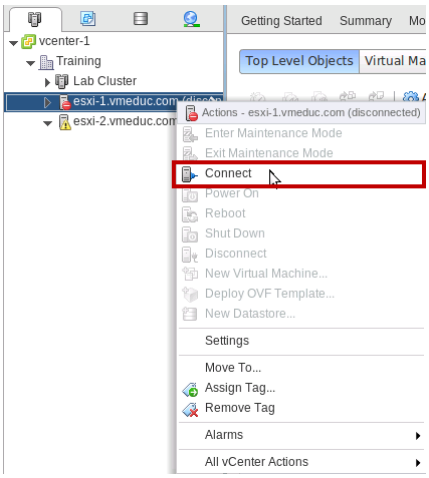
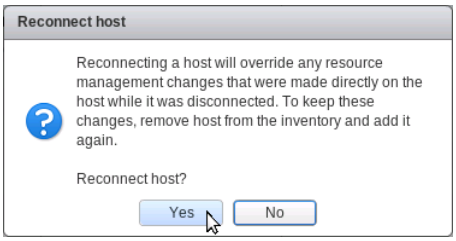
In the following pages, you will find instructions addressing possible problems you may encounter in completing each of the labs. Make sure you refer to these instructions as you complete the relevant lab tasks.

P**ossible Problems (General)**

When the system first starts, it's possible that the infrastructure may not connect correctly. This can be identified by a red symbol appearing on the relevant infrastructure. If you encounter any problems, right click on the problem entry and click **Connect** on the pop-up menu:



The system will then show a dialog, click **Yes** to confirm the (re-)connection:

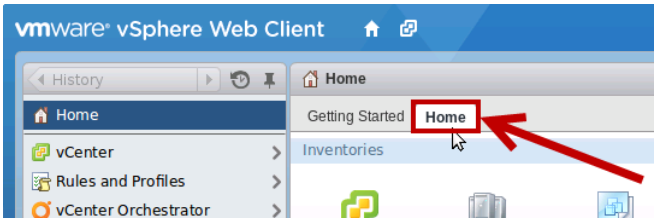


Possible Problems with Lab 10. Managing VMware vSphere VMFS

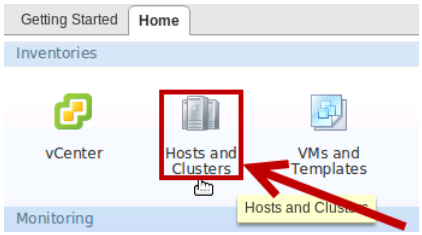
Part 1. Review Your Shared Storage Configuration

5. On the Home tab, click the Hosts and Clusters icon in the main workspace area.

Start by clicking on the Home tab, as indicated.

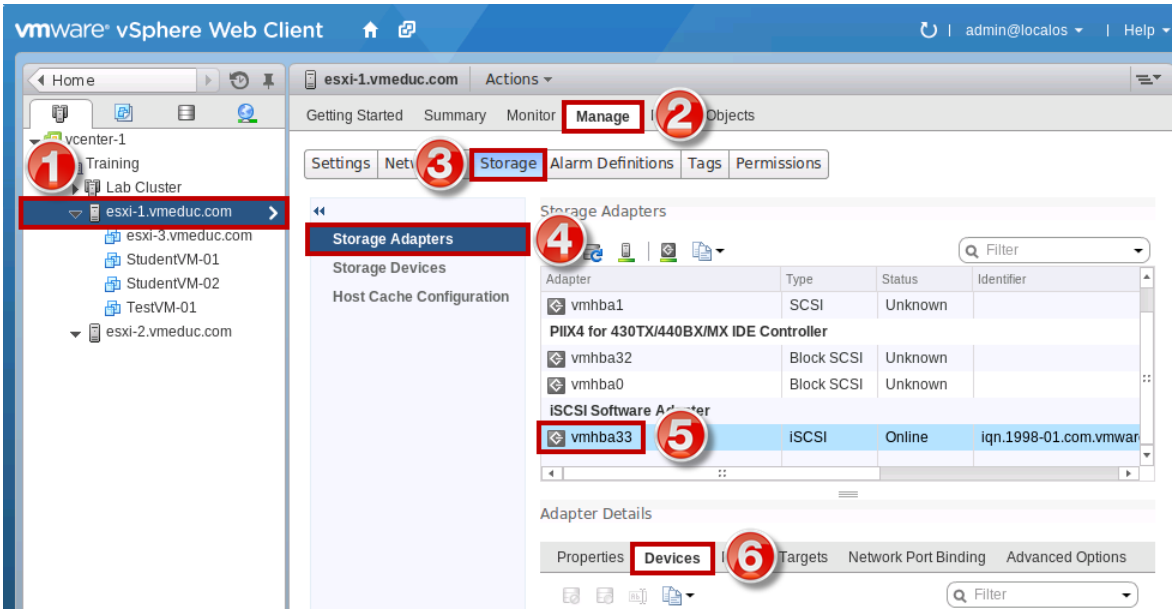


You can now click on the Hosts and Clusters icon in the Inventories section, as indicated.



Steps 6-9.

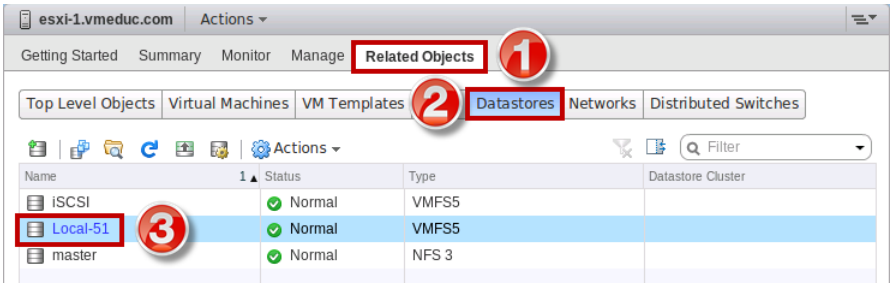
The following figure illustrates the sequence of items to click for these steps.



Part 2. Change the Name of a VMFS Datastore

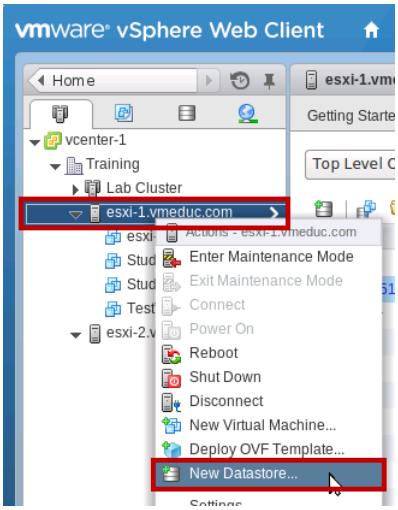
Steps 1-3.

The following figure illustrates the sequence of items to click for these steps.



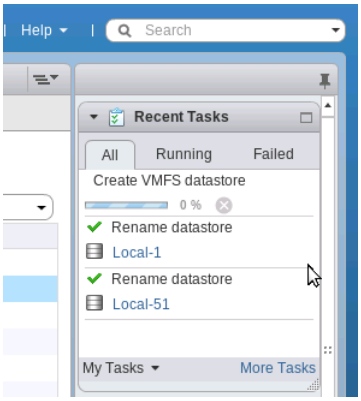
Part 3. Create VMFS Datastores

1. In the Object Navigator pane, right-click the ***esxi-1.vmeduc.com*** *host server, then choose New Datastore. The New Datastore wizard appears.*



10. Wait for the task to complete. Monitor its completion in the Recent Tasks pane.

The Recent Tasks pane is located towards the top-right of the web browser window.



*14. Repeat the previous steps to add a datastore named **Shared-02** using **LUN 2** as a **VMFS-5** file system while maximizing the available space.*

The following five figures illustrate the key entries in the New Datastore dialog.

Figure 1.

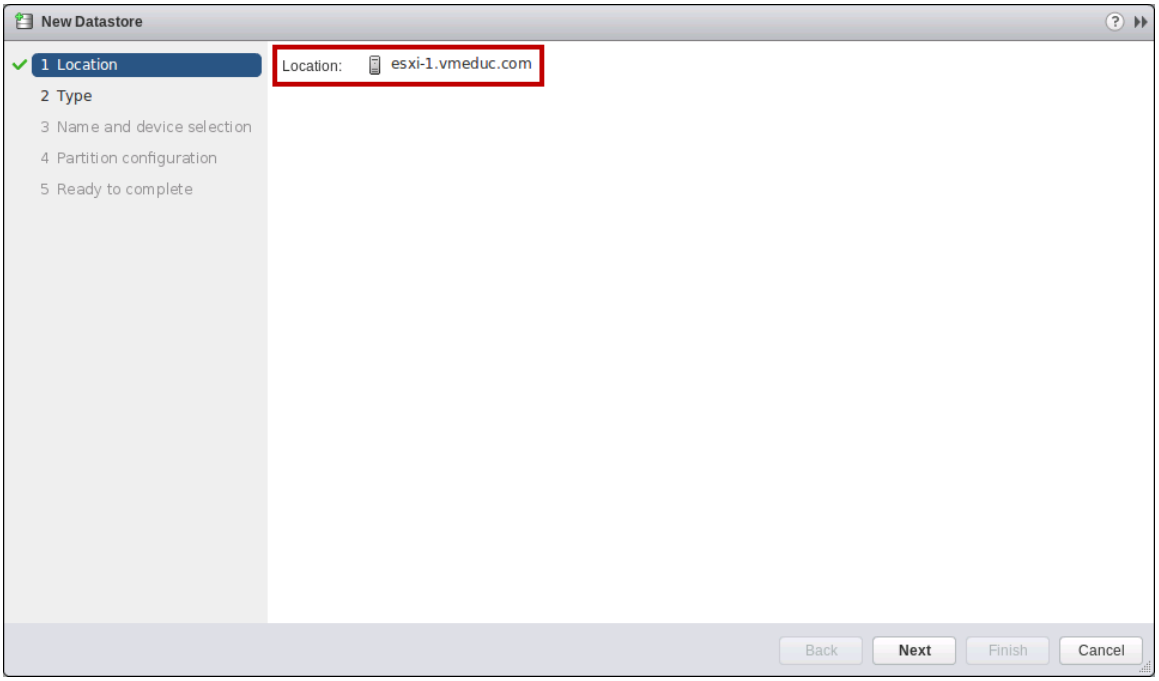


Figure 2.

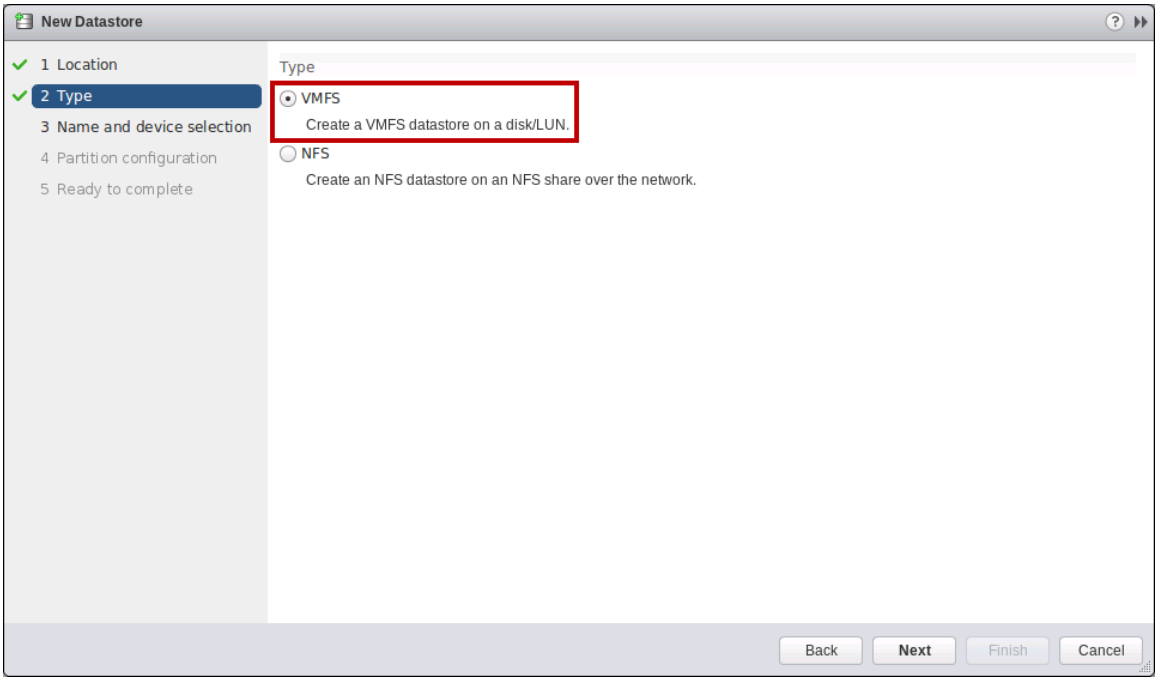


Figure 3.

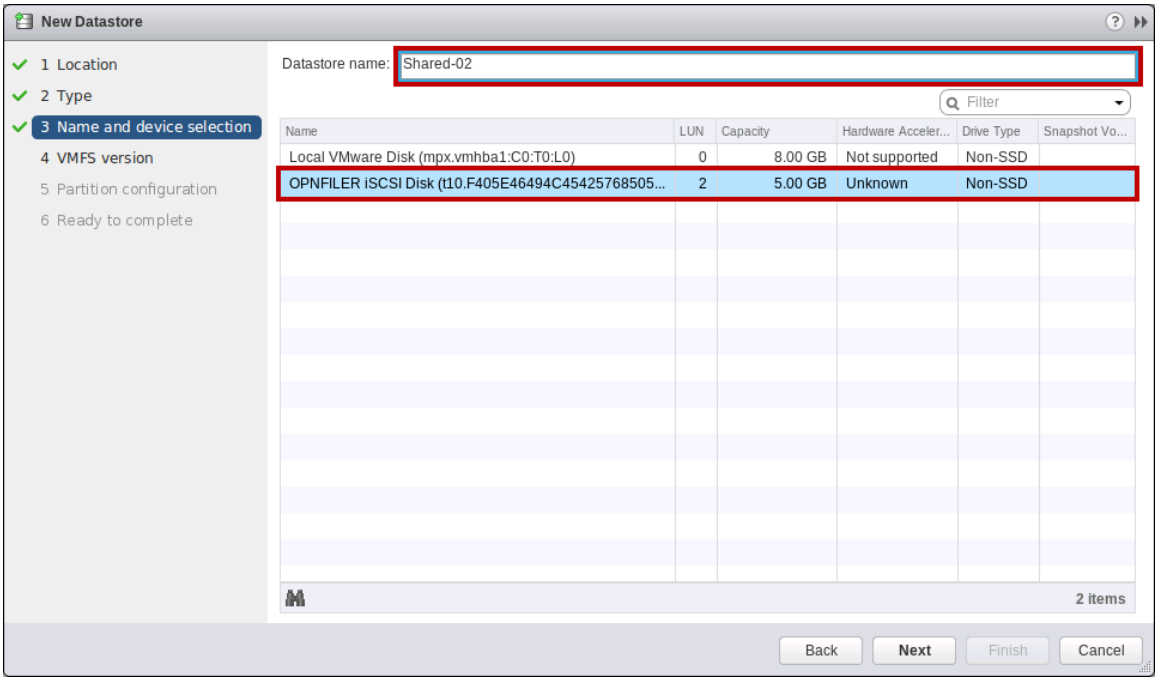


Figure 4.

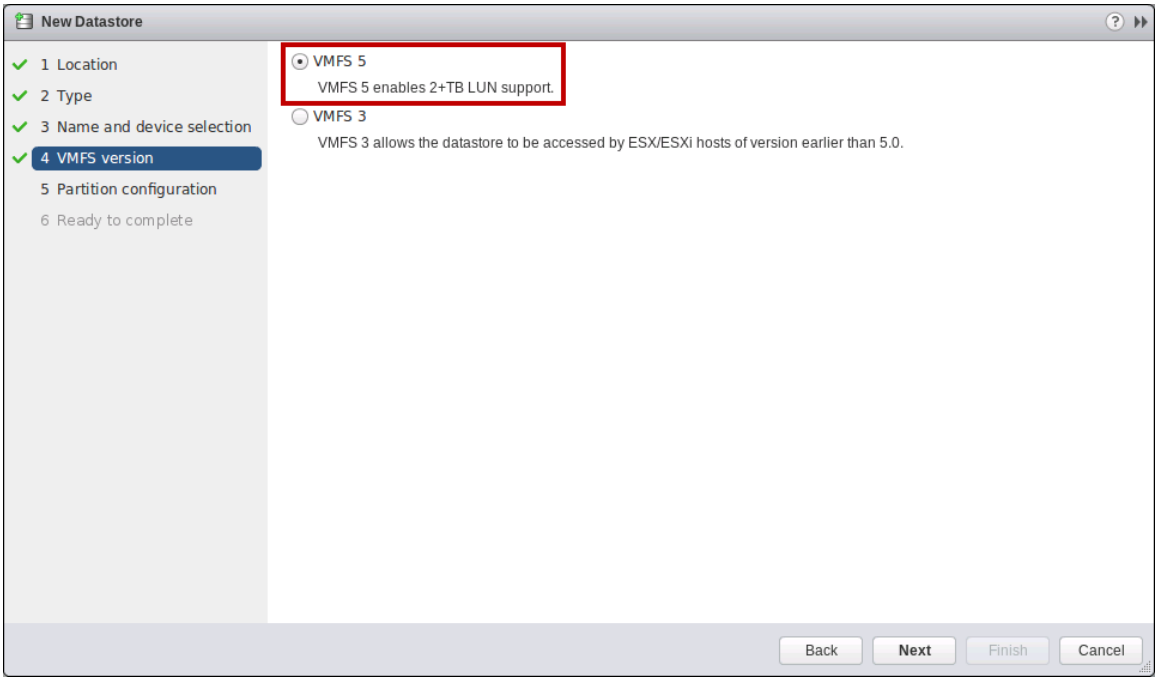
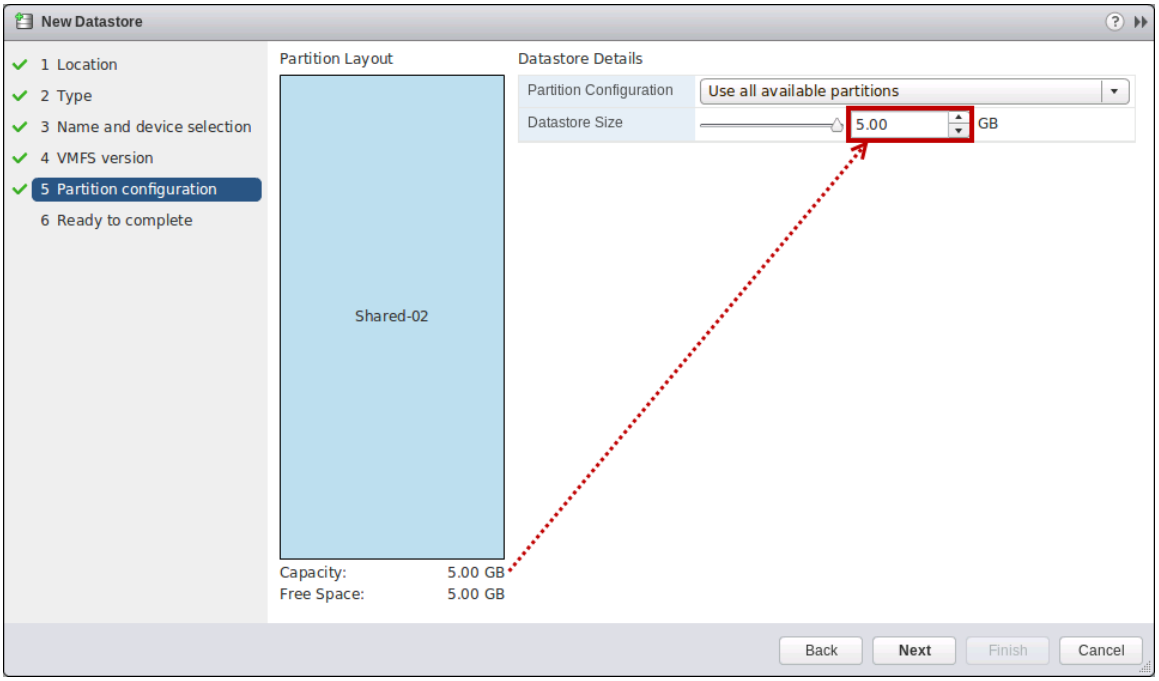
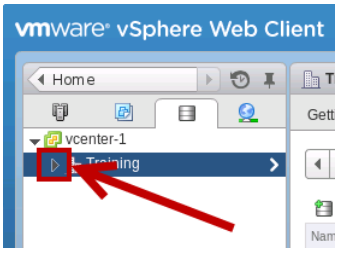


Figure 5.



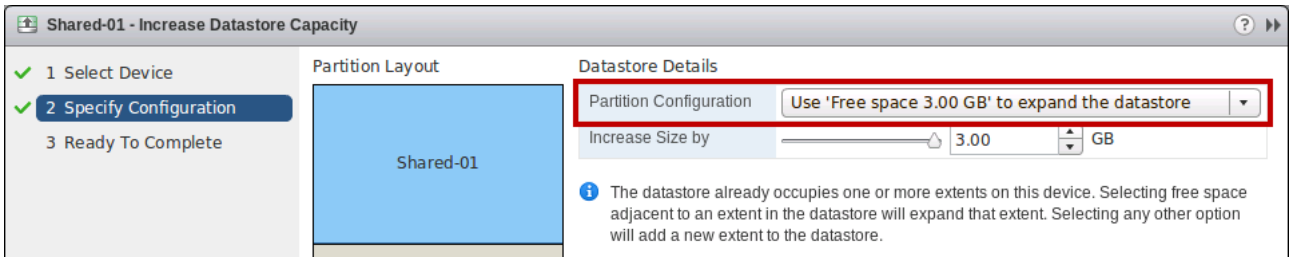
16. You should now see the two new datastores listed in the Object Navigator pane.

If you can't see the new Shared-01 and Shared-02 datastores, you may first need to expand the Training datacentre by clicking on the triangle next to it, as indicated.

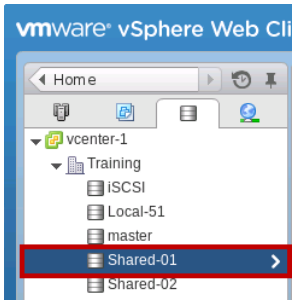


Part 4. Expand the VMFS Datastore to Consume Unused Space on a LUN

4. On the Specify Configuration page, ***select Use 'Free space 3.00GB' to expand the datatore*** *from the Partition Configuration drop-down box and click* ***Next****.*

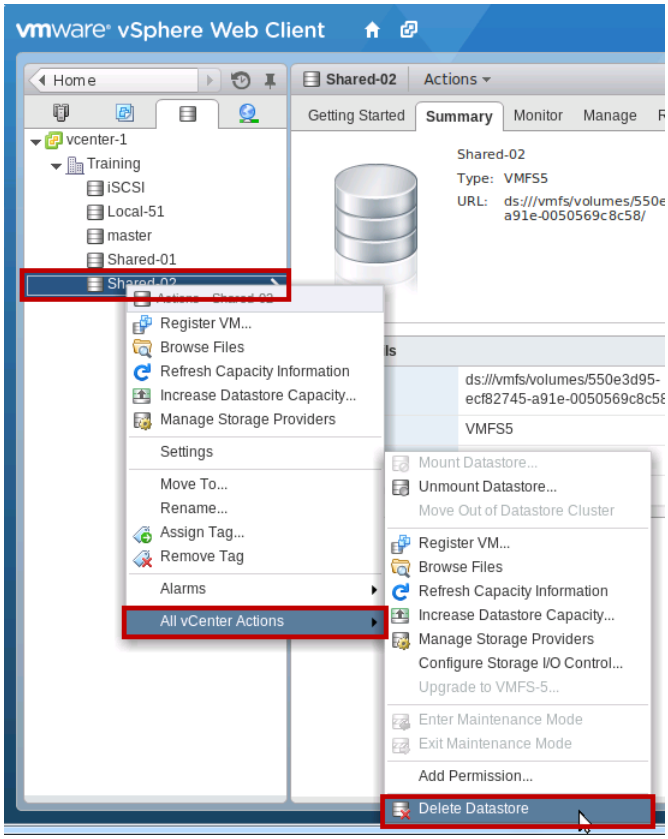


6. After the task is complete, click on ***Shared-01*** *in the Object Navigator pane and verify that the size of your datastore has been increased to the maximum capacity (less space for system overhead) of 9.75GB.*



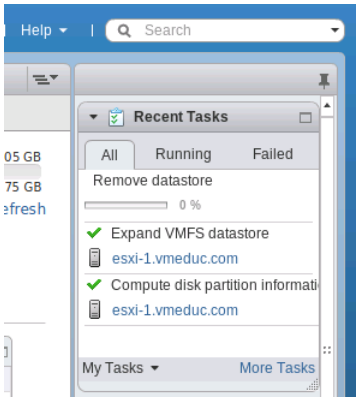
Part 5. Remove a VMFS Datastore

*1. In the Datastore inventory view, right-click on **Shared-02**, then choose **All vCenter Actions**, then **Delete Datastore**.*



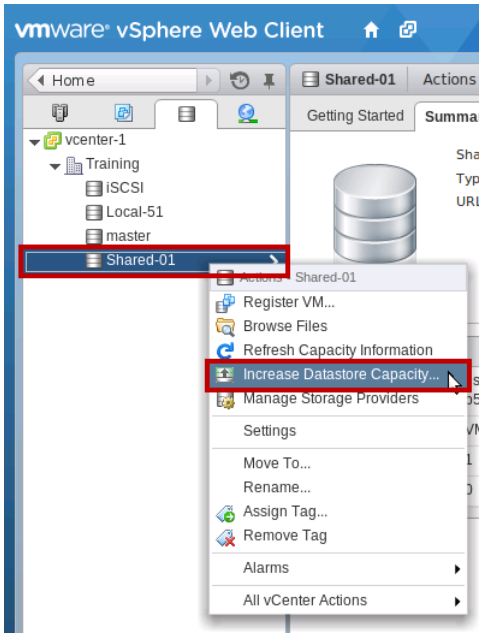
3. Verify that the datastore has been removed from the inventory. This process may take a few minutes.

The progress of this task can be tracked in the Recent Tasks pane at the top-right of the browser window.

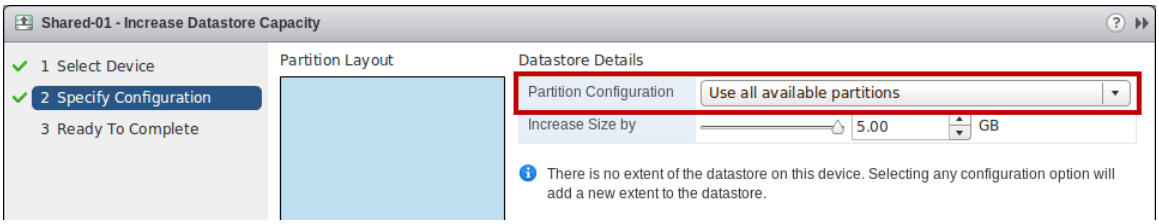


Part 6. Extend a VMFS Datastore

*1. In the Datastore inventory view, right-click on **Shared-01**, and then select **Increase Datastore Capacity**.*

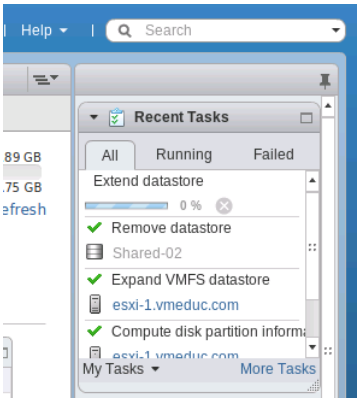


*3. On the Specify Configuration page, select **Use all available partitions** in the Partition Configuration, and click **Next**.*



5. After the task is complete, verify that the capacity of the Shared-01 datastore has updated to 14.5GB.

The progress of this task can be tracked in the Recent Tasks pane at the top-right of the browser window.

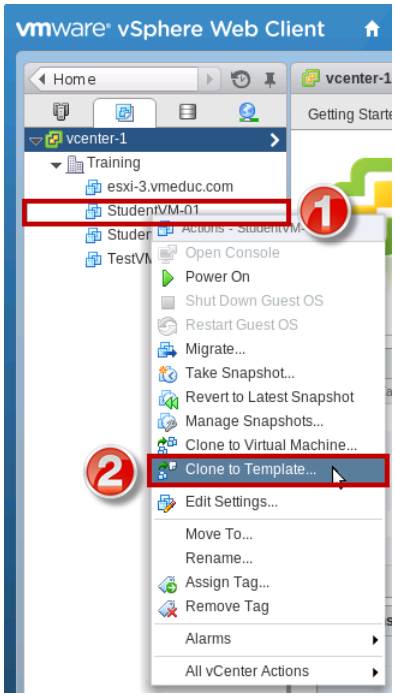


Possible Problems with Lab 11. Using Templates and Clones

The start of this lab task assumes that you have just started an equipment POD. In this case, we already have a running POD, so begin the new lab by clicking on the Home button, then continuing the instructions from Step 5.

Part 1. Clone a Virtual Machine to a Template

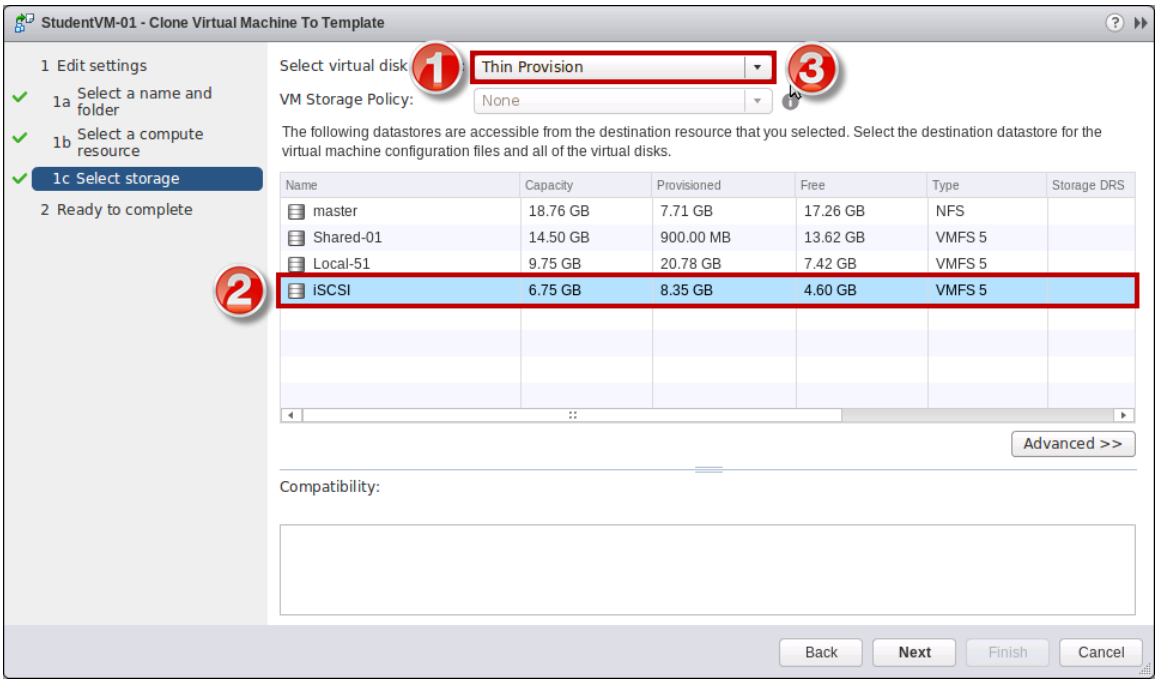
7. Right click on the StudentVM-01 in the inventory view and select Clone to Template.



11. On the Select storage page, click the drop-down box next to Select virtual disk format: and select Thin provision

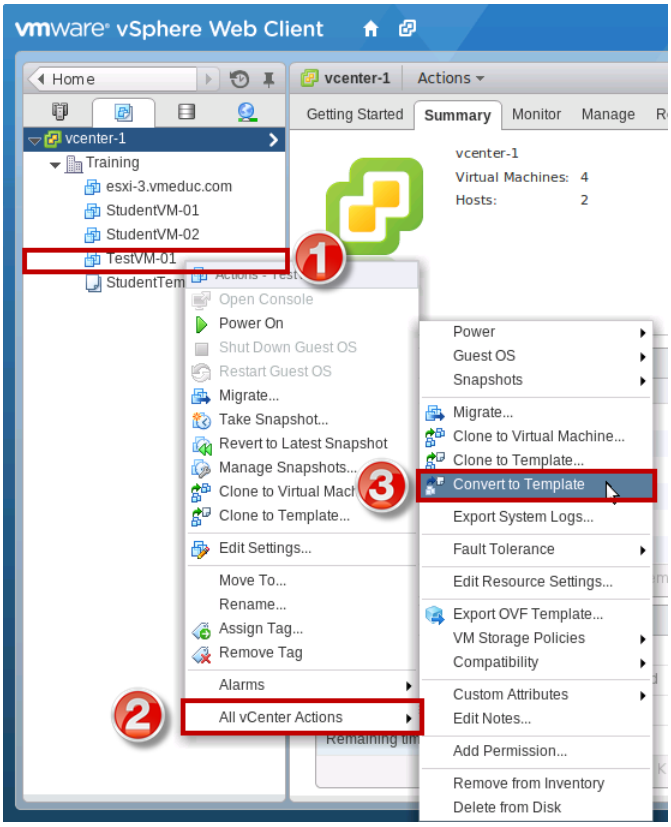
12. Make sure iSCSI is highlighted and click Next.

Note that you may need to repeat Step 11 after completing Step 12, which can reset the virtual disk format.



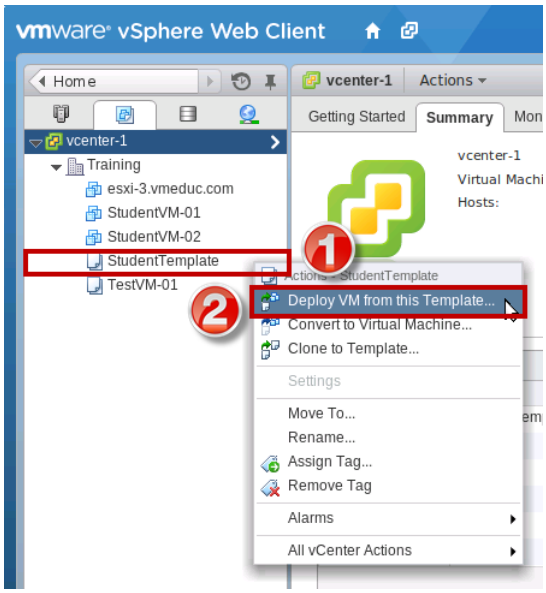
Part 2. Convert a Virtual Machine to a Template

12. Make sure iSCSI is highlighted and click Next.

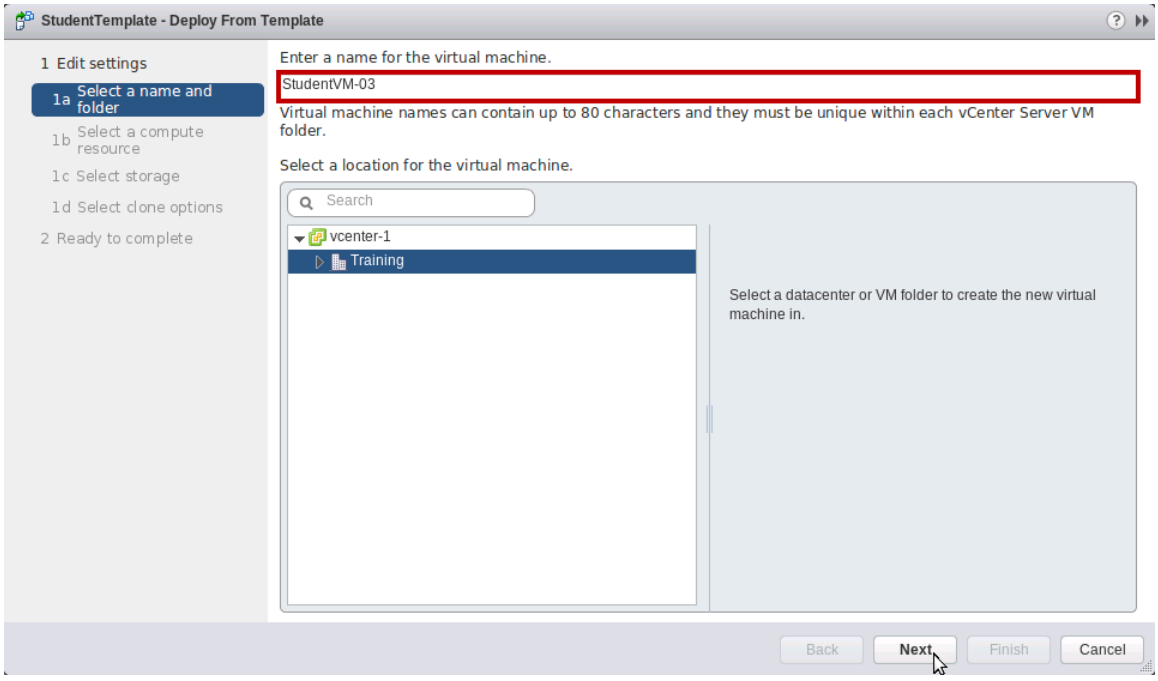


Part 3. Deploy a Virtual Machine from a Template

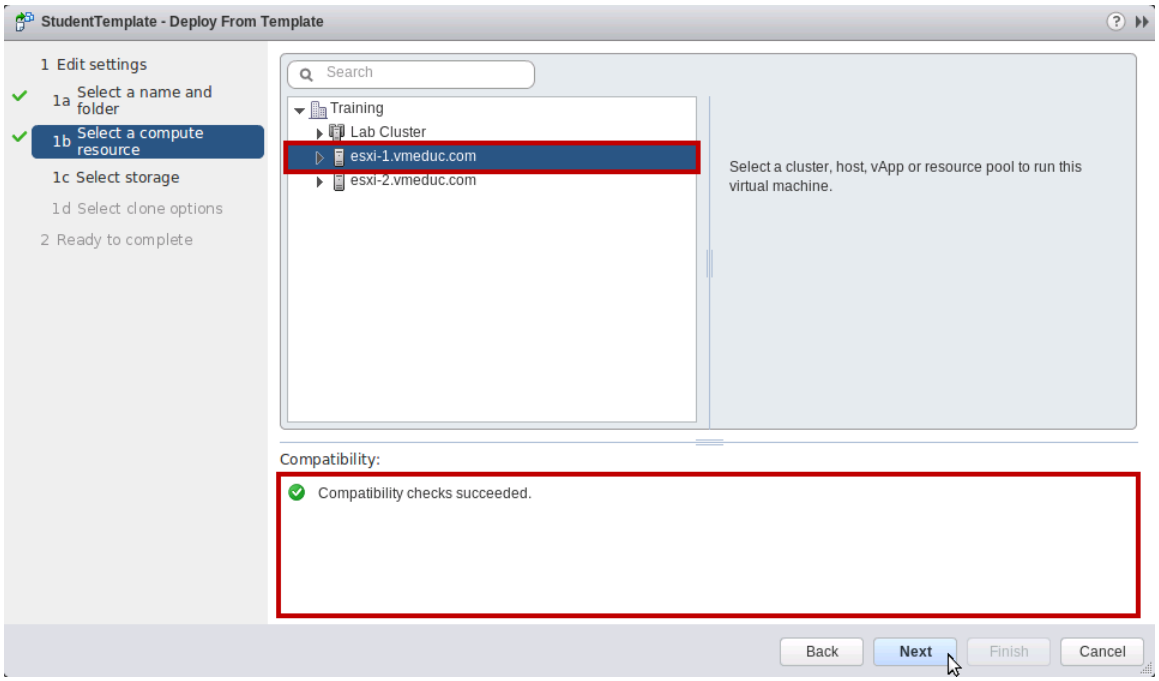
1. In the Object Navigator pane, right-click StudentTemplate and select Deploy VM from this Template.



2. On the Select a name and folder page, use StudentVM-03 as the name for the virtual machine and click Next.



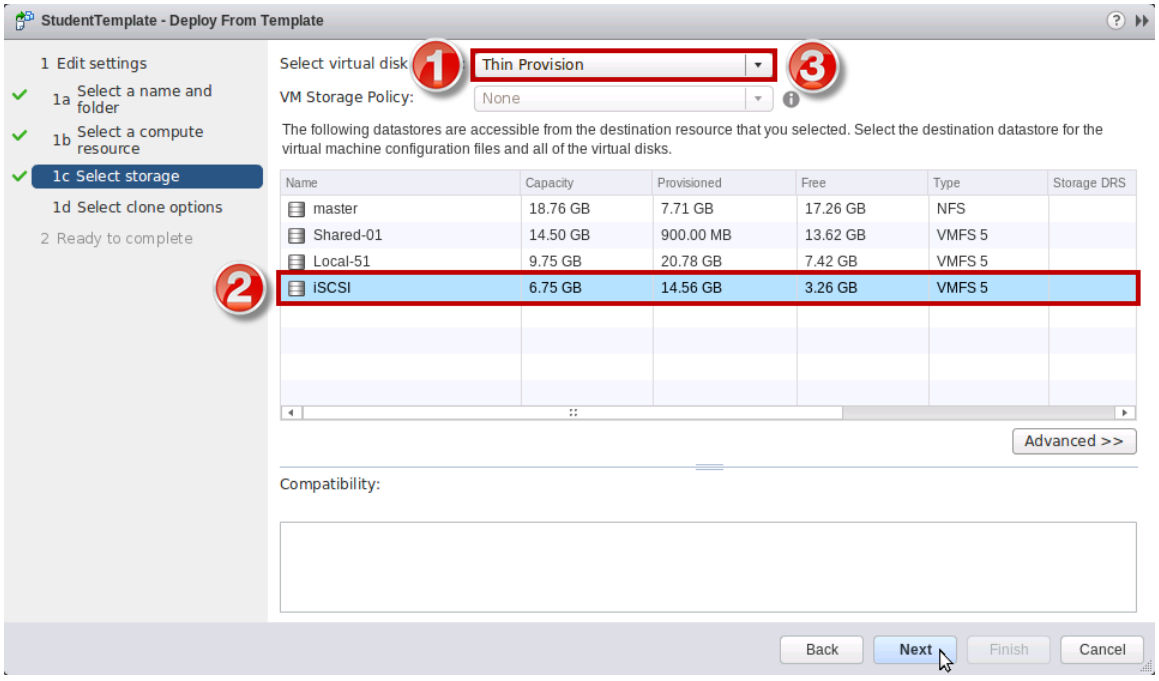
3. On the Select a compute resource page, select the esxi-1.vmeduc.com host. When you select the host, a validation window will open and close and the Compatibility check should have succeeded. Click Next.



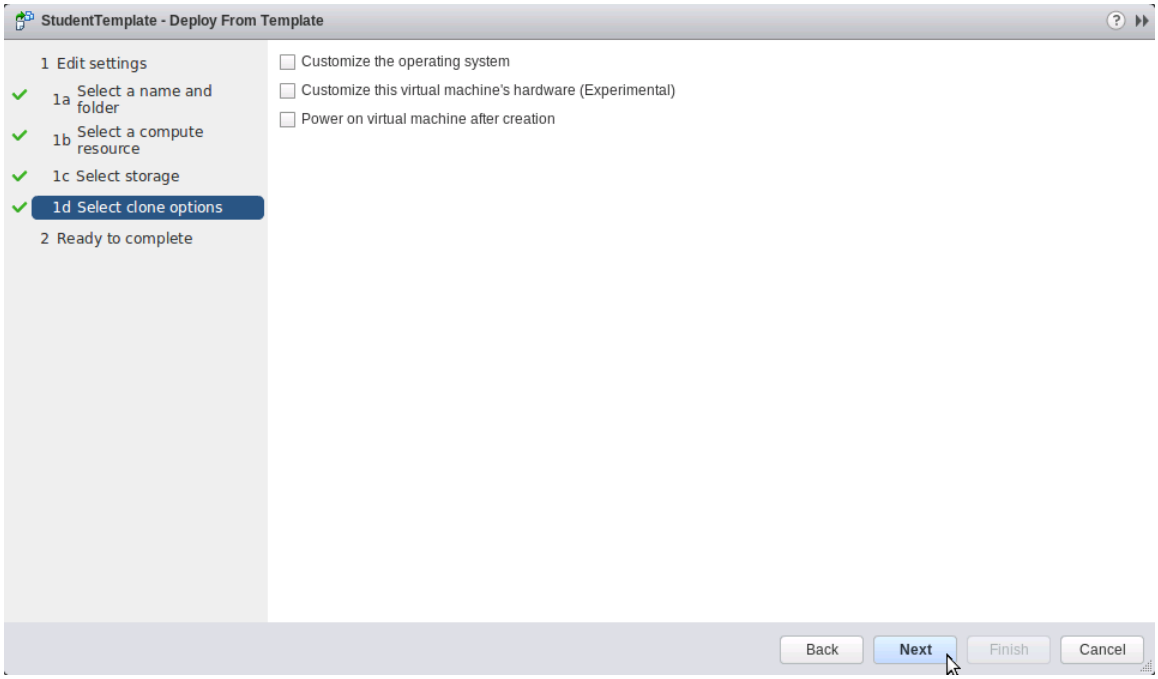
4. On the Select storage page, click the drop-down box next to Select virtual disk format: and select Thin Provision.

5. Make sure iSCSI is highlighted and click Next.

As previously, note that you may need to repeat Step 4 after completing Step 5, which can reset the virtual disk format.

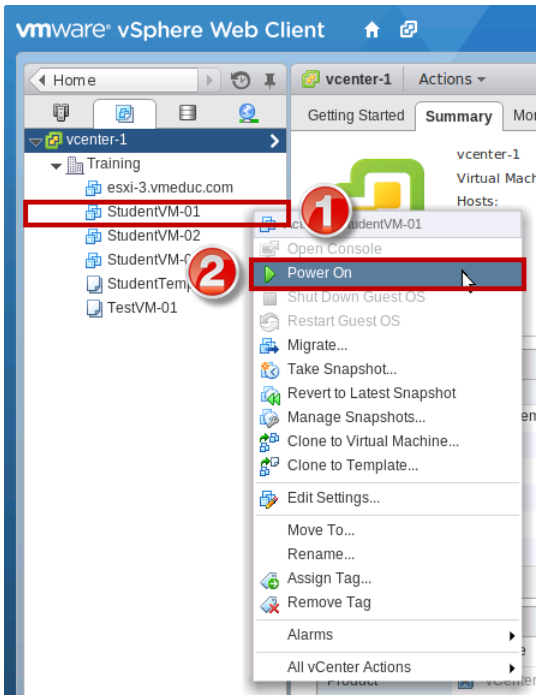


6. On the Select clone options page, leave the defaults and click Next

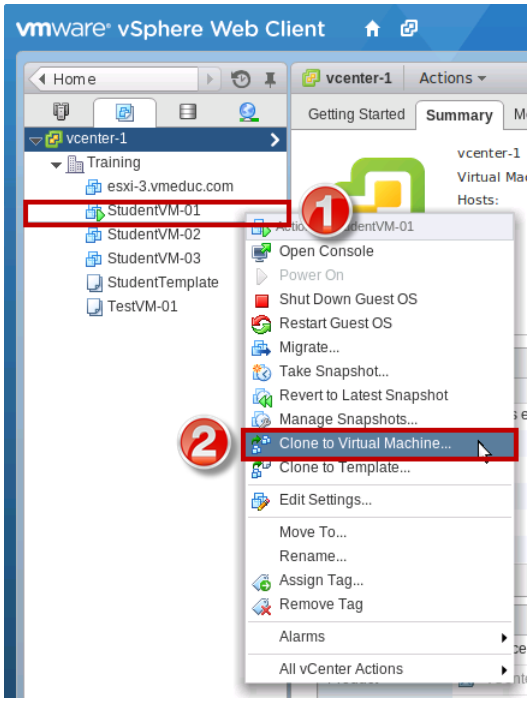


Part 4. Clone a Virtual Machine that is Powered On

1. In the Object Navigator pane, right-click StudentVM-01 virtual machine and select Power On.

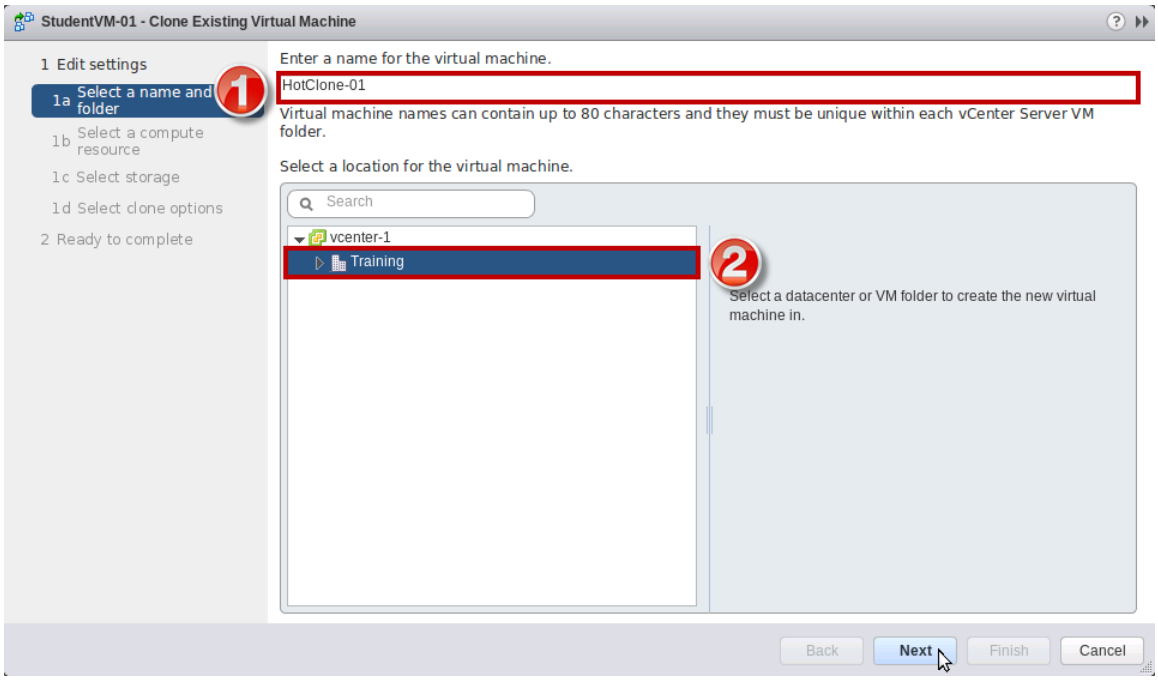


2. Right-click the StudentVM-01 and select Clone to Virtual Machine.

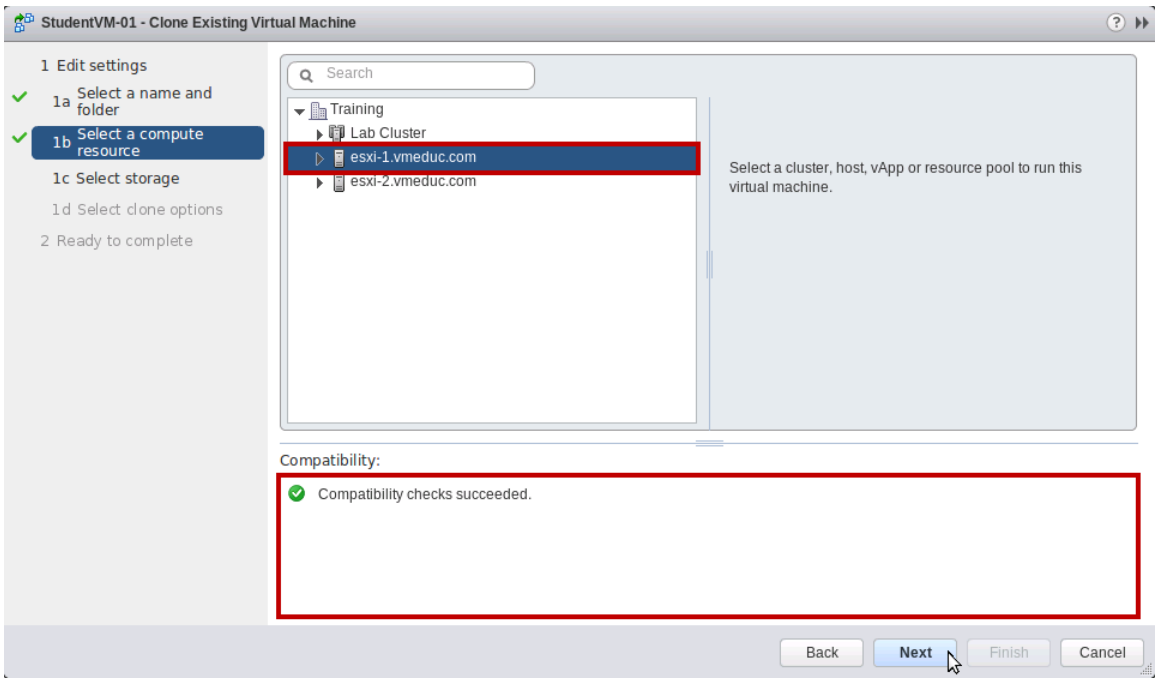


3. On the Select a name and folder page, use HotClone-01 as the name for the virtual machine.

4. Select the Training datacentre. Click Next.

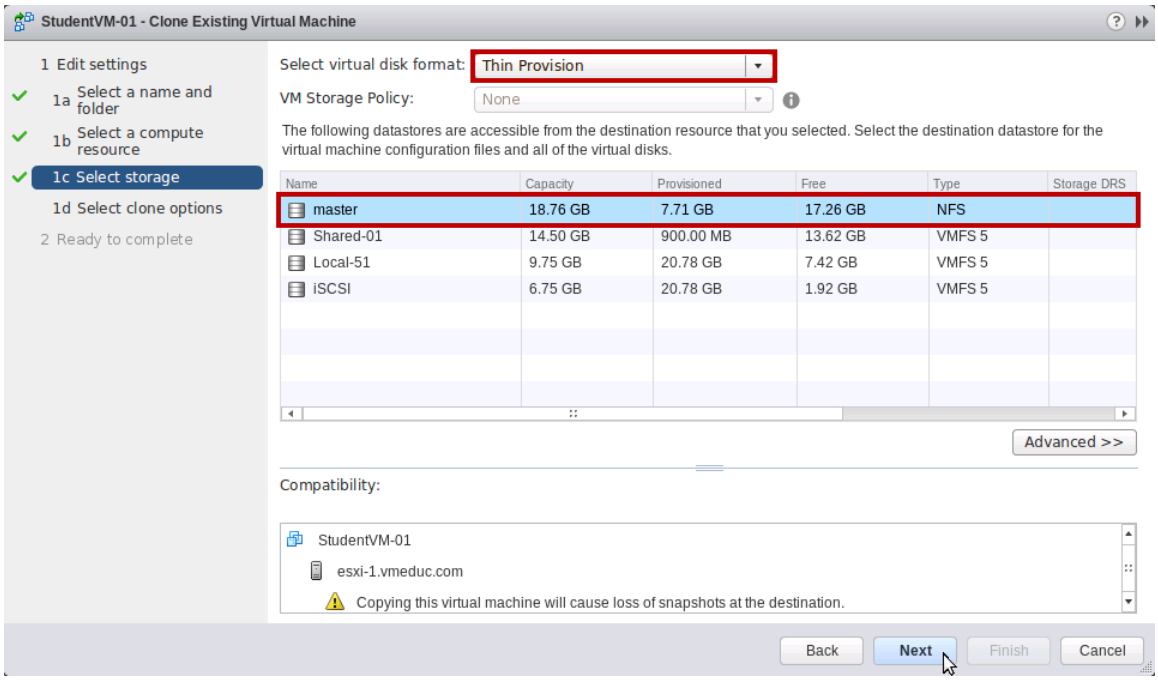


5. On the Select a compute resource page, select esxi-1.vmeduc.com host. When you select the host, a validation window will open and close and the Compatibility check should have succeeded. Click Next.



6. On the Select storage page, click the drop-down box next to Select virtual disk format: and select Thin Provision.

7. Make sure master is highlighted and click Next.



8. On the Select clone options page, leave the defaults and click Next.