Rackspace API Key Authentica

EXT v1.0 (Sep 13, 2011)

DRAFT

openstack™

Rackspace API Key Authentication Extension (Admin Operations)

EXT v1.0 (2011-09-13)
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1. About This Extension

Name	Rackspace API Key Authentication Admin Extension
Namespace	http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0
Alias	RAX-KSKEY-admin
Dependencies	Keystone - OpenStack Identity
	OS-KSCATALOG-admin Extension
Doc Link (PDF)	/home/yogi/keystone/content/admin/RAX-KSKEY-admin-devguide.pdf
Doc Link (WADL)	/home/yogi/keystone/keystone/content/admin/RAX-KSKEY-admin.wadl
Doc Link (XSD)	/home/yogi/keystone/content/service/xsd/RAX-KSKEY-credentials.xsd
Short Description	Rackspace extensions to Keystone v2.0 API enabling API Key authentication.

Example 1.1. Extension Query Response: XML

```xml
<?xml version="1.0" encoding="UTF-8"?>
<extension  xmlns="http://docs.openstack.org/common/api/v2.0"
            xmlns:atom="http://www.w3.org/2005/Atom"
            name="Rackspace API Key authentication" namespace="http://docs.
rackspace.com/identity/api/ext/RAX-KSKEY/v1.0"
            alias="RAX-KSKEY-admin"
            updated="2011-08-14T13:25:27-06:00">
            <description>
                        Rackspace extensions to Keystone v2.0 API
                        enabling API Key authentication.
            </description>
            <atom:link rel="describedby" type="application/pdf"
                        href="https://github.com/openstack/keystone/raw/
master/keystone/content/service/RAX-KSKEY-admin-devguide.pdf"/>
</extension>
```

Example 1.2. Extension Query Response: JSON

```json
{
  "extension":{
    "name": "Rackspace API Key Authentication Admin",
    "namespace": "http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0",
    "alias": "RAX-KSKEY-admin",
    "updated": "2011-07-13T13:25:27-06:00",
    "description": "Rackspace extensions to Keystone v2.0 API enabling API Key
 authentication.",
    "links": [{
        "rel": "describedby",
        "type": "application/pdf",
        "href": "https://github.com/openstack/keystone/raw/master/keystone/
content/admin/RAX-KSKEY-service-devguide.pdf"
    }]
  }
}
```

1.1. Document Change History

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

2. Summary of Changes

The Rackspace API Key Authentication Admin Extension allows crud/listing operations on *apikeyCredentials*.

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. apikeyCredentials

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

Example 2.1. apikeyCredentials XML

```
<?xml version="1.0" encoding="UTF-8"?>
<apikeyCredentials
 xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0"
 username="testuser"
 apikey="aaaaa-bbbbb-ccccc-12345678"/>
```

Example 2.2. apikeyCredentials JSON

```
{
    "RAX-KSKEY:apikeyCredentials":{
        "username":"test_user",
        "apikey":"aaaaa-bbbbb-ccccc-12345678"
    }
}
```

2.6. RAX-KSKEY-admin Extension API Operations

Table 2.1. Authentication Header

Header Type	Name	Value
HTTP/1.1 Request	X-Auth-Token	txfa8426a08eaf

Following operations are the list of operations whose behavior is altered by Rackspace API Key Authentication Extension:

Verb	URI	Description
	User Operations	
POST	/users/{userId}/credentials	Adds a credential to a user.
GET	/users/{userId}/credentials? marker=*string*&limit=*int*	List credentials.
POST	/users/{userId}/credentials/RAX-KSKEY:apikeyCredentials	Update credentials.
POST	/users/{userId}/credentials/RAX-KSKEY:apikeyCredentials	Delete User credentials.
GET	/users/{userId}/credentials/RAX-KSKEY:apikeyCredentials	Get user credentials.

2.6.1. User Operations

Verb	URI	Description
POST	/users/{userId}/credentials	Adds a credential to a user.
GET	/users/{userId}/credentials? marker=*string*&limit=*int*	List credentials.
POST	/users/{userId}/credentials/RAX-KSKEY:apikeyCredentials	Update credentials.
POST	/users/{userId}/credentials/RAX-KSKEY:apikeyCredentials	Delete User credentials.
GET	/users/{userId}/credentials/RAX-KSKEY:apikeyCredentials	Get user credentials.

2.6.1.1. Add user Credential.

Verb	URI	Description
POST	/users/{userId}/credentials	Adds a credential to a user.

Adds a credential to a user.

Table 2.2. Add 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)

• credentials (201)

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"?>
<apikeyCredentials
 xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0"
 username="testuser"
 apikey="aaaaa-bbbbb-ccccc-12345678"/>
```

Example 2.4. Add Credentials Request: JSON

```
{
    "RAX-KSKEY:apikeyCredentials":{
        "username":"test_user",
        "apikey":"aaaaa-bbbbb-ccccc-12345678"
    }
}
```

Example 2.5. Add Credential Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<apikeyCredentials
 xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0"
 username="testuser"
 apikey="aaaaa-bbbbb-ccccc-12345678"/>
```

Example 2.6. Add Credential Response: JSON

```
{
    "RAX-KSKEY:apikeyCredentials":{
        "username":"test_user",
        "apikey":"aaaaa-bbbbb-ccccc-12345678"
    }
}
```

2.6.1.2. List Credentials

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

List credentials.

Table 2.3. List Credentials parameters

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

Normal Response Code(s)

- credentials (200 203)

Error Response Code(s)

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

Example 2.7. List Credentials Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<credentials xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://docs.openstack.org/identity/api/v2.0">
    <passwordCredentials username="test_user" password="test"/>
    <apikeyCredentials
 xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0"
 username="testuser"
 apikey="aaaaa-bbbbb-ccccc-12345678"/>
</credentials>
```

Example 2.8. List Credentials Response: JSON

```
{
    "credentials":[{
            "passwordCredentials":{
                "username":"test_user",
                "password":"mypass"
            }
        },
        {
            "RAX-KSKEY:apikeyCredentials":{
                "username":"test_user",
                "apikey":"aaaaa-bbbbb-ccccc-12345678"
            }
        }
    ],
    "credentials_links":[]
}
```

2.6.1.3. Update user credential

Verb	URI	Description
POST	`/users/{userId}/credentials/RAX-KSKEY:apikeyCredentials`	Update credentials.

Update credentials.

Table 2.4. Update 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)

• credentials (200)

Error Response Code(s)

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

Example 2.9. Update Credential Request: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<apikeyCredentials
 xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0"
 username="testuser"
 apikey="aaaaa-bbbbb-ccccc-12345678"/>
```

Example 2.10. Update Credential Request: JSON

```
{
    "RAX-KSKEY:apikeyCredentials":{
        "username":"test_user",
        "apikey":"aaaaa-bbbbb-ccccc-12345678"
    }
}
```

Example 2.11. Update Credential Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<apikeyCredentials
 xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0"
```

```
username="testuser"
apikey="aaaaa-bbbbb-ccccc-12345678"/>
```

Example 2.12. Update Credential Response: JSON

```
{
    "RAX-KSKEY:apikeyCredentials":{
        "username":"test_user",
        "apikey":"aaaaa-bbbbb-ccccc-12345678"
    }
}
```

2.6.1.4. Delete user credential

Verb	URI	Description
POST	/users/{userId}/credentials/RAX-KSKEY:apikeyCredentials	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	/users/{userId}/credentials/RAX-KSKEY:apikeyCredentials	Get user credentials.

Get user credentials.

Table 2.6. Get user Credentials parameters

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

Normal Response Code(s)

- credentials (200 203)

Error Response Code(s)

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

Example 2.14. Get User Credential Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<apikeyCredentials
 xmlns="http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0"
 username="testuser"
 apikey="aaaaa-bbbbb-ccccc-12345678"/>
```

Example 2.15. Get User Credential Response: JSON

```
{
    "RAX-KSKEY:apikeyCredentials":{
        "username":"test_user",
        "apikey":"aaaaa-bbbbb-ccccc-12345678"
    }
}
```