

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

Dependencies Keystone - OpenStack Identity

>RAX-KSKEY Extension

Doc Link (PDF) /home/yogi/keystone/content/admin/RAX-KSKEY-admin-

devguide.pdf

Doc Link (WADL) https://raw.github.com/openstack/keystone/master/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

```
<?xml version="1.0" encoding="UTF-8"?>
<extension xmlns="http://docs.openstack.org/common/api/v2.0"</pre>
            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"</pre>
                        href="https://github.com/openstack/keystone/raw/
master/keystone/content/admin/RAX-KSKEY-admin-devguide.pdf"/>
            <atom:link rel="describedby" type="application/vnd.sun.wadl+xml"</pre>
                        href="https://github.com/openstack/keystone/raw/
master/keystone/content/admin/RAX-KSKEY-admin.wadl"/>
</extension>
```

Example 1.2. Extension Query Response: JSON

```
"extension":{
    "name": "Rackspace API Key Authentication",
    "namespace": "http://docs.rackspace.com/identity/api/ext/RAX-KSKEY/v1.0",
    "alias": "RAX-KSKEY",
    "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-admin-devguide.pdf"
        "rel": "describedby",
        "type": "application/vnd.sun.wadl+xml",
        "href": "https://github.com/openstack/keystone/raw/master/keystone/
content/admin/RAX-KSKEY-admin.wadl"
]
```

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 Op	perations
POST	v2.0/users/{userId}/credentials	Adds a credential to a user.
GET	v2.0/users/{userId}/credentials? marker=string&limit=int	List credentials.
POST	v2.0/users/{userId}/credentials/ RAX-KSKEY:apikeyCredentials	Update credentials.
DELETE v2.0/users/{userId}/credentials/ RAX-KSKEY:apikeyCredentials		Delete User credentials.
GET	v2.0/users/{userId}/credentials/ RAX-KSKEY:apikeyCredentials	Get user credentials.

2.6.1. User Operations

Verb	URI	Description
POST	v2.0/users/{userId}/credentials	Adds a credential to a user.
GET	v2.0/users/{userId}/credentials? marker=string&limit=int	List credentials.
POST	v2.0/users/{userId}/credentials/ RAX-KSKEY:apikeyCredentials	Update credentials.
DELETE	v2.0/users/{userId}/credentials/ RAX-KSKEY:apikeyCredentials	Delete User credentials.
GET	v2.0/users/{userId}/credentials/ RAX-KSKEY:apikeyCredentials	Get user credentials.

2.6.1.1. Add user Credential.

Verb	URI	Description
POST	v2.0/users/{userId}/credentials	Adds a credential to a user.

Normal Response Code(s): 201

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), badMediaType (415), itemNotFound (404)

Adds a credential to a user.

Table 2.2. Add user Credential. Request Parameters

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

Operations)

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Ī	Name	Style	Description
Ì			String. Required.

Example 2.3. Add user 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 2.4. Add user Credential. Request: JSON

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

Example 2.5. Add 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 2.6. Add user Credential. Response: JSON

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

2.6.1.2. List Credentials

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

Normal Response Code(s): 200, 203

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), itemNotFound (404)

List credentials.

Table 2.3. List Credentials Request Parameters

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

Operations)

f	Name	Style	Description
ľ			String. Required.
ī	marker	query	String. Optional.
:	limit	query	Int. Optional.

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

2.6.1.3. Update user credential

Verb	URI	Description
POST	v2.0/users/{userId}/credentials/ RAX-KSKEY:apikeyCredentials	Update credentials.

Normal Response Code(s): 200

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), badMediaType (415), itemNotFound (404)

Update credentials.

Table 2.4. Update user credential Request Parameters

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

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Example 2.9. Update user 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 user credential Request: JSON

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

Example 2.11. Update 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 2.12. Update user credential Response: JSON

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

2.6.1.4. Delete user credential

Verb	URI	Description
DELETE	v2.0/users/{userId}/credentials/ RAX-KSKEY:apikeyCredentials	Delete User credentials.

Normal Response Code(s): 204

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), badMediaType (415), itemNotFound (404)

Delete User credentials.

Table 2.5. Delete user credential Request Parameters

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

Operations)

This operation does not require a request body and does not return a response body.

2.6.1.5. Get user Credentials

Verb	URI	Description
	v2.0/users/{userId}/credentials/ RAX-KSKEY:apikeyCredentials	Get user credentials.

Normal Response Code(s): 200, 203

Error Response Code(s): identityFault (400, 500, ...), badRequest (400), unauthorized (401), forbidden (403), badMethod (405), overLimit (413), serviceUnavailable (503), itemNotFound (404)

Get user credentials.

Table 2.6. Get user Credentials Request Parameters

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

This operation does not require a request body.

Example 2.13. Get user Credentials 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 2.14. Get user Credentials Response: JSON

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