

Go to <https://fcl1801.fnal.gov/dashboard/auth/login> in your web browser and you will see a sign-in page as shown below
(For now, this service allows connection from Fermi network, so you must use VPN. Also make sure to use https at the beginning of the URL.)



openstack®

Log in

Domain

User Name

Password

Type “services” for Domain and use your “Fermi Services domain” username and password for “User Name” and “Password” and click “Sign In” button.

You will then arrive at the first page:

openstack. services • projservices hyunwoo

Project / Compute / Overview

Overview

- Overview
- Instances
- Images
- Key Pairs
- Server Groups
- Network
- Admin
- Identity

Limit Summary

Compute

Instances	Used 3 of 1,000	VCPUs	Used 6 of 200	RAM	Used 6GB of 200GB
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Volume

Floating IPs	Allocated 0 of 50	Security Groups	Used 1 of 10	Security Group Rules	Used 4 of 100
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Network

Networks	Used 0 of 100	Ports	Used 3 of 500	Routers	Used 0 of 10
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Usage Summary

Select a period of time to query its usage:
The date should be in YYYY-MM-DD format.

2020-12-29 to 2020-12-30 [Submit](#)

Active Instances: 3
Active RAM: 6GB
This Period's VCPU-Hours: 281.40
This Period's GB-Hours: 2110.53
This Period's RAM-Hours: 288157.08

Usage

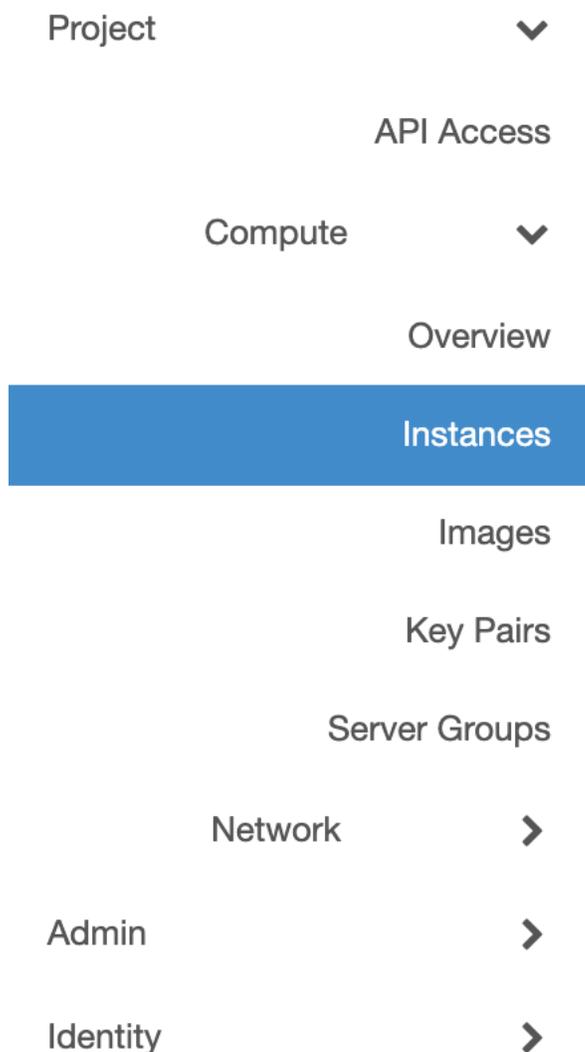
[Download CSV Summary](#)

Displaying 3 items

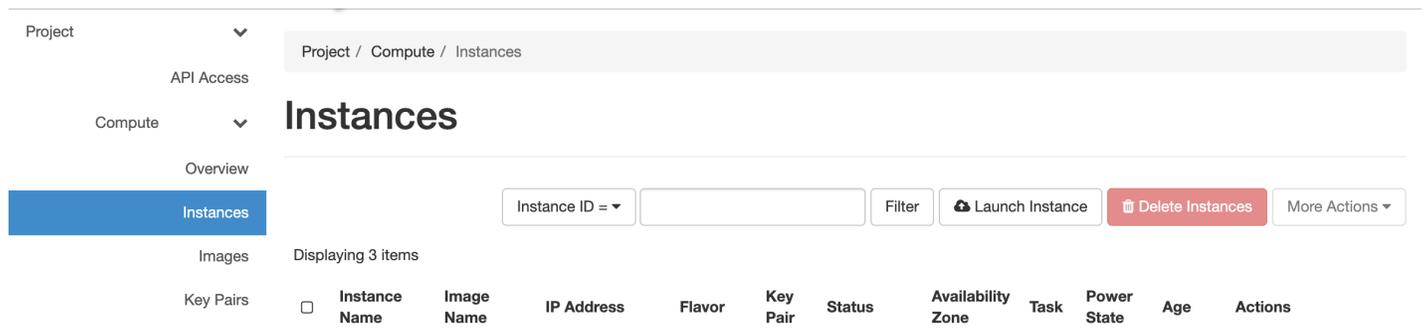
Instance Name	VCPUs	Disk	RAM	Age
stevetest	2	15GB	2GB	1 week, 5 days
hktest2	2	15GB	2GB	1 week, 5 days
dummy1	2	15GB	2GB	1 week, 5 days

Displaying 3 items

To launch a new instance, click on the “Instances” button on the menu pane on the left.



You will now see a page where you can click on “Launch Instance” button.



In the following pop-up window, type in the name of the new instance.
(There is only one Availability Zone for the moment.)
And click on the “Next” button on the bottom right side.

Launch Instance ✕ ?

Please provide the initial hostname for the instance, the availability zone where it will be deployed, and the instance count. Increase the Count to create multiple instances with the same settings.

Details

Source *

Flavor *

Networks

Network Ports

Security Groups

Key Pair

Configuration

Server Groups

Scheduler Hints

Metadata

Instance Name *

Description

Availability Zone

Count *

Total Instances (1000 Max)

0%

■ 3 Current Usage
■ 1 Added
■ 996 Remaining

✕ Cancel < Back Next > Launch Instance

Do not change “Select Boot Source”.

Choose an image (for now, only standard_sl7v6) by clicking on the “up arrow” symbol on the right side of the corresponding image.

Launch Instance

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

Select Boot Source

Image

Allocated

Name	Updated	Size	Type	Visibility
Select an item from Available items below				

Available 1 Select one

Click here for filters or full text search.

Name	Updated	Size	Type	Visibility
standard_sl7	1/28/21 1:18 PM	1.98 GB	qcow2	Public

Cancel < Back **Next >** Launch Instance

When the image is selected, you will see

Launch Instance

Instance source is the template used to create an instance. You can use an image, a snapshot of an instance (image snapshot), a volume or a volume snapshot (if enabled). You can also choose to use persistent storage by creating a new volume.

Select Boot Source

Image

Allocated

Name	Updated	Size	Type	Visibility
standard_sl7	1/28/21 1:18 PM	1.98 GB	qcow2	Public

Available 0 Select one

Click here for filters or full text search.

Name	Updated	Size	Type	Visibility
No available items				

Cancel < Back **Next >** Launch Instance

And then click on the “Next” button.

Now on the “Flavor” page, choose a flavor in the same way as you did the image above:

Launch Instance ✕ ?

Flavors manage the sizing for the compute, memory and storage capacity of the instance.

Allocated

Name	VCPUS	RAM	Total Disk	Public
Select an item from Available items below				

Available 3 Select one

Q Click here for filters or full text search. ✕

Name	VCPUS	RAM	Total Disk	Public	
> 2medium	2	2 GB	15 GB	Yes	↑
> 2small	1	2 GB	15 GB	Yes	↑
> 4medium	2	4 GB	15 GB	Yes	↑

✕ Cancel < Back Next > Launch Instance

After selection, it will look like the following

Launch Instance ✕ ?

Flavors manage the sizing for the compute, memory and storage capacity of the instance.

Allocated

Name	VCPUS	RAM	Total Disk	Public	
> 2small	1	2 GB	15 GB	Yes	↓

Available 2 Select one

Q Click here for filters or full text search. ✕

Name	VCPUS	RAM	Total Disk	Public	
> 2medium	2	2 GB	15 GB	Yes	↑
> 4medium	2	4 GB	15 GB	Yes	↑

✕ Cancel < Back Next > Launch Instance

Note that after “Flavor” selection, the “Launch Instance” button is now activated.

We recommend that you launch your instance (virtual machine) by clicking the Launch Instance button at this point.

There are more selection options after this “Flavor” selection page, but most of those just show the default values and the rest of them are not implemented in our use of OpenStack in FermiCloud.

If you make your own selections in the following selection pages, your instance will fail to properly launch.