

VMware ICM v8 Case Study Documentation

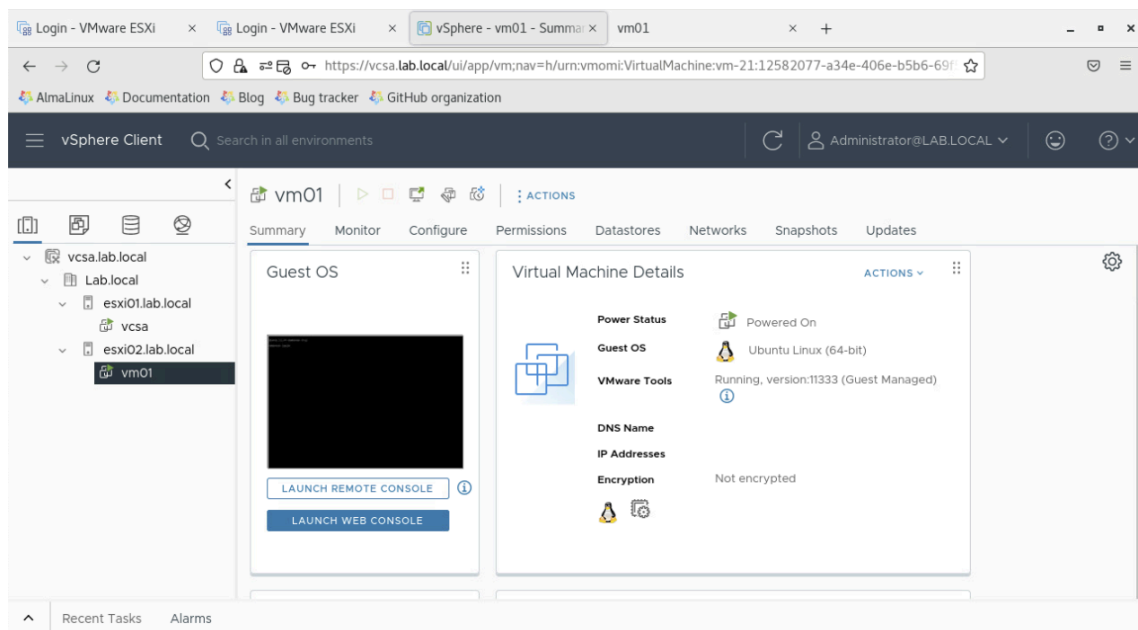
By: Kamonnun Silarat

I have recorded my works in screenshot format for both main objectives and addition objectives below:

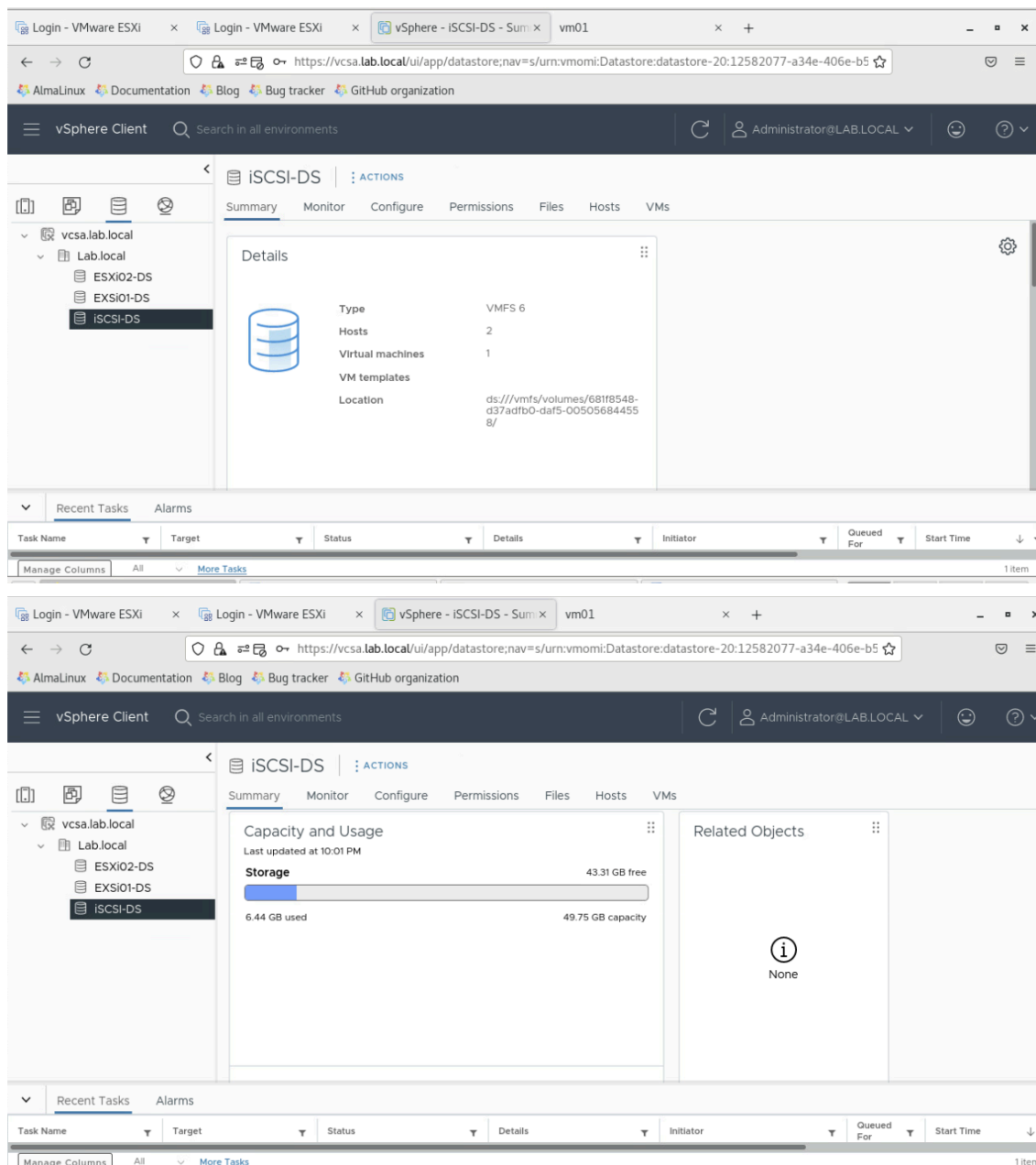
----- Main Objective Screenshots -----

In this case the documentation is provided with screenshots and configuration output. After you have completed the Main Objectives detailed in the next section take **screenshots** in the following places:

1. Host and Clusters view with all trees expanded. Created virtual machine selected.



2.Datastore view with all trees expanded. iSCSI LUN selected. Summary of the iSCSI LUN visible.



Connect to the esxi01 host with SSH. Open terminal in mgmt01 and issue the command:

```
ssh root@esxi01.lab.local
```

After logging in, issue the following commands:

```
esxcli network ip interface ipv4 get
```

```
esxcli network ip interface list | egrep "Name|Portset|Portgroup"
```

```
esxcli network vswitch standard list | egrep "Name|Uplink|Portgroups"
```

Now take a screenshot of the output of the commands (or two if you cannot fit everything in one). If you selected Distributed Switch in your networking configuration, use the following command:

```
esxcli network vswitch dvs vmware list | egrep "Name|Uplink|Client"
```

Note: Repeat the previous part for esxi02 host as well (take SSH connection to esxi02.lab.local and give the commands listed above and take a screenshot).

Screenshot for **root@esxi01.lab.local**:

```
[root@esxi01:~] esxcli network ip interface ipv4 get
Name IPv4 Address IPv4 Netmask IPv4 Broadcast Address Type Gateway DHCP DNS
-----
vmk0 172.16.1.11 255.255.255.0 172.16.1.255 STATIC 172.16.1.1 false
vmk1 10.1.1.11 255.255.255.0 10.1.1.255 STATIC 172.16.1.1 false
vmk2 192.168.1.11 255.255.255.0 192.168.1.255 STATIC 172.16.1.1 false
[root@esxi01:~] esxcli network ip interface list | egrep "Name|Portset|Portgroup"
Name: vmk0
Portset: vSwitch0
Portgroup: Management Network
VDS Name: N/A
Name: vmk1
Portset: vSwitch1
Portgroup: iSCSI Network
VDS Name: N/A
Name: vmk2
Portset: vSwitch2
Portgroup: vMotion
VDS Name: N/A
[root@esxi01:~] esxcli network switch standard list | egrep "Name|Uplink|Portgroups"
[root@esxi01:~] esxcli network vswitch standard list | egrep "Name|Uplink|Portgroups"
Name: vSwitch0
Uplinks: vmnic0
Portgroups: VM Network, Management Network
Name: vSwitch1
Uplinks: vmnic1
Portgroups: iSCSI Network
Name: vSwitch2
Uplinks: vmnic2
Portgroups: vMotion
Name: vSwitch3
Uplinks: vmnic3
Portgroups: VM Data
[root@esxi01:~] █
```

Screenshot for **root@esxi02.lab.local**:

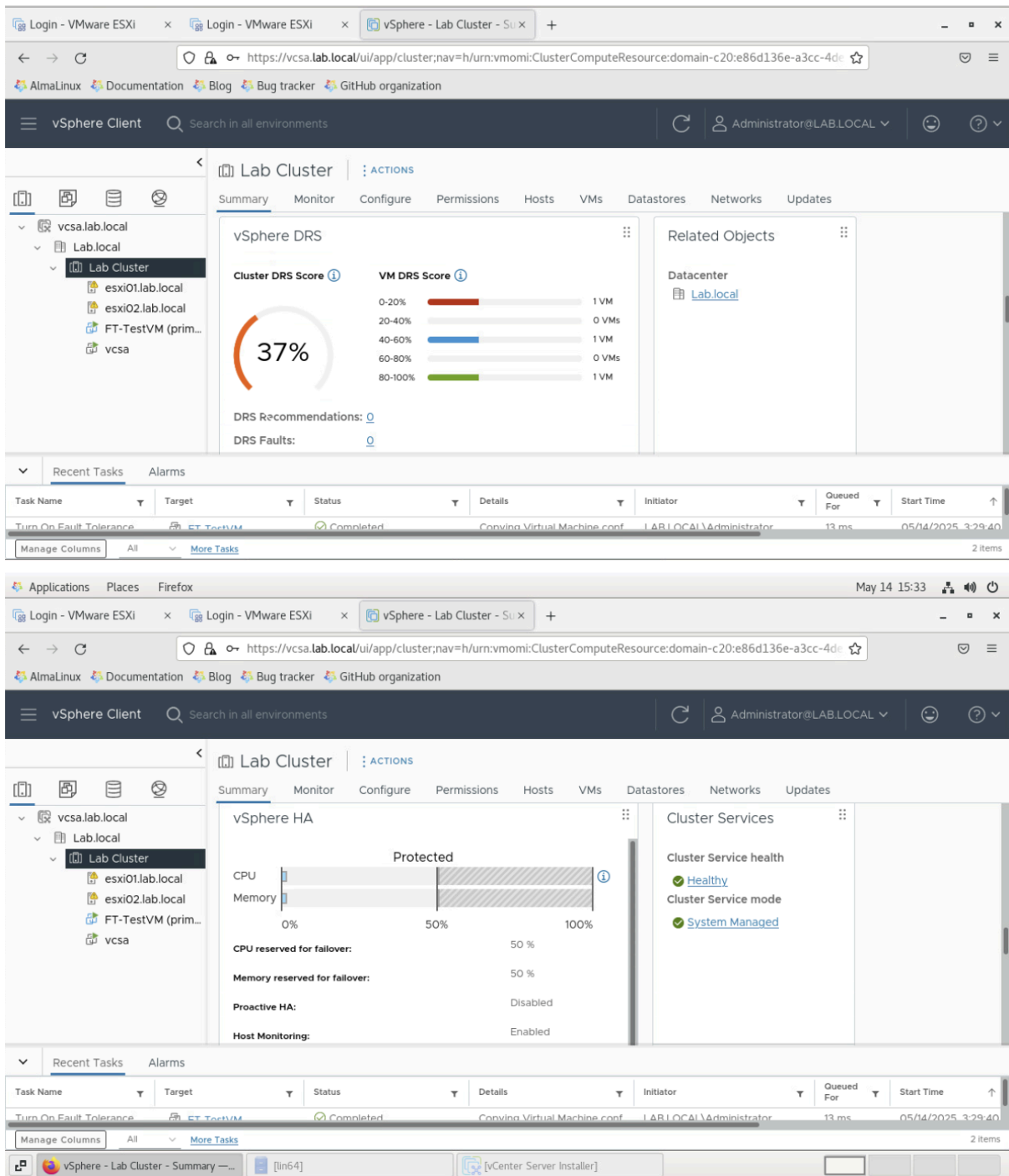
```
[root@esxi02:~] esxcli network ip interface ipv4 get
Name IPv4 Address IPv4 Netmask IPv4 Broadcast Address Type Gateway DHCP DNS
-----
vmk0 172.16.1.12 255.255.255.0 172.16.1.255 STATIC 172.16.1.1 false
vmk1 10.1.1.12 255.255.255.0 10.1.1.255 STATIC 172.16.1.1 false
vmk2 192.168.1.12 255.255.255.0 192.168.1.255 STATIC 172.16.1.1 false
[root@esxi02:~] esxcli network ip interface list | egrep "Name|Portset|Portgroup"
Name: vmk0
Portset: vSwitch0
Portgroup: Management Network
VDS Name: N/A
Name: vmk1
Portset: vSwitch1
Portgroup: iSCSI Network
VDS Name: N/A
Name: vmk2
Portset: vSwitch2
Portgroup: vMotion
VDS Name: N/A
[root@esxi02:~] esxcli network vswitch standard list | egrep "Name|Uplink|Portgroups"
Name: vSwitch0
Uplinks: vmnic0
Portgroups: VM Network, Management Network
Name: vSwitch1
Uplinks: vmnic1
Portgroups: iSCSI Network
Name: vSwitch2
Uplinks: vmnic2
Portgroups: vMotion
Name: vSwitch3
Uplinks: vmnic3
Portgroups: VM Data
[root@esxi02:~] █
```

----- Additional Objective Screenshots -----

Take screenshot in the following place after completing step 13 of instructions:

1. Host and Clusters view with all trees expanded. Cluster selected with the Summary tab visible, and the vSphere DRS and vSphere HA displays open.

Screenshot for Step 13:



Take screenshot in the following place after completing step 14 of instructions:

2. Host and Clusters view with all trees expanded. Created virtual machine selected after the shutdown of the esxi02 host.

Screenshot for Step 14:

Browser tabs: Login - VMware ESXi, Login - VMware ESXi, vSphere - FT-TestVM - Su x

Address bar: <https://vcsa.lab.local/ui/app/vm;nav=h:urn:vmomi:VirtualMachine:vm-25:e86d136e-a3cc-4de3-b536-74e95867f>

Navigation: AlmaLinux, Documentation, Blog, Bug tracker, GitHub organization

vSphere Client | Search in all environments | Administrator@LAB.LOCAL


FT-TestVM

Summary | Monitor | Configure | Permissions | Datastores | Networks | Snapshots | Updates

Issues and Alarms

- Virtual machine Fault Tolerance state changed [Actions](#)
- VMware Tools is not installed on this virtual machine. [Actions](#)

Guest OS



Virtual Machine Details

Power Status: Powered On

Guest OS: Other Linux (32-bit)

Recent Tasks | Alarms

Task Name	Target	Status	Details	Initiator	Queued For	Start Time
Turn On Fault Tolerance	FT-TestVM	Completed	Copying Virtual Machine config	LAB.LOCAL\Administrator	13 ms	05/14/2025 3:29:40

Manage Columns | All | More Tasks | 3 items

Browser tabs: Login - VMware ESXi, Login - VMware ESXi, vSphere - FT-TestVM - Su x

Address bar: <https://vcsa.lab.local/ui/app/vm;nav=h:urn:vmomi:VirtualMachine:vm-25:e86d136e-a3cc-4de3-b536-74e95867f>

Navigation: AlmaLinux, Documentation, Blog, Bug tracker, GitHub organization

vSphere Client | Search in all environments | Administrator@LAB.LOCAL

FT-TestVM

Summary | Monitor | Configure | Permissions | Datastores | Networks | Snapshots | Updates

Usage

Last updated: 5/14/25, 3:39 PM

CPU: 25 MHz used

Memory: 1 MB used

Storage: 2.08 GB used

VM Hardware

CPU: 1 CPU(s), 25 MHz used

Memory: 0 GB, 0 GB memory active

Hard disk 1 (of 2): 1 GB | Thick Provision Lazy Zeroed | SCSI-Disk | See All Disks

Network adapter 1: VM Data (connected) | 00:50:56:84:a1:c6

CD/DVD drive 1: Disconnected

Compatibility: ESXi 8.0 U2 and later (VM version 21)

Recent Tasks | Alarms

Task Name	Target	Status	Details	Initiator	Queued For	Start Time
Turn On Fault Tolerance	FT-TestVM	Completed	Copying Virtual Machine config	LAB.LOCAL\Administrator	13 ms	05/14/2025 3:29:40

Manage Columns | All | More Tasks | 3 items