Lab 3 Accessing iSCSI Storage

Objective: Configure access to an iSCSI datastore

In this lab, you perform the following tasks:

- 1. Validate an Existing ESXi Host iSCSI Configuration
- 2. Add a VMkernel Port Group to a Standard Switch
- 3. Configure the iSCSI Software Adapter
- 4. Connect the iSCSI Software Adapters to Storage

In this lab, you use vSphere Client to perform the tasks.

Task 1: Validate an Existing ESXi Host iSCSI Configuration

You use VMkernel interfaces to provide network connectivity for your hosts and to handle other types of traffic, such as VMware vSphere® vMotion® traffic, storage traffic, and VMware vSphere® Fault Tolerance traffic. In this task, you validate an existing VMkernel and iSCSI software adapter configuration on your first host.

- 1. In vSphere Client, click the Menu icon and select Hosts and Clusters.
- 2. In the Navigator pane, select sa-esxi-01.vclass.local.
- 3. In the right pane, the **Configure** tab is open.
- 4. In the center pane, select Storage > Storage Adapters.

Task 2: Add a VMkernel Port Group to a Standard Switch

In this task you configure a VMkernel Port Group on your second host.

- 1. In the Navigator pane, select sa-esxi-01.vclass.local.
- 2. On the Configure tab, select Networking > VMkernel adapters.
- 3. Click the Add Networking icon.

The Add Networking wizard appears.

- 4. On the Select connection type page, verify that **VMkernel Network Adapter** is selected and click **Next**.
- 5. On the Select target device page, click **Select an existing standard switch**.
- 6. Click **Browse** and select **vSwitch0**.
- 7. Click **OK**.
- 8. Click Next.
- 9. On the Port properties page, configure the VMkernel network settings.
 - a. Enter IP Storage in the Network label text box and click Next.
 - b. On the IPv4 settings page, click Use static IPv4 settings.
 - c. In the IPv4 address text box, enter 172.20.10.61.
 - d. Enter 255.255.255.0 in the Subnet mask text box.
 - e. Verify that the default gateway is set to 172.20.10.10.
 - f. Click Next.
- 10. On the Ready to complete page, click **Finish**.

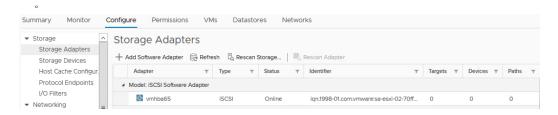
Task 3: Configure the iSCSI Software Adapter

You configure the iSCSI software adapter on your ESXi hosts and verify its iSCSI name.

- 1. In the Navigator pane, select ESXi host sa-esxi-01.vclass.local.
- 2. On the Configure tab, navigate to Storage and select Storage Adapters.
- 3. Click the Add Software Adapter icon (the plus sign).

The Add Software Adapter wizard opens.

- 4. Add software iSCSI adapter is selected.
- 5. Click OK.
- 6. In the Storage Adapters list, scroll down and select the newly created iSCSI software adapter.



- 7. In the Adapter pane, click the **Properties** tab.
- 8. Verify that the adapter status is Enabled.
- 9. Click **Edit** next to General.
- 10. Verify that the name shown in the iSCSI Name text box matches ign.1998-

```
01.com.vmware:sa-esxi-01-########.
```

represents characters that might change.

11. Click **OK**.

Task 4: Connect the iSCSI Software Adapters to Storage

You connect the iSCSI adapters on the ESXi hosts to directly connect to a remote iSCSI target on the IP network.

- 1. In the Storage Adapter pane, click the **Network Port Binding** tab.
- 2. Click the **Add** icon (the plus sign).
- 3. Select the IP Storage check box and click OK.
- 4. In the Storage Adapter pane, click **Dynamic Discovery**, and click **Add**.

- 5. On the Add Send Target Server page, enter 172.20.10.10 for the iSCSI server name in the iSCSI Server text box and click OK.
- 6. Monitor the Recent Tasks pane and wait for the task to complete.
- 7. Click the **Rescan Storage Adapters** icon.

+ Add Software Adapter	Refresh	$\mathbb{P}_{\mathbf{Q}}$ Rescan Storage	Rescan Adapter

- 8. When the rescan storage message appears, click **OK** and wait for the task to complete.
- 9. In the Storage Adapter pane, click the **Devices** tab.
- 10. Verify that five LUNs appear and record the values.
 - LUN number_____Capacity _____Operational state_____
 - Hardware Acceleration

The LUNs are hosted by an iSCSI provider and are used to create datastores in later labs.

- 11. Compare the results for both the hosts.
- 12. Leave vSphere Client open for the next lab.
- 13. Inform your instructor that you have completed this lab. If prompted, continue to the next lab.