feature/templates. [Doug Campbell]
- Add parameter for location of combined json file. [Sijis Aviles]
- Merge branch 'feature/templates' of git.gogoair.com:spinnaker/pipes into feature/templates. [Sijis Aviles]
- Ensure local runway lookup uses same list as gitlab lookup. [Sijis Aviles]
- Fixed reference to trigger job. [Doug Campbell]
- Fixed triggerjob reference. [Doug Campbell]

- Removed notifications for each stage for pipelines. [Doug Campbell]
- Merge branch 'feature/templates' of git.gogoair.com:spinnaker/pipes into feature/templates. [Sijis Aviles]
- Style: Reflow. [Nate Tangsurat]  
See also: PSOBAT-1212
- Renamed typo method. [Sijis Aviles]
- Add subnets to region. [Sijis Aviles]
- Pep8 fixes. [Sijis Aviles]
- Moved utility to pipeline. [Sijis Aviles]
- Ensure region is passed to template. [Sijis Aviles]
- Merge branch 'feature/templates' of git.gogoair.com:spinnaker/pipes into feature/templates. [Sijis Aviles]
- Chore: Wrap comment. [Nate Tangsurat]  
See also: PSOBAT-1249
- Chore: DEBUG delete response. [Nate Tangsurat]  
See also: PSOBAT-1249
- Docs: Add docstrings. [Nate Tangsurat]  
See also: PSOBAT-1249
- Docs: DEBUG pipeline creation response. [Nate Tangsurat]  
See also: PSOBAT-1249
- Refactor: Pipeline template rendering. [Nate Tangsurat]  
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- Full region support. [Sijis Aviles]
- Merge branch 'feature/templates' of git.gogoair.com:spinnaker/pipes into feature/templates. [Sijis Aviles]
- Remove pipeline if not defined in pipeline.json. [Sijis Aviles]
- Split out getting all pipelines. [Sijis Aviles]
- Renamed stage names regarding QE. [Sijis Aviles]
- Fixed errors in generated pipeline template. [Sijis Aviles]
- Refactor: Conver get\_settings() to @staticmethod. [Nate Tangsurat]  
See also: PSOBAT-1248
- Style: Lazy logging. [Nate Tangsurat]  
See also: PSOBAT-1248
- Style: Fix variable names. [Nate Tangsurat]  
See also: PSOBAT-1248
- Docs: Add docstrings. [Nate Tangsurat]  
See also: PSOBAT-1248
- Style: YAPF. [Nate Tangsurat]  
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- Remove dead code. [Sijis Aviles]
- Use a different template, if not first environment. [Sijis Aviles]
- Add example pipeline trigger template. [Sijis Aviles]
- Ensure environment defaults are also given with a defined pipeline.json. [Sijis Aviles]
- Add ability to parse and handle pipeline.json. [Sijis Aviles]
- Enhanced tickets validation logging. [Fadi Almasri]
- Adding `__init__.py` to jira-validator. [Fadi Almasri]
- Created JIRA ticket validator. [Fadi Almasri]
- Docs: Update docstring. [Nate Tangsurat]
- Docs: Extra DEBUG for skipped keys. [Nate Tangsurat]
- Refactor: Wrap INI lining in function. [Nate Tangsurat]
- Changed cluster name to app name. [Doug Campbell]
- DSL.groovy update to include APP generation. [Doug Campbell]
- Fixed argparse error. [Doug Campbell]
- Updated DSL.groovy to include pipeline creation. [Doug Campbell]
- Added `trigger_job` to create pipeline. [Doug Campbell]
- Removed stage step. [Steven Basgall]
- Commented out stage. [Steven Basgall]
- Added relative path. [Steven Basgall]
- Updated json name. [Steven Basgall]
- Added appname. [Steven Basgall]
- Remove `elb_name` from job parameters. [Sijis Aviles]
- Merge branch 'master' of `git.gogoair.com:spinnaker/pipes`. [Sijis Aviles]
- Disable `elb_name` and assume `app_name` instead. [Sijis Aviles]
- Remove `vpc` parameter. [Sijis Aviles]

We are able to get that detail based on the account/environment, so we are using that instead.

- Docs: DEBUG GitLab file retrieval. [Nate Tangsurat]  
See also: PSOBAT-548
- Docs: Extra INFO message for writing JSON. [Nate Tangsurat]  
See also: PSOBAT-548
- Refactor: Move file writing to `outputs.py`. [Nate Tangsurat]  
See also: PSOBAT-548
- Various pipeline updates. [Steven Basgall]
- Updates for jenkins execution. [Steven Basgall]
- Initial variables from app metadata source. [Steven Basgall]
- Merge app json with `app_info` dict. [Steven Basgall]

- Added requests - import order. [Steven Basgall]
- Removed prep step from pipeline template. [Steven Basgall]
- Wrong path. [Sijis Aviles]
- Another attempt to source env variables. [Sijis Aviles]
- Only getting EUREKA env variables. [Sijis Aviles]
- Source the file that's configs output. [Sijis Aviles]
- Force uppercase ENV. [Sijis Aviles]
- Force bash. [Sijis Aviles]
- Add missing quote. [Sijis Aviles]
- Better conditional check for eureka. [Sijis Aviles]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Revert "fix: Use Git URI for application.json files" [Nate Tangsurat]  
This reverts commit f9a156d72ecb85ffc36b11cfcbb84227e924d87e.
- Add sections to scripts. [Sijis Aviles]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Checking for eureka parameters are set. [Sijis Aviles]
- Remove wrong param sent to iam script. [Sijis Aviles]
- Remove app creation from prepare job. [Sijis Aviles]
- Changed repo param to use GIT\_REPO env variable. [Sijis Aviles]
- Unify all scripts into prepare. [Sijis Aviles]
- A different way to comment out the section. [Sijis Aviles]
- Disabling prep job. [Sijis Aviles]
- Added application group throughout. [Steven Basgall]
- Updated pipeline creation template. [Steven Basgall]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Doug Campbell]
- Changed default template. [Steven Basgall]
- Initial variables in pipeline template. [Steven Basgall]
- Fix syntax. [Sijis Aviles]
- Add elb and dns jobs to prep. [Sijis Aviles]
- Update graphite metric name. [Sijis Aviles]
- Use spinnaker app properties for group/project details. [Sijis Aviles]
- Update to use new gate api. [Sijis Aviles]
- Use project and repo slugs instead of url. [Sijis Aviles]
- Update check, since it returns nodata. [Sijis Aviles]
- Fix json syntax. [Sijis Aviles]
- Added script to get availability zones. [Doug Campbell]

- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Doug Campbell]
  - Create pipeline creation. [Sijis Aviles]
  - Added test template. [Doug Campbell]
  - Updated template without tags. [Doug Campbell]
  - Increased retry timeout. [Fadi Almasri]
  - First commit with create pipelines. [Doug Campbell]
  - Set ELB\_SUBNET as a choice parameter. [Sijis Aviles]
  - Sync all parameters to prepare job. [Sijis Aviles]
  - Update elb params job. [Sijis Aviles]
  - S3: Changed param from group to project. [Sijis Aviles]
  - Add iam and s3 downstream. [Sijis Aviles]
  - Block only works on 1.38. disabling for now. [Sijis Aviles]
  - Moving more things around. [Sijis Aviles]
  - Fix typo of publisher. [Sijis Aviles]
  - Trying different publisher. [Sijis Aviles]
  - Add trigger job to prepare. [Sijis Aviles]
  - Chore: Add token for pipes-app. [Nate Tangsurat]
- See also: PSOBAT-1140
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
  - Bugfix for healthcheck string. [Fadi Almasri]
  - Added some logic to figure out the health check string if the protocol is not HTTP. [Fadi Almasri]
  - Updated user to mention its from a script. [Sijis Aviles]
  - Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
  - Changed gate endpoint address. [Fadi Almasri]
  - Create pipeline-prepare job. [Sijis Aviles]
  - Add newline character to parameter. [Sijis Aviles]
  - Updated Gate URL to new API. [Doug Campbell]
  - Removed existing checker. [Doug Campbell]
  - Tchanged healthoverride check to true. [Doug Campbell]
  - Add pipeline job skeleton. [Sijis Aviles]
  - Update dns pipe job to reflect script changes. [Sijis Aviles]
  - Add elb\_subnet parameter, instead of using app.json settings. [Sijis Aviles]
  - Add sauce related files. [Sijis Aviles]
  - Remove stack parameter. [Sijis Aviles]
  - Uppercased all parameters sent to scripts. [Sijis Aviles]
  - Update app and elb. [Sijis Aviles]



- Linting. [Sijis Aviles]
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- Keep consistent interfaces. [Sijis Aviles]
- Add build as a possible environment option. [Sijis Aviles]
- Add build as available environment. [Sijis Aviles]
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- Linting updates. [Sijis Aviles]
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- Add detail param, even though not current used. [Sijis Aviles]
- Reorganized list and set default for APP. [Sijis Aviles]
- Add securitygroup pipes job. [Sijis Aviles]
- Fix possible multiline error. [Sijis Aviles]
- Renamed variable to be more explicit. [Sijis Aviles]
- Removed app-stack from create\_elb. [Fadi Almasri]
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- Use single quotes for multiple lines. [Sijis Aviles]
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- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
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- Add jenkins job. [Sijis Aviles]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Fixed typos. [Steven Basgall]
- Remove unused parameter. [Sijis Aviles]
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- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Docs: Update docstrings. [Nate Tangsurat]  
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- Get application and dns details. [Sijis Aviles]
- Lint updates. [Sijis Aviles]
- Remove unused import. [Sijis Aviles]
- Updated .gitignore. [Sijis Aviles]
- Remove venv. [Sijis Aviles]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Added better logging. [Doug Campbell]
- Yapf. [Doug Campbell]
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- Add stack name to template. [Doug Campbell]
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- Use a json template to create dns record. [Sijis Aviles]
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- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Removed an extra line. [Fadi Almasri]
- Added logging config. [Fadi Almasri]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Fadi Almasri]
- Added retry logic to check the elb creation status. [Fadi Almasri]
- Enabling creation of security groups. [Sijis Aviles]
- Fixed argparse lists and template. [Doug Campbell]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Logging and sync-up. [Fadi Almasri]
- Add better help message for arguments. [Sijis Aviles]
- Add better description of security group in template. [Sijis Aviles]
- Properly check for returned status. [Sijis Aviles]
- Simplified variables names. [Sijis Aviles]
- Fixed tasks path check. [Sijis Aviles]
- Docs: Link to requirements. [Nate Tangsurat]  
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- Docs: Note application.properties in Tasks. [Nate Tangsurat]  
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- Docs: Fix spelling. [Nate Tangsurat]  
See also: PSOBAT-1110
- Docs: Add boto3 note. [Nate Tangsurat]  
See also: PSOBAT-1110
- Docs: Format more markdown-like. [Nate Tangsurat]  
See also: PSOBAT-1110
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Fixed credentials issue and default role. [Doug Campbell]
- Removed a testing file. [Fadi Almasri]
- Fixed the JSON escaping problem. [Fadi Almasri]
- Adding retries for checking task status. [Sijis Aviles]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Doug Campbell]
- Chore: Remove unused import and variable. [Nate Tangsurat]  
See also: PSOBAT-1099
- Added jinja2 environment loading for elb. [Doug Campbell]
- Bunch of bug fixes. [Fadi Almasri]
- Remove subnet, as its not being used. [Sijis Aviles]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Fixing merge conflict. [Fadi Almasri]
- Base template for elb creation. [Fadi Almasri]
- Return True on successful creation of security group. [Sijis Aviles]
- Add debug output of rendered json. [Sijis Aviles]
- Fix template to use correct security group name. [Sijis Aviles]
- Reorder variables so dependencies can work. [Sijis Aviles]
- Fix syntax error. [Sijis Aviles]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Chore: DEBUG just config sections. [Nate Tangsurat]  
See also: PSOBAT-1099
- Add logic to create security group. [Sijis Aviles]
- Pass a dict of appinfo details instead of multiple parameters. [Sijis Aviles]  
Eventually we will need all the application details, so its simpler to pass a dict with all the values rather than specifying each specific parameter needed in the class.
- Format url string. [Sijis Aviles]

- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Chore: Add DEBUG output of parsed arguments. [Nate Tangsurat]  
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- Style: YAPF. [Nate Tangsurat]  
See also: PSOBAT-1099
- Style: Remove extra newlines. [Nate Tangsurat]  
See also: PSOBAT-1099
- Update app\_exists to return str or raise if app is not found. [Sijis Aviles]
- Docs: Add Class docstring. [Nate Tangsurat]  
See also: PSOBAT-1099
- Docs: Move comments to docstrings. [Nate Tangsurat]  
See also: PSOBAT-1099
- Style: JSON prettify. [Nate Tangsurat]  
See also: PSOBAT-1099
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Sijis Aviles]
- Refactor: Use reusable template rendering. [Nate Tangsurat]  
See also: PSOBAT-1099
- Refactor: Pull out configuration parsing. [Nate Tangsurat]  
See also: PSOBAT-1099
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Doug Campbell]
- Docs: Add module docstring. [Nate Tangsurat]  
See also: PSOBAT-1099
- Fixed template and setup sginfo dict. [Doug Campbell]
- Changed to r.ok. [Doug Campbell]
- Add security group template. [Sijis Aviles]
- Add securitygroup. [Sijis Aviles]
- Updated arg parse and logic in servergroups. [Doug Campbell]
- Added global configuration. [Doug Campbell]
- Removed description, was unnecessary. [Doug Campbell]
- Templatized the servergroup json. [Doug Campbell]
- First commit for servergroup stuff, added template and skel. [Doug Campbell]
- Added \_\_init\_\_ and renamed main. [Doug Campbell]
- Merge branch 'master' of git.gogoair.com:spinnaker/pipes. [Doug Campbell]
- Initial commit for elb module. [Fadi Almasri]
- Working template, no more forseen modifications for application creation. [Doug Campbell]
- Working code, successfully creates app. [Doug Campbell]

- Made name a required field and reorganized logging. [Doug Campbell]
- Added argparse and appinfo dict construction. Fixed templating quotes also. [Doug Campbell]
- Added method comments. [Doug Campbell]
- Reformed code, made appinfo part of the class. [Doug Campbell]
- Moved requirements to toplevel, added jinja2. [Doug Campbell]
- Reorganized a bit. [Doug Campbell]
- Added readme. [Doug Campbell]
- Formated app\_date template. [Doug Campbell]
- Added config directory and templates dir. [Doug Campbell]
- Added git ignore. [Doug Campbell]
- Added template and more functions, still mostly skeleton code. [Doug Campbell]
- First commit of app script. [Doug Campbell]



Foremast is a Spinnaker pipeline and infrastructure configuration and templating tool. Just create a couple JSON configuration files and then manually creating Spinnaker pipelines becomes a thing of the past.

### Why Foremast?

- No manual creation of pipelines in the Spinnaker UI
- Reproducible and versioned Spinnaker pipelines
- Standardized pipelines with flexibility for application specific needs

With Foremast, Developers create a couple simple JSON configs per application. These configs provide details on the pipeline and infrastructure specific to the application's needs. Foremast takes those configs, renders some Jinja2 templates, and then acts as a client for the Spinnaker Gate API. Foremast comes with generic templates for creating a simple pipeline but it can also point to external templates for custom pipelines that fit any workflow.

### Foremast Features

- Dynamically generate Spinnaker pipelines based on JSON configs
- Customizable pipelines through external Jinja2 Templates, see [Foremast templates](#) for examples
- Dynamically generate AWS infrastructure based on pipeline configs
- Set up resources not defined in Spinnaker, such as S3 buckets and IAM roles
- Support for AWS Lambda pipelines

### Getting Started

Take a look at [quick start guide](#) for a quick introduction on how to use Foremast.

We also have a blog post to help you get started: [Automate Spinnaker Pipeline Creation](#)

## Documentation

All the documentation can be viewed on [Read the Docs](#). You can find all configuration options, code information, and better examples there.

## Development

See the [contribution guide](#) for information on code style, contributing, and testing.

## Getting Help

For questions, support, or friendly conversation you can find us on [Gitter](#).

## More Details

### Installing

Installing the package will provide CLI commands for convenience.

```
virtualenv -p python3 venv
source venv/bin/activate
pip install foremast
```

### Entry Points

Foremast has a few easy to use CLI endpoints.

- `foremast-pipeline` - Creates an application and pipeline Spinnaker
- `foremast-infrastructure` - Sets up AWS infrastructure like s3, iam, elb, and security groups
- `foremast-pipeline-onetime` - Generates a pipeline for deploying to one specific account
- `foremast-scaling-policy` - Creates and attaches a scaling policy to an application server group.
- `foremast-pipeline-rebuild` - rebuild pipelines after changes have been made

You can run any of these entries points from the command line. They rely on environment variables and are ideal for running in a Jenkins job

```
PROJECT=forrest GIT_REPO=core RUNWAY_DIR=path/to/pipeline_configs foremast-pipeline
```

### Foremast Configuration

A file at `{pwd}/.foremast/foremast.cfg`, `~/.foremast/foremast.cfg`, or `/etc/foremast/foremast.cfg` needs to exist in order to run foremast.



```
[base]
domain = example.com
envs = dev,stage,prod
regions = us-east-1
gate_api_url = http://gate.example.com:8084
```

## Runway Configuration Files

To begin using Foremast, you must have a few JSON configuration files defined for each application

### pipeline.json

This file will be needed for each application. Foremast has a lot of defaults in place for `pipeline.json`, take a look at the [pipeline.json docs](#) for all options.

#### *Minimum*

```
{
  "deployment": "spinnaker"
}
```

#### *Example Deployment Environments Override*

Custom deployment environment order and selection can be provided in the `env` key. When missing, the default provided is `{"env": ["stage", "prod"]}`. Here, the order matters and Pipeline will be generated in the given order.

```
{
  "deployment": "spinnaker",
  "env": [
    "prod"
  ]
}
```

### application-master-{env}.json

Each deployment environment specified in the `pipeline.json` file will need an accompanying `application-master-{env}.json` file in the same directory.

The `application-master-{env}` files have a lot of exposed values with sane defaults. Please take a look at the [application.json docs](#) for all options.

#### *application-master-{env}.json example*

```
{
  "security_group": {
    "description": "something useful",
    "elb_extras": ["sg_offices"],
    "ingress": {
    },
    "egress": "0.0.0.0/0"
  },
  "app": {
    "instance_type": "t2.small",
    "app_description": "Edge Forrest Demo application",
  }
}
```

```
    "instance_profile": "forrest_edge_profile"
  },
  "elb": {
    "subnet_purpose": "internal",
    "target": "TCP:8080",
    "ports": [
      {"loadbalancer": "HTTP:80", "instance": "HTTP:8080"}
    ]
  },
  "asg": {
    "subnet_purpose": "internal",
    "min_inst": 1,
    "max_inst": 1,
    "scaling_policy": {
      "metric": "CPUUtilization",
      "threshold": 90,
      "period_minutes": 10,
      "statistic": "Average"
    }
  },
  "regions": ["us-east-1"],
  "dns": {
    "ttl": 120
  }
}
```

## CHAPTER 3

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### Indices and tables

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