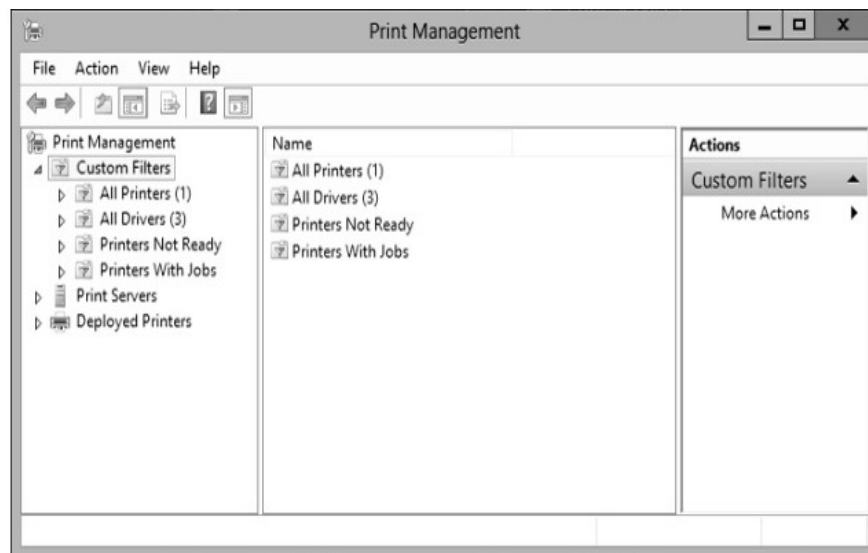**TUTORIAL 6**

CONFIGURE PRINT AND REMOTE SERVICES

Exercise 6.1 Installing a Printer
Overview In this exercise, you install the Print and Document Services role and use the Print Management console included in Windows Server 2012.
Mindset The Print Management console enables administrators to deploy and manage printers all over the network.
Completion time 10–20 minutes

1. Log on to the SVR-C computer, using the domain Administrator account (ADATUM\Administrator) and the password **Pa$$w0rd**. In Server Manager, click Manage > Add Roles and Features. The Add Roles and Features Wizard appears, displaying the *Before you begin* page.
2. Click Next. The *Select installation type* page appears.
3. Click Next. The *Select destination server* page appears.
4. Click Next. Select the Print and Document Services check box. The *Add features that are required for Print and Document Services* dialog box appears.
5. Click Add Features. Then click Next. The *Select features* page appears.

6. Click Next. The *Print and Document Services* page appears.
7. Click Next. The *Select role services* page appears.
8. Click Next to accept the default selections. The *Confirm installation selections* page appears.
9. Click Install. The wizard installs the role.
10. Click Close. The wizard closes.
11. In Server Manager, click Tools > Print Management. The Print Management console appears

12. Expand the Print Servers node, and then right-click the SVR-C (local) node representing the server. From the context menu, select Add Printer. The Network Printer Installation Wizard appears.
13. Select the Add A New Printer Using An Existing Port option, and leave the LPT1: (Printer Port) value

selected. Then click Next. The *Printer Driver* page appears.

14. Leave the Install A New Driver option selected, and click Next. The *Printer Installation* page appears.

15. In the Manufacturer list, select Generic.

16. In the Printers list, select MS Publisher Color Printer, and click Next. The *Printer Name And Sharing Settings* page appears.

17. In the Printer Name text box, type **MSColor**.

18. Leave the Share This Printer check box selected and, in the Share Name text box, type **MSColor**. Then click Next. The *Printer Found* page appears.

Question 1	*Why is the wizard able to install the printer when an actual print device is not connected to the computer?*

19. Click Next. The *Completing The Network Printer Installation Wizard* page appears.

20. After the printer is installed, click Finish.

21. Repeat the process to install a second printer, using the following settings:

☐ Port: LPT2

☐ Manufacturer: Generic

☐ Printer: MS Publisher Imagesetter

☐ Printer Name: MSMono

☐ Share Name: MSMono

22. Expand the SVR-C (local) node, and select the Printers node to see printers.

Exercise 5.2 Deploying Printers Using Active Directory

In this exercise, you use two methods to deploy the printers you created in Windows Server 2012.
Mindset To simplify network printer deployments, you can publish printer connections to Active Directory Domain Services using Group Policy.
Completion time 10–20 minutes

1. On the SVR-C computer, in the Print Management console, right-click the MSColor printer and, from the context menu, select List In Directory.

2. Right-click the MSMono printer and, from the context menu, select Deploy With Group Policy. The Deploy with Group Policy dialog box appears.

3. Click Browse. The *Browse for a Group Policy Object* dialog box appears.

4. Select Default Domain Policy, and click OK. Default Domain Policy appears in the GPO Name field.

5. Select the check box for The Computers That This GPO Applies To (Per Machine), and click Add. The printer appears in the deployment list.
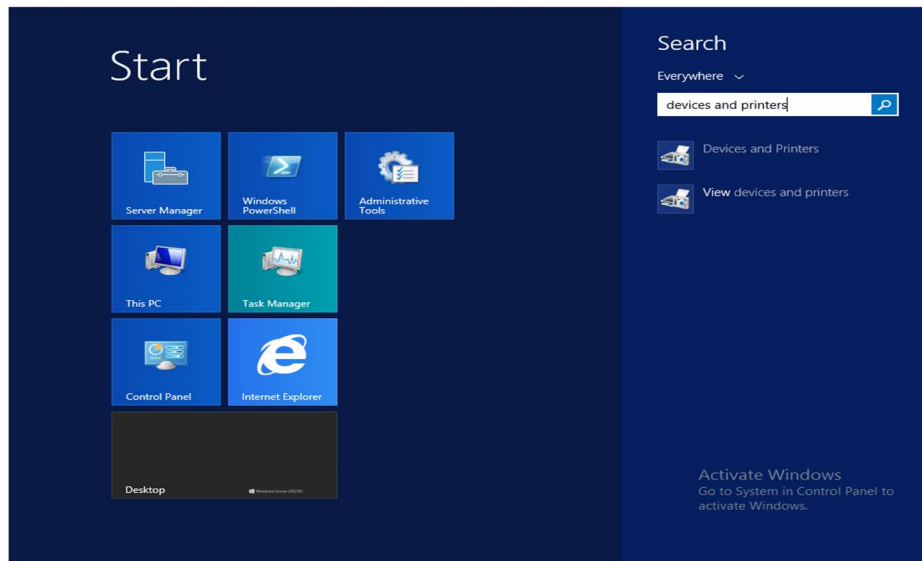
6. Click OK. A Print Management message box appears, indicating that the printer deployment has succeeded.

7. Click OK twice to close the message box and the Deploy with Group Policy dialog box.

8. Log on to the SVR-DC-A computer, using the domain Administrator account and the password **Pa$$w0rd**.

9. Go to Start, type Devices & printers
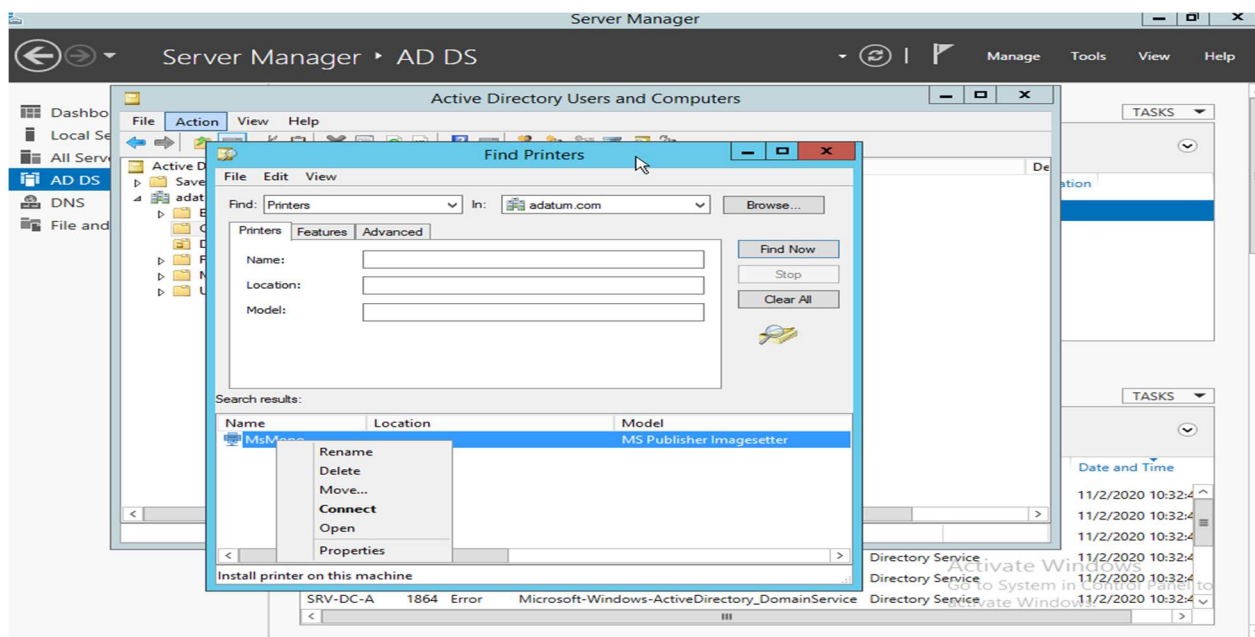
10. Click to select Devices and printers

11. On the SVR-DC-A computer, in Server Manager, click Tools > Active Directory Users and Computers. The Active Directory Users and Computers window appears.
12. Right-click the adatum.com domain and, from the context menu, select Find. The Find Users, Contacts, And Groups dialog box appears.
13. In the Find drop-down list, select Printers. The title of the dialog box changes to Find Printers.
14. Click Find Now.

15. Right-click the MSColor printer and, from the context menu, select Connect.

16. Switch to the Devices and Printers window.

17. Close the Devices and Printers window and the Find Printers window.

End of exercise. You can leave any windows open for the next exercise

Exercise 6.3 Scheduling Printer Access

Overview In this exercise, you configure a printer you installed previously to limit its access to specific individuals and times.
Mindset Consumables for the color printer you installed in Exercise 6.1 are expensive, so you want to prevent users from running personal jobs or printing after hours. However, you want selected users to be able to access the printer at all times. You also want to prioritize those users' print jobs, printing them before other users' jobs.
Completion time 10–20 minutes

1. On SVR-C, in the Print Management console, add a second printer for the MS Publisher Color Printer print device you installed.

☐ Port: LPT1

☐ Printer Driver: MS Publisher Color Printer

☐ Manufacturer: Generic

☐ Printer: MS Publisher Color Printer

☐ Printer Name: MSColor-PM

☐ Share Name: MSColor-PM

2. Select the Printers node in the console, right-click the MSColor printer you created previously, and, in the context menu, select Properties. The MSColor Properties sheet appears.
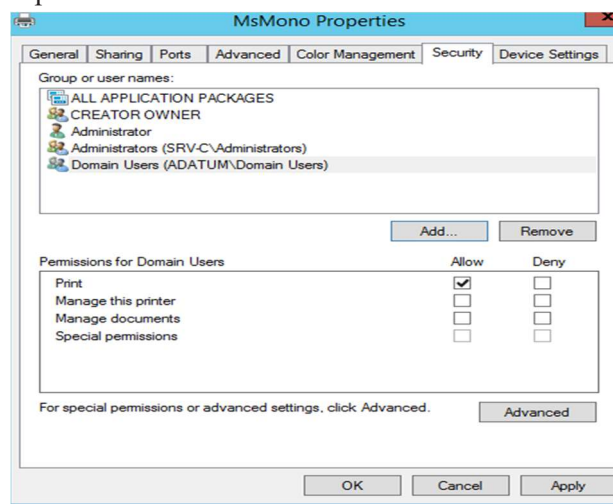
3. Click the Advanced tab

4. Select the Available from option and, in the two spin boxes, select the hours 9:00 AM and 5:00 PM.

5. Click Apply, and then click the Security tab.

6. Click Add. The Select Users, Computers, Service Accounts, or Groups dialog box appears.

7. Type **Domain Users** and click OK. The Domain Users group appears in the *Group or user names* list, and receives the Allow Print permission.

8. Select the Everyone special identity and click Remove.

9. Click OK to close the MSColor Properties sheet.

10. Open the MSColor-PM Properties sheet, and click the Advanced tab.

11. Leave the Always Available option selected, and change the value in the Priority spin box to 99.

12. Click Apply, and then click the Security tab.

13. Add the Domain Admins group to the Group or User Names list, and grant the Allow Print permission to it.

14. Remove the Everyone special identity from the Group or User Names list.

15. Click OK to close the MSColor-PM Properties sheet.

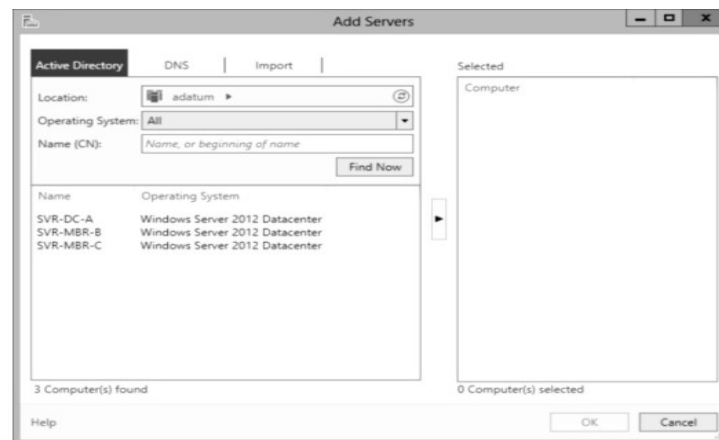End of exercise. Close any open windows before you begin the next exercise.

Exercise 6.4 Adding Servers to Server Manager

Overview In this exercise, you add servers to a member server's Server Manager interface, so you can install roles and features on any server, as well as perform other administration tasks.
Mindset How do you use the Server Manager application on a single computer to manage multiple servers?
Completion time 10 minutes

1. On the SVR-C computer, log on using the domain **Administrator** account, with the password **Pa$$w0rd**. The Server Manager console appears.

2. In the left pane, click All Servers. The All Servers home page appears, displaying only the local server.

3. Right-click the All Servers icon and, from the context menu, select Add Servers. The Add Servers dialog box appears

4. With the Active Directory tab and the adatum domain selected, click Find Now. The three servers on the network appear

5. Select the SVR-DC-A server and click the right arrow. The server appears in the Selected list.

6. Click OK. The wizard closes and the two remote servers appear in the Servers tile.

End of exercise. You can leave the windows open for the next exercise.

Exercise 6.5 Working with Remote Servers

Overview In this exercise, you use Server Manager to connect to another server on the network and try to access the Computer Management console.
Mindset How do you use the Server Manager application on a single computer to manage multiple servers?
Completion time 20 minutes

1. Log on to the SVR-C computer, using the domain Administrator account and the password **Pa$$w0rd**. In Server Manager, click Manage > Add Roles and Features. The Add Roles and Features Wizard appears, displaying the *Before you begin* page.

2. Click Next. The *Select installation type* page appears.

3. Click Next. The *Select destination server* page appears

4. Select the SVR-DC-A server in the Server Pool list and click Next. The *Select server roles* page appears.

5. Select the Web Server (IIS) check box. The *Add features that are required for Web Server (IIS)* dialog box appears.

6. Click Add Features. Then click Next. The *Select features* page appears.

7. Click Next. The *Web Server Role (IIS)* page appears.

8. Click Next. The *Select role services* page appears.

9. Click Next to accept the default role services. The *Confirm installation selections* page appears.

10. Select the *Restart the destination server automatically if required* check box and click Install. The *Installation progress* page appears as the wizard installs the role on the remote system.

11. Click Close. The wizard closes.

12. In Server Manager, click the Tools menu.

13. On SVR-DC-A, log on using the domain **Administrator** account and the password **Pa$$w0rd**.

Question 2	*How can you tell that the Web Server (IIS) role has been successfully installed on the remote server?*

14. You can see that the Web Server (IIS) role has been installed on SRV-DC-A.

15. On SVR-C, in Server Manager, click the All Servers icon. The All Servers home page appears.

16. In the Servers tile, right-click the SVR-DC-A server and, from the context menu, select Restart Server. A message box appears, prompting you to confirm that you want to restart the server.

17. Click OK. Server SVR-DC-A restarts.

18. In the Servers tile, right-click the SVR-DC-A server and, from the context menu, select Computer Management. An Event Viewer message box appears, informing you that the Computer Management console cannot connect to SVR-DC-A. Click OK.

Question 3	*What must you do to enable the Computer Management console to connect to SVR-DC-A?*

End of exercise. Close any open windows before you begin the next exercise

Lab Challenge Configuring Windows Firewall (Homework)

Overview Although Server Manager can install roles and perform certain management functions on remote servers, the default Windows Firewall settings prevent Microsoft Management Console (MMC) snap-ins from connecting to remote servers.

Completion time 15 minutes

To complete this lab, you must configure Windows Firewall on SVR-DC-A so that the Computer Management console running on SVR-MBR-C can connect to SVR-DC-A

Then, on SVR-MBR-C, press Alt+Prt Scr to take a screen shot of the Computer Management console on SVR-DC-A, after selecting Event Viewer in the left pane, showing the connection to the remote server. Press Ctrl+V to paste the image on the worksheet file.

End of exercise. Close any open windows before you begin the next exercise.

Exercise 6.6 Using Remote Server Administration Tools

Overview In this exercise, you install the Remote Server Administration Tools feature and use it to manage the other servers on your network.
Mindset Where are your domain controllers? According to Microsoft's recommendations, they should be under lock and key, and administrators should access them remotely.
Completion time 15 minutes

1. On the SVR-C computer, in Server Manager, click Tools. Select one of the Active Directory Domain Services administration tools. The Tools menu appears

2. In Server Manager, click Manage > Add Roles and Features. The Add Roles and Features Wizard appears, displaying the *Before you begin* page.

3. Click Next. The *Select installation type* page appears.

4. Click Next. The *Select destination server* page appears.

5. Select SVR-MBR-C, and then click Next. The *Select server roles* page appears.

6. Click Next. The *Select features* page appears.

7. Scroll down and expand the Remote Server Administration Tools feature.

8. Expand the Role Administration Tools feature and select the AD DS and AD LDS Tools check box.

9. Click Next. The *Confirm installation selections* page appears.

10. Click Install. The *Installation progress* page appears as the wizard installs the selected features.

11. Click Close. The wizard closes.

12. Click Tools. The Tools menu appears, which now contains the Active Directory administration tools.
End of lab 6.