
LeanCloud-Python-SDK Documentation

1.0.0

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```
leancloud.init (app_id, app_key=None, master_key=None, hook_key=None)  
LeanCloud AppId / AppKey / MasterKey
```

- **app_id** (*string_types*) – Application ID
- **app_key** (*None or string_types*) – Application Key
- **master_key** (*None or string_types*) – Master Key
- **hook_key** (*None or string_type*) – application’s hook key

```
leancloud.use_master_key (flag=True)  
master key leancloud.init master key
```

```
leancloud.use_production (flag)  
/ cloud func / cloud hook
```

```
leancloud.use_region (region)
```

```
class leancloud.FriendshipQuery (query_class)  
leancloud.query.Query
```

```
class leancloud.LeanCloudError (code, error)  
exceptions.Exception
```

```
class leancloud.LeanCloudWarning  
exceptions.UserWarning
```

1.1 Object

```
class leancloud.Object (**attrs)  
object
```

add (*attr, item*)

- **attr** –
- **item** –

add_unique (*attr, item*)

- **attr** –
- **item** –

static as_class (*arg*)

bit_and (*attr, value*)

bit_or (*attr, value*)

bit_xor (*attr, value*)

clear ()

classmethod create (*class_name, **attributes*)
leancloud.Object

- **class_name** (*string_types*) –
- **attributes** –

Object

classmethod create_without_data (*id_*)
objectId leancloud.Object fetch

id (*string_types*) – objectId

Object

destroy ()
None

classmethod destroy_all (*objs*)
destroy leancloud.Object

objs (*list*) – destroy

disable_after_hook ()

disable_before_hook ()

dump ()

classmethod extend (*name*)
leancloud.Object

name (*string_types*) –

ObjectMeta

fetch (*select=None, include=None*)

get (*attr, default=None*)
attr (*string_types*) -

get_acl ()
 ACL
 ACL
leancloud.ACL

has (*attr*)
attr -
 True False
 bool

ignore_hook (*hook_name*)

increment (*attr, amount=1*)

- **attr** -
- **amount** -

is_dirty (*attr=None*)

is_existed ()

is_new ()
 bool

relation (*attr*)
 Relation
attr (*string_types*) -
 Relation
leancloud.Relation

remove (*attr, item*)

- **attr** -
- **item** -

save (*where=None, fetch_when_save=None*)
 None
 None

```
classmethod save_all (objs)
    save leancloud.Object
        objs (list) – save

set (key_or_attrs, value=None, unset=False)

    • key_or_attrs (string_types or dict) – / dict
    • value –
    • unset –

set_acl (acl)
    ACL

unset (attr)
    attr –

validate (attrs)
```

1.2 User

```
class leancloud.User (**attrs)
    leancloud.object_.Object

    add (attr, item)

        • attr –
        • item –

    add_unique (attr, item)

        • attr –
        • item –

    static as_class (arg)

    classmethod become (session_token)
        session token
            session_token – session token
            leancloud.User

    bit_and (attr, value)
    bit_or (attr, value)
    bit_xor (attr, value)
```


clear()

classmethod create (*class_name*, ****attributes**)
leancloud.Object

- **class_name** (*string_types*) -
- **attributes** -

Object

classmethod create_follower_query (*user_id*)

classmethod create_follower_query (*user_id*)

classmethod create_without_data (*id_*)
objectId leancloud.Object fetch

id (*string_types*) - objectId

Object

destroy()
None

classmethod destroy_all (*objs*)
destroy leancloud.Object

objs (*list*) - destroy

disable_after_hook ()

disable_before_hook ()

dump ()

classmethod extend (*name*)
leancloud.Object

name (*string_types*) -

ObjectMeta

fetch (*select=None, include=None*)

follow (*target_id*)
target_id - id

get (*attr, default=None*)
attr (*string_types*) -

get_acl ()
ACL

ACL

leancloud.ACL

```
classmethod get_current ()
get_email ()
get_mobile_phone_number ()
get_roles ()
get_session_token ()
get_username ()
has (attr)
    attr -
    True False
    bool
ignore_hook (hook_name)
increment (attr, amount=1)
    • attr -
    • amount -

is_authenticated ()
    session_token session_token
is_current
is_dirty (attr=None)
is_existed ()
is_linked (provider)
is_new ()
    bool
link_with (provider, third_party_auth_data)
login (username=None, password=None)
    sessionToken
classmethod login_with (platform, third_party_auth_data)
    User
    param platform: base string
classmethod login_with_mobile_phone (phone_number, password)
logout ()
refresh_session_token ()
    session token
relation (attr)
    Relation
    attr (string_types) -
    Relation
```

leancloud.Relation

remove (*attr, item*)

- **attr** –
- **item** –

classmethod request_email_verify (*email*)

classmethod request_login_sms_code (*phone_number, validate_token=None*)

classmethod request_mobile_phone_verify (*phone_number, validate_token=None*)

classmethod request_password_reset (*email*)

classmethod request_password_reset_by_sms_code (*phone_number, validate_token=None*)

classmethod reset_password_by_sms_code (*sms_code, new_password*)

save (*make_current=False*)

classmethod save_all (*objs*)

save leancloud.Object

objs (*list*) – save

session_token

set (*key_or_attrs, value=None, unset=False*)

- **key_or_attrs** (*string_types or dict*) – / dict
- **value** –
- **unset** –

set_acl (*acl*)

ACL

classmethod set_current (*user*)

set_email (*email*)

set_mobile_phone_number (*phone_number*)

set_password (*password*)

set_username (*username*)

sign_up (*username=None, password=None*)

User save username password

classmethod signup_or_login_with_mobile_phone (*phone_number, sms_code*)

param phone_nubmer: string_types param sms_code: string_types

request_sms_code sms code

unfollow (*target_id*)

target_id – id

```
unlink_from(provider)
unset(attr)
    attr -

update_password(old_password, new_password)
validate(attrs)
classmethod verify_mobile_phone_number(sms_code)
```

1.3 File

```
class leancloud.File(name="u", data=None, mime_type=None)
    object
    classmethod create_with_url(name, url, meta_data=None, mime_type=None)
    classmethod create_without_data(object_id)
    destroy()
    fetch()
    get_acl()
    get_thumbnail_url(width, height, quality=100, scale_to_fit=True, fmt='png')
    metadata
    mime_type
    name
    owner_id
    query = <leancloud.query.Query object>
    save()
    set_acl(acl)
    set_mime_type
    size
    url
```

1.4 Query

```
class leancloud.Query(query_class)
    object
    add_ascending(key)
        key -
        Query
```

add_descending (*key*)
key –
Query

classmethod and_ (**queries*)
 Query AND
queries –
Query

ascending (*key*)
key –
Query

contained_in (*key, values*)

- **key** –
- **values** (*list or tuple*)–

Query

contains (*key, value*)

- **key** –
- **value** –

Query

contains_all (*key, values*)

- **key** –
- **values** (*list or tuple*)–

Query

count ()
 int

descending (*key*)
key –
Query

classmethod do_cloud_query (*cql, *pvalues*)
 CQL CQL

- **cql** – CQL
- **pvalues** –

 CQLResult

does_not_exist (*key*)
key –
Query

does_not_match_key_in_query (*key, query_key, query*)

- **key** –
- **query_key** –
- **query** (*Query*) –

Query

does_not_match_query (*key, query*)

- **key** –
- **query** (*Query*) –

Query

dump ()

dict

endswith (*key, value*)

- **key** –
- **value** –

Query

equal_to (*key, value*)

- **key** –
- **value** –

Query

exists (*key*)

key –

Query

find ()

list

first ()

Object

Raise LeanCloudError

get (*object_id*)

objectId

object_id – *objectId*

Object

greater_than (*key, value*)

- **key** –
- **value** –

Query

greater_than_or_equal_to (*key, value*)

- **key** –
- **value** –

Query

include (**keys*)

- **keys** –

Query

include_acl (*value=True*)

ACL

- **value** (*bool*) – ACL True

Query

less_than (*key, value*)

- **key** –
- **value** –

Query

less_than_or_equal_to (*key, value*)

- **key** –
- **value** –

Query

limit (*n*)

100 1000

- **n** –

Query

matched (*key, regex, ignore_case=False, multi_line=False*)

- **key** –
- **regex** –
- **ignore_case** –
- **multi_line** –

Query

matches_key_in_query (*key, query_key, query*)

- **key** –
- **query_key** –
- **query** (*Query*) –

Query

matches_query (*key, query*)

- **key** –
- **query** (*Query*) –

Query

near (*key, point*)

- **key** –
- **point** –

Query

not_contained_in (*key, values*)

- **key** –
- **values** (*list or tuple*) –

Query

not_equal_to (*key, value*)

- **key** –
- **value** –

Query

classmethod or_ (**queries*)

Query OR

- **queries** –

Query

scan (*batch_size=None, scan_key=None*)

select (**keys*)

- **keys** –

Query

size_equal_to (*key, size*)

- **key** –
- **size** –

Query

skip (*n*)

n –

Query

startswith (*key, value*)

• **key** –

• **value** –

Query

within_geo_box (*key, southwest, northeast*)

• **key** –

• **southwest** –

• **northeast** –

Query

within_kilometers (*key, point, max_distance, min_distance=None*)

• **key** –

• **point** –

• **max_distance** –

• **min_distance** –

Query

within_miles (*key, point, max_distance, min_distance=None*)

• **key** –

• **point** –

• **max_distance** –

• **min_distance** –

Query

within_radians (*key, point, max_distance, min_distance=None*)

• **key** –

• **point** –

• **max_distance** –

• **min_distance** –

Query

1.5 Relation

```
class leancloud.Relation (parent, key=None)
    object

    add (*obj_or_objs)
        leancloud.Object Relation
            obj_or_objs -

    dump ()

    query
        Relation Query
            leancloud.Query

    remove (*obj_or_objs)
        Relation leancloud.Object
            obj_or_objs -

    classmethod reverse_query (parent_class, relation_key, child)
        Query Relation

        • parent_class -
        • relation_key - Relation
        • child -
        leancloud.Query
```

1.6 Role

```
class leancloud.Role (name=None, acl=None)
    leancloud.object_.Object

    add (attr, item)

        • attr -
        • item -

    add_unique (attr, item)

        • attr -
        • item -

    static as_class (arg)

    bit_and (attr, value)
```

bit_or (*attr, value*)

bit_xor (*attr, value*)

clear ()

classmethod create (*class_name, **attributes*)
leancloud.Object

- **class_name** (*string_types*) –
- **attributes** –

Object

classmethod create_without_data (*id_*)
objectId leancloud.Object fetch
id (*string_types*) – objectId

Object

destroy ()
None

classmethod destroy_all (*objs*)
destroy leancloud.Object
objs (*list*) – destroy

disable_after_hook ()

disable_before_hook ()

dump ()

classmethod extend (*name*)
leancloud.Object
name (*string_types*) –

ObjectMeta

fetch (*select=None, include=None*)

get (*attr, default=None*)
attr (*string_types*) –

get_acl ()
ACL

ACL

leancloud.ACL

```
get_name ()
    Role name role.get('name')

get_roles ()

get_users ()
    Role

has (attr)
    attr -
    True False
    bool

ignore_hook (hook_name)

increment (attr, amount=1)

    • attr -
    • amount -

is_dirty (attr=None)

is_existed ()

is_new ()
    bool

name

relation (attr)
    Relation
    attr (string_types) -
    Relation
    leancloud.Relation

remove (attr, item)

    • attr -
    • item -

roles

save (where=None, fetch_when_save=None)
    None
    None

classmethod save_all (objs)
    save leancloud.Object
    objs (list) - save

set (key_or_attrs, value=None, unset=False)
```

- **key_or_attrs** (*string_types or dict*) – / dict
- **value** –
- **unset** –

set_acl (*acl*)
ACL

set_name (*name*)
Role name role.set('name', name)

unset (*attr*)
attr –

users

validate (*attrs*)

1.7 ACL

```
class leancloud.ACL (permissions_by_id=None)
    object
    dump ()
    get_public_read_access ()
    get_public_write_access ()
    get_read_access (user_id)
    get_role_read_access (role)
    get_role_write_access (role)
    get_write_access (user_id)
    set_public_read_access (allowed)
    set_public_write_access (allowed)
    set_read_access (user_id, allowed)
    set_role_read_access (role, allowed)
    set_role_write_access (role, allowed)
    set_write_access (user_id, allowed)
```

1.8 GeoPoint

```
class leancloud.GeoPoint (latitude=0, longitude=0)
    object
    dump ()
```

kilometers_to (*other*)

Returns the distance from this GeoPoint to another in kilometers.

other (*GeoPoint*) – point the other GeoPoint

float

latitude

longitude

miles_to (*other*)

Returns the distance from this GeoPoint to another in miles.

other (*GeoPoint*) – point the other GeoPoint

float

radians_to (*other*)

Returns the distance from this GeoPoint to another in radians.

other (*GeoPoint*) – point the other GeoPoint

float

1.9 Engine

class leancloud.**Engine** (*wsgi_app=None, fetch_user=True*)

object

LeanEngine middleware.

after_delete (**args, **kwargs*)

after_save (**args, **kwargs*)

after_update (**args, **kwargs*)

before_delete (**args, **kwargs*)

before_save (**args, **kwargs*)

before_update (**args, **kwargs*)

define (**args, **kwargs*)

on_bigquery (**args, **kwargs*)

on_insight (**args, **kwargs*)

on_login (**args, **kwargs*)

on_verified (**args, **kwargs*)

register (*engine*)

run (**args, **kwargs*)

start ()

stop ()

wrap (*wsgi_app*)

1.10 `HttpsRedirectMiddleware`

```
class leancloud.engine.HttpsRedirectMiddleware (wsgi_app)
    object
```

1.11 `CookieSessionMiddleware`

```
class leancloud.engine.CookieSessionMiddleware (app, secret, name=u'leancloud:session',
                                                excluded_paths=None,
                                                fetch_user=False, expires=None,
                                                max_age=None)
    object
```

```
webhosting LeanCloud WSGI web leancloud.User.login() session token cookie lean-
cloud.User.get_current()
```

- **secret** (*str*) – cookie session token key
- **name** (*str*) – cookie session token key “leancloud:session”
- **excluded_paths** (*list*) – URL path session token URL path
- **fetch_user** (*bool*) – false leancloud.User.get_current() session_token fetch() true
fetch() API false
- **expires** (*int or datetime*) – cookie expires
- **max_age** (*int*) – cookie max_age

```
post_process (environ, headers)
```

```
pre_process (environ)
```



```
class leancloud.push.Installation (**attrs)
    leancloud.object_.Object

class leancloud.push.Notification (**attrs)
    leancloud.object_.Object

    fetch (*args, **kwargs)
        Notification

    save (*args, **kwargs)

leancloud.push.send(data, channels=None, push_time=None, expiration_time=None, expiration_interval=None, where=None, cql=None)
    _Notification fetch()
```

- **channels** (*list or tuple*) -
- **push_time** (*datetime*) -
- **expiration_time** (*datetime*) -
- **expiration_interval** (*int*) - API
- **where** (*leancloud.Query*) - `_Installation` `leancloud.Query`
- **cql** (*string_types*) - `_Installation` CQL
- **data** - https://leancloud.cn/docs/push_guide.html#_Data

Notification


```
class leancloud.cloud.Captcha (token, url)
    object

    verify (code)
        :params code:

leancloud.cloud.get_server_time ()

leancloud.cloud.request_captcha (size=None, width=None, height=None, ttl=None)
    :return: Captcha

leancloud.cloud.request_sms_code (phone_number, idd=u'+86', sms_type=u'sms', validate_token=None, template=None, sign=None, params=None)
    :param phone_number: :param idd: +86 :param sms_type: 'voice' 'sms' :param template: :param sign:
    :return: None

leancloud.cloud.rpc (_cloud_rpc_name, **params)
    LeanEngine cloud.run leancloud.Object leancloud.Object :param name: Cloud Code :type name: basestring
    :param params: :return:

leancloud.cloud.run (_cloud_func_name, **params)
    LeanEngine :param name: Cloud Code :type name: string_types :param params: :return:

leancloud.cloud.verify_captcha (code, token)
    :params code: :params token: token :return: validate token

leancloud.cloud.verify_sms_code (phone_number, code)
    :param phone_number: :param code: :return: None
```


CHAPTER 4

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