

Rackspace API Key Sep 13, 2011 EXT v1.0
Authentication Extension (Admin

Rackspace API Key Authentication Extension (Admin Operations)

EXT v1.0 (2011-09-13)

Operations)

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This document is intended for service developers interested in using the Rackspace API Key Authentication Admin Extension along with the Keystone - OpenStack Identity (API). The document is for informational purposes only and is provided "AS IS."

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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.

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Example 1.1. Extension Query Response: XML

Example 1.2. Extension Query Response: JSON

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.

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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"
    }
}
```

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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.		You need a valid admin token for access.
		String. Required.

Normal Response Code(s)

• credentials (201)

Érror Response Code(s)

• identityFault

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- 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.

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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"</pre>
   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":[]
```

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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"
```

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```
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.

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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"
    }
}
```