Cloud Application Development

LAB: Openstack Logging

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Logging Commands

```
[root@localhost ~(keystone_admin)]# cd /var/log/nova
[root@localhost nova(keystone_admin)]# openstack server list
+----------------------------------------+--------+--------+----------------------------+--------+
|                                        |        |        |                            |        |
+--------+                               |        |        |                            |        |
| ID                                     | Name   | Status | Networks                   | Image  |
| Flavor |                               |        |        |                            |        |
+--------+                               |        |        |                            |        |
|                                        |        |        |                            |        |
| a2bc5f05-b9a7-453d-88fa-0544b940e445   | cirros | ACTIVE | anantnet=10.0.0.247, 14.0.0.76 | cirros |
| m1.tiny |                              |        |        |                            |        |
+--------+                               |        |        |                            |        |
|                                        |        |        |                            |        |
+--------+
[root@localhost nova(keystone_admin)]#
```

```
[root@localhost nova(keystone_admin)]# tail -f /var/log/nova/* | grep -i error
2023-04-23 01:26:18.557 8174 ERROR oslo.messaging._drivers.impl_rabbit [-] [efe9d661-05cd-4ffe-b8c1-
c8ae18200f36] AMQP server on 10.10.20.98:5672 is unreachable: Server unexpectedly closed connection.
 Trying again in 1 seconds.: IOError: Server unexpectedly closed connection
2023-04-23 00:09:10.707 18075 ERROR nova.compute.manager [instance: bc4a5120-00d8-4b59-8811-ad90be5f
6c1b]
2023-04-23 00:09:27.642 12452 INFO oslo.messaging._drivers.impl_rabbit [-] A recoverable connection/
channel error occurred, trying to reconnect: [Errno 104] Connection reset by peer
2023-04-23 00:09:27.886 12452 ERROR oslo.messaging._drivers.impl_rabbit [-] [512f35c7-b0e0-4d97-901b
-e5309c629aa2] AMQP server on 10.10.20.98:5672 is unreachable: [Errno 104] Connection reset by peer.
 Trying again in 1 seconds.: error: [Errno 104] Connection reset by peer
2023-04-23 00:09:27.889 12452 ERROR oslo.messaging._drivers.impl_rabbit [-] [1fccbdd4-efc2-4661-be29
-7dd9b10739e0] AMQP server on 10.10.20.98:5672 is unreachable: [Errno 104] Connection reset by peer.
 Trying again in 1 seconds.: error: [Errno 104] Connection reset by peer
2023-04-23 00:54:42.975 12452 ERROR oslo.messaging._drivers.impl_rabbit [-] [1fccbdd4-efc2-4661-be29
-7dd9b10739e0] AMQP server on 10.10.20.98:5672 is unreachable: Server unexpectedly closed connection
. Trying again in 1 seconds.: IOError: Server unexpectedly closed connection
```

```
[root@localhost nova(keystone_admin)]# openstack flavor list
+----+-----------+-------+------+-----------+-------+-----------+
| ID | Name      | RAM   | Disk | Ephemeral | VCPUs | Is Public |
+----+-----------+-------+------+-----------+-------+-----------+
| 1  | m1.tiny   | 512   | 1    | 0         | 1     | True      |
| 2  | m1.small  | 2048  | 20   | 0         | 1     | True      |
| 3  | m1.medium | 4096  | 40   | 0         | 2     | True      |
| 4  | m1.large  | 8192  | 80   | 0         | 4     | True      |
| 5  | m1.xlarge | 16384 | 160  | 0         | 8     | True      |
+----+-----------+-------+------+-----------+-------+-----------+
[root@localhost nova(keystone_admin)]# _
```

Fig 4(output image)

```
[root@localhost nova(keystone_admin)]# openstack server create --image cirros --flavor 1 --nic net-
d=31ae4834-c620-4f9b-a7af-3733a5afbb0d inst1
+-------------------------------+-------------------------------------------------+
| Field                         | Value                                           |
+-------------------------------+-------------------------------------------------+
| OS-DCF:diskConfig             | MANUAL                                          |
| OS-EXT-AZ:availability_zone   |                                                 |
| OS-EXT-SRV-ATTR:host          | None                                            |
| OS-EXT-SRV-ATTR:hypervisor_hostname | None                                      |
| OS-EXT-SRV-ATTR:instance_name |                                                 |
| OS-EXT-STS:power_state        | NOSTATE                                         |
| OS-EXT-STS:task_state         | scheduling                                      |
| OS-EXT-STS:vm_state           | building                                        |
| OS-SRV-USG:launched_at        | None                                            |
| OS-SRV-USG:terminated_at      | None                                            |
| accessIPv4                    |                                                 |
| accessIPv6                    |                                                 |
| addresses                     |                                                 |
| adminPass                     | 76emcAC4UXAi                                    |
| config_drive                  |                                                 |
| created                       | 2023-04-22T20:05:40Z                            |
| flavor                        | m1.tiny (1)                                     |
| hostId                        |                                                 |
| id                            | 7121058f-e2cb-4390-a3cc-46f00c158238            |
| image                         | cirros (415e11f1-3819-4986-a42e-d2d402c60c7f)   |
| key_name                      | None                                            |
| name                          | inst1                                           |
| progress                      | 0                                               |
| project_id                    | cd18aa9de06a4e0e88635a0f6fe9d987                |
| properties                    |                                                 |
| security_groups               | name='default'                                  |
| status                        | BUILD                                           |
| updated                       | 2023-04-22T20:05:41Z                            |
| user_id                       | 9ca7b68be5f84c89ba0d7f01b55bee03                |
| volumes_attached              |                                                 |
+-------------------------------+-------------------------------------------------+
[root@localhost nova(keystone_admin)]#
```

```
[root@localhost nova(keystone_admin)]# cat nova-compute.log | grep -i 7121058f-e2cb-4390-a3cc-46f00c
158238
2023-04-23 01:36:12.953 18075 INFO nova.compute.claims [req-01755fd1-054e-4135-b8a7-ddafc4902e83 9ca
7b68be5f84c89ba0d7f01b55bee03 cd18aa9de06a4e0e88635a0f6fe9d987 - default default] [instance: 7121058
f-e2cb-4390-a3cc-46f00c158238] Claim successful on node localhost.localdomain
2023-04-23 01:36:21.313 18075 INFO nova.virt.libvirt.driver [req-01755fd1-054e-4135-b8a7-ddafc4902e8
3 9ca7b68be5f84c89ba0d7f01b55bee03 cd18aa9de06a4e0e88635a0f6fe9d987 - default default] [instance: 71
21058f-e2cb-4390-a3cc-46f00c158238] Creating image
2023-04-23 01:37:26.886 18075 INFO nova.compute.manager [req-1f112256-8ebf-4ca8-9269-46b80a4b010a -
- - - -] [instance: 7121058f-e2cb-4390-a3cc-46f00c158238] VM Started (Lifecycle Event)
2023-04-23 01:37:27.757 18075 INFO nova.virt.libvirt.driver [-] [instance: 7121058f-e2cb-4390-a3cc-4
6f00c158238] Instance spawned successfully.
2023-04-23 01:37:27.841 18075 INFO nova.compute.manager [req-01755fd1-054e-4135-b8a7-ddafc4902e83 9c
a7b68be5f84c89ba0d7f01b55bee03 cd18aa9de06a4e0e88635a0f6fe9d987 - default default] [instance: 712105
8f-e2cb-4390-a3cc-46f00c158238] Took 66.85 seconds to spawn the instance on the hypervisor.
2023-04-23 01:37:28.020 18075 INFO nova.compute.manager [req-1f112256-8ebf-4ca8-9269-46b80a4b010a -
- - - -] [instance: 7121058f-e2cb-4390-a3cc-46f00c158238] During sync_power_state the instance has a
pending task (spawning). Skip.
2023-04-23 01:37:28.020 18075 INFO nova.compute.manager [req-1f112256-8ebf-4ca8-9269-46b80a4b010a -
- - - -] [instance: 7121058f-e2cb-4390-a3cc-46f00c158238] VM Paused (Lifecycle Event)
2023-04-23 01:37:28.173 18075 INFO nova.compute.manager [req-1f112256-8ebf-4ca8-9269-46b80a4b010a -
- - - -] [instance: 7121058f-e2cb-4390-a3cc-46f00c158238] VM Resumed (Lifecycle Event)
2023-04-23 01:37:33.176 18075 INFO nova.compute.manager [req-1f112256-8ebf-4ca8-9269-46b80a4b010a -
- - - -] [instance: 7121058f-e2cb-4390-a3cc-46f00c158238] During sync_power_state the instance has a
pending task (spawning). Skip.
2023-04-23 01:37:37.629 18075 INFO nova.compute.manager [req-01755fd1-054e-4135-b8a7-ddafc4902e83 9c
a7b68be5f84c89ba0d7f01b55bee03 cd18aa9de06a4e0e88635a0f6fe9d987 - default default] [instance: 712105
8f-e2cb-4390-a3cc-46f00c158238] Took 86.26 seconds to build instance.
2023-04-23 01:37:37.765 18075 INFO nova.compute.manager [-] [instance: 7121058f-e2cb-4390-a3cc-46f00
c158238] During sync_power_state the instance has a pending task (spawning). Skip.
```

```
[root@localhost nova(keystone_admin)]# cat nova-conductor.log | grep -i 7121058f-e2cb-4390-a3cc-46f0
0c150238
[root@localhost nova(keystone_admin)]# _
```

```
tedly closed connection. Trying again in 1 seconds.: IOError: Server unexpectedly closed connection
2023-04-23 00:09:25.805 12451 INFO oslo.messaging._drivers.impl_rabbit [req-44f5338f-552a-4daa-8864-
3b4402eb78e5 9ca7b68be5f84c89ba0d7f01b55bee03 cd18aa9de06a4e0e88635a0f6fe9d987 - default default] [b
fa6673c-2935-4c77-a750-a89d8a9ae9c4] Reconnected to AMQP server on 10.10.20.98:5672 via [amqp] clien
t with port 60662.
2023-04-23 00:09:27.642 12452 INFO oslo.messaging._drivers.impl_rabbit [-] A recoverable connection/
channel error occurred, trying to reconnect: [Errno 104] Connection reset by peer
2023-04-23 00:09:27.886 12452 ERROR oslo.messaging._drivers.impl_rabbit [-] [512f35c7-b0e0-4d97-901b
-e5309c629aa2] AMQP server on 10.10.20.98:5672 is unreachable: [Errno 104] Connection reset by peer.
 Trying again in 1 seconds.: error: [Errno 104] Connection reset by peer
2023-04-23 00:09:27.889 12452 ERROR oslo.messaging._drivers.impl_rabbit [-] [1fccbdd4-efc2-4661-be29
-7dd9b10739e0] AMQP server on 10.10.20.98:5672 is unreachable: [Errno 104] Connection reset by peer.
 Trying again in 1 seconds.: error: [Errno 104] Connection reset by peer
2023-04-23 00:09:32.218 12452 INFO oslo.messaging._drivers.impl_rabbit [-] [1fccbdd4-efc2-4661-be29-
7dd9b10739e0] Reconnected to AMQP server on 10.10.20.98:5672 via [amqp] client with port 60674.
2023-04-23 00:09:32.240 12452 INFO oslo.messaging._drivers.impl_rabbit [-] [512f35c7-b0e0-4d97-901b-
e5309c629aa2] Reconnected to AMQP server on 10.10.20.98:5672 via [amqp] client with port 60672.
2023-04-23 00:46:01.906 12452 WARNING oslo.service.loopingcall [-] Function 'nova.servicegroup.drive
rs.db.DbDriver._report_state' run outlasted interval by 0.10 sec
2023-04-23 00:46:01.957 12451 WARNING oslo.service.loopingcall [-] Function 'nova.servicegroup.drive
rs.db.DbDriver._report_state' run outlasted interval by 0.06 sec
2023-04-23 00:54:42.975 12452 ERROR oslo.messaging._drivers.impl_rabbit [-] [1fccbdd4-efc2-4661-be29
-7dd9b10739e0] AMQP server on 10.10.20.98:5672 is unreachable: Server unexpectedly closed connection
. Trying again in 1 seconds.: IOError: Server unexpectedly closed connection
2023-04-23 00:54:44.711 12452 INFO oslo.messaging._drivers.impl_rabbit [-] [1fccbdd4-efc2-4661-be29-
7dd9b10739e0] Reconnected to AMQP server on 10.10.20.98:5672 via [amqp] client with port 57806.
2023-04-23 00:56:50.887 12452 WARNING oslo.service.loopingcall [-] Function 'nova.servicegroup.drive
rs.db.DbDriver._report_state' run outlasted interval by 19.67 sec
2023-04-23 01:36:07.695 12451 ERROR oslo.messaging._drivers.impl_rabbit [req-01755fd1-054e-4135-b8a7
-ddafc4902e83 9ca7b68be5f84c89ba0d7f01b55bee03 cd18aa9de06a4e0e88635a0f6fe9d987 - default default] [
4235b421-a7f1-42fa-b38f-507c5ecf39d3] AMQP server on 10.10.20.98:5672 is unreachable: Server unexpec
tedly closed connection. Trying again in 1 seconds.: IOError: Server unexpectedly closed connection
2023-04-23 01:36:08.947 12451 INFO oslo.messaging._drivers.impl_rabbit [req-01755fd1-054e-4135-b8a7-
ddafc4902e83 9ca7b68be5f84c89ba0d7f01b55bee03 cd18aa9de06a4e0e88635a0f6fe9d987 - default default] [4
235b421-a7f1-42fa-b38f-507c5ecf39d3] Reconnected to AMQP server on 10.10.20.98:5672 via [amqp] clien
t with port 53140.
[root@localhost nova(keystone_admin)]# _
```

```
[root@localhost nova(keystone_admin)]# cat nova-scheduler.log | grep -i 7121058f-e2cb-4390-a3cc-46f0
0c150238
[root@localhost nova(keystone_admin)]#
```