

OS-KSCATALOG Extension

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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	Initial release.

2. Extension Operations

Verb	URI	Description	
	Endpoint Temp	late Operations	
GET	v2.0/OS-KSCATALOG/ endpointTemplates?serviceId=string	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 Temp	late Operations
GET	v2.0/OS-KSCATALOG/ endpointTemplates?serviceId=string	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.

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Verb	URI	Description
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=string	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/	List Endpoint Templates.
	endpointTemplates?serviceId=string	

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 Endpoint Templates.

Table 2.2. List Endpoint Templates Request Parameters

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

Example 2.1. List Endpoint Templates Response: XML

```
Extension Document(Admin)
                      list="https://compute.north.public.com/"
                      info="https://compute.north.public.com/v1"/>
                   </endpointTemplate>
                   <endpointTemplate</pre>
                   id="2"
                   region="south"
                    type="compute"
                   name="Compute"
1
                   publicURL="https://service2.public.com/v1"
                    internalURL="https://service2.internal.public.com/v1"
                    enabled="false">
                    <version</pre>
                     id="1"
list="https://service1.public.com/"
                     info="https://service1.public.com/v1"/>
                   </endpointTemplate>
                   <endpointTemplate</pre>
                   id="3"
4
                   region="DFW"
                   global="true"
                   type="ext1:service1"
1
                   name="Compute"
                   publicURL="https://service1.public.com/v1"
                    enabled="true">
                    <version</pre>
                     id="1"
                     list="https://service1.public.com/"
                     info="https://service1.public.com/v1"/>
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                   </endpointTemplate>
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                   <endpointTemplate</pre>
                   id="4"
                   region="ORD"
                   type="compute"
                   name="Compute"
                   publicURL="https://service2.public.com/v1"
1
                   enabled="true">
                    <version</pre>
                     id="1"
                     list="https://service1.public.com/"
                     info="https://service1.public.com/v1"/>
                   </endpointTemplate>
1
                   <endpointTemplate</pre>
                   id="5"
                   global="true"
                    type="compute"
                   name="Compute"
                   publicURL="https://service3.public.com/v1">
<version</pre>
1
                     id="1"
                     list="https://service1.public.com/"
                     info="https://service1.public.com/v1"/>
4
                   </endpointTemplate>
                 </endpointTemplates>
                 Example 2.2. List Endpoint Templates Response: JSON
1
                     "OS-KSCATALOG:endpointsTemplates": [
```

```
"id": 1,
```

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```
"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": []
```

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2.1.1.2. Add Endpoint Template

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

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)

Add Endpoint Template.

Table 2.3. Add Endpoint Template Request Parameters

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

Example 2.3. Add Endpoint Template Request: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<endpointTemplate</pre>
 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</pre>
   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
}
```

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Example 2.5. Add Endpoint Template Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<endpointTemplate</pre>
 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</pre>
    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":"l",
        "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.

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 Endpoint Template.

Table 2.4. Get Endpoint Template Request Parameters

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

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This operation does not require a request body.

Example 2.7. Get Endpoint Template Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<endpointTemplate</pre>
 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</pre>
   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.

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 Endpoint Template.

Table 2.5. Delete Endpoint Template. Request Parameters

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

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

This operation does not require a request body and does not return a response 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
	v2.0/tenants/{tenantId}/OS- KSCATALOG/endpoints	List Endpoints of 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)

List Endpoints of a Tenant.

Table 2.6. List Endpoints Request Parameters

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

This operation does not require a request body.

Example 2.9. List Endpoints Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<endpoints
    xmlns="http://docs.openstack.org/identity/api/v2.0">
    <endpoint
    id="1"
        tenantId="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"</pre>
```

```
info="https://compute.north.public.com/v1/"
        list="https://compute.north.public.com/"
    />
</endpoint>
<endpoint
   id="2"
    tenantId="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</pre>
        id="1"
        info="https://compute.north.public.com/v1/"
        list="https://compute.north.public.com/"
</endpoint>
<endpoint
    id="3"
    tenantId="1"
    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"
    tenantId="1"
/>
<endpoint
   id="4"
    tenantId="1"
    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>
<endpoint
    id="5"
    tenantId="1"
    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</pre>
        id="1"
        info="https://compute.north.public.com/v1/"
        list="https://compute.north.public.com/"
    />
</endpoint>
```

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</endpoints>

Example 2.10. List Endpoints Response: JSON

```
"endpoints":[{
            "id":1,
            "tenantId": "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,
            "tenantId": "1",
            "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,
            "tenantId": "1",
            "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,
            "tenantId": "1",
            "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,
            "tenantId": "1",
            "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
	v2.0/tenants/{tenantId}/OS- KSCATALOG/endpoints	Add Endpoint to 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), itemNotFound (404), badMediaType (415)

Add Endpoint to a tenant.

Table 2.7. Add Endpoint Request Parameters

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

Example 2.11. 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 2.12. Add Endpoint Request: JSON

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

Example 2.13. Add Endpoint Response: XML

Example 2.14. Add Endpoint Response: JSON

```
{
  "endpoint": {
  "id": 1,
  "tenantId":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/v1/",
  "versionList": "https://compute.north.public.com/"
}
```

2.1.2.3. Get Endpoint

Verb	URI	Description
1	v2.0/tenants/{tenantId}/OS- KSCATALOG/endpoints/{endpointId}	Get Endpoint of 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)

Get Endpoint of a Tenant.

Table 2.8. Get Endpoint Request Parameters

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

This operation does not require a request body.

Example 2.15. Get Endpoint Response: XML

```
<?xml version="1.0" encoding="UTF-8"?>
<endpoint
    id="1"
    tenantId="1"
    type="compute"
    name="Compute"
    region="North"</pre>
```

Example 2.16. Get Endpoint Response: JSON

```
{
  "endpoint": {
  "id": 1,
  "tenantId":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/v1/",
  "versionList": "https://compute.north.public.com/"
  }
}
```

2.1.2.4. Delete Endpoint.

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

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 Endpoint from a Tenant.

Table 2.9. Delete Endpoint. Request Parameters

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

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