ninchat-python

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Master key support

Utilities for using master keys.

The master key id and secret may be obtained with the create_master_key API action. The *key* argument taken by all functions is a pair (e.g. a tuple) consisting of the id and the secret.

The signatures and secured metadata may be used once before the expiration time. Expiration time is specified in Unix time (seconds since 1970-01-01 UTC), and may not be more than one week in the future.

Signature generation

The following functions create values for the master_sign parameter of some API actions. The *member_attrs* argument is expected to be an iterable with pair (e.g. tuple) elements, as opposed to the API actions which expect it as a dict.

For use with the create_session action:

`ninchat.master.`**`sign_create_session`**(*key*, *expire*, *puppet_attrs=None*)
Use when creating a new user. The user will become a puppet of the master. The *puppet_attrs* specified here must be repeated in the API call.

`ninchat.master.`**`sign_create_session_for_user`**(*key*, *expire*, *user_id*)
Use when authenticating an existing user. The user must be a puppet of the master. The *user_id* specified here must be repeated in the API call.

For use with the join_channel action:

`ninchat.master.`**`sign_join_channel`**(*key*, *expire*, *channel_id*, *member_attrs=None*)
For use by any user. The master must own the channel. The *channel_id* and *member_attrs* specified here must be repeated in the API call.

`ninchat.master.`**`sign_join_channel_for_user`**(*key*, *expire*, *channel_id*, *user_id*, *member_attrs=None*)
For use by the specified user only. The master must own the channel. The *channel_id* and *member_attrs* specified here must be repeated in the API call.

Metadata encryption

The following functions create values for the "secure" property of the audience_metadata parameter of the request_audience API action. The *metadata* argument should be a dict or None.

(The functions are unavailable if cryptography or PyCrypto can't be found.)

`ninchat.master.`**`secure_metadata`**(*key*, *expire*, *metadata*)
For use by any user.

`ninchat.master.`**`secure_metadata_for_user`**(*key*, *expire*, *metadata*, *user_id*)
For use by the specified user only.

CHAPTER 3

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Note: session classes with the same name have the same interface.

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