

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)

Copyright © 2011 Rackspace US, Inc. All rights reserved.

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."

RACKSPACE MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, AS TO THE ACCURACY OR COMPLETENESS OF THE CONTENTS OF THIS DOCUMENT AND RESERVES THE RIGHT TO MAKE CHANGES TO SPECIFICATIONS AND PRODUCT/SERVICES DESCRIPTION AT ANY TIME WITHOUT NOTICE. RACKSPACE SERVICES OFFERINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE. USERS MUST TAKE FULL RESPONSIBILITY FOR APPLICATION OF ANY SERVICES MENTIONED HEREIN. EXCEPT AS SET FORTH IN RACKSPACE GENERAL TERMS AND CONDITIONS AND/OR CLOUD TERMS OF SERVICE, RACKSPACE ASSUMES NO LIABILITY WHATSOEVER, AND DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO ITS SERVICES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NONINFRINGEMENT.

Except as expressly provided in any written license agreement from Rackspace, the furnishing of this document does not give you any license to patents, trademarks, copyrights, or other intellectual property.

Rackspace®, Rackspace logo and Fanatical Support® are registered service marks of Rackspace US, Inc. All other product names and trademarks used in this document are for identification purposes only and are property of their respective owners.

Table of Contents

List of Tables

2.1.	Authentication Header	4
	Add user Credential. parameters	
	List Credentials parameters	
	Update user credential parameters	
	Delete user credential parameters	
	Get user Credentials parameters	(

List of Examples

1.1. Extension Query Response: XML	2
1.2. Extension Query Response: JSON	2
2.1. apikeyCredentials XML	
2.2. apikeyCredentials JSON	3
2.3. Add Credentials Request: XML	
2.4. Add Credentials Request: JSON	5
2.5. Add Credential Response: XML	5
2.6. Add Credential Response: JSON	
2.7. List Credentials Response: XML	6
2.8. List Credentials Response: JSON	6
2.9. Update Credential Request: XML	7
2.10. Update Credential Request: JSON	7
2.11. Update Credential Response: XML	
2.12. Update Credential Response: JSON	8
2.13. Delete User Credentials	8
2.14. Get User Credential Response: XML	9
2.15. Get User Credential Response: JSON	9

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) /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.

1

4

1

1

1

DRA

1

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.

DRA

1

DRA

RAFT

1

DRAFT

DRAFT

~

1

4

1

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	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

DRAFT

DRAFT

DRAFT

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.

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)

~

1

4

~

1

RAFT

1

AFT

DR.

1

4

~

1

4

1

4 ~

1

DRAI

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

List credentials.

1

1

DRAFT

1

1

RA

1

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":[]
```

ı

4

1

DRAFT

ı

RA

1

RA

1

2.6.1.3. Update user credential

Verb	URI	Description
	v2.0/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"
```

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

Operations)

```
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
DELETE	v2.0/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 user credentials.
	RAX-KSKEY:apikeyCredentials	

1

1

DRAFT

1

ī

ī

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"
    }
}
```