

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	<pre>/tenants/{tenantId}/users? marker=string&limit=int</pre>	Lists all the users for a tenant.	
GET	/tenants/{tenantId}/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}/users/ {userId}/roles/OS-KSADM/{roleId}</pre>	Adds a specific role to a user for a tenant.	
DELETE	<pre>/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{roleId}</pre>	Deletes a specific role from a user for a tenant.	
Role Operations			
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 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 Operations		
POST	/tenants	Creates a tenant.	
POST	/tenants/{tenantId}	Updates a tenant.	
DELETE	/tenants/{tenantId}	Deletes a tenant.	

Verb	URI	Description
GET	<pre>/tenants/{tenantId}/users? marker=string&limit=int</pre>	Lists all the users for a tenant.
GET	<pre>/tenants/{tenantId}/users? roleId=string▮=string& 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}/users/ {userId}/roles/OS-KSADM/{roleId}</pre>	Adds a specific role to a user for a tenant.
DELETE	<pre>/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{roleId}</pre>	Deletes a specific role from a user for a tenant.
Role Opera		perations
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		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

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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.

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Verb	URI	Description
GET	/users	List users.

List users.

Table 2.2. List users 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: XML

```
<?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>
```

Example 2.2. List Users Response: JSON

```
"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":[]
}
```

2.1.1.2. Add user

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Verb	URI	Description
POST	/users	Adds a user.

Adds a user.

Table 2.3. Add user parameters

Name	Style	Description
Request parameters		
X-Auth-Token header You need a valid admin token		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 2.3. User Creation Request: XML

```
<?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"/>
```

Example 2.4. User Creation Request: JSON

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

Example 2.5. User Creation Response: XML

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

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```

```
<user xmlns="http://docs.openstack.org/identity/api/v2.0"
    enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1000"/>
```

Example 2.6. User Creation Response: JSON

```
{
   "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. Update user parameters

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

Normal Response Code(s)

• user (200)

Error Response Code(s)

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

Example 2.7. User Updation Request: XML

```
<?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"/>
```

Example 2.8. User Updation Request: JSON

```
OS-KSADM-admin Extension
                                                Aug 29, 2011
       Document
                   "user": {
                     "id": "u1000",
                     "username": "jqsmith",
                     "email": "john.smith@example.org",
                     "enabled": true
1
                Example 2.9. User Updation Response: XML
                <?xml version="1.0" encoding="UTF-8"?>
                <user xmlns="http://docs.openstack.org/identity/api/v2.0"</pre>
                       enabled="true" email="john.smith@example.org"
                       username="jqsmith" id="u1000"/>
                Example 2.10. User Updation Response: JSON
                   "user": {
                     "id": "u1000",
                     "username": "jqsmith",
1
                     "email": "john.smith@example.org",
                     "enabled": true
                 }
       2.1.1.4. Delete user
                                         URI
                   Verb
                                                                            Description
                 DELETE
                         /users/{userId}
                                                            Delete a user.
                Delete a user.
1
                Table 2.5. Delete user parameters
                                          Style
                                                                        Description
                                                    Request parameters
                                                   You need a valid admin token for access.
                 X-Auth-Token
                                      header
1
                                                   String. Required.
                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. 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. List Global Roles for a User parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	You need a valid admin token for access.
		String. Required.
serviceId	query	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 2.12. List Global Roles for User Response: XML

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

Example 2.13. List Global Roles for User Response: JSON

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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.

Adds a specific global role to a user.

Table 2.7. Add Global roles to a user. 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 2.14. 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
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 2.8. Get user Role 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)

Error Response Code(s)

• identityFault

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

Example 2.15. List Roles for User Response: XML

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

Example 2.16. List Roles for User Response: JSON

```
{
   "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. Delete Global Roles on User. 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 2.17. 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/ credentials	Adds a credential to a user.

Adds a credential to a user.

Table 2.10. 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)

Error Response Code(s)

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

Example 2.18. Add Credentials Request: XML

```
<?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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Example 2.19. Add Credentials Request: JSON

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

Example 2.20. Add Credential Response: XML

```
<?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"/>
```

Example 2.21. Add Credential Response: JSON

```
{
    "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. 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)

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

Example 2.22. 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"/>
</credentials>
```

Example 2.23. List Credentials Response: JSON

2.1.1.11. Update user credential

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

Update credentials.

Table 2.12. Update user credential parameters

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

Normal Response Code(s)

• credentials (200)

Error Response Code(s)

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

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- badMediaType(415)
- itemNotFound(404)

Example 2.24. Update Credential Request: XML

```
<?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"/>
```

Example 2.25. Update Credential Request: JSON

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

Example 2.26. Update Credential Response: XML

```
<?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"/>
```

Example 2.27. Update Credential Response: JSON

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

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. Delete user credential parameters

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

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)
- badMediaType(415)
- itemNotFound(404)

Example 2.28. 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}	Get user credentials.	

Get user credentials.

Table 2.14. Get user Credentials parameters

Name	Style	Description
		Request parameters
X-Auth-Token	header	You need a valid admin token for access.
		String. Required.
credentialType	template	ExtensibleCredentialsType. 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 2.29. Get User Credential Response: XML

```
<?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"/>
```

Example 2.30. Get User Credential Response: JSON

```
{
    "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.
GET	<pre>/tenants/{tenantId}/users? marker=string&limit=int</pre>	Lists all the users for a tenant.
GET	/tenants/{tenantId}/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}/users/ {userId}/roles/OS-KSADM/{roleId}</pre>	Adds a specific role to a user for a tenant.
DELETE	<pre>/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{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. Add Tenant 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)

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

Example 2.31. Tenant Creation Request: XML

Example 2.32. Tenant Creation Request: JSON

```
{
  "tenant": {
    "name": "ACME corp",
    "description": "A description ...",
    "enabled": true
}
```

Example 2.33. Tenant Creation Response: XML

Example 2.34. Tenant Creation Response: JSON

```
{
  "tenant": {
    "id": "1234",
    "name": "ACME corp",
    "description": "A description ...",
    "enabled": true
  }
}
```

2.1.2.2. Update Tenant

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

This call updates a tenant.

Table 2.16. Update Tenant parameters

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

Name	Style	Description
		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 2.35. Tenant Update Request: XML

Example 2.36. Tenant Update Request: JSON

```
{
  "tenant": {
    "id": "1234",
    "name": "ACME corp",
    "description": "A description ...",
    "enabled": true
}
}
```

Example 2.37. Tenant Update Response: XML

Example 2.38. Tenant Update Response: JSON

```
{
  "tenant": {
    "id": "1234",
    "name": "ACME corp",
    "description": "A description ...",
    "enabled": true
}
```

}

2.1.2.3. Delete a Tenant

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

This call deletes a tenant.

Table 2.17. Delete a Tenant 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)
- forbidden(403)
- badMethod(405)
- overLimit(413)
- serviceUnavailable(503)
- itemNotFound(404)

Example 2.39. 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}/users? marker=string&limit=int	Lists all the users for a tenant.

Lists all the users for a tenant.

Table 2.18. List users for a Tenant. parameters

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

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Name	Style	Description
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 2.40. List Users for Tenant Response: XML

Example 2.41. List Users for Tenant Response: JSON

2.1.2.5. List user with role for tenant.

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

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

Table 2.19. List user with role for tenant. 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)

Error Response Code(s)

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

Example 2.42. List Users with a specific role for a Tenant Response: XML

Example 2.43. List Users with a specific role for a Tenant Response: JSON

```
{
    "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":[]
}
```

2.1.2.6. 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. List roles for a Tenant. 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)
- unauthorized(401)
- forbidden(403)
- badMethod(405)
- overLimit(413)
- serviceUnavailable(503)
- itemNotFound(404)

Example 2.44. List Roles for Tenant Response: XML

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

Example 2.45. List Roles for Tenant Response: JSON

```
{
    "roles":[{
        "id":"compute:admin"
     }
],
```

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```
"roles_links":[]
}
```

2.1.2.7. Add roles to a user on a tenant.

Verb	URI	Description
PUT	<pre>/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{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. Add roles to a user on a tenant. 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 2.46. Add role to a user for a Tenant Request

This operation does not require a request body.

2.1.2.8. Delete roles from a user on tenant.

Verb	URI	Description
DELETE	<pre>/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{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. Delete roles from a user on tenant. parameters

Name		Style	Description	
Request parameters				

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Name	Style	Description
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 2.47. 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. List Roles 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
serviceId	query	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 2.48. List Roles Response: XML

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

Example 2.49. List Roles Response: JSON

2.1.3.2. Add Role

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

Add a Role.

Table 2.24. Add Role parameters

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

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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 2.50. Add a Role Request: XML

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

Example 2.51. Add a Role Request: JSON

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

Example 2.52. Add a Role Response: XML

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

Example 2.53. Add a Role Response: JSON

```
{
   "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.

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Table 2.25. Get Role 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 2.54. Get a role: XML

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

Example 2.55. Get a role: JSON

```
{
   "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. Delete Role parameters

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

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Name	Style	Description
		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 2.56. 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. List Services parameters

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

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Name	Style	Description
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 2.57. List services Response: XML

Example 2.58. List services Response: JSON

2.1.4.2. Add Service

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

Add a service.

Table 2.28. Add Service parameters

Name	Style	Description	
Request parameters			

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Example 2.59. Add a service Request: XML

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

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

Example 2.61. Add a service Response: XML

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

Example 2.62. Add a service Response: JSON

```
"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. Get Service parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	You need a valid admin token for access.
		String. Required.
serviceId	template	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 2.63. Get a service Response: XML

```
<?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" />
```

Example 2.64. Get a service Response: JSON

```
{
   "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. Delete Service parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	You need a valid admin token for access.
		String. Required.
serviceId	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 2.65. Delete a Service

This operation does not require a request body.