

OpenStack EC2 authentication



DRAFT



OpenStack EC2 authentication Extension (Admin Operations)

EXT v1.0 (2011-09-13)

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This document is intended for client developers interested in using the OpenStack EC2 Authentication Service Extension along with the Keystone - OpenStack Identity (API).

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1. About This Extension

Name	OpenStack EC2 authentication Extension
Namespace	http://docs.openstack.org/identity/api/ext/OS-KSEC2/v1.0
Alias	OS-KSEC2
Dependencies	Keystone - OpenStack Identity
Doc Link (PDF)	OS-KSEC2 Extension /home/yogi/keystone/keystone/content/admin/OS-KSEC2-admin-devguide.pdf
Doc Link (WADL)	/home/yogi/keystone/keystone/content/admin/OS-KSEC2-admin.wadl
Doc Link (XSD)	/home/yogi/keystone/keystone/content/common/xsd/OS-KSEC2-credentials.xsd
Short Description	OpenStack EC2 authentication Service Extension to Keystone v2.0 API adds the capability to support EC2 style authentication.

Example 1.1. Extension Query Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
  <extension
    name="OpenStack EC2 authentication Extension"
    namespace="http://docs.openstack.org/identity/api/ext/OS-KSEC2/v1.0"
    alias="OS-KSEC2"
    updated="2011-08-25T09:50:00-00:00">

    <description>
      Adds the capability to support EC2 style authentication.
    </description>

    <atom:link rel="describedby"
      type="application/pdf"
      href="https://github.com/openstack/keystone/raw/master/
keystone/content/admin/OS-KSEC2-admin-devguide.pdf"/>
    <atom:link rel="describedby"
      type="application/vnd.sun.wadl+xml"
      href="https://raw.github.com/openstack/keystone/master/keystone/content/
admin/OS-KSEC2-admin.wadl"/>
  </extension>
```

Example 1.2. Extension Query Response: JSON

```
{
  "extension":{
    "name": "OpenStack EC2 authentication Extension",
    "namespace": "http://docs.openstack.org/identity/api/ext/OS-KSEC2/v1.
0",
    "alias": "OS-KSEC2",
    "updated": "2011-08-25T09:50:00-00:00",
    "description": "Adds the capability to support EC2 style
authentication.",
    "links": [
      {
        "rel": "describedby",
        "type": "application/pdf",
        "href": "https://github.com/openstack/keystone/raw/master/
keystone/content/admin/OS-KSEC2-admin-devguide.pdf"
      },
      {
        "rel": "describedby",
        "type": "application/vnd.sun.wadl+xml",
        "href": "https://raw.github.com/openstack/keystone/master/
keystone/content/admin/OS-KSEC2-admin.wadl"
      }
    ]
  }
}
```

1.1. Document Change History

Revision Date	Summary of Changes
Sep. 13, 2011	• Initial release.

2. Summary of Changes

The OpenStack EC2 authentication Extension allows crud/listing operations on *ec2Credentials*.

2.1. New Headers

None.

2.2. New Faults

None.

2.3. New Resources

None.

2.4. New Actions

None.

2.5. New Element

2.5.1. *ec2Credentials*

This extension allows authentication calls to accept new type of credentials *ec2Credentials*. These are additional type of credentials defined to support ec2 style authentication. Examples of *ec2Credentials* are illustrated below

Example 2.1. *ec2Credentials* XML

```
<?xml version="1.0" encoding="UTF-8"?>
<ec2Credentials
  xmlns="http://docs.openstack.org/identity/api/ext/OS-KSEC2/v1.0"
  username="testuser"
  key="aaaaa"
  signature="bbbbbb"/>
```

Example 2.2. *ec2Credentials* JSON

```
{
  "OS-KSEC2-ec2Credentials": {
    "username": "test_user",
    "secret": "aaaaa",
    "signature": "bbb"
  }
}
```


Error Response Code(s)

- identityFault
- badRequest(400)
- unauthorized(401)
- forbidden(403)
- badMethod(405)
- overLimit(413)
- serviceUnavailable(503)
- badMediaType(415)
- itemNotFound(404)

Example 2.3. Add Credentials Request: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<ec2Credentials
  xmlns="http://docs.openstack.org/identity/api/ext/OS-KSEC2/v1.0"
  username="testuser"
  key="aaaaa"
  signature="bbbbbb"/>
```

Example 2.4. Add Credentials Request: JSON

```
{
  "OS-KSEC2-ec2Credentials": {
    "username": "test_user",
    "secret": "aaaaa",
    "signature": "bbb"
  }
}
```

Example 2.5. Add Credential Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<ec2Credentials
  xmlns="http://docs.openstack.org/identity/api/ext/OS-KSEC2/v1.0"
  username="testuser"
  key="aaaaa"
  signature="bbbbbb"/>
```

Example 2.6. Add Credential Response: JSON

```
{
  "OS-KSEC2-ec2Credentials": {
    "username": "test_user",
    "secret": "aaaaa",
    "signature": "bbb"
  }
}
```

2.6.1.2. List Credentials

Verb	URI	Description
GET	v2.0/users/{userId}/credentials? marker=string&limit=int	List credentials.


```
key="aaaaa"
signature="bbbb" />
```

Example 2.12. Update Credential Response: JSON

```
{
  "OS-KSEC2-ec2Credentials": {
    "username": "test_user",
    "secret": "aaaaa",
    "signature": "bbb"
  }
}
```

2.6.1.4. Delete user credential

Verb	URI	Description
DELETE	v2.0/users/{userId}/credentials/ OS-KSEC2:ec2Credentials	Delete User credentials.

Delete User credentials.

Table 2.5. Delete user credential parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	You need a valid admin token for access. String. Required.

Normal Response Code(s)

- (204)

Error Response Code(s)

- identityFault
- badRequest(400)
- unauthorized(401)
- forbidden(403)
- badMethod(405)
- overLimit(413)
- serviceUnavailable(503)
- badMediaType(415)
- itemNotFound(404)

Example 2.13. Delete User Credentials

This operation does not require a request body.

2.6.1.5. Get user Credentials

Verb	URI	Description
GET	v2.0/users/{userId}/credentials/ OS-KSEC2:ec2Credentials	Get user credentials.

