
Requests-Cloud-Auth Documentation

Release 0.0.1

John Vrbanac

Jul 23, 2017

Contents

1 Supported	3
2 Documentation	5
3 Project Links	9
4 Indices and tables	11

Requests-Cloud-Auth is a collection of Authentication extensions for the Requests library. The primary purpose of this collection is to provide an easy interface to authenticate to cloud providers with minimal dependencies.

CHAPTER 1

Supported

- Keystone v2
- Rackspace Identity
- Keystone v3
- HP Cloud - **Future**
- Digital Ocean - **Future**
- AWS - **Future**

Keystone V2 Authentication Extension

This authentication extension enables simple authentication to Keystone V2 endpoints.

Sample Usage

```
import requests
from requests_cloud_auth import keystone

keystone_auth = keystone.KeystoneV2PasswordAuth(
    endpoint='https://a.keystone.server',
    username='demo',
    password='cool',
    tenant_name='my_tenant'
)

resp = requests.get('http://openstack_service/', auth=keystone_auth)
```

Extension API Documentation

class requests_cloud_auth.keystone.**KeystoneV2PasswordAuth** (*endpoint, username, password, tenant_name*)

Authentication extension for Requests that supports Keystone V2

Parameters

- **endpoint** (*str*) – Keystone endpoint URI to authenticate to
- **username** (*str*) – Valid Keystone username
- **password** (*str*) – Valid Keystone password

- **tenant_name** (*str*) – Valid Keystone tenant name

Returns Instance of `KeystoneV2PasswordAuth`

authenticate ()

Gets authentication credentials

Attempts to use cached credentials before making a remote call. Automatically called by requests when needed, but can be manually called when needed.

Keystone V3 Authentication Extension

This authentication extension enables simple authentication to Keystone V3 endpoints.

Sample Usage

```
import requests
from requests_cloud_auth import keystone

keystone_auth = keystone.KeystoneV3PasswordAuth(
    endpoint='https://a.keystone.server',
    username='demo',
    password='cool',
    project_name='my_project'
)

resp = requests.get('http://openstack_service/', auth=keystone_auth)
```

Extension API Documentation

class `requests_cloud_auth.keystone.KeystoneV3PasswordAuth` (*endpoint, username, password, project_name*)

Authentication extension for Requests that supports Keystone V3

Parameters

- **endpoint** (*str*) – Keystone endpoint URI to authenticate to
- **username** (*str*) – Valid Keystone username
- **password** (*str*) – Valid Keystone password
- **project_name** (*str*) – Valid Keystone project name

Returns Instance of `KeystoneV3PasswordAuth`

authenticate ()

Gets authentication credentials

Attempts to use cached credentials before making a remote call. Automatically called by requests when needed, but can be manually called when needed.

Rackspace Identity Authentication Extension

This authentication extension enables simple authentication to Rackspace Cloud endpoints.

Sample Usage

```
import requests
from requests_cloud_auth import raxspace

auth = raxspace.RaxspacePasswordAuth(
    username='my_user',
    password='my_pass'
)

# Pre-auth as we need our project_id to list our cloud servers
auth.authenticate()

url = 'https://ord.servers.api.raxspacecloud.com/v2/{0}/servers'.format(auth.project_
↪id)
resp = requests.get(url, auth=auth)
```

Extension API Documentation

class `requests_cloud_auth.raxspace.RaxspacePasswordAuth` (*username, password, endpoint=None, region='US'*)

Authentication extension for Requests that supports Raxspace password authentication.

Parameters

- **username** – Valid Raxspace Cloud username
- **password** – Valid Raxspace Cloud password
- **endpoint** – (optional) URI to override authentication endpoint
- **region** – (optional) Specify the Raxspace Cloud region. Supported values: US, UK

Returns Instance of `RaxspacePasswordAuth`

`authenticate()`

Gets authentication credentials

Attempts to use cached credentials before making a remote call. Automatically called by requests when needed, but can be manually called when needed.

class `requests_cloud_auth.raxspace.RaxspaceApiKeyAuth` (*username, api_key, endpoint=None, region='US'*)

Authentication extension for Requests that supports Raxspace API key authentication.

Parameters

- **username** – Valid Raxspace Cloud username
- **api_key** – Valid Raxspace Cloud API key
- **endpoint** – (optional) URI to override authentication endpoint
- **region** – (optional) Specify the Raxspace Cloud region. Supported values: US, UK

Returns Instance of `RaxspaceApiKeyAuth`

authenticate ()

Gets authentication credentials

Attempts to use cached credentials before making a remote call. Automatically called by requests when needed, but can be manually called when needed.

CHAPTER 3

Project Links

GitHub: [jmvrbanac/requests-cloud-auth](https://github.com/jmvrbanac/requests-cloud-auth)

CHAPTER 4

Indices and tables

- `genindex`
- `modindex`
- `search`

A

- authenticate() (requests_cloud_auth.keystone.KeystoneV2PasswordAuth method), 6
- authenticate() (requests_cloud_auth.keystone.KeystoneV3PasswordAuth method), 6
- authenticate() (requests_cloud_auth.rackspace.RackspaceApiKeyAuth method), 7
- authenticate() (requests_cloud_auth.rackspace.RackspacePasswordAuth method), 7

K

- KeystoneV2PasswordAuth (class in requests_cloud_auth.keystone), 5
- KeystoneV3PasswordAuth (class in requests_cloud_auth.keystone), 6

R

- RackspaceApiKeyAuth (class in requests_cloud_auth.rackspace), 7
- RackspacePasswordAuth (class in requests_cloud_auth.rackspace), 7