

## 使用Glance的元数据定义目录公共API

field.title=Using%20Glance%E2%80%99s%20Metadata%20Definitions%20Catalog%20Public%20APIs%20in%20glance&field.comment=%0A%0A%0AThis bug tracker is for errors with the documentation, use the following as a template and remove or add fields as you see fit. Convert [ ] into [x] to check boxes:%0A%0A- [ ] This doc is inaccurate in this way: \_\_\_\_\_%0A- [ ] This is a doc addition request.%0A- [ ] I have a fix to the document that I can paste below including example: input and output. %0A%0AIf you have a troubleshooting or support issue, use the following resources:%0A%0A - Ask OpenStack: <http://ask.openstack.org>%0A - The mailing list: <http://lists.openstack.org>%0A - IRC: 'openstack' channel on Freenode%0A%0A-----%0ARelease:%2016.0.1.dev1%20on%20'Thu%20Mar%201%202007:26:57%202018,%2020commit%20968f4ae'%0ASHA:%2020968f4ae9ce244d9372cb3e8f45acea9d557f317d%0ASour

**注意**

列表名称空间仅显示每个名称空间的摘要，包括计数和资源类型关联。包括所有对象定义，属性定义等在内的详细响应将仅在每个单独的GET命名空间请求中可用。

## 过滤命名空间列表<sup>1</sup>

**GET /v2/metadefs/namespaces**请求采用查询参数来过滤返回的名称空间列表。以下列表详细说明这些查询参数。

- **resource\_types=RESOURCE\_TYPES**

筛选**resource\_types**逗号分隔列表中的名称空间**RESOURCE\_TYPES**。

GET资源还接受其他查询参数：

- **sort\_key=KEY**

Results will be ordered by the specified sort attribute **KEY**. Accepted values include **namespace**, **created\_at** (default) and **updated\_at**.

- **sort\_dir=DIR**

Results will be sorted in the direction **DIR**. Accepted values are **asc** for ascending or **desc** (default) for descending.

- **marker=NAMESPACE**

A namespace identifier marker may be specified. When present only namespaces which occur after the identifier **NAMESPACE** will be listed, i.e. the namespaces which have a *sort\_key* later than that of the marker **NAMESPACE** in the *sort\_dir* direction.

- **limit=LIMIT**

When present the maximum number of results returned will not exceed **LIMIT**.

**Note**

If the specified **LIMIT** exceeds the operator defined limit (*api\_limit\_max*) then the number of results returned may be less than **LIMIT**.

- **visibility=PUBLIC**

An admin user may use the *visibility* parameter to control which results are returned (PRIVATE or PUBLIC).

## Retrieve Namespace<sup>1</sup>

We want to see a more detailed information about a namespace that the authenticated user has access to. The detail includes the properties, objects, and resource type associations.

We issue a **GET** request to **http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}** to retrieve the namespace details. The data is returned as a JSON-encoded mapping in the following format:

```

{
  "namespace": "MyNamespace",
  "display_name": "My User Friendly Namespace",
  "description": "My description",
  "visibility": "public",
  "protected": true,
  "owner": "The Test Owner",
  "schema": "/v2/schemas/metadefs/namespace",
  "resource_type_associations": [
    {
      "name": "OS::Glance::Image",
      "prefix": "hw_",
      "created_at": "2014-08-28T17:13:06Z",
      "updated_at": "2014-08-28T17:13:06Z"
    },
    {
      "name": "OS::Cinder::Volume",
      "prefix": "hw_",
      "properties_target": "image",
      "created_at": "2014-08-28T17:13:06Z",
      "updated_at": "2014-08-28T17:13:06Z"
    },
    {
      "name": "OS::Nova::Flavor",
      "prefix": "filter1:",
      "created_at": "2014-08-28T17:13:06Z",
      "updated_at": "2014-08-28T17:13:06Z"
    }
  ],
  "properties": {
    "nsprop1": {
      "title": "My namespace property1",
      "description": "More info here",
      "type": "boolean",
      "default": true
    },
    "nsprop2": {
      "title": "My namespace property2",
      "description": "More info here",
      "type": "string",
      "default": "value1"
    }
  },
  "objects": [
    {
      "name": "object1",
      "description": "my-description",
      "self": "/v2/metadefs/namespaces/MyNamespace/objects/object1",
      "schema": "/v2/schemas/metadefs/object",
      "created_at": "2014-08-28T17:13:06Z",
      "updated_at": "2014-08-28T17:13:06Z",
      "required": [],
      "properties": {
        "prop1": {
          "title": "My object1 property1",
          "description": "More info here",
          "type": "array",
          "items": {
            "type": "string"
          }
        }
      }
    },
    {
      "name": "object2",
      "description": "my-description",
      "self": "/v2/metadefs/namespaces/MyNamespace/objects/object2",
      "schema": "/v2/schemas/metadefs/object",
      "created_at": "2014-08-28T17:13:06Z",
      "updated_at": "2014-08-28T17:13:06Z",
      "properties": {
        "prop1": {
          "title": "My object2 property1",
          "description": "More info here",
          "type": "integer",
          "default": 20
        }
      }
    }
  ]
}

```

## Retrieve available Resource Types<sup>¶</sup>

We want to see the list of all resource types that are available in Glance

We issue a **GET** request to [http://glance.openstack.example.org/v2/metadefs/resource\\_types](http://glance.openstack.example.org/v2/metadefs/resource_types) to retrieve all resource types.

The data is returned as a JSON-encoded mapping in the following format:

```
{
  "resource_types": [
    {
      "created_at": "2014-08-28T17:13:04Z",
      "name": "OS::Glance::Image",
      "updated_at": "2014-08-28T17:13:04Z"
    },
    {
      "created_at": "2014-08-28T17:13:04Z",
      "name": "OS::Cinder::Volume",
      "updated_at": "2014-08-28T17:13:04Z"
    },
    {
      "created_at": "2014-08-28T17:13:04Z",
      "name": "OS::Nova::Flavor",
      "updated_at": "2014-08-28T17:13:04Z"
    },
    {
      "created_at": "2014-08-28T17:13:04Z",
      "name": "OS::Nova::Aggregate",
      "updated_at": "2014-08-28T17:13:04Z"
    },
    {
      "created_at": "2014-08-28T17:13:04Z",
      "name": "OS::Nova::Server",
      "updated_at": "2014-08-28T17:13:04Z"
    }
  ]
}
```

## Retrieve Resource Types associated with a Namespace<sup>¶</sup>

We want to see the list of resource types that are associated for a specific namespace

We issue a **GET** request to [http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/resource\\_types](http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/resource_types) to retrieve resource types.

The data is returned as a JSON-encoded mapping in the following format:

```
{
  "resource_type_associations" : [
    {
      "name" : "OS::Glance::Image",
      "prefix" : "hw_",
      "created_at": "2014-08-28T17:13:04Z",
      "updated_at": "2014-08-28T17:13:04Z"
    },
    {
      "name" : "OS::Cinder::Volume",
      "prefix" : "hw_",
      "properties_target" : "image",
      "created_at": "2014-08-28T17:13:04Z",
      "updated_at": "2014-08-28T17:13:04Z"
    },
    {
      "name" : "OS::Nova::Flavor",
      "prefix" : "hw:",
      "created_at": "2014-08-28T17:13:04Z",
      "updated_at": "2014-08-28T17:13:04Z"
    }
  ]
}
```

## Add Namespace<sup>¶</sup>

We want to create a new namespace that can contain the properties, objects, etc.

We issue a **POST** request to add an namespace to Glance:

```
POST http://glance.openstack.example.org/v2/metadefs/namespaces/
```

The input data is an JSON-encoded mapping in the following format:

```
{
  "namespace": "MyNamespace",
  "display_name": "My User Friendly Namespace",
  "description": "My description",
  "visibility": "public",
  "protected": true
}
```

#### Note

Optionally properties, objects and resource type associations could be added in the same input. See GET Namespace output above(input will be similar).

## Update Namespace

We want to update an existing namespace

We issue a **PUT** request to update a namespace to Glance:

```
PUT http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}
```

The input data is similar to Add Namespace

## Delete Namespace

We want to delete an existing namespace including all its objects, properties etc.

We issue a **DELETE** request to delete a namespace to Glance:

```
DELETE http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}
```

## Associate Resource Type with Namespace

We want to associate a resource type with an existing namespace

We issue a **POST** request to associate resource type to Glance:

```
POST http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/resource_types
```

The input data is an JSON-encoded mapping in the following format:

```
{
  "name" : "OS::Cinder::Volume",
  "prefix" : "hw_",
  "properties_target" : "image",
  "created_at": "2014-08-28T17:13:04Z",
  "updated_at": "2014-08-28T17:13:04Z"
}
```

## Remove Resource Type associated with a Namespace

We want to de-associate namespace from a resource type

We issue a **DELETE** request to de-associate namespace resource type to Glance:

```
DELETE http://glance.openstack.example.org/v2//metadefs/namespaces/{namespace}/resource_types/{resource_type}
```

## List Objects in Namespace

We want to see the list of meta definition objects in a specific namespace

We issue a **GET** request to <http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/objects> to retrieve objects.

The data is returned as a JSON-encoded mapping in the following format:

```
{
  "objects": [
    {
      "name": "object1",
      "description": "my-description",
      "self": "/v2/metadefs/namespaces/MyNamespace/objects/object1",
      "schema": "/v2/schemas/metadefs/object",
      "created_at": "2014-08-28T17:13:06Z",
      "updated_at": "2014-08-28T17:13:06Z",
      "required": [],
      "properties": {
        "prop1": {
          "title": "My object1 property1",
          "description": "More info here",
          "type": "array",
          "items": {
            "type": "string"
          }
        }
      }
    },
    {
      "name": "object2",
      "description": "my-description",
      "self": "/v2/metadefs/namespaces/MyNamespace/objects/object2",
      "schema": "/v2/schemas/metadefs/object",
      "created_at": "2014-08-28T17:13:06Z",
      "updated_at": "2014-08-28T17:13:06Z",
      "properties": {
        "prop1": {
          "title": "My object2 property1",
          "description": "More info here",
          "type": "integer",
          "default": 20
        }
      }
    }
  ],
  "schema": "/v2/schemas/metadefs/objects"
}
```

## Add object in a specific namespace¶

We want to create a new object which can group the properties

We issue a **POST** request to add object to a namespace in Glance:

```
POST http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/objects
```

The input data is an JSON-encoded mapping in the following format:

```
{
  "name": "StorageQOS",
  "description": "Our available storage QOS.",
  "required": [
    "minIOPS"
  ],
  "properties": {
    "minIOPS": {
      "type": "integer",
      "description": "The minimum IOPs required",
      "default": 100,
      "minimum": 100,
      "maximum": 30000369
    },
    "burstIOPS": {
      "type": "integer",
      "description": "The expected burst IOPs",
      "default": 1000,
      "minimum": 100,
      "maximum": 30000377
    }
  }
}
```

## Update Object in a specific namespace¶

We want to update an existing object

We issue a **PUT** request to update an object to Glance:

```
PUT http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/objects/{object_name}
```

The input data is similar to Add Object

## Delete Object in a specific namespace<sup>¶</sup>

We want to delete an existing object.

We issue a **DELETE** request to delete object in a namespace to Glance:

```
DELETE http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/objects/{object_name}
```

## Add property definition in a specific namespace<sup>¶</sup>

We want to create a new property definition in a namespace

We issue a **POST** request to add property definition to a namespace in Glance:

```
POST http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/properties
```

The input data is an JSON-encoded mapping in the following format:

```
{
  "name": "hypervisor_type",
  "title" : "Hypervisor",
  "type": "array",
  "description": "The type of hypervisor required",
  "items": {
    "type": "string",
    "enum": [
      "hyperv",
      "qemu",
      "kvm"
    ]
  }
}
```

## Update property definition in a specific namespace<sup>¶</sup>

We want to update an existing object

We issue a **PUT** request to update an property definition in a namespace to Glance:

```
PUT http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/properties/{property_name}
```

The input data is similar to Add property definition

## Delete property definition in a specific namespace<sup>¶</sup>

We want to delete an existing object.

We issue a **DELETE** request to delete property definition in a namespace to Glance:

```
DELETE http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}/properties/{property_name}
```

## API Message Localization<sup>¶</sup>

Glance supports HTTP message localization. For example, an HTTP client can receive API messages in Chinese even if the locale language of the server is English.

### How to use it<sup>¶</sup>

To receive localized API messages, the HTTP client needs to specify the **Accept-Language** header to indicate the language to use to translate the message. For more info about Accept-Language, please refer <http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html> (<http://www.w3.org/Protocols/rfc2616/rfc2616-sec14.html>)

A typical curl API request will be like below:

```
curl -i -X GET -H 'Accept-Language: zh' -H 'Content-Type: application/json'
http://glance.openstack.example.org/v2/metadefs/namespaces/{namespace}
```

Then the response will be like the following:

```
HTTP/1.1 404 Not Found
Content-Length: 234
Content-Type: text/html; charset=UTF-8
X-Openstack-Request-Id: req-54d403a0-064e-4544-8faf-4aee086f45a
Date: Sat, 22 Feb 2014 06:26:26 GMT


<html>
<head>
<title>404 Not Found</title>
</head>
<body>
<h1>404 Not Found</h1>
&#25214;&#19981;&#21040;&#20219;&#20309;&#20855;&#26377;&#26631;&#35782; aaa &#30340;&#26144;&#20687;<br /><br />
</body>
</html>
```

Note

确保目标Glance服务器上的/ usr / share / locale-langpack /下有语言包。

⏪ (glancedient.html) ⏩ (signature.html) 🐛 (https://bugs.launchpad.net/glance/+filebug?field.title=Using%20Glance%E2%80%99s%20Metadata%20Definitions%20Catalog%20Public%20APIs%20in%20glance&field.comment=%0A%0A%0AThis bug tracker is for errors with the documentation, use the following as a template and remove or add fields as you see fit. Convert [ ] into [x] to check boxes:%0A%0A- [ ] This doc is inaccurate in this way: \_\_\_\_%0A- [ ] This is a doc addition request.%0A- [ ] I have a fix to the document that I can paste below including example: input and output.%0A%0AIf you have a troubleshooting or support issue, use the following resources:%0A%0A - Ask OpenStack: http://ask.openstack.org%0A - The mailing list: http://lists.openstack.org%0A - IRC: 'openstack' channel on Freenode%0A%0A-----%0ARelease:%2016.0.1.dev1%20on%20'Thu%20Mar%201%2007:26:57%202018,%20commit%20968f4ae'%0ASHA:%20968f4ae9ce244d9372cb3e8f45acea9d557f317d%0ASo https://docs.openstack.org/glance/queens/user/glancemetadefcatalogapi.html&field.tags=)

更新日期：'THU MAR 1 07:26:57 2018', COMMIT 968F4AE'

 (https://creativecommons.org/licenses/by/3.0/) 除另有说明外，本文档受 [Creative Commons Attribution 3.0许可的授权](https://creativecommons.org/licenses/by/3.0/) (https://creativecommons.org/licenses/by/3.0/)。查看所有 [OpenStack法律文件](http://www.openstack.org/legal) (http://www.openstack.org/legal)。

🐛 发现错误？报告错误 (HTTPS://BUGS.LAUNCHPAD.NET/GLANCE/+FILEBUG?FIELD.TITLE=USING%20GLANCE%E2%80%99S%20METADATA%20DEFINITIONS%20CATALOG%20PUBLIC%20APIS%20IN%20GLANCE&FIELD.COMMENT=%0A%0A%0ATHIS BUG TRACKER IS FOR ERRORS WITH THE DOCUMENTATION, USE THE FOLLOWING AS A TEMPLATE AND REMOVE OR ADD FIELDS AS YOU SEE FIT. CONVERT [ ] INTO [X] TO CHECK BOXES:%0A%0A- [ ] THIS DOC IS INACCURATE IN THIS WAY: \_\_\_\_%0A- [ ] THIS IS A DOC ADDITION REQUEST.%0A- [ ] I HAVE A FIX TO THE DOCUMENT THAT I CAN PASTE BELOW INCLUDING EXAMPLE: INPUT AND OUTPUT.%0A%0AIF YOU HAVE A TROUBLESHOOTING OR SUPPORT ISSUE, USE THE FOLLOWING RESOURCES:%0A%0A - ASK OPENSTACK: HTTP://ASK.OPENSTACK.ORG%0A - THE MAILING LIST: HTTP://LISTS.OPENSTACK.ORG%0A - IRC: 'OPENSTACK' CHANNEL ON FREENODE%0A%0A-----%0ARELEASE:%2016.0.1.DEV1%20ON%20'THU%20MAR%201%2007:26:57%202018,%20COMMIT%20968F4AE'%0ASHA:%20968F4AE9CE244D9372CB3E8F45ACEA9D557F317D%0ASOURCE:%20HTTPS://HTTPS://DOCS.OPENSTACK.ORG/GLANCE/QUEENS/USER/GLANCEMETADEFCATALOGAPI.HTML&FIELD.TAGS=)

❓ 问题吗？(HTTP://ASK.OPENSTACK.ORG)



OpenStack文档 ▾

- 一瞥16.0.1.dev1
  - (../index.html)
- 用户指南 (index.html)
  - 图像标识符 (identifiers.html)
  - 图像状态 (statuses.html)
  - 任务状态 (statuses.html#task-statuses)
  - 磁盘和容器格式 (formats.html)
  - 常见图像属性 (common-image-properties.html)
  - 元数据定义概念 (metadefs-concepts.html)
  - 使用Glance的Image Public API (glanceapi.html)
  - 使用Glance的客户端工具 (glanceclient.html)
  - 使用Glance的元数据定义目录公共API
  - 图像签名验证 (signature.html)
- 管理指南 (../admin/index.html)
- 安装 (../install/index.html)
- 一览配置选项 (../configuration/index.html)
- 命令行界面 (../cli/index.html)
- 一览贡献指南 (../contributor/index.html)
- 词汇表 (../glossary.html)



## 页面内容

### 认证

#### 使用v2.X

- 列出可用的命名空间
- 过滤命名空间列表
- 检索命名空间
- 检索可用的资源类型
- 检索与名称空间关联的资源类型
- 添加名称空间
- 更新命名空间
- 删除命名空间
- 将资源类型与名称空间关联
- 删除与名称空间关联的资源类型
- 列出名称空间中的对象
- 在特定的命名空间中添加对象
- 更新特定命名空间中的对象
- 删除特定命名空间中的对象
- 在特定的命名空间中添加属性定义
- 更新特定命名空间中的属性定义
- 删除特定命名空间中的属性定义

#### API消息本地化

##### 如何使用它

## OpenStack的

- 项目 (<http://openstack.org/projects/>)
- OpenStack安全 (<http://openstack.org/projects/openstack-security/>)
- 常见问题 (<http://openstack.org/projects/openstack-faq/>)
- 博客 (<http://openstack.org/blog/>)
- 新闻 (<http://openstack.org/news/>)

## 社区

- 用户组 (<http://openstack.org/community/>)
- 活动 (<http://openstack.org/community/events/>)
- 工作 (<http://openstack.org/community/jobs/>)
- 公司 (<http://openstack.org/foundation/companies/>)
- 有助于 (<http://docs.openstack.org/infra/manual/developers.html>)

## 文档

- OpenStack手册 (<http://docs.openstack.org>)
- 入门 (<http://openstack.org/software/start/>)
- API文档 (<http://developer.openstack.org>)
- 维基 (<https://wiki.openstack.org>)

## 品牌与法律

- 标志和指南 (<http://openstack.org/brand/>)
- 商标政策 (<http://openstack.org/brand/openstack-trademark-policy/>)
- 隐私政策 (<http://openstack.org/privacy/>)
- OpenStack CLA ([https://wiki.openstack.org/wiki/How\\_To\\_Contribute#Contributor\\_License\\_Agreement](https://wiki.openstack.org/wiki/How_To_Contribute#Contributor_License_Agreement))

## 保持联系

(<https://twitter.com/OpenStack>) (<https://www.youtube.com/user/OpenStackFoundation>)

OpenStack项目是在Apache 2.0许可 (<http://www.apache.org/licenses/LICENSE-2.0>)下提供的。Openstack.org由 [Rackspace](http://rackspace.com) 云计算提供支持 (<http://rackspace.com>)。