

Chapter 10

Working with Virtual Machine Manager

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The activities in this chapter are written to be performed using Hyper-V. In order to avoid problems with JavaScript and security settings in Internet Explorer, we recommend that you install Firefox on your host computer prior to doing the activities in this chapter. The following revised activity notes assume Firefox is installed on student host computers.

Activity 10-1: Downloading Virtual Machine Manager

The 3 files needed for Virtual Machine Manager require a 3 GB download. To save download time, you should consider downloading these files to a central classroom server and then have students copy the files from that location to their local hard drives.

Perform the steps of Activity 10-1 as written except for the following changes:

Skip steps 2-8 if you are copying the SCVMM2008 files from a central server.

In step 2, start Firefox as your Web browser.

In step 3, click the **Download SCVMM2008 R2 - Evaluation Software from Official Microsoft**.

In step 4, click the **Continue** button to the right of the CDLayout.EVAL.part1.exe file and respond to any security alerts by clicking OK to continue.

Step 5 is no longer required.

Activity 10-2: Installing VMM Server

Perform the steps of Activity 10-2 as written except for the following changes:

The time for this activity should be 20 minutes.

Activity 10-3: Installing the VMM Administrator Console

Perform the steps of Activity 10-3 as written.

Activity 10-4: Installing the VMM Self-Service Portal

Perform the steps of Activity 10-2 as written except for the following changes:

Prior to performing Activity 10-4, use Server Manager to install the Web Server IIS role and the IIS 6 Management role by performing the following steps:

1. Start Server Manager and expand Roles in the left-hand pane.
2. Click the Web Server (IIS) role.
3. Click **Action** and then click **Ad Role Services**.
4. Click **Web Server** and then click **IIS 6 Management Console**.
5. Click **Next** and then click **Install** to install all Web Server.
6. After the installation is complete, click **Close** and then close Server Manager.

After installing IIS components you can perform the steps of Activity 10-4 as written.

Activity 10-5: Adding a Host to the VMM Administrator Console

Perform the steps of Activity 10-5 as written.

Activity 10-6: Interacting with a Virtual Machine

Perform the steps of Activity 10-6 as written.

Activity 10-7: Creating a Hardware Profile

Perform the steps of Activity 10-7 as written.

Activity 10-8: Creating a Guest OS Profile

Perform the steps of Activity 10-8 as written.

Activity 10-9: Creating a Template

Time Required: 30 minutes

Objective: Create a Template from an existing virtual machine

Requirements: Completion of Activities 6-10, 10-7 and 10-8.

Description: In this activity you will create a template from your existing Windows Server 2008 Child virtual machine. Due to the changes in Windows Server 2008 R2, Activity 10-9 has been rewritten to create the template from an existing virtual machine rather than copying virtual hard disk files. The template will then be used to create a new virtual machine in activity 10-10.

1. If necessary log on to your host computer with your assigned administrative username and password, and then open the VMM Administrative Console.
2. Click the **Library** view button and then click the **New Template** link in the Library Actions section of the Actions pane to start the New Template Wizard.
3. In the Select Source window, click the **From an existing virtual machine that is deployed on a host** option and then click **Browse**.
4. In the Select Template Source window, click to select the Windows Server 2008 Child virtual machine and then click **OK** and click **Next**. When you see the Virtual Machine Manager message box informing you that creating a template will destroy the source virtual machine, click **Yes** to continue.
5. In the Template Identity window, type **Windows Child Server** in the Template name and **Created with Light-duty hardware and Windows Server 2008 Base Profiles** in the Description text box and then click **Next**.
6. In the Configure Hardware window, click **Light-duty hardware** in the Hardware profile drop-down list and then click **Next**.
7. In the Guest Operating System window, click **Windows Server 2008 Base** in the Guest operating system profile drop-down list and then click **Next**.
8. In the Select Library Server window, click to select your host computer and then click **Next**.
9. In the Select Path window, use the **Browse** button to navigate to the MSSCVMLibrary path and then click **OK** and **Next**.
10. When you see the Summary window, verify your settings and then click **Create** to create the new template. This process will take 30 minutes as it goes through several steps, including using sysprep on the virtual machine.
11. After the template is created, close all windows and return to the VMM Administrator Console. You may leave the Administrator Console open for the next activity.

Activity 10-10: Creating a Virtual Machine with a Template

Perform the steps of Activity 10-10 as written with the following exceptions:

In step 3, select the template you created in Activity 10-9.

Activity 10-11: Converting a Physical Computer into a Virtual Machine

While you can perform the steps of Activity 10-11 as written, the activity requires access to another physical computer on the network and can be tricky to do in a lab environment since it involves changes in the machine configurations including Firewall settings. You may wish to skip this activity or go over it as a classroom demonstration.

Activity 10-12: Creating a User Role

Perform the steps of Activity 10-12 as written with the following exceptions:

In step 7, click to select the template you used in activity 10-10.

Activity 10-13: Creating a Virtual Machine in the VMM Self-Service Portal

While you may perform steps 1-7 of Activity 10-13 as written, the current version of the VMM Self-Service portal does not recognize the localhost as a suitable host for storing virtual machines. When you click **Create** in step 8, a dialog box will open informing you that no suitable host for this virtual machine was found. It is still worthwhile doing this activity as it walks through the process of creating the new virtual machine from the self-service portal. Since this is the last activity in the book, and the virtual machine is not needed.