

Using Migration

Before starting migrations, review the [Configuring Migrations](#) section.

Migration provides a scheme to migrate running instances from one OpenStack Compute server to another OpenStack Compute server. This feature can be used as described below.

- First, look at the running instances, to get the ID of the instance you wish to migrate.

```
# nova list
+-----+-----+-----+-----+
| ID | Name | Status | Networks |
+-----+-----+-----+-----+
| d1df1b5a-70c4-4fed-98b7-423362f2c47c | vm1 | ACTIVE | private=a.b.c.d |
| d693db9e-a7cf-45ef-a7c9-b3ecb5f22645 | vm2 | ACTIVE | private=e.f.g.h |
+-----+-----+-----+-----+
```

Second, look at information associated with that instance - our example is vm1 from above.

```
# nova show d1df1b5a-70c4-4fed-98b7-423362f2c47c
+-----+-----+
| Property | Value |
+-----+-----+
...
| OS-EXT-SRV-ATTR:host | HostB |
...
| flavor | m1.tiny |
| id | d1df1b5a-70c4-4fed-98b7-423362f2c47c |
| name | vm1 |
| private network | a.b.c.d |
| status | ACTIVE |
...
+-----+-----+
```

In this example, vm1 is running on HostB.

- Third, select the server to migrate instances to.

```
# nova-manage service list
HostA nova-scheduler enabled :-) None
HostA nova-network enabled :-) None
HostB nova-compute enabled :-) None
HostC nova-compute enabled :-) None
```

In this example, HostC can be picked up because nova-compute is running on it.

- Third, ensure that HostC has enough resource for migration.

```
# nova-manage service describe_resource HostC
HOST PROJECT cpu mem(mb) hdd
HostC(total) 16 32232 878
HostC(used_now) 13 21284 442
HostC(used_max) 13 21284 442
HostC p1 5 10240 150
HostC p2 5 10240 150
.....
```

- **cpu**:the number of cpu
- **mem(mb)**:total amount of memory (MB)
- **hdd**:total amount of space for NOVA-INST-DIR/instances(GB)
- **1st line shows** total amount of resource physical server has.

- **2nd line shows** current used resource.
- **3rd line shows** maximum used resource.
- **4th line and under** is used resource per project.
- Finally, use the **nova live-migration** command to migrate the instances.

```
# nova live-migration d1df1b5a-70c4-4fed-98b7-423362f2c47c HostC
Migration of d1df1b5a-70c4-4fed-98b7-423362f2c47c initiated.
```

Make sure instances are migrated successfully with **nova list**. If instances are still running on HostB, check logfiles (src/dest nova-compute and nova-scheduler) to determine why.



Note

While the nova command is called **live-migration**, under the default Compute configuration options the instances are suspended before migration. See the [Configuring Migrations](#) section for more details.

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Kashyap Raiyani · 5 months ago

Hi,

Is there any bug with Grizzly because i am not able to perform live migration. Please provide with some help.

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nikhil chaudhari — Thanks! i hav configured hyper-v in cloud controller....n launched instances but instances are not able take ip from pool which i mentioned in

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kiran — I would also recommend below option to be added to /etc/nova/nova.conf file, if you are using qemu hypervisor. [libvirt]virt_type =

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Chris Snell — Here's a handy way retrieve your instance name from within a bourne shell script on a server with nothing but basic curl(1) and Python,

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Naveed Ahmad — hi,did you find some solution of block migration ?

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