

# **OS-KSADM-admin Extension**

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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

Verb	URI	Description	
	User Operations		
GET	/users	List users.	
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.	
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type}	Update credentials.	
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type}	Delete User credentials.	
GET	/users/{userId}/OS-KSADM/ credentials/{credential-type}	Get user credentials.	
	Tenant O	perations	
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	/tenants/{tenantId}/OS-KSADM/users ?roleId=string▮=string& limit=int	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	<pre>/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}</pre>	Adds a specific role to a user for a tenant.	
DELETE	<pre>/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}</pre>	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			

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. 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 Op	perations
GET	/users	List users.
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.
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type}	Update credentials.
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type}	Delete User credentials.
GET	/users/{userId}/OS-KSADM/ credentials/{credential-type}	Get user credentials.
	Tenant C	) Operations
POST	/tenants	Creates a tenant.
POST	/tenants/{tenantId}	Updates a tenant.
DELETE	/tenants/{tenantId}	Deletes a tenant.

API v2.0

Verb	URI	Description	
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 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.	

# 2.1.1. User Operations

Verb	URI	Description
GET	/users	List users.
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.
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type}	Update credentials.
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type}	Delete User credentials.
GET	/users/{userId}/OS-KSADM/ credentials/{credential-type}	Get user credentials.

#### 2.1.1.1. List users

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Verb	URI	Description
GET	/users	List users.

List users.

#### **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)

• userss (200 203)

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

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

#### **Example 2.1. List Users Response**

```
{
    "users":[{
        "id":"u1000",
        "username":"jqsmith",
        "email":"john.smith@example.org",
        "enabled":true
},
{
        "id":"u1001",
        "username":"jqsmith",
        "email":"john.smith@example.org",
        "enabled":true
}
```

```
1,
    "users_links":[]
}
```

#### 2.1.1.2. Add user

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Verb	URI	Description
POST	/users	Adds a user.

Adds a user.

#### Table 2.3. 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 2.2. User Creation Request**

#### **Example 2.3. User Creation Response**

```
<?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
    }
}
```

# 2.1.1.3. Update user

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

Update 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)**

• user (200)

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

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

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

#### **Example 2.5. User Updation 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" id="u1000"/>

{
    "user": {
        "id": "u1000",
```

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

#### **Example 2.6. User Updation Response**

#### 2.1.1.4. Delete user

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

Delete 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.	

#### 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 2.7. Delete User Request**

This operation does not require a request body.

# 2.1.1.5. 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 2.6. 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 2.8. List Global Roles for User Response**

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

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

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Adds a specific global role 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.
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 2.9. Adds global role to a user request

This operation does not require a request body.

#### 2.1.1.7. Get user Role

Verb	URI	Description
	/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 2.8. 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)**

• role (200 203)

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

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

## **Example 2.10. 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"
   }
}
```

## 2.1.1.8. 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 2.9. 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)

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

- identityFault
- badRequest(400)
- unauthorized(401)
- forbidden(403)

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

#### Example 2.11. Deletes global role from a user

This operation does not require a request body.

#### 2.1.1.9. Add user Credential.

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

Adds a credential to a user.

#### **Table 2.10. Parameters**

Name	Style	Description	
	Request parameters		
X-Auth- header You need a valid admin token for access.  Token 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 2.12. 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"/>

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

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#### **Example 2.13. Add 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"
        }
}
```

#### 2.1.1.10. List Credentials

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

List credentials.

#### **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)

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

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

#### **Example 2.14. List Credentials Response**

```
<?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"/>
</credentials>
```

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Update credentials.

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

credentials/{credential-type}

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

#### **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 2.15. 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",
```

```
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```

```
"password": "mypass"
}
```

# **Example 2.16. Update Credential Response**

"username": "test\_user",
"password": "mypass"

```
<?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": {
```

# 2.1.1.12. Delete user credential

Verb	URI	Description
POST	/users/{userId}/OS-KSADM/ credentials/{credential-type}	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	ate <b>nypla</b> te	Extensible Credentials Type. Optional.	

#### 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 2.17. Delete User Credentials**

This operation does not require a request body.

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#### 2.1.1.13. Get user Credentials

Verb	URI	Description
GET	/users/{userId}/OS-KSADM/ credentials/{credential-type}	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.	
credenti	ate <b>nypla</b> te	ExtensibleCredentialsType. 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"</pre>
 xmlns="http://docs.openstack.org/identity/api/v2.0" username="test_user"
password="test"/>
    "passwordCredentials": {
        "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.

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

#### 2.1.2.1. Add Tenant

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Verb	URI	Description
POST	/tenants	Creates a tenant.

This call creates a tenant.

#### **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)

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

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

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

```
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```

```
"enabled": true
}
```

#### **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	header	You need a valid admin token for access.	
		String. Required.	
tenantId	template	String. Optional.	

#### Normal Response Code(s)

• tenant (200)

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

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

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

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

```
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```

# **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. String. Required.
tenantId	template	String. Optional.

#### Normal Response Code(s)

• (204)

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

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

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- 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)

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

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

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

```
OS-KSADM-admin Extension
                                                      Aug 29, 2011
        Document
                               username="jqsmith" id="u1001"/>
                   </users>
                        "users":[{
                                  "id": "u1000",
                                  "username": "jqsmith",
                                  "email": "john.smith@example.org",
                                  "enabled":true
                                  "id": "u1001",
                                  "username": "jqsmith",
                                  "email": "john.smith@example.org",
                                  "enabled":true
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                        ],
                        "users_links":[]
        2.1.2.5. List user with role for tenant.
                      Verb
                                              URI
                                                                                     Description
                   GET
                             /tenants/{tenantId}/OS-KSADM/users | Lists all the users with a specific role for a tenant.
                             ?roleId=string&marker=string&
                             limit=int
                   Lists all the users with a specific role for a tenant.
                   Table 2.19. Parameters
                     Name
                                    Style
                                                                            Description
                                                          Request parameters
                   X-Auth-
                             header
                                                You need a valid admin token for access.
                    Token
                                                String. Required.
                   roleId
                             query
                                                String. Required.
                   marker
                                                String. Optional.
                             query
                                                Int. Optional.
                   limit
                             query
 1
                   tenantId template
                                                String. Optional.
                   Normal Response Code(s)

    users (200 203)

                   Error Response Code(s)

    identityFault

    badRequest(400)

                   unauthorized(401)
```

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

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#### 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="u1001"/>
</users>
    "users":[{
            "id": "u1000",
            "username":"jqsmith",
            "email": "john.smith@example.org",
            "enabled":true
            "id": "u1001",
            "username": "jqsmith",
            "email": "john.smith@example.org",
            "enabled":true
    ],
    "users_links":[]
```

## 2.1.2.6. List roles for a Tenant.

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

Lists all the roles for a tenant.

#### **Table 2.20. 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)**

• roles (200 203)

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

- identityFault
- badRequest(400)

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- 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	<pre>/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}</pre>	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- Token	header	You need a valid admin token for access. 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. Add role to a user for a Tenant Request

This operation does not require a request body.

#### 2.1.2.8. Delete roles on tenant.

Verb	URI	Description
DELETE	/tenants/{tenantId}/OS-KSADM/ users/{userId}/roles/{roleId}	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)

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

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

**API v2.0** 

Verb	URI	Description
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	dquery	String. Optional.	
marker	query	String. Optional.	
limit	query	Int. 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 2.29. List Roles Response**

}

# 2.1.3.2. Add Role

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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.
TOKCII		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"?>
<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"</pre>
```

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```
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)

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

- identityFault
- badRequest(400)
- unauthorized(401)
- forbidden(403)
- badMethod(405)
- overLimit(413)
- 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"</pre>
 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.

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

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

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

# 2.1.4.2. Add Service

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

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Add a service.

#### **Table 2.28. 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)**

• 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"
    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**

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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	dtemplate	Int. Optional.	

#### Normal Response Code(s)

• service (200 203)

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

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

#### **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	atemplate	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.