

OS-KSADM Extension

API v2.0 (Aug 29, 2011)

DRAFT



OS-KSADM Extension

API v2.0 (2011-08-29)

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This document includes details on various operations supported by the OS-KSADM 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-KSADM
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	<ul style="list-style-type: none">Initial release.

2. Extension Operations

Verb	URI	Description
User Operations		
GET	v2.0/users	List users.
POST	v2.0/users	Adds a user.
POST	v2.0/users/{userId}	Update a user.
DELETE	v2.0/users/{userId}	Delete a user.
GET	v2.0/users/{userId}/OS-KSADM/roles? serviceId=string	List all the global roles for a user.
PUT	v2.0/users/{userId}/OS-KSADM/ roles/{roleId}	Adds a specific global role to a user.
GET	v2.0/users/{userId}/OS-KSADM/ roles/{roleId}	Get information about a global role that belongs to a user.
DELETE	v2.0/users/{userId}/OS-KSADM/ roles/{roleId}	Deletes a specific global role from a user.
POST	v2.0/users/{userId}/OS-KSADM/ credentials	Adds a credential to a user.
GET	v2.0/users/{userId}/OS-KSADM/ credentials?marker=string& limit=int	List credentials.
POST	v2.0/users/{userId}/OS-KSADM/ credentials/{credential-type}	Update credentials.
DELETE	v2.0/users/{userId}/OS-KSADM/ credentials/{credential-type}	Delete User credentials.
GET	v2.0/users/{userId}/OS-KSADM/ credentials/{credential-type}	Get user credentials.
Tenant Operations		
POST	v2.0/tenants	Creates a tenant.
POST	v2.0/tenants/{tenantId}	Updates a tenant.
DELETE	v2.0/tenants/{tenantId}	Deletes a tenant.
GET	v2.0/tenants/{tenantId}/users? marker=string&limit=int	Lists all the users for a tenant.
GET	v2.0/tenants/{tenantId}/users ?roleId=string&marker=string& limit=int	Lists all the users with a specific role for a tenant.
GET	v2.0/tenants/{tenantId}/OS-KSADM/ roles?marker=string&limit=int	Lists all the roles for a tenant.
PUT	v2.0/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{roleId}	Adds a specific role to a user for a tenant.
DELETE	v2.0/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{roleId}	Deletes a specific role from a user for a tenant.
Role Operations		
GET	v2.0/OS-KSADM/roles? serviceId=string&marker=string& limit=int	List roles.
POST	v2.0/OS-KSADM/roles	Add a Role.
GET	v2.0/OS-KSADM/roles/{roleId}	Get a role.
DELETE	v2.0/OS-KSADM/roles/{roleId}	Delete a role.
Service Operations		

Verb	URI	Description
GET	v2.0/OS-KSADM/services? marker=string&limit=int	List services.
POST	v2.0/OS-KSADM/services	Add a service.
GET	v2.0/OS-KSADM/services/{serviceId}	Get a service.
DELETE	v2.0/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	v2.0/users	List users.
POST	v2.0/users	Adds a user.
POST	v2.0/users/{userId}	Update a user.
DELETE	v2.0/users/{userId}	Delete a user.
GET	v2.0/users/{userId}/OS-KSADM/roles? serviceId=string	List all the global roles for a user.
PUT	v2.0/users/{userId}/OS-KSADM/ roles/{roleId}	Adds a specific global role to a user.
GET	v2.0/users/{userId}/OS-KSADM/ roles/{roleId}	Get information about a global role that belongs to a user.
DELETE	v2.0/users/{userId}/OS-KSADM/ roles/{roleId}	Deletes a specific global role from a user.
POST	v2.0/users/{userId}/OS-KSADM/ credentials	Adds a credential to a user.
GET	v2.0/users/{userId}/OS-KSADM/ credentials?marker=string& limit=int	List credentials.
POST	v2.0/users/{userId}/OS-KSADM/ credentials/{credential-type}	Update credentials.
DELETE	v2.0/users/{userId}/OS-KSADM/ credentials/{credential-type}	Delete User credentials.
GET	v2.0/users/{userId}/OS-KSADM/ credentials/{credential-type}	Get user credentials.
Tenant Operations		
POST	v2.0/tenants	Creates a tenant.
POST	v2.0/tenants/{tenantId}	Updates a tenant.
DELETE	v2.0/tenants/{tenantId}	Deletes a tenant.
GET	v2.0/tenants/{tenantId}/users? marker=string&limit=int	Lists all the users for a tenant.

Verb	URI	Description
GET	v2.0/tenants/{tenantId}/users? roleId= <i>string</i> &marker= <i>string</i> & limit= <i>int</i>	Lists all the users with a specific role for a tenant.
GET	v2.0/tenants/{tenantId}/OS-KSADM/ roles?marker= <i>string</i> &limit= <i>int</i>	Lists all the roles for a tenant.
PUT	v2.0/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{roleId}	Adds a specific role to a user for a tenant.
DELETE	v2.0/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{roleId}	Deletes a specific role from a user for a tenant.
Role Operations		
GET	v2.0/OS-KSADM/roles? serviceId= <i>string</i> &marker= <i>string</i> & limit= <i>int</i>	List roles.
POST	v2.0/OS-KSADM/roles	Add a Role.
GET	v2.0/OS-KSADM/roles/{roleId}	Get a role.
DELETE	v2.0/OS-KSADM/roles/{roleId}	Delete a role.
Service Operations		
GET	v2.0/OS-KSADM/services? marker= <i>string</i> &limit= <i>int</i>	List services.
POST	v2.0/OS-KSADM/services	Add a service.
GET	v2.0/OS-KSADM/services/{serviceId}	Get a service.
DELETE	v2.0/OS-KSADM/services/{serviceId}	Delete a service.

2.1.1. User Operations

Verb	URI	Description
GET	v2.0/users	List users.
POST	v2.0/users	Adds a user.
POST	v2.0/users/{userId}	Update a user.
DELETE	v2.0/users/{userId}	Delete a user.
GET	v2.0/users/{userId}/OS-KSADM/roles? serviceId= <i>string</i>	List all the global roles for a user.
PUT	v2.0/users/{userId}/OS-KSADM/ roles/{roleId}	Adds a specific global role to a user.
GET	v2.0/users/{userId}/OS-KSADM/ roles/{roleId}	Get information about a global role that belongs to a user.
DELETE	v2.0/users/{userId}/OS-KSADM/ roles/{roleId}	Deletes a specific global role from a user.
POST	v2.0/users/{userId}/OS-KSADM/ credentials	Adds a credential to a user.
GET	v2.0/users/{userId}/OS-KSADM/ credentials?marker= <i>string</i> & limit= <i>int</i>	List credentials.
POST	v2.0/users/{userId}/OS-KSADM/ credentials/{credential-type}	Update credentials.
DELETE	v2.0/users/{userId}/OS-KSADM/ credentials/{credential-type}	Delete User credentials.
GET	v2.0/users/{userId}/OS-KSADM/ credentials/{credential-type}	Get user credentials.

2.1.1.1. List users

Verb	URI	Description
GET	v2.0/users	List users.

Normal Response Code(s): 200, 203

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

List users.

Table 2.2. List users Request Parameters

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

This operation does not require a request body.

Example 2.1. 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"
    enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1000"/>
  <user xmlns="http://docs.openstack.org/identity/api/v2.0"
    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

Verb	URI	Description
POST	v2.0/users	Adds a user.

Normal Response Code(s): 201

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

Adds a user.

Table 2.3. Add user Request Parameters

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

Example 2.3. Add user 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. Add user Request: JSON

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

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

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

2.1.1.3. Update user

Verb	URI	Description
POST	v2.0/users/{userId}	Update a user.

Normal Response Code(s): 200

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

Update a user.

Table 2.4. Update user Request Parameters

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

Example 2.7. Update user 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. Update user Request: JSON

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

Example 2.9. Update user Response: 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 2.10. Update user Response: JSON

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

2.1.1.4. Delete user

Verb	URI	Description
DELETE	v2.0/users/{userId}	Delete a user.

Normal Response Code(s): 204

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

Delete a user.

Table 2.5. Delete user Request Parameters

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

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

2.1.1.5. List Global Roles for a User

Verb	URI	Description
GET	v2.0/users/{userId}/OS-KSADM/roles ?serviceId=string	List all the global roles for a user.

Normal Response Code(s): 200, 203

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

List all the global roles for a user.

Table 2.6. List Global Roles for a User Request Parameters

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

Example 2.11. List Global Roles for a User Response: XML

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

<roles xmlns="http://docs.openstack.org/identity/api/v2.0">
  <role id="123" name="Admin" description="All Access" />
  <role id="234" name="Guest" description="Guest Access" />
</roles>
```

Example 2.12. List Global Roles for a User Response: JSON

```
{
  "roles": [{
    "id": "123",
    "name": "compute:admin",
    "description": "Nova Administrator",
  }],
  "roles_links": []
}
```

```
}
```

2.1.1.6. Add Global roles to a user.

Verb	URI	Description
PUT	v2.0/users/{userId}/OS-KSADM/roles/{roleId}	Adds a specific global role to a user.

Normal Response Code(s): 200

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

Adds a specific global role to a user.

Table 2.7. Add Global roles to a user. Request Parameters

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

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

2.1.1.7. Get user Role

Verb	URI	Description
GET	v2.0/users/{userId}/OS-KSADM/roles/{roleId}	Get information about a global role that belongs to a user.

Normal Response Code(s): 200, 203

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

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

Table 2.8. Get user Role Request Parameters

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

This operation does not require a request body.

Example 2.13. Get user Role Response: XML

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



```
id="123" name="Admin" description="All Access" />
```

Example 2.14. Get user Role Response: JSON

```
{
  "role": {
    "id": "123",
    "name": "Guest",
    "description": "Guest Access"
  }
}
```

2.1.1.8. Delete Global Roles on User.

Verb	URI	Description
DELETE	v2.0/users/{userId}/OS-KSADM/roles/{roleId}	Deletes a specific global role from a user.

Normal Response Code(s): 204

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

Deletes a specific global role from a user.

Table 2.9. Delete Global Roles on User. Request Parameters

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

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

2.1.1.9. Add user Credential.

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

Normal Response Code(s): 201

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

Adds a credential to a user.

Table 2.10. Add user Credential. Request Parameters

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

Example 2.15. Add user 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 2.16. Add user Credential. Request: JSON

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

Example 2.17. Add user 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 2.18. Add user Credential. Response: JSON

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

2.1.1.10. List Credentials

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

Normal Response Code(s): 200, 203

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

List credentials.

Table 2.11. List Credentials Request Parameters

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

Example 2.19. 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 2.20. List Credentials Response: JSON

```
{
  "credentials": [{
    "passwordCredentials": {
      "username": "test_user",
      "password": "mypass"
    }
  }],
  "credentials_links": []
}
```

2.1.1.11. Update user credential

Verb	URI	Description
POST	v2.0/users/{userId}/OS-KSADM/credentials/{credential-type}	Update credentials.

Normal Response Code(s): 200

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

Update credentials.

Table 2.12. Update user credential Request Parameters

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

Example 2.21. Update user 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 2.22. Update user credential Request: JSON

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

```
}
}
```

Example 2.23. Update user 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 2.24. Update user credential Response: JSON

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

2.1.1.12. Delete user credential

Verb	URI	Description
DELETE	v2.0/users/{userId}/OS-KSADM/credentials/{credential-type}	Delete User credentials.

Normal Response Code(s): 204

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

Delete User credentials.

Table 2.13. Delete user credential Request Parameters

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

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

2.1.1.13. Get user Credentials

Verb	URI	Description
GET	v2.0/users/{userId}/OS-KSADM/credentials/{credential-type}	Get user credentials.

Normal Response Code(s): 200, 203

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

Get user credentials.

Table 2.14. Get user Credentials Request Parameters

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

This operation does not require a request body.

Example 2.25. Get user Credentials 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 2.26. Get user Credentials Response: JSON

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

2.1.2. Tenant Operations

Verb	URI	Description
POST	v2.0/tenants	Creates a tenant.
POST	v2.0/tenants/{tenantId}	Updates a tenant.
DELETE	v2.0/tenants/{tenantId}	Deletes a tenant.
GET	v2.0/tenants/{tenantId}/users? marker=string&limit=int	Lists all the users for a tenant.
GET	v2.0/tenants/{tenantId}/users ?roleId=string&marker=string& limit=int	Lists all the users with a specific role for a tenant.
GET	v2.0/tenants/{tenantId}/OS-KSADM/ roles?marker=string&limit=int	Lists all the roles for a tenant.
PUT	v2.0/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{roleId}	Adds a specific role to a user for a tenant.
DELETE	v2.0/tenants/{tenantId}/users/ {userId}/roles/OS-KSADM/{roleId}	Deletes a specific role from a user for a tenant.

2.1.2.1. Add Tenant

Verb	URI	Description
POST	v2.0/tenants	Creates a tenant.

Normal Response Code(s): 201

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

This call creates a tenant.

Table 2.15. Add Tenant Request Parameters

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

Example 2.27. Add Tenant Request: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<tenant xmlns="http://docs.openstack.org/identity/api/v2.0"
  enabled="true" name="ACME Corp">
  <description>A description...</description>
</tenant>
```

Example 2.28. Add Tenant Request: JSON

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

Example 2.29. Add Tenant Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<tenant xmlns="http://docs.openstack.org/identity/api/v2.0"
  enabled="true" id="1234" name="ACME Corp">
  <description>A description...</description>
</tenant>
```

Example 2.30. Add Tenant Response: JSON

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

2.1.2.2. Update Tenant

Verb	URI	Description
POST	v2.0/tenants/{tenantId}	Updates a tenant.

Normal Response Code(s): 200

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

This call updates a tenant.

Table 2.16. Update Tenant Request Parameters

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

Example 2.31. Update Tenant Request: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<tenant xmlns="http://docs.openstack.org/identity/api/v2.0"
  enabled="true" id="1234" name="ACME Corp">
  <description>A description...</description>
</tenant>
```

Example 2.32. Update Tenant Request: JSON

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

Example 2.33. Update Tenant Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<tenant xmlns="http://docs.openstack.org/identity/api/v2.0"
  enabled="true" id="1234" name="ACME Corp">
  <description>A description...</description>
</tenant>
```

Example 2.34. Update Tenant Response: JSON

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

2.1.2.3. Delete a Tenant

Verb	URI	Description
DELETE	v2.0/tenants/{tenantId}	Deletes a tenant.

Normal Response Code(s): 204

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

This call deletes a tenant.

Table 2.17. Delete a Tenant Request Parameters

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

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

2.1.2.4. List users for a Tenant.

Verb	URI	Description
GET	v2.0/tenants/{tenantId}/users? marker=string&limit=int	Lists all the users for a tenant.

Normal Response Code(s): 200, 203

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

Lists all the users for a tenant.

Table 2.18. List users for a Tenant. Request Parameters

Name	Style	Description
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.

Example 2.35. List users for a Tenant. 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"
    enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1000"/>
  <user xmlns="http://docs.openstack.org/identity/api/v2.0"
    enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1001"/>
</users>
```

Example 2.36. List users 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
    }
  ],
  "users_links": []
}

```

2.1.2.5. List user with role for tenant.

Verb	URI	Description
GET	v2.0/tenants/{tenantId}/users ?roleId=string&marker=string& limit=int	Lists all the users with a specific role for a tenant.

Normal Response Code(s): 200, 203

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

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

Table 2.19. List user with role for tenant. Request Parameters

Name	Style	Description
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.

Example 2.37. List user with role for tenant. 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"
    enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1000"/>
  <user xmlns="http://docs.openstack.org/identity/api/v2.0"
    enabled="true" email="john.smith@example.org"
    username="jqsmith" id="u1001"/>
</users>

```

Example 2.38. List user with role for 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
    }
  ],
  "users_links": []
}

```

2.1.2.6. List roles for a Tenant.

Verb	URI	Description
GET	v2.0/tenants/{tenantId}/OS-KSADM/roles?marker=string&limit=int	Lists all the roles for a tenant.

Normal Response Code(s): 200, 203

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

Lists all the roles for a tenant.

Table 2.20. List roles for a Tenant. Request Parameters

Name	Style	Description
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.

Example 2.39. List roles for a Tenant. Response: XML

```

<?xml version="1.0" encoding="UTF-8"?>
<roles xmlns="http://docs.openstack.org/identity/api/v2.0">
  <role id="123" name="Admin" description="All Access" />
  <role id="234" name="Guest" description="Guest Access" />
</roles>

```

Example 2.40. List roles for a Tenant. Response: JSON

```

{
  "roles": [{
    "id": "123",
    "name": "compute:admin",
    "description": "Nova Administrator",

```

```

    },
    "roles_links": []
}

```

2.1.2.7. Add roles to a user on a tenant.

Verb	URI	Description
PUT	v2.0/tenants/{tenantId}/users/{userId}/roles/OS-KSADM/{roleId}	Adds a specific role to a user for a tenant.

Normal Response Code(s): 200

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

Adds a specific role to a user for a tenant.

Table 2.21. Add roles to a user on a tenant. Request Parameters

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

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

2.1.2.8. Delete roles from a user on tenant.

Verb	URI	Description
DELETE	v2.0/tenants/{tenantId}/users/{userId}/roles/OS-KSADM/{roleId}	Deletes a specific role from a user for a tenant.

Normal Response Code(s): 204

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

Deletes a specific role from a user for a tenant.

Table 2.22. Delete roles from a user on tenant. Request Parameters

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

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

2.1.3. Role Operations

Verb	URI	Description
GET	v2.0/OS-KSADM/roles? serviceId=string&marker=string& limit=int	List roles.
POST	v2.0/OS-KSADM/roles	Add a Role.
GET	v2.0/OS-KSADM/roles/{roleId}	Get a role.
DELETE	v2.0/OS-KSADM/roles/{roleId}	Delete a role.

2.1.3.1. List Roles

Verb	URI	Description
GET	v2.0/OS-KSADM/roles? serviceId=string&marker=string& limit=int	List roles.

Normal Response Code(s): 200, 203

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

List roles.

Table 2.23. List Roles Request Parameters

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

Example 2.41. List Roles Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<roles xmlns="http://docs.openstack.org/identity/api/v2.0">
  <role id="123" name="Admin" description="All Access" />
  <role id="234" name="Guest" description="Guest Access" />
</roles>
```

Example 2.42. List Roles Response: JSON

```
{
  "roles": [{
    "id": "123",
    "name": "compute:admin",
    "description": "Nova Administrator",
  }],
}
```

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

2.1.3.2. Add Role

Verb	URI	Description
POST	v2.0/OS-KSADM/roles	Add a Role.

Normal Response Code(s): 201

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

Add a Role.

Table 2.24. Add Role Request Parameters

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

Example 2.43. Add Role Request: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<role xmlns="http://docs.openstack.org/identity/api/v2.0"
  id="123" name="Admin" description="All Access" />
```

Example 2.44. Add Role Request: JSON

```
{
  "role": {
    "id": "123",
    "name": "Guest",
    "description": "Guest Access"
  }
}
```

Example 2.45. Add Role Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<role xmlns="http://docs.openstack.org/identity/api/v2.0"
  id="123" name="Admin" description="All Access" />
```

Example 2.46. Add Role Response: JSON

```
{
  "role": {
    "id": "123",
    "name": "Guest",
    "description": "Guest Access"
  }
}
```

2.1.3.3. Get Role

Verb	URI	Description
GET	v2.0/OS-KSADM/roles/{roleId}	Get a role.

Normal Response Code(s): 200, 203

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

Get a role.

Table 2.25. Get Role Request Parameters

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

This operation does not require a request body.

2.1.3.4. Delete Role

Verb	URI	Description
DELETE	v2.0/OS-KSADM/roles/{roleId}	Delete a role.

Normal Response Code(s): 204

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

Delete a role.

Table 2.26. Delete Role Request Parameters

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

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

2.1.4. Service Operations

Verb	URI	Description
GET	v2.0/OS-KSADM/services? marker=string&limit=int	List services.
POST	v2.0/OS-KSADM/services	Add a service.

Verb	URI	Description
GET	v2.0/OS-KSADM/services/{serviceId}	Get a service.
DELETE	v2.0/OS-KSADM/services/{serviceId}	Delete a service.

2.1.4.1. List Services

Verb	URI	Description
GET	v2.0/OS-KSADM/services? marker=string&limit=int	List services.

Normal Response Code(s): 200, 203

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

List services.

Table 2.27. List Services Request Parameters

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

Example 2.47. List Services Response: XML

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

<services xmlns="http://docs.openstack.org/identity/api/ext/OS-KSADM/v1.0">
  <service id="123" name="nova" type="compute" description="Openstack Compute Service" />
  <service id="234" name="glance" type="image" description="Openstack Image Service" />
</services>
```

Example 2.48. List Services Response: JSON

```
{
  "OS-KSADM:services": [{
    "id": "123",
    "name": "nova",
    "type": "compute",
    "description": "OpenStack Compute Service"
  },
  {
    "id": "234",
    "name": "glance",
    "type": "image",
    "description": "OpenStack Image Service"
  }
  ],
  "OS-KSADM:services_links": []
}
```

2.1.4.2. Add Service

Verb	URI	Description
POST	v2.0/OS-KSADM/services	Add a service.

Normal Response Code(s): 201

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

Add a service.

Table 2.28. Add Service Request Parameters

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

Example 2.49. Add Service Request: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<service xmlns="http://docs.openstack.org/identity/api/ext/OS-KSADM/v1.0"
  id="123" name="nova" type="compute" description="OpenStack Compute Service" /
>
```

Example 2.50. Add Service Request: JSON

```
{
  "OS-KSADM:service":{
    "id":"123",
    "name":"nova",
    "type":"compute",
    "description":"OpenStack Compute Service"
  }
}
```

Example 2.51. Add Service Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<service xmlns="http://docs.openstack.org/identity/api/ext/OS-KSADM/v1.0"
  id="123" name="nova" type="compute" description="OpenStack Compute Service" /
>
```

Example 2.52. Add Service Response: JSON

```
{
  "OS-KSADM:service":{
    "id":"123",
    "name":"nova",
    "type":"compute",
    "description":"OpenStack Compute Service"
  }
}
```


2.1.4.3. Get Service

Verb	URI	Description
GET	v2.0/OS-KSADM/services/{serviceId}	Get a service.

Normal Response Code(s): 200, 203

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

Get a service.

Table 2.29. Get Service Request Parameters

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

This operation does not require a request body.

Example 2.53. Get Service Response: XML

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

<service xmlns="http://docs.openstack.org/identity/api/ext/OS-KSADM/v1.0"
  id="123" name="nova" type="compute" description="OpenStack Compute Service" /
>
```

Example 2.54. Get Service Response: JSON

```
{
  "OS-KSADM:service":{
    "id":"123",
    "name":"nova",
    "type":"compute",
    "description":"OpenStack Compute Service"
  }
}
```

2.1.4.4. Delete Service

Verb	URI	Description
DELETE	v2.0/OS-KSADM/services/{serviceId}	Delete a service.

Normal Response Code(s): 204

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

Delete a service.

Table 2.30. Delete Service Request Parameters

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

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