

# **Keystone OS-KSADM-admin Developer Guide**

API v2.0 (2011-08-29)

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This document includes details on various operations supported by the OS-KSADM-admin extensions on top of core keystone operations.

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# 1. About This Extension

Name OpenStack KSADM Extension

Namespace http://docs.openstack.org/identity/api/ext/OS-KSADM/v1.0

Alias OS-KSCATALOG-admin

Dependencies Keystone - OpenStack Identity

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

content/admin/OS-KSADM-admin-devguide.pdf

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

content/admin/OS-KSADM-admin.wadl

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

content/common/xsd/OS-KSADM.xsd

Short Description OpenStack KSADM Admin Extension to Keystone v2.0 API adds

the capability to do CRUD on Users, Tenants, Roles and Services.

# **1.1. Document Change History**

Revision Date	Summary of Changes	
Sep. 09, 2011	• Initial release.	

# 2. Extension Operations

	URI	Description
	User Op	erations
POST	/users	Adds a user.
POST	/users/{userId}	Update a user.
DELETE	/users/{userId}	Delete a user.
I	/users/{userId}/OS-KSADM/roles? serviceId=string	List all the global roles for a user.
l I	/users/{userId}/OS-KSADM/roles/ {roleId}	Adds a specific global role to a user.
l I	/users/{userId}/OS-KSADM/roles/ {roleId}	Get information about a global role that belongs to a user.
l I	/users/{userId}/OS-KSADM/roles/ {roleId}	Deletes a specific global role from a user.
I	/users/{userId}/OS-KSADM/ credentials	Adds a credential to a user.
	/users/{userId}/OS-KSADM/ credentials?marker= <i>string</i> & limit= <i>int</i>	List credentials.
	/users/{userId}/OS-KSADM/ credentials/{credential-type}? marker=string&limit=int	List credentials by type.
	/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}	Update credentials.
	/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}	Delete User credentials.
	/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}	Get user credentials.
	Tenant O	perations
POST	/tenants	Creates a tenant.
POST	/tenants/{tenantId}	Updates a tenant.
DELETE	/tenants/{tenantId}	Deletes a tenant.
	/tenants/{tenantId}/OS-KSADM/users ?marker= <i>string</i> &limit= <i>int</i>	Lists all the users for a tenant.
	/tenants/{tenantId}/OS-KSADM/users ?roleId= <i>string</i> ▮= <i>string</i> & limit= <i>int</i>	Lists all the users with a specific role for a tenant.
	/tenants/{tenantId}/OS-KSADM/roles ?marker= <i>string</i> &limit= <i>int</i>	Lists all the roles for a tenant.
	/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}	Adds a specific role to a user for a tenant.
	/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}	Deletes a specific role from a user for a tenant.
·	Role Op	erations
l I	/OS-KSADM/roles?serviceId=string& marker=string&limit=int	List roles.
PUT	/OS-KSADM/roles	Add a Role.
GET	/OS-KSADM/roles/{roleId}	Get a role.

Verb	URI	Description
DELETE	/OS-KSADM/roles/{roleId}	Delete a role.
	Service O	perations
GET	/OS-KSADM/services? serviceId=string▮=string& limit=int	List services.
PUT	/OS-KSADM/services	Add a service.
GET	/OS-KSADM/services/{serviceId}	Get a service.
DELETE	/OS-KSADM/services/{serviceId}	Delete a service.

# 2.1. OS-KSADM Admin Extension API (Service Developer Operations)

Extension operations.

#### **Table 2.1. Authentication Header**

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

#### The following calls are supported by OS-KSADM-admin Extension:

Verb	URI	Description
User Operations		perations
POST	/users	Adds a user.
POST	/users/{userId}	Update a user.
DELETE	/users/{userId}	Delete a user.
GET	/users/{userId}/OS-KSADM/roles? serviceId=string	List all the global roles for a user.
PUT	/users/{userId}/OS-KSADM/roles/ {roleId}	Adds a specific global role to a user.
GET	/users/{userId}/OS-KSADM/roles/ {roleId}	Get information about a global role that belongs to a user.
DELETE	/users/{userId}/OS-KSADM/roles/ {roleId}	Deletes a specific global role from a user.
POST	/users/{userId}/OS-KSADM/ credentials	Adds a credential to a user.
GET	/users/{userId}/OS-KSADM/ credentials?marker=string& limit=int	List credentials.
GET	<pre>/users/{userId}/OS-KSADM/ credentials/{credential-type}? marker=string&amp;limit=int</pre>	List credentials by type.
POST	<pre>/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}</pre>	Update credentials.
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}	Delete User credentials.
GET	/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}	Get user credentials.

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Verb	URI	Description	
Tenant Operations			
POST	/tenants	Creates a tenant.	
POST	/tenants/{tenantId}	Updates a tenant.	
DELETE	/tenants/{tenantId}	Deletes a tenant.	
GET	/tenants/{tenantId}/OS-KSADM/users ?marker=string&limit=int	Lists all the users for a tenant.	
GET	<pre>/tenants/{tenantId}/OS-KSADM/users ?roleId=string▮=string&amp; limit=int</pre>	Lists all the users with a specific role for a tenant.	
GET	/tenants/{tenantId}/OS-KSADM/roles ?marker=string&limit=int	Lists all the roles for a tenant.	
PUT	/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}	Adds a specific role to a user for a tenant.	
DELETE	/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}	Deletes a specific role from a user for a tenant.	
	Role Op	erations	
GET	/OS-KSADM/roles?serviceId=string& marker=string&limit=int	List roles.	
PUT	/OS-KSADM/roles	Add a Role.	
GET	/OS-KSADM/roles/{roleId}	Get a role.	
DELETE	/OS-KSADM/roles/{roleId}	Delete a role.	
	Service Operations		
GET	/OS-KSADM/services? serviceId=string▮=string& limit=int	List services.	
PUT	/OS-KSADM/services	Add a service.	
GET	/OS-KSADM/services/{serviceId}	Get a service.	
DELETE	/OS-KSADM/services/{serviceId}	Delete a service.	

# 2.1.1. User Operations

Verb	URI	Description
POST	/users	Adds a user.
POST	/users/{userId}	Update a user.
DELETE	/users/{userId}	Delete a user.
GET	/users/{userId}/OS-KSADM/roles? serviceId=string	List all the global roles for a user.
PUT	/users/{userId}/OS-KSADM/roles/ {roleId}	Adds a specific global role to a user.
GET	/users/{userId}/OS-KSADM/roles/ {roleId}	Get information about a global role that belongs to a user.
DELETE	/users/{userId}/OS-KSADM/roles/ {roleId}	Deletes a specific global role from a user.
POST	/users/{userId}/OS-KSADM/ credentials	Adds a credential to a user.
GET	/users/{userId}/OS-KSADM/ credentials?marker=string& limit=int	List credentials.
GET	/users/{userId}/OS-KSADM/ credentials/{credential-type}? marker=string&limit=int	List credentials by type.

Verb	URI	Description
POST	<pre>/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}</pre>	Update credentials.
POST	<pre>/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}</pre>	Delete User credentials.
GET	/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}	Get user credentials.

#### 2.1.1.1. Add user

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Verb	URI	Description
POST	/users	Adds a user.

Adds a user.

#### **Table 2.2. Parameters**

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

#### **Normal Response Code(s)**

• user (201)

#### **Error Response Code(s)**

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

#### **Example 2.1. User Creation Request**

```
<?xml version="1.0" encoding="UTF-8"?>
<user xmlns="http://docs.openstack.org/identity/api/v2.0"
        enabled="true" email="john.smith@example.org"
        username="jqsmith"/>

{
    "user": {
        "username": "jqsmith",
        "email": "john.smith@example.org",
        "enabled": true
}
```

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#### **Example 2.2. User Creation Response**

```
<?xml version="1.0" encoding="UTF-8"?>
<user xmlns="http://docs.openstack.org/identity/api/v2.0"
    enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1000"/>

{
    "user": {
```

```
{
  "user": {
    "id": "u1000",
    "username": "jqsmith",
    "email": "john.smith@example.org",
    "enabled": true
}
}
```

## **2.1.1.2. Update user**

Verb	URI	Description
POST	/users/{userId}	Update a user.

Update a user.

#### **Table 2.3. Parameters**

Name	Style	Description
Request parameters		
X-Auth- Token	header	You need a valid admin token for access.
1011011		String. Required.

#### Normal Response Code(s)

• user (200)

#### **Error Response Code(s)**

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

#### **Example 2.3. User Updation Request**

#### **Example 2.4. User Updation Request**

```
<?xml version="1.0" encoding="UTF-8"?>
<user xmlns="http://docs.openstack.org/identity/api/v2.0"</pre>
```

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```

```
enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1000"/>

{
    "user": {
        "id": "u1000",
        "username": "jqsmith",
        "email": "john.smith@example.org",
        "enabled": true
}
```

#### **Example 2.5. User Updation Response**

#### 2.1.1.3. Delete user

Verb	URI	Description
DELETE	/users/{userId}	Delete a user.

Delete a user.

#### **Table 2.4. 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)

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

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• itemNotFound(404)

#### **Example 2.6. Delete User Request**

This operation does not require a request body.

#### 2.1.1.4. List Global Roles for a User

Verb	URI	Description
GET	/users/{userId}/OS-KSADM/roles? serviceId=string	List all the global roles for a user.

List all the global roles for a user.

#### **Table 2.5. Parameters**

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

#### Normal Response Code(s)

• roles (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 Global Roles for User Response**

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#### 2.1.1.5. Add Global roles to a user.

Verb	URI	Description
PUT	/users/{userId}/OS-KSADM/roles/ {roleId}	Adds a specific global role to a user.

Adds a specific global role to a user.

#### **Table 2.6. Parameters**

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

#### Normal Response Code(s)

• (200)

#### **Error Response Code(s)**

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

#### Example 2.8.

This operation does not require a request body.

#### 2.1.1.6. Get user Role

Verb	URI	Description
GET	/users/{userId}/OS-KSADM/roles/ {roleId}	Get information about a global role that belongs to a user.

Get information about a global role that belongs to a user.

#### **Table 2.7. Parameters**

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

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Name	Style	Description
roleId	template	Int. Optional.

#### Normal Response Code(s)

• role (200 203)

#### **Error Response Code(s)**

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

#### **Example 2.9. List Roles for User Response**

```
<?xml version="1.0" encoding="UTF-8"?>
<role xmlns="http://docs.openstack.org/identity/api/v2.0"
   id="Admin"
   description="All Access" />

{
   "role": {
      "id": "Guest",
      "description": "Guest Access"
   }
}
```

### 2.1.1.7. Delete Global Roles on User.

Verb	URI	Description
DELETE	/users/{userId}/OS-KSADM/roles/ {roleId}	Deletes a specific global role from a user.

Deletes a specific global role from a user.

#### **Table 2.8. Parameters**

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

#### Normal Response Code(s)

• (204)

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#### **Error Response Code(s)**

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

#### Example 2.10.

This operation does not require a request body.

#### 2.1.1.8. Add user Credential.

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

Adds a credential to a user.

#### **Table 2.9. Parameters**

Name	Style	Description	
	Request parameters		
X-Auth- Token	header	You need a valid admin token for access.	
TOKEII		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 2.11. Add Credentials Request**

```
<?xml version="1.0" encoding="UTF-8"?>
<passwordCredentials xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://docs.openstack.org/identity/api/v2.0" username="test_user"
   password="test"/>
```

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```
{
    "passwordCredentials": {
        "username": "test_user",
        "password": "mypass"
    }
}
```

#### **Example 2.12. Add Credential Response**

#### 2.1.1.9. List Credentials

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

List credentials.

#### **Table 2.10. 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)

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

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#### **Example 2.13. List Credentials Response**

# 2.1.1.10. List Credentials by type

Verb	URI	Description
GET	/users/{userId}/OS-KSADM/ credentials/{credential-type}? marker=string&limit=int	List credentials by type.

List credentials by type.

#### **Table 2.11. 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)

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

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# **Example 2.14. List Credentials Response**

## 2.1.1.11. Update user credential

Verb	URI	Description
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}	Update credentials.

Update credentials.

#### **Table 2.12. Parameters**

Name	Style	Description
		Request parameters
X-Auth- Token	header	You need a valid admin token for access.
10,1011		String. Required.
credenti	a <b>tenyplate</b> ndId	String. Optional.

#### **Normal Response Code(s)**

• credentials (200)

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

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#### **Example 2.15. Update Credential Request**

```
<?xml version="1.0" encoding="UTF-8"?>
<passwordCredentials xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://docs.openstack.org/identity/api/v2.0" username="test_user"
    password="test"/>

{
        "passwordCredentials": {
            "username": "test_user",
            "password": "mypass"
        }
}
```

#### **Example 2.16. Update Credential Response**

```
<?xml version="1.0" encoding="UTF-8"?>
<passwordCredentials xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
    xmlns="http://docs.openstack.org/identity/api/v2.0" username="test_user"
    password="test"/>

{
        "passwordCredentials": {
            "username": "test_user",
            "password": "mypass"
        }
}
```

## 2.1.1.12. Update user credential

Verb	URI	Description
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}	Delete User credentials.

Delete User credentials.

#### **Table 2.13. Parameters**

Name	Style	Description
		Request parameters
X-Auth- Token	header	You need a valid admin token for access. String. Required.
credenti	atie <b>nyplate</b> ndId	String. Optional.

#### Normal Response Code(s)

• (204)

- identityFault
- badRequest(400)
- unauthorized(401)

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- forbidden(403)
- badMethod(405)
- overLimit(413)
- serviceUnavailable(503)
- badMediaType(415)
- itemNotFound(404)

#### **Example 2.17. Delete User Credentials**

This operation does not require a request body.

#### 2.1.1.13. Get user Credentials

Verb	URI	Description
GET	/users/{userId}/OS-KSADM/ credentials/{credential-type-and- optional-id}	Get user credentials.

Get user credentials.

#### **Table 2.14. Parameters**

Name	Style	Description
	Request parameters	
X-Auth- Token	header	You need a valid admin token for access.  String. Required.
credentiaten y String. Option		String. 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 2.18. Get User Credential Response**

```
<?xml version="1.0" encoding="UTF-8"?>
<passwordCredentials xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xmlns="http://docs.openstack.org/identity/api/v2.0" username="test_user"
   password="test"/>

{
        "passwordCredentials": {
```

```
API v2.0
                                           Aug 29, 2011
                   "username": "test_user",
                   "password": "mypass"
2.1.2. Tenant Operations
            Verb
                                   URI
                                                                         Description
          POST
                    /tenants
                                                       Creates a tenant.
          POST
                    /tenants/{tenantId}
                                                       Updates a tenant.
          DELETE
                    /tenants/{tenantId}
                                                       Deletes a tenant.
```

GET	/tenants/{tenantId}/OS-KSADM/users ?marker=string&limit=int	Lists all the users for a tenant.
GET	<pre>/tenants/{tenantId}/OS-KSADM/users ?roleId=string▮=string&amp; limit=int</pre>	Lists all the users with a specific role for a tenant.
GET	/tenants/{tenantId}/OS-KSADM/roles ?marker=string&limit=int	Lists all the roles for a tenant.
PUT	/tenants/{tenantId}/OS-KSADM/	Adds a specific role to a user for a tenant.

## 2.1.2.1. Add Tenant

**DELETE** 

Verb	URI	Description
POST	/tenants	Creates a tenant.

Deletes a specific role from a user for a tenant.

This call creates a tenant.

users/{userId}/roles/{roleId}

/tenants/{tenantId}/OS-KSADM/

users/{userId}/roles/{roleId}

#### **Table 2.15. Parameters**

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

#### Normal Response Code(s)

• tenant (201)

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

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#### **Example 2.19. Tenant Creation Request**

#### **Example 2.20. Tenant Creation Response**

# 2.1.2.2. Update Tenant

Verb	URI	Description
POST	/tenants/{tenantId}	Updates a tenant.

This call updates a tenant.

#### **Table 2.16. Parameters**

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

#### Normal Response Code(s)

• tenant (200)

- identityFault
- badRequest(400)

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

#### **Example 2.21. Tenant Update Request**

#### **Example 2.22. Tenant Update Response**

#### 2.1.2.3. Delete a Tenant

Verb	URI	Description
DELETE	/tenants/{tenantId}	Deletes a tenant.

This call deletes a tenant.

#### **Table 2.17. Parameters**

Name	Style	Description
		Request parameters
X-Auth- Token	header	You need a valid admin token for access.
1071011		String. Required.
tenantId	template	String. Optional.

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#### **Normal Response Code(s)**

• (204)

#### **Error Response Code(s)**

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

#### **Example 2.23. Delete Tenant Request**

This operation does not require a request body.

#### 2.1.2.4. List users for a Tenant.

Verb	URI	Description
GET	/tenants/{tenantId}/OS-KSADM/users ?marker=string&limit=int	Lists all the users for a tenant.

Lists all the users for a tenant.

#### **Table 2.18. 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.	
tenantId	template	String. Optional.	

#### Normal Response Code(s)

• users (200 203)

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

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• itemNotFound(404)

#### **Example 2.24. List Users for Tenant Response**

```
<?xml version="1.0" encoding="UTF-8"?>
<users xmlns="http://docs.openstack.org/identity/api/v2.0">
    <user xmlns="http://docs.openstack.org/identity/api/v2.0"</pre>
          enabled="true" email="john.smith@example.org"
          username="jqsmith" id="u1000"/>
    <user xmlns="http://docs.openstack.org/identity/api/v2.0"</pre>
          enabled="true" email="john.smith@example.org"
          username="jqsmith" id="u1000"/>
</users>
  "users": {
    "values": [
        "id": "u1000",
        "username": "jqsmith",
        "email": "john.smith@example.org",
        "enabled": true
      }, {
        "id": "u1001",
        "username": "jqsmith",
        "email": "john.smith@example.org",
        "enabled": true
      }
   ],
    "links":[]
```

#### 2.1.2.5. List user with role for tenant.

Verb	URI	Description
GET	/tenants/{tenantId}/OS-KSADM/users ?roleId=string▮=string& limit=int	Lists all the users with a specific role for a tenant.

Lists all the users with a specific role for a tenant.

#### **Table 2.19. Parameters**

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

#### Normal Response Code(s)

• users (200 203)

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#### **Error Response Code(s)**

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

#### Example 2.25. List Users with a specific role for a Tenant Response

```
<?xml version="1.0" encoding="UTF-8"?>
<users xmlns="http://docs.openstack.org/identity/api/v2.0">
   <user xmlns="http://docs.openstack.org/identity/api/v2.0"</pre>
          enabled="true" email="john.smith@example.org"
          username="jqsmith" id="u1000"/>
    <user xmlns="http://docs.openstack.org/identity/api/v2.0"</pre>
          enabled="true" email="john.smith@example.org"
          username="jqsmith" id="u1000"/>
</users>
  "users": {
    "values": [
        "id": "u1000",
        "username": "jqsmith",
        "email": "john.smith@example.org",
        "enabled": true
        "id": "u1001",
        "username": "jqsmith",
        "email": "john.smith@example.org",
        "enabled": true
    ],
    "links":[]
```

#### 2.1.2.6. List roles for a Tenant.

Verb	URI	Description
GET	/tenants/{tenantId}/OS-KSADM/roles ?marker=string&limit=int	Lists all the roles for a tenant.

Lists all the roles for a tenant.

#### **Table 2.20. Parameters**

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

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Name	Style	Description
		String. Required.
marker	query	String. Optional.
limit	query	Int. Optional.
tenantId	template	String. Optional.

#### **Normal Response Code(s)**

• roles (200 203)

#### **Error Response Code(s)**

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

#### **Example 2.26. List Roles for Tenant Response**

#### 2.1.2.7. Add roles on a tenant.

Verb	URI	Description
PUT	/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}	Adds a specific role to a user for a tenant.

Adds a specific role to a user for a tenant.

#### **Table 2.21. Parameters**

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

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Name	Style	Description
		String. Required.
tenantId	template	String. Optional.
userId	template	String. Optional.

#### Normal Response Code(s)

• (200)

#### **Error Response Code(s)**

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

#### Example 2.27.

This operation does not require a request body.

## 2.1.2.8. Delete roles on tenant.

Verb	URI	Description
	<pre>/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}</pre>	Deletes a specific role from a user for a tenant.

Deletes a specific role from a user for a tenant.

#### **Table 2.22. Parameters**

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

#### **Normal Response Code(s)**

• (204)

- identityFault
- badRequest(400)
- unauthorized(401)

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- forbidden(403)
- badMethod(405)
- overLimit(413)
- serviceUnavailable(503)
- itemNotFound(404)

#### **Example 2.28. Delete Role From User For a Tenant Request**

This operation does not require a request body.

# 2.1.3. Role Operations

Verb	URI	Description
GET	/OS-KSADM/roles?serviceId=string& marker=string&limit=int	List roles.
PUT	/OS-KSADM/roles	Add a Role.
GET	/OS-KSADM/roles/{roleId}	Get a role.
DELETE	/OS-KSADM/roles/{roleId}	Delete a role.

#### 2.1.3.1. List Roles

Verb	URI	Description
GET	/OS-KSADM/roles?serviceId=string& marker=string&limit=int	List roles.

List roles.

#### **Table 2.23. Parameters**

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

#### **Normal Response Code(s)**

• roles (200 203)

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

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• itemNotFound(404)

#### **Example 2.29. List Roles Response**

#### 2.1.3.2. Add Role

Verb	URI	Description
PUT	/OS-KSADM/roles	Add a Role.

Add a Role.

#### **Table 2.24. Parameters**

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

#### **Normal Response Code(s)**

• role (201)

#### **Error Response Code(s)**

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

#### Example 2.30. Add a Role Request

```
<?xml version="1.0" encoding="UTF-8"?>
```

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```
<role xmlns="http://docs.openstack.org/identity/api/v2.0"
  id="Admin"
  description="All Access" />

{
   "role": {
    "id": "Guest",
    "description": "Guest Access"
  }
}
```

#### Example 2.31. Add a Role Response

```
<?xml version="1.0" encoding="UTF-8"?>
<role xmlns="http://docs.openstack.org/identity/api/v2.0"
  id="Admin"
  description="All Access" />

{
   "role": {
     "id": "Guest",
     "description": "Guest Access"
  }
}
```

### 2.1.3.3. Get Role

Verb	URI	Description
GET	/OS-KSADM/roles/{roleId}	Get a role.

Get a role.

#### **Table 2.25. Parameters**

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

#### Normal Response Code(s)

• role (200 203)

- identityFault
- badRequest(400)
- unauthorized(401)
- forbidden(403)
- badMethod(405)
- overLimit(413)

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- serviceUnavailable(503)
- badMediaType(415)
- itemNotFound(404)

#### Example 2.32. Get a role

```
<?xml version="1.0" encoding="UTF-8"?>
<role xmlns="http://docs.openstack.org/identity/api/v2.0"
   id="Admin"
   description="All Access" />

{
   "role": {
      "id": "Guest",
      "description": "Guest Access"
   }
}
```

#### 2.1.3.4. Delete Role

Verb	URI	Description
DELETE	/OS-KSADM/roles/{roleId}	Delete a role.

Delete a role.

#### **Table 2.26. Parameters**

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

#### Normal Response Code(s)

• (204)

#### **Error Response Code(s)**

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

#### **Example 2.33. Delete a Role**

This operation does not require a request body.

# 2.1.4. Service Operations

Verb	URI	Description
GET	/OS-KSADM/services? serviceId=string▮=string& limit=int	List services.
PUT	/OS-KSADM/services	Add a service.
GET	/OS-KSADM/services/{serviceId}	Get a service.
DELETE	/OS-KSADM/services/{serviceId}	Delete a service.

#### 2.1.4.1. List Services

Verb	URI	Description
GET	/OS-KSADM/services? serviceId=string▮=string& limit=int	List services.

List services.

#### **Table 2.27. Parameters**

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

#### **Normal Response Code(s)**

• services (200 203)

#### **Error Response Code(s)**

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

#### **Example 2.34. List services Response**

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```
</services>
```

#### 2.1.4.2. Add Service

Verb	URI	Description
PUT	/OS-KSADM/services	Add a service.

Add a service.

#### **Table 2.28. Parameters**

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

#### Normal Response Code(s)

• service (201)

#### **Error Response Code(s)**

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

#### Example 2.35. Add a service Request

```
<?xml version="1.0" encoding="UTF-8"?>
<service xmlns="http://docs.openstack.org/identity/api/ext/OS-KSADM/v1.0" id=
"nova"</pre>
```

```
type="compute" description="OpenStack Compute Service" />

{
    "OS-KSADM:service":{
        "id":"nova",
        "type":"compute",
        "description":"A description ..."
    }
}
```

#### Example 2.36. Add a service Response

```
<?xml version="1.0" encoding="UTF-8"?>

<service xmlns="http://docs.openstack.org/identity/api/ext/OS-KSADM/v1.0" id=
"nova"
    type="compute" description="OpenStack Compute Service" />

{
       "OS-KSADM:service":{
            "id":"nova",
            "type":"compute",
            "description":"A description ..."
        }
}
```

## 2.1.4.3. Get Service

Verb	URI	Description
GET	/OS-KSADM/services/{serviceId}	Get a service.

Get a service.

#### **Table 2.29. Parameters**

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

#### Normal Response Code(s)

• service (200 203)

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

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#### **Example 2.37. Get a service Response**

```
<?xml version="1.0" encoding="UTF-8"?>

<service xmlns="http://docs.openstack.org/identity/api/ext/OS-KSADM/v1.0" id=
"nova"
    type="compute" description="OpenStack Compute Service" />

{
        "OS-KSADM:service":{
            "id":"nova",
            "type":"compute",
            "description":"A description ..."
        }
}
```

# 2.1.4.4. Delete Service

Verb	URI	Description
DELETE	/OS-KSADM/services/{serviceId}	Delete a service.

Delete a service.

#### **Table 2.30. Parameters**

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

#### Normal Response Code(s)

• (204)

#### **Error Response Code(s)**

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

#### **Example 2.38. Delete a Service**

This operation does not require a request body.