

Practical - 9 to 11

Modifying Virtual Machine Settings

Objective: Configure virtual machine settings

In this lab, you will perform the following tasks:

1. Upgrade the Virtual Machine Hardware Version
2. Configure the Virtual Memory
3. Change the Virtual Machine Name
4. Restrict the Number of Users Accessing the Virtual Machines
5. Configure the Swap File Location

Task 1: Upgrade the Virtual Machine Hardware Version

The virtual machine hardware version determines the virtual hardware that is available to a virtual machine. You can upgrade the hardware version of a virtual machine using VMware vSphere® Web Client.

Use the following information from the class configuration handout:

- vCenter Server Appliance name
- vCenter Server Appliance administrator password
- Virtual machine to use for tasks 1, 2, and 3

1. Open vSphere Web Client.
2. Point to **Home** and click **VMs and Templates**.

3. In the Navigator pane, expand the objects as needed and select the virtual machine to use for tasks 1, 2, and 3 (as shown in the configuration handout).
4. In the contents pane, click the **Summary** tab.

The **Summary** tab includes the **VM Hardware** tab, which is located below the console thumbnail. You might have to expand VM Hardware to see the virtual machine hardware version. The compatibility listing shows the virtual machine hardware version.

Q1. What is the virtual machine hardware version?

5. If needed, shut down the virtual machine. If it is not running, skip to Step 5.
 - a. In the contents pane, select **Actions**.
 - b. Select **Power > Shut Down Guest OS**.
 - c. Click **Yes** to confirm that you want to shut down the virtual machine guest operating system.
6. Upgrade the virtual machine's virtual hardware version.
 - a. In the contents pane, select **Actions > Compatibility > Upgrade VM Compatibility**.
 - b. Click **Yes** to confirm upgrading virtual machine hardware.
 - c. Select the hardware version for **ESXi 6.0 and later** and click **OK**.
7. Verify that the hardware version for the virtual machine was upgraded.

You might have to hit the screen update arrow (the curved arrow in the blue bar above the center pane) to see the change.

Q2. What is the virtual hardware version of the virtual machine now?

Task 2: Configure the Virtual Memory

After you enable the memory hot-plug setting, you can edit the memory setting for a virtual machine while it is powered on.

Use the following information from the class configuration handout:

- Virtual machine to use for tasks 1, 2, and 3
1. Right-click the virtual machine to use for tasks 1, 2, and 3 and select **Power > Power On**.
 2. Click the **Manage** tab and select **Settings**.
 3. In the contents pane, click **VM Hardware** and then click **Edit**.

4. Expand **Memory** in the Edit Settings dialog box.

Q1. Can you edit the RAM text box and add more memory to the virtual machine?

5. Click **Cancel** in the Edit Settings dialog box.
6. Right-click the virtual machine and select **Power > Shut Down Guest OS**.
7. Click **Yes** to confirm shutdown.
8. In the contents pane, click **VM Hardware** and then click **Edit**.
9. Expand **Memory** in the Edit Settings dialog box.
10. Select the **Memory Hot Plug** box.
11. Click **OK** to save your changes.
12. Power on the virtual machine.

Wait for the virtual machine to start up.

13. Edit the memory setting for the virtual machine.
 - a. In the contents pane, click the **VM Hardware** tab and click **Edit**.
 - b. Expand **Memory** in the Edit Settings dialog box.

Please do not change the virtual machine or the virtual machine memory settings. Making those changes could cause problems in later labs.

Q2. Can you edit the RAM text box?

Q3. What is the maximum memory recommended for this virtual machine?

14. Click **Cancel** to close the Edit Settings dialog box.

Task 3: Change the Virtual Machine Name

You can change a virtual machine's name by editing its settings.

Use the following information from the class configuration handout:

- Virtual machine to use for tasks 1, 2, and 3
1. Right-click the virtual machine to use for tasks 1, 2, and 3 and select **Rename**.
 2. Name the virtual machine winA.
 3. Click **OK**.

Task 4: Restrict the Number of Users Accessing the Virtual Machines

You can restrict the number of users who can access a virtual machine console at the same time.

1. Right-click virtual machine `winA` and shut down the guest operating system.
2. After the virtual machine is **powered off**, edit its settings.
 - a. Right-click the virtual machine and select **Edit Settings**.
 - b. Click the **VM Options** tab.
 - c. Expand **VMware Remote Console Options**.
 - d. Under the **Maximum number of sessions** box, select the **Limit the number of simultaneous connections to this virtual machine** check box.
 - e. In the text box, change the number of connections from 40 to 2.
 - f. Click **OK**.
3. Right click the virtual machine and click **Power**
4. Click **Power On**.
5. Click **Launch Remote Console**.

The VMRC console opens in a new tab.

The guest operating system state is not important and you can ignore any recovery message that is displayed in the console.

If you click inside the console window, press Ctrl+Alt (Fn+Ctrl+Option if you are on a Mac) to release your mouse.

6. From the vSphere Web Client, click **Launch Remote Console** to open a second console.

A second virtual machine console opens in a new tab.
7. From the vSphere Web Console, click **Launch Remote Console** to open a third console.

Q1. Can you open a third console for the virtual machine?

Q2. What message appears?

8. Close all console windows and shut down the guest operating system on the virtual machine.