

OS-KSCATALOG Extension

API v2.0 (Aug 29, 2011)

DRAFT



OS-KSCATALOG Extension

API v2.0 (2011-08-29)

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

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1. About This Extension

Name	OpenStack KSCATALOG Extension
Namespace	http://docs.openstack.org/identity/api/ext/OS-KSCATALOG/v1.0
Alias	OS-KSCATALOG
Dependencies	Keystone - OpenStack Identity
Doc Link (PDF)	https://github.com/openstack/keystone/raw/master/keystone/content/admin/OS-KSCATALOG-admin-devguide.pdf
Doc Link (WADL)	https://raw.github.com/openstack/keystone/master/keystone/content/admin/OS-KSCATALOG-admin.wadl
Doc Link (XSD)	https://raw.github.com/openstack/keystone/master/keystone/content/common/xsd/OS-KSCATALOG.xsd
Short Description	OpenStack KSCATALOG Admin Extension to Keystone v2.0 API adds the capability to do CRUD on Endpoint Templates and Endpoints.

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
Endpoint Template Operations		
GET	v2.0/OS-KSCATALOG/ endpointTemplates?serviceId= <i>string</i>	List Endpoint Templates.
POST	v2.0/OS-KSCATALOG/ endpointTemplates	Add Endpoint Template.
GET	v2.0/OS-KSCATALOG/ endpointTemplates/ {endpointTemplateId}	Get Endpoint Template.
DELETE	v2.0/OS-KSCATALOG/ endpointTemplates/ {endpointTemplateId}	Delete a Endpoint Template.
Endpoint Operations		
GET	v2.0/tenants/{tenantId}/OS- KSCATALOG/endpoints	List Endpoints of a Tenant.
POST	v2.0/tenants/{tenantId}/OS- KSCATALOG/endpoints	Add Endpoint to a tenant.
GET	v2.0/tenants/{tenantId}/OS- KSCATALOG/endpoints/{endpointId}	Get Endpoint of a Tenant.
DELETE	v2.0/tenants/{tenantId}/OS- KSCATALOG/endpoints/{endpointId}	Delete a Endpoint from a Tenant.

2.1. OS-KSCATALOG Admin Extension

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 API OS-KSCATALOG Extension on top of Keystone Admin 2.0:

Verb	URI	Description
Endpoint Template Operations		
GET	v2.0/OS-KSCATALOG/ endpointTemplates?serviceId= <i>string</i>	List Endpoint Templates.
POST	v2.0/OS-KSCATALOG/ endpointTemplates	Add Endpoint Template.
GET	v2.0/OS-KSCATALOG/ endpointTemplates/ {endpointTemplateId}	Get Endpoint Template.
DELETE	v2.0/OS-KSCATALOG/ endpointTemplates/ {endpointTemplateId}	Delete a Endpoint Template.
Endpoint Operations		
GET	v2.0/tenants/{tenantId}/OS- KSCATALOG/endpoints	List Endpoints of a Tenant.

Verb	URI	Description
POST	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints	Add Endpoint to a tenant.
GET	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints/{endpointId}	Get Endpoint of a Tenant.
DELETE	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints/{endpointId}	Delete a Endpoint from a Tenant.

2.1.1. Endpoint Template Operations

Verb	URI	Description
GET	v2.0/OS-KSCATALOG/endpointTemplates?serviceId= <i>string</i>	List Endpoint Templates.
POST	v2.0/OS-KSCATALOG/endpointTemplates	Add Endpoint Template.
GET	v2.0/OS-KSCATALOG/endpointTemplates/{endpointTemplateId}	Get Endpoint Template.
DELETE	v2.0/OS-KSCATALOG/endpointTemplates/{endpointTemplateId}	Delete a Endpoint Template.

2.1.1.1. List Endpoint Templates

Verb	URI	Description
GET	v2.0/OS-KSCATALOG/endpointTemplates?serviceId= <i>string</i>	List Endpoint Templates.

List Endpoint Templates.

Table 2.2. List Endpoint Templates parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	String. Required.
serviceId	query	String. Optional.

Normal Response Code(s)

- endpointTemplates (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 Endpoint Templates Response: XML

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

<endpointTemplates xmlns="http://docs.openstack.org/identity/api/ext/OS-
KSCATALOG/v1.0">
  <endpointTemplate
    id="1"
    region="North"
    global="true"
    type="compute"
    name="Compute"
    publicURL="https://compute.north.public.com/v1"
    internalURL="https://compute.north.internal.com/v1"
    enabled="true">
    <version
      id="1"
      list="https://compute.north.public.com/"
      info="https://compute.north.public.com/v1"/>
    </endpointTemplate>
  <endpointTemplate
    id="2"
    region="south"
    type="compute"
    name="Compute"
    publicURL="https://service2.public.com/v1"
    internalURL="https://service2.internal.public.com/v1"
    enabled="false">
    <version
      id="1"
      list="https://service1.public.com/"
      info="https://service1.public.com/v1"/>
    </endpointTemplate>
  <endpointTemplate
    id="3"
    region="DFW"
    global="true"
    type="ext1:service1"
    name="Compute"
    publicURL="https://service1.public.com/v1"
    enabled="true">
    <version
      id="1"
      list="https://service1.public.com/"
      info="https://service1.public.com/v1"/>
    </endpointTemplate>
  <endpointTemplate
    id="4"
    region="ORD"
    type="compute"
    name="Compute"
    publicURL="https://service2.public.com/v1"
    enabled="true">
    <version
      id="1"
      list="https://service1.public.com/"
      info="https://service1.public.com/v1"/>
    </endpointTemplate>
</endpointTemplates>
```

```
<endpointTemplate
  id="5"
  global="true"
  type="compute"
  name="Compute"
  publicURL="https://service3.public.com/v1">
  <version
    id="1"
    list="https://service1.public.com/"
    info="https://service1.public.com/v1"/>
  </endpointTemplate>
</endpointTemplates>
```

Example 2.2. List Endpoint Templates Response: JSON

```
{
  "OS-KSCATALOG:endpointsTemplates": [
    {
      "id": 1,
      "region": "North",
      "global": true,
      "type": "compute",
      "publicURL": "https://compute.north.public.com/v1",
      "internalURL": "https://compute.north.internal.com/v1",
      "versionId": "1",
      "versionInfo": "https://compute.north.public.com/v1/",
      "versionList": "https://compute.north.public.com/",
      "enabled": true
    },
    {
      "id": 2,
      "region": "South",
      "type": "compute",
      "publicURL": "https://compute.south.public.com/v1",
      "internalURL": "https://compute.south.internal.com/v1",
      "versionId": "1",
      "versionInfo": "https://compute.south.public.com/v1/",
      "versionList": "https://compute.south.public.com/",
      "enabled": false
    },
    {
      "id": 3,
      "region": "North",
      "global": true,
      "type": "object-store",
      "publicURL": "https://object-store.north.public.com/v1.0",
      "versionId": "1.0",
      "versionInfo": "https://object-store.north.public.com/v1.0/",
      "versionList": "https://object-store.north.public.com/",
      "enabled": true
    },
    {
      "id": 4,
      "region": "South",
      "type": "object-store",
      "publicURL": "https://object-store.south.public.com/v2",
      "versionId": "2",
      "versionInfo": "https://object-store.south.public.com/v2/",
      "versionList": "https://object-store.south.public.com/",
      "enabled": true
    }
  ]
}
```

```

    },
    {
      "id": 5,
      "global": true,
      "type": "OS-DNS:DNS",
      "publicURL": "https://dns.public.com/v3.2",
      "versionId": "1.0",
      "versionInfo": "https://dns.public.com/v1.0/",
      "versionList": "https://dns.public.com/",
      "enabled": true
    }
  ],
  "OS-KSCATALOG:endpointsTemplates_links": []
}

```

2.1.1.2. Add Endpoint Template

Verb	URI	Description
POST	v2.0/OS-KSCATALOG/ endpointTemplates	Add Endpoint Template.

Add Endpoint Template.

Table 2.3. Add Endpoint Template parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	String. Required.

Normal Response Code(s)

- endpointTemplate (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. Add Endpoint Template Request: XML

```

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

<endpointTemplate
  xmlns="http://docs.openstack.org/identity/api/ext/OS-KSCATALOG/v1.0"
  id="1"
  region="North"

```

```
global="true"
type="compute"
name="Compute"
publicURL="https://service-public.com/v1"
internalURL="https://service-internal.com/v1"
enabled="true">
<version
  id="1"
  info="https://compute.north.public.com/v1/"
  list="https://compute.north.public.com/"
/>
</endpointTemplate>
```

Example 2.4. Add Endpoint Template Request: JSON

```
{
  "OS-KSCATALOG:endpointTemplate":{
    "id":1,
    "region":"North",
    "global":true,
    "type":"compute",
    "publicURL":"https://compute.north.public.com/v1",
    "internalURL":"https://compute.north.internal.com/v1",
    "versionId":"1",
    "versionInfo":"https://compute.north.public.com/v1/",
    "versionList":"https://compute.north.public.com/",
    "enabled":true
  }
}
```

Example 2.5. Add Endpoint Template Response: XML

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

<endpointTemplate
  xmlns="http://docs.openstack.org/identity/api/ext/OS-KSCATALOG/v1.0"
  id="1"
  region="North"
  global="true"
  type="compute"
  name="Compute"
  publicURL="https://service-public.com/v1"
  internalURL="https://service-internal.com/v1"
  enabled="true">
  <version
    id="1"
    info="https://compute.north.public.com/v1/"
    list="https://compute.north.public.com/"
  />
</endpointTemplate>
```

Example 2.6. Add Endpoint Template Response: JSON

```
{
  "OS-KSCATALOG:endpointTemplate":{
    "id":1,
    "region":"North",
    "global":true,
    "type":"compute",
```

```
{
  "publicURL": "https://compute.north.public.com/v1",
  "internalURL": "https://compute.north.internal.com/v1",
  "versionId": "1",
  "versionInfo": "https://compute.north.public.com/v1/",
  "versionList": "https://compute.north.public.com/",
  "enabled": true
}
```

2.1.1.3. Get Endpoint Template

Verb	URI	Description
GET	v2.0/OS-KSCATALOG/ endpointTemplates/ {endpointTemplateId}	Get Endpoint Template.

Get Endpoint Template.

Table 2.4. Get Endpoint Template parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	String. Required.
X-Auth-Token	header	String. Required.
endpointTemplateId	template	Int. Optional.

Normal Response Code(s)

- endpointTemplate (200 203)

Error Response Code(s)

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

Example 2.7. Get Endpont Template Response: XML

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

<endpointTemplate
  xmlns="http://docs.openstack.org/identity/api/ext/OS-KSCATALOG/v1.0"
  id="1"
  region="North"
  global="true"
  type="compute"
  name="Compute"
```

```
publicURL="https://service-public.com/v1"
internalURL="https://service-internal.com/v1"
enabled="true">
<version
  id="1"
  info="https://compute.north.public.com/v1/"
  list="https://compute.north.public.com/"
/>
</endpointTemplate>
```

Example 2.8. Get Endpoint Template Response: JSON

```
{
  "OS-KSCATALOG:endpointTemplate":{
    "id":1,
    "region":"North",
    "global":true,
    "type":"compute",
    "publicURL":"https://compute.north.public.com/v1",
    "internalURL":"https://compute.north.internal.com/v1",
    "versionId":"1",
    "versionInfo":"https://compute.north.public.com/v1/",
    "versionList":"https://compute.north.public.com/",
    "enabled":true
  }
}
```

2.1.1.4. Delete Endpoint Template.

Verb	URI	Description
DELETE	v2.0/OS-KSCATALOG/ endpointTemplates/ {endpointTemplateId}	Delete a Endpoint Template.

Delete a Endpoint Template.

Table 2.5. Delete Endpoint Template. parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	String. Required.
X-Auth-Token	header	String. Required.
endpointTemplateId	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 2.9. Delete Endpoint Template Request

This operation does not require a request body.

2.1.2. Endpoint Operations

Verb	URI	Description
GET	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints	List Endpoints of a Tenant.
POST	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints	Add Endpoint to a tenant.
GET	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints/{endpointId}	Get Endpoint of a Tenant.
DELETE	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints/{endpointId}	Delete a Endpoint from a Tenant.

2.1.2.1. List Endpoints

Verb	URI	Description
GET	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints	List Endpoints of a Tenant.

List Endpoints of a Tenant.

Table 2.6. List Endpoints parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	String. Required.
tenantId	template	String. Optional.

Normal Response Code(s)

- endpoints (200 203)

Error Response Code(s)

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

- itemNotFound(404)

Example 2.10. List Endpoints Response: XML

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

<endpoints
  xmlns="http://docs.openstack.org/identity/api/v2.0">
  <endpoint
    id="1"
    type="compute"
    name="Compute"
    region="North"
    publicURL="https://compute.north.public.com/v1"
    internalURL="https://compute.north.internal.com/v1"
    adminURL="https://compute.north.internal.com/v1">
    <version
      id="1"
      info="https://compute.north.public.com/v1/"
      list="https://compute.north.public.com/"
    />
  </endpoint>
  <endpoint
    id="2"
    type="compute"
    name="Compute"
    region="South"
    publicURL="https://compute.north.public.com/v1"
    internalURL="https://compute.north.internal.com/v1"
    adminURL="https://compute.north.internal.com/v1">
    <version
      id="1"
      info="https://compute.north.public.com/v1/"
      list="https://compute.north.public.com/"
    />
  </endpoint>
  <endpoint
    id="3"
    type="compute"
    name="Compute"
    region="East"
    publicURL="https://compute.north.public.com/v1"
    internalURL="https://compute.north.internal.com/v1"
    adminURL="https://compute.north.internal.com/v1"
  />
  <endpoint
    id="4"
    type="compute"
    name="Compute"
    region="West"
    publicURL="https://compute.north.public.com/v1"
    internalURL="https://compute.north.internal.com/v1"
    adminURL="https://compute.north.internal.com/v1">
    <version
      id="1"
      info="https://compute.north.public.com/v1/"
      list="https://compute.north.public.com/"
    />
  </endpoint>
</endpoints>
```

```

    id="5"
    type="compute"
    name="Compute"
    region="Global"
    publicURL="https://compute.north.public.com/v1"
    internalURL="https://compute.north.internal.com/v1"
    adminURL="https://compute.north.internal.com/v1">
    <version
      id="1"
      info="https://compute.north.public.com/v1/"
      list="https://compute.north.public.com/"
    />
  </endpoint>
</endpoints>

```

Example 2.11. List Endpoints Response: JSON

```

{
  "endpoints": [ {
    "id": 1,
    "region": "North",
    "type": "compute",
    "publicURL": "https://compute.north.public.com/v1",
    "internalURL": "https://compute.north.internal.com/v1",
    "versionId": "1",
    "versionInfo": "https://compute.north.public.com/v1/",
    "versionList": "https://compute.north.public.com/"
  },
  {
    "id": 2,
    "region": "South",
    "type": "compute",
    "publicURL": "https://compute.north.public.com/v1",
    "internalURL": "https://compute.north.internal.com/v1",
    "versionId": "1",
    "versionInfo": "https://compute.north.public.com/v1/",
    "versionList": "https://compute.north.public.com/"
  },
  {
    "id": 3,
    "region": "East",
    "type": "compute",
    "publicURL": "https://compute.north.public.com/v1",
    "internalURL": "https://compute.north.internal.com/v1",
    "versionId": "1",
    "versionInfo": "https://compute.north.public.com/v1/",
    "versionList": "https://compute.north.public.com/"
  },
  {
    "id": 4,
    "region": "West",
    "type": "compute",
    "publicURL": "https://compute.north.public.com/v1",
    "internalURL": "https://compute.north.internal.com/v1",
    "versionId": "1",
    "versionInfo": "https://compute.north.public.com/v1/",
    "versionList": "https://compute.north.public.com/"
  },
  {
    "id": 5,

```

```

        "region": "Global",
        "type": "compute",
        "publicURL": "https://compute.north.public.com/v1",
        "internalURL": "https://compute.north.internal.com/v1",
        "versionId": "1",
        "versionInfo": "https://compute.north.public.com/v1/",
        "versionList": "https://compute.north.public.com/"
    },
    ],
    "endpoints_links": []
}

```

2.1.2.2. Add Endpoint

Verb	URI	Description
POST	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints	Add Endpoint to a tenant.

Add Endpoint to a tenant.

Table 2.7. Add Endpoint parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	String. Required.
endpoint	plain	EndpointTemplateWithOnlyId. Optional.
tenantId	template	String. Optional.

Normal Response Code(s)

- endpoint (201)

Error Response Code(s)

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

Example 2.12. Add Endpoint Request: XML

```

<?xml version="1.0" encoding="UTF-8"?>
<endpointTemplate
  xmlns="http://docs.openstack.org/identity/api/ext/OS-KSCATALOG/v1.0"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:type="EndpointTemplateWithOnlyId"
  id="1"/>

```

Example 2.13. Add Endpoint Request: JSON

```
{
  "OS-KSCATALOG:endpointTemplate": {
    "id": 1,
  }
}
```

Example 2.14. Add Endpoint Response: XML

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

<endpoint
  id="1"
  type="compute"
  name="Compute"
  region="North"
  publicURL="https://compute.north.public.com/v1"
  internalURL="https://compute.north.internal.com/v1"
  adminURL="https://compute.north.internal.com/v1"
  xmlns="http://docs.openstack.org/identity/api/v2.0">
  <version
    id="1"
    info="https://compute.north.public.com/v1/"
    list="https://compute.north.public.com/"
  />
</endpoint>
```

Example 2.15. Add Endpoint Response: JSON

```
{
  "endpoint": {
    "id": 1,
    "region": "North",
    "type": "compute",
    "publicURL": "https://compute.north.public.com/v1",
    "internalURL": "https://compute.north.internal.com/v1",
    "versionId": "1",
    "versionInfo": "https://compute.north.public.com/v1/",
    "versionList": "https://compute.north.public.com/"
  }
}
```

2.1.2.3. Get Endpoint

Verb	URI	Description
GET	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints/{endpointId}	Get Endpoint of a Tenant.

Get Endpoint of a Tenant.

Table 2.8. Get Endpoint parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	String. Required.
tenantId	template	String. Optional.
endpointId	template	String. Optional.

Normal Response Code(s)

- endpoint (200 203)

Error Response Code(s)

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

Example 2.16. Get Endpoint Response: XML

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

<endpoint
  id="1"
  type="compute"
  name="Compute"
  region="North"
  publicURL="https://compute.north.public.com/v1"
  internalURL="https://compute.north.internal.com/v1"
  adminURL="https://compute.north.internal.com/v1"
  xmlns="http://docs.openstack.org/identity/api/v2.0">
  <version
    id="1"
    info="https://compute.north.public.com/v1/"
    list="https://compute.north.public.com/"
  />
</endpoint>
```

Example 2.17. Get Endpoint Response: JSON

```
{
  "endpoint": {
    "id": 1,
    "region": "North",
    "type": "compute",
    "publicURL": "https://compute.north.public.com/v1",
    "internalURL": "https://compute.north.internal.com/v1",
    "versionId": "1",
    "versionInfo": "https://compute.north.public.com/v1/",
    "versionList": "https://compute.north.public.com/"
  }
}
```

2.1.2.4. Delete Endpoint.

Verb	URI	Description
DELETE	v2.0/tenants/{tenantId}/OS-KSCATALOG/endpoints/{endpointId}	Delete a Endpoint from a Tenant.

Delete a Endpoint from a Tenant.

Table 2.9. Delete Endpoint. parameters

Name	Style	Description
Request parameters		
X-Auth-Token	header	String. Required.
tenantId	template	String. Optional.
endpointId	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 2.18. Delete Endpoint From a Tenant Request

This operation does not require a request body.