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OpenStack API Reference

The OpenStack system has several key projects that are separate installations but can work together depending on your cloud needs: OpenStack Compute, OpenStack Object Storage, OpenStack Identity Service, and OpenStack Image Service.

This page covers the basics for working with your OpenStack cloud after authorizing with the Identity Service API. You can use the cloud by launching images and assigning metadata to instances, or creating containers and objects, all through an API. See the [API Quick Start Guide](#) for details about using the APIs referenced here, and you can [read descriptions](#) or [specifications](#) of each API.

Identity

With the Identity API, you obtain a token that lasts 24 hours so you can gain access to the Compute API. The version of the Identity API is 2.0.

POST	v2.0/tokens	Returns a token when credentials are supplied. A payload of credentials must be included in the body.	detail
GET	v2.0/tenants	Returns a list of tenants.	detail

Compute

With the Compute API, you launch virtual machines based on the images uploaded to the system. You can reboot the server when needed, resize it larger or smaller, and connect to the server securely through SSH once it is started. The v1.1 API is identical to the v2 API.

GET	v2	Returns detailed information about this specific version of the API.	detail
GET	v2/{tenant_id}/extensions	Lists all available extensions.	detail
GET	v2/{tenant_id}/extensions/{alias}	Gets details about a specific extension. Extensions enable the introduction of new features in the API without requiring a version change and they allow the introduction of vendor-specific functionality.	detail
GET	v2/{tenant_id}/limits	Returns current limits for the account.	detail
GET	v2/{tenant_id}/servers	Lists IDs, names, and links for all servers.	detail
POST	v2/{tenant_id}/servers	Creates a new server.	detail
GET	v2/{tenant_id}/servers/detail	Lists details for all servers.	detail
GET	v2/{tenant_id}/servers/{server_id}	Lists details for the specified server.	detail
PUT	v2/{tenant_id}/servers/{server_id}	Updates the name and/or administrative password for the specified server.	detail
DELETE	v2/{tenant_id}/servers/{server_id}	Terminates the specified server.	detail

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GET	v2/{tenant_id}/limits	Returns current limits for the account.	detail
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GET	v2/{tenant_id}/servers	Lists IDs, names, and links for all servers.	detail
------------	------------------------	--	------------------------

POST	v2/{tenant_id}/servers	Creates a new server.	detail
-------------	------------------------	-----------------------	------------------------

GET	v2/{tenant_id}/servers/detail	Lists details for all servers.	detail
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GET	v2/{tenant_id}/servers/{server_id}	Lists details for the specified server.	detail
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PUT	v2/{tenant_id}/servers/{server_id}	Updates the name and/or administrative password for the specified server.	detail
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Request parameters

Parameter	Description
tenant_id	The ID for the tenant or account in a multi-tenancy cloud.
alias	An alias is a name for a pointer to a resource, such as a named extension.

Get Extension Response: JSON

```
{
  "flavor": {
    "disk": 0,
    "id": "1"
```