BÁO CÁO THỰC HÀNH

Môn học: Kiến trúc và Bảo mật Điện toán Đám mây

Lab 4: Magnum & Manila

GVHD: Đỗ Thị Phương Uyên

1. THÔNG TIN CHUNG:

(Liệt kê tất cả các thành viên trong nhóm)
Lớp: NT524.Q11.ANTT.1

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2. NỘI DUNG THỰC HIỆN:[1]

STT	Công việc	Kết quả tự đánh giá
1	Magnum	
2	Manila	

Phần bên dưới của báo cáo này là tài liệu báo cáo chi tiết của nhóm thực hiện.

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[1] Ghi nội dung công việc, các kịch bản trong bài Thực hành

BÁO CÁO CHI TIẾT

1. Manila.

Virtual Machine Images.

Create a shared network

tạo share file.

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ manila type-create share-file True
+---------------------+------------------------------------------+
| Property            | Value                                    |
+---------------------+------------------------------------------+
| ID                  | ffca131e-c397-4bd6-a104-e0fee527385b     |
| Name                | share-file                               |
| Visibility          | public                                   |
| is_default          | -                                        |
| required_extra_specs| driver_handles_share_servers : True      |
| optional_extra_specs|                                          |
| Description         | None                                     |
+---------------------+------------------------------------------+
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
```

Create a NFS share using the share network.

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ manila create NFS 10 --name lab4-share --share-network my-share-net --share-type share-file
+--------------------------------------+--------------------------------------+
| Property                             | Value                                |
+--------------------------------------+--------------------------------------+
| id                                   | e4de1ba3-37d3-49dd-bbb9-1b4bcd1a943a |
| size                                 | 10                                   |
| availability_zone                    | None                                 |
| created_at                           | 2025-12-13T12:32:56.422418           |
| status                               | creating                             |
| name                                 | lab4-share                           |
| description                          | None                                 |
| project_id                           | a4300ca9574e47aabc3df23eb75b402b     |
| snapshot_id                          | None                                 |
| share_network_id                     | 8496b242-9051-44c0-8001-93d834af5f3d |
| share_proto                          | NFS                                  |
| metadata                             | {}                                   |
| share_type                           | ffca131e-c397-4bd6-a104-e0fee527385b |
| is_public                            | False                                |
| snapshot_support                     | False                                |
| task_state                           | None                                 |
| share_type_name                      | share-file                           |
| access_rules_status                  | active                               |
| replication_type                     | None                                 |
| has_replicas                         | False                                |
| user_id                              | 82569333f72c49ddbd1ec9edddc01795     |
| create_share_from_snapshot_support   | False                                |
| revert_to_snapshot_support           | False                                |
| share_group_id                       | None                                 |
| source_share_group_snapshot_member_id| None                                 |
| mount_snapshot_support               | False                                |
| progress                             | None                                 |
| is_soft_deleted                      | False                                |
| scheduled_to_be_deleted_at           | None                                 |
| share_server_id                      | None                                 |
| host                                 |                                      |
+--------------------------------------+--------------------------------------+
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
```

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
sudo losetup -a

/dev/loop1: [66312]:2105842 (/var/lib/snapd/snaps/bare_5.snap)
/dev/loop17: [66312]:2097247 (/var/lib/manila-disk.img)
/dev/loop8: [66312]:2105847 (/var/lib/snapd/snaps/snap-store_1113.snap)
/dev/loop15: [66312]:2097658 (/var/lib/snapd/snaps/kubectl_3715.snap)
/dev/loop6: [66312]:2097207 (/var/lib/snapd/snaps/gnome-42-2204_226.snap)
/dev/loop13: [66312]:2097732 (/var/lib/snapd/snaps/snapd-desktop-integration_315.snap)
/dev/loop4: [66312]:2097324 (/var/lib/snapd/snaps/firefox_7423.snap)
/dev/loop11: [66312]:2099906 (/var/lib/snapd/snaps/snapd_25577.snap)
/dev/loop2: [66312]:2097572 (/var/lib/snapd/snaps/core22_2163.snap)
/dev/loop0: [66312]:2097179 (/var/lib/snapd/snaps/core22_2139.snap)
/dev/loop9: [66312]:2097190 (/var/lib/snapd/snaps/snap-store_1216.snap)
/dev/loop16: [66312]:2097826 (/var/lib/snapd/snaps/firefox_7477.snap)
/dev/loop7: [66312]:2105846 (/var/lib/snapd/snaps/gtk-common-themes_1535.snap)
/dev/loop14: [66312]:2097380 (/var/lib/snapd/snaps/core20_2682.snap)
/dev/loop5: [66312]:2105845 (/var/lib/snapd/snaps/gnome-42-2204_176.snap)
/dev/loop12: [66312]:2105848 (/var/lib/snapd/snaps/snapd-desktop-integration_178.snap)
/dev/loop3: [66312]:2097247 (/var/lib/manila-disk.img)
/dev/loop10: [66312]:2105849 (/var/lib/snapd/snaps/snapd_21759.snap)
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
sudo pvcreate /dev/loop17

  Physical volume "/dev/loop17" successfully created.
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
```

.

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ manila type-create lvm-share-type False
+----------------------+----------------------------------------------+
| Property             | Value                                        |
+----------------------+----------------------------------------------+
| ID                   | 06ac6582-7170-4ad6-bc73-b2b6cfbf7133         |
| Name                 | lvm-share-type                               |
| Visibility           | public                                       |
| is_default           | -                                            |
| required_extra_specs | driver_handles_share_servers : False         |
| optional_extra_specs |                                              |
| Description          | None                                         |
+----------------------+----------------------------------------------+
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
```

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
manila list
+--------------------------------------+--------------+------+-------------+--------+-----------+-----------------+----------------------+-------------------+
| ID                                   | Name         | Size | Share Proto | Status | Is Public | Share Type Name | Host                 | Availability Zone |
+--------------------------------------+--------------+------+-------------+--------+-----------+-----------------+----------------------+-------------------+
| 28375f45-1cc0-45dd-9946-b3d3cbcbf2cd | my-lvm-share | 2    | NFS         | error  | False     | lvm-share-type  |                      | None              |
| e4de1ba3-37d3-49dd-bbb9-1b4bcd1a943a | lab4-share   | 10   | NFS         | error  | False     | share-file      | aio@generic#GENERIC  | nova              |
| 3a45a0fa-07bd-425a-a312-0e638b76327b | my-nfs-share | 10   | NFS         | error  | False     | share_type      | aio@generic#GENERIC  | nova              |
+--------------------------------------+--------------+------+-------------+--------+-----------+-----------------+----------------------+-------------------+
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
```

Tới đoạn này thì dính bug cứ mỗi lần tạo manila thì nó cứ bị error.

2. Magnum

openstack flavor list.

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ openstack flavor list
+--------------------------------------+----------------------+------+------+-----------+-------+-----------+
| ID                                   | Name                 | RAM  | Disk | Ephemeral | VCPUs | Is Public |
+--------------------------------------+----------------------+------+------+-----------+-------+-----------+
| 100                                  | manila-service-flavor| 1024 | 5    | 0         | 1     | True      |
| de03b48e-12a7-4301-8537-c78c9802f354 | m1.small             | 2048 | 10   | 0         | 1     | True      |
+--------------------------------------+----------------------+------+------+-----------+-------+-----------+
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
```

.

Upload image to Glance

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ openstack coe cluster template create my-swarm-template \
  --image ced969a2-6d5f-45c7-91e2-cdd698048f2b \
  --keypair mykey \
  --external-network public1 \
  --dns-nameserver 8.8.8.8 \
  --flavor m1.small \
  --docker-volume-size 10 \
  --network-driver flannel \
  --coe swarm
Request to create cluster template my-swarm-template accepted
+-----------------------+----------------------------------------------+
| Field                 | Value                                        |
+-----------------------+----------------------------------------------+
| insecure_registry     | -                                            |
| labels                | {}                                           |
| updated_at            | -                                            |
| floating_ip_enabled   | True                                         |
| fixed_subnet          | -                                            |
| master_flavor_id      | -                                            |
| uuid                  | 0720fac9-8456-416f-b86b-ec63572cff2f         |
| no_proxy              | -                                            |
| https_proxy           | -                                            |
| tls_disabled          | False                                        |
| keypair_id            | mykey                                        |
| public                | False                                        |
| http_proxy            | -                                            |
| docker_volume_size    | 10                                           |
| server_type           | vm                                           |
| external_network_id   | public1                                      |
| cluster_distro        | fedora-atomic                                |
| image_id              | ced969a2-6d5f-45c7-91e2-cdd698048f2b         |
| volume_driver         | -                                            |
| registry_enabled      | False                                        |
| docker_storage_driver | overlay2                                     |
| apiserver_port        | -                                            |
| name                  | my-swarm-template                            |
| created_at            | 2025-12-13T13:29:07+00:00                    |
| network_driver        | flannel                                      |
| fixed_network         | -                                            |
| coe                   | swarm                                        |
| flavor_id             | m1.small                                     |
| master_lb_enabled     | False                                        |
| dns_nameserver        | 8.8.8.8                                      |
| project_id            | a4300ca9574e47aabc3df23eb75b402b             |
| hidden                | False                                        |
| tags                  | -                                            |
+-----------------------+----------------------------------------------+
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
```

Create cluster

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ openstack coe cluster create my-swarm-cluster \
  --cluster-template my-swarm-template \
  --node-count 1
Request to create cluster c07ba647-64b7-4fc7-af46-80cb8ad6790b accepted
```

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Connect to Kubernetes Cluster

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ openstack coe cluster config my-swarm-cluster --dir ~/.kube
WARNING: The cluster's api_address is not known yet.
export DOCKER_HOST=None
export DOCKER_CERT_PATH=/home/deployer/.kube
export DOCKER_TLS_VERIFY=True

(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ export KUBECONFIG=~/.kube/my-swarm-cluster.yaml
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ kubectl get nodes # verify nodes are ready
E1213 20:45:46.561151 1162399 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \"http://localhost:8080/api?timeout=32s\": dial tcp 127.0.0.1:
8080: connect: connection refused"
E1213 20:45:46.561481 1162399 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \"http://localhost:8080/api?timeout=32s\": dial tcp 127.0.0.1:
8080: connect: connection refused"
E1213 20:45:46.562610 1162399 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \"http://localhost:8080/api?timeout=32s\": dial tcp 127.0.0.1:
8080: connect: connection refused"
E1213 20:45:46.562830 1162399 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \"http://localhost:8080/api?timeout=32s\": dial tcp 127.0.0.1:
8080: connect: connection refused"
E1213 20:45:46.564143 1162399 memcache.go:265] "Unhandled Error" err="couldn't get current server API group list: Get \"http://localhost:8080/api?timeout=32s\": dial tcp 127.0.0.1:
8080: connect: connection refused"
The connection to the server localhost:8080 was refused - did you specify the right host or port?
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
```

```
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$ openstack coe cluster list
+--------------------------------------+-----------------+-----------+------------+--------------+---------------+---------------+
| uuid                                 | name            | keypair   | node_count | master_count | status        | health_status |
+--------------------------------------+-----------------+-----------+------------+--------------+---------------+---------------+
| d34ecae8-9ccc-4cfd-9e55-782fdcc4eddc | Lab04-Cluster   | magnum-key |         1 |            1 | CREATE_FAILED | None          |
| c07ba647-64b7-4fc7-af46-80cb8ad6790b | my-swarm-cluster | mykey     |         1 |            1 | CREATE_FAILED | None          |
+--------------------------------------+-----------------+-----------+------------+--------------+---------------+---------------+
(kolla-venv) deployer@aio:/etc/kolla/ansible/inventory$
```

Sinh viên đọc kỹ yêu cầu trình bày bên dưới trang này

HẾT