

Module 1: Installing, upgrading, and migrating servers and workloads

Lab: Installing and configuring Server Core

(VMs: 20740C-LON-DC1, 20740C-LON-SVR6)

Exercise 1: Installing Server Core

Task 1: Install Windows Server 2016 Datacenter Evaluation on LON-SVR6

1. In the **20740C-LON-SVR6 Virtual Machine Connection** window, click the **Start** icon.
2. After a moment, the setup program for Windows Server 2016 appears. On the **Enter your language and other preferences and click “Next” to continue** page of Windows Setup, click **Next**.
3. On the **Install** page, click **Install Now**.
4. On the **Select the operating system you want to install** page, select **Windows Server 2016 Datacenter Evaluation**, and then click **Next**.
5. In the **Applicable notices and licenses terms** page, select the **I accept the license terms** check box, and then click **Next**.
6. On the **Which type of installation do you want?** page, select **Custom**.
7. On the **Where do you want to install Windows** page, select **Next**.
8. The **Installing Windows** page appears.

***Note:** It takes about five minutes for the installation to complete.*

9. When the installation completes, **LON-SVR6** restarts. After some time, a **Command Prompt** window opens and displays the following text:

Administrator The user’s password must be changed before signing in.

Ok

Cancel

10. Note that the **Ok** text line is highlighted. Press Enter.
11. The **Command Prompt** window text changes to the following:
Enter new credentials for Administrator or hit ESC to cancel.
12. Below this, in the **New password** text line, type *Pa55w.rd*, and then press the Tab key. In the **Confirm password** text line, type *Pa55w.rd*, and then press Enter. The text in the **Command Prompt** window changes to:
Your password has been changed.

Ok

Note that the **Ok** text line is highlighted. Press Enter.

13. At this point, the **Command Prompt** window opens with the following prompt: C:\Users\Administrator

***Results:** After completing this exercise, you will have successfully installed the Windows Server 2016 Core operating system on **LON-SVR6**.*

Exercise 2: Completing post-installation tasks on Windows Server 2016 Core

Task 1: Use Windows PowerShell and Sconfig.cmd to configure the settings of Server Core

1. In the **Command Prompt** window, type **PowerShell** and then press Enter.

2. Windows PowerShell will load, and the prompt will change to

PS C:\Users\Administrator>

3. In the **Command Prompt** window, type the following, and then press Enter:

\$env:computername

4. Note that the name is initially a randomly selected host name. In most cases, you will need to change the host name.

5. In the **Command Prompt** window, type the following, and then press Enter:

Get-NetIPAddress | FT IPAddress

6. Note the IPv4 address of 172.16.0.160. This is a DHCP address that was received from the DHCP Server service that is running on **LON-DC1**. While you can use this address, you would normally use a static IP address for servers that host server roles.

7. In the **Command Prompt** window, type **sconfig.cmd** and then press Enter.

8. To select **Network Settings**, type **8** and then press Enter.

9. For **Select Network Adapter Index#**, type **1** and then press Enter.

10. On this screen, note the four options at the bottom. Select each of the following numbers, and then set the following values by typing them and pressing Enter:

a. **1) Set Network Adapter Address:** Select **Static IP**, Enter **static IP Address: 172.16.0.26**, Enter **Subnet Mask: 255.255.0.0**, Enter **Default Gateway: 172.16.0.1**.

b. **2) Set DNS Server:** Enter **new preferred DNS server: 172.16.0.10**, click **OK** in the **Network Settings** pop up window, and then in **Enter alternate DNS server**,

press Enter.

c. 4) Return to Main Menu.

***Note:** Sometimes, on entering a particular value, the screen will change and have you supply the next value.*

11. In the main **Server Configuration** window, at the **Enter number to select an option** prompt, type **1** and then press Enter.
12. At the **Change Domain/Workshop Membership** prompt, type **D** for domain, and then press Enter.
13. At the **Name of Domain to join** prompt, type **Adatum.com** and then press Enter.
14. At the **Specify an authorized domain\user** prompt, type **Adatum\Administrator** and then press Enter.
15. In the **Netdom.exe Command Prompt** window, type **Pa55w.rd** and then press Enter. Note that the password does not echo back onto the screen.
16. The **Netdom.exe Command Prompt** window closes and the **Change computer name** dialog box appears. Click **Yes**.
17. At the **Enter new computer name** prompt, type **LON-SVR6** and then press Enter.
18. At the **Specify an authorized domain\user** prompt, type **Adatum\Administrator** and then press Enter.
19. In the **Netdom.exe Command Prompt** window, type **Pa55w.rd** and then press Enter.
20. When the **Restart** dialog box appears, click **Yes**.
21. After **LON-SVR6** restarts, select the **Ctrl+Alt+Delete** icon in the **20740C-LON-SVR6 computername – Virtual Machine Connection** window, and then the **Command Prompt** window displays the following text:
Enter credentials for Administrator or hit ESC to switch users/sign-in methods
Password:
22. Type **Pa55w.rd**, and then press Enter.
23. In the **Command Prompt** window, type **PowerShell**, and then press Enter.
24. In the **Command Prompt** window, type the following, and then press Enter:
\$env:computername
25. Note that the name **LON-SVR6** displays.
26. In the **Command Prompt** window, type the following, and then press Enter:

Get-NetIPAddress / FT IPAddress

Note that the IPv4 address 172.16.0.26 displays.

27. Type the following, and then press Enter: ***Install-WindowsFeature DNS***

28. Text appears stating that the DNS Server value in the **Success** column is **True**.

Results: *After completing this exercise, you will have successfully configured the domain and network settings of Server Core and install an additional role.*

Exercise 3: Performing remote management

Task 1: Enable remote management with Server Manager

1. On **LON-DC1**, open **Server Manager** if necessary.
2. In Server Manager, in the navigation pane, right-click **All Servers**, and then click **Add Servers**.
3. In the **Add Servers** dialog box, in the **Name (CN)** box, type **LON-SVR6** and then click **Find Now**.
4. In the **Name** list, click **LON-SVR6** and then press the Right Arrow key and click **OK** to add the computer to the **Computer** list.
5. In Server Manager, select **Tools** from the top menu bar, and then select **DNS**.
6. Maximize the **DNS Manager** console.
7. In the console tree, expand **Forward Lookup Zones**, select and then right-click **Adatum.com**, and then select **Properties**.
8. In Adatum.com Properties, select the **Name Servers** tab, and then click the **Add** button.
9. In the **New Name Server Record** window, in the **Server fully qualified domain name (FQDN)** text box, type **LON-SVR6.adatum.com** and then click **Resolve**.
10. Even if you receive a “The server with this IP address is not authoritative for the zone” message, click **OK**.
11. In the **Adatum.com Properties** dialog box, select the **Zone Transfers** tab, and then select the **Allow zone transfers** check box.
12. Select the **Only to servers listed in the Name Servers tab** option, and then click **Notify**.
13. In the **Notify** window, select **The Following Servers** option, click in the text box, type **172.16.0.26** and then press Enter. After a moment, the address will resolve. Click **OK** twice.

Task 2: Add LON-SVR6 to DNS Manager on LON-DC1 and then add the Adatum.com zone to LON-SVR6 as a secondary zone

1. In DNS Manager, in the console tree, right-click **DNS**, and then select **Connect to DNS Server**.
2. In the **Connect to DNS Server** window, select **The following computer** option, in the text box type **LON-SVR6** and then click **OK**.
3. In the console tree, select and expand **LON-SVR6**.
4. Select and then right-click **Forward Lookup Zones**, and then select **New Zone**.
5. The **New Zone Wizard** appears. On the **Welcome** page, click **Next**.
6. On the **Zone Type** page, select the **Secondary zone** option, and then click **Next**.
7. On the **Zone name** page, select the **Browse** button.
8. In the **Browse** window, double-click **LON-DC1**, and then double-click **Forward Lookup Zones**.
Select the **Adatum.com** zone, and then click **OK**.
9. On the **Zone Name** page, click **Next**.
10. On the **Master DNS Server** page, in the text box, type **172.16.0.10** press Enter, and then click **Next**.
11. On the **Completion** page, click **Finish**.
12. Expand **Forward Lookup Zones** in the console tree under **LON-SVR6**. **Adatum.com** will appear with a red X.
13. Right-click **Adatum.com**, select **Transfer from Master**, and then press the F5 key.
14. If the red X doesn't clear, close and reopen **DNS Manager** on **LON-DC1**. You should see the zone data resource records for Adatum.com on **LON-SVR6**.

Task 3: Examine the new zone information on LON-SVR6

1. Return to **LON-SVR6**.
2. In the **Command Prompt** window, type the following, and then press Enter:
Dnscmd /enumzones
3. Check the returned information. Note that Adatum.com is listed as a secondary zone.
4. In the **Command Prompt** window, type the following, and then press Enter:
Dnscmd LON-DC1 /enumzones
5. Check the returned information from **LON-DC1**. Here the Adatum.com zone is listed as a primary zone.

6. In the **Command Prompt** window, type the following, and then press Enter:
Get-DnsClientServerAddress
7. Note the row with the named network adapter **Ethernet** and observe the Interface Index number.
8. In the **Command Prompt** window, type the following statement, replacing *X* with the Interface Index number that you received in step 7, and then press Enter:
Set-DnsClientServerAddress -InterfaceIndex X -ServerAddresses ("172.16.0.26", "172.16.0.10")
9. In the **Command Prompt** window, type the following, and then press Enter:
Get-DnsClientServerAddress
10. Both addresses should now appear in the **ServerAddresses** column.

Results: *After completing this exercise, you will have configured the DNS Server settings on LON-SVR6 remotely.*

Task 4: Prepare for the next module

After you finish the lab, revert the virtual machines to their initial state by completing the following steps:

1. On the host computer, switch to the **Hyper-V Manager** console.
2. In the **Virtual Machines** list, right-click **20740C-LON-DC1**, and then click **Revert**.
3. In the **Revert Virtual Machine** dialog box, click **Revert**.
4. Repeat steps 2 and 3 for **20740C-LON-SVR6**.