

Module 11: Managing Volume License Activation and Additional Configuration Settings

Lab: Configuring post-deployment settings for Windows devices (VMs: 20695D-LON-DC1, 20695D-LON-CL1, 20695D-LON-CL2)

Exercise 1: Planning for Windows 10 customization

Task 1: Read the supporting documentation

- Read the supporting documentation.

Results: After completing this exercise, you should have a plan for Windows 10 customization.

Exercise 2: Creating a common Windows Start menu and custom power plan

Task 1: Customize the Start menu, export the Start menu layout, and update the Group Policy settings to display the new layout when users sign in

Create a custom Windows 10 Start menu

1. On **LON-CL1**, in the lower-left corner of the desktop, click **Start** to open the **Start** menu.
2. Right-click the **Mail** tile, and then on the context menu, click **Resize, Large**.
3. Right-click the **Calendar** tile, and then on the context menu, click **Resize, Wide**.
4. Drag the **Microsoft Edge** tile and place it next to the **Calendar** tile.
5. Drag the **Store** tile and place it under the **Calendar** tile.
6. Drag the **Skype** tile and place it under the **Microsoft Edge** tile.
7. Drag the **OneNote** tile and place it next to the **Mail** tile.
8. Right-click the **Get Office** tile, and then on the context menu, click **Unpin from Start**.
9. Right-click all the tiles with the small icons and no text on them, and then click **Unpin from Start**. Four of these should exist.
10. On the **Start** menu, scroll down to the **Windows Accessories** group, expand it, and then right-click **Notepad**. On the context menu, click **Pin to Start**.
11. Drag the **Notepad** tile under to **OneNote** tile.
12. Click the text **Create**, delete it, type **Adatum apps** in the box that appears, and then press Enter.

Export the Start menu layout .xml file

1. On the **Start** menu, right-click **Start**, and then click **Windows PowerShell (Admin)**.
2. In the **Windows PowerShell** window, type the following command, and then press Enter: **`Export-StartLayout -path \\LON-DC1\Labfiles\AdatumLayout.xml`**
3. On **LON-DC1**, on the taskbar, click **File Explorer**.
4. In File Explorer, navigate to **E:\Labfiles**, and then verify that you can see the **AdatumLayout.xml** file.
5. Close File Explorer.

Import the Start menu layout into a GPO

1. On **LON-DC1**, in Server Manager, on the **Tools** menu, click **Group Policy Management**.
2. In the **Group Policy Management Console (GPMC)**, in the console tree, expand **Forest:Adatum.com**, expand **Domains**, and then right-click **Adatum.com**. In the shortcut menu, click **Create a GPO in this domain, and Link it here**.
3. In the **New GPO** window, in the **Name** box, type **`Adatum W10 Start menu`** and then click **OK**.
4. In the console tree, under **Adatum.com**, you should see a new **Adatum W10 Start menu** Group Policy Object (GPO). Right-click the GPO, and then on the context menu, click **Edit**. This opens the Group Policy Management Editor. Maximize it by clicking the square icon in the upper-right corner of the console.
5. In the console tree, expand **User Configuration**, expand **Policies**, expand **Administrative Templates**, and then click **Start Menu and Taskbar**.
6. In the details pane, click the **Setting** heading bar to alphabetize the settings.
7. Scroll down, and then double-click **Start Layout**. This opens the configuration pane for the Start screen layout.
8. In the configuration pane, click **Enabled**, and then in the **Start Layout File** box below it, type **`\\LON-DC1\Labfiles\AdatumLayout.xml`** In the **Comment** box, type **`A custom Start menu for Adatum users`**, and then at the bottom of the configuration pane, click **OK**.

Note: The file location must be a location to which all user accounts have read access.

9. Close the Group Policy Management Editor and the GPMC.

Apply the GPO, and test the results

1. On **LON-CL2**, on the desktop, click **Start** in the lower-left corner. Note the tiles and their position on the Start menu of **LON-CL2**.
2. Click the **Administrator** icon at the top of the **Start** menu, and then click **Sign out**.
3. After the sign-out is complete, sign back in to **LON-CL2** as **Adatum\Administrator** with the password **Pa55w.rd**.
4. On **LON-CL2**, click the **Start** button. Examine the **Start** menu. It should have the custom **Start** menu applied.
5. Attempt to drag and unpin some of the tiles. You should be unable to do so.
6. Attempt to pin an app to the **Start** menu. You should be unable to do that, as well.

Task 2: Set a power plan to ensure that client computers do not hibernate

1. On **LON-DC1**, in Server Manager, on the **Tools** menu, click **Group Policy Management**.
2. In the GPMC, in the console tree, expand **Forest: Adatum.com**, expand **Domains**, expand **Adatum.com**, right-click **London Clients**, and then click **Create a GPO in this domain, and Link it here**.
3. In the **New GPO** window, in the **Name** box, type **PowerSettings**, and then click **OK**.

Note: In the console tree, under the **London Clients** node, you should see a new **PowerSettings** GPO.

4. Right-click **PowerSettings**, and then click **Edit**. The Group Policy Management Editor opens. Maximize it by clicking the square icon in the upper-right corner of the console.
5. In the console tree, expand **Computer Configuration**, expand **Policies**, expand **Administrative Templates**, expand **Windows Components**, and then click **File Explorer**.
6. In the details pane, double-click the **Show hibernate in the power options menu** item.
7. In the **Show hibernate in the power options menu** window, click **Disabled**, and then click **OK**.

8. In the console tree, expand **Computer Configuration**, expand **Preferences**, expand **Control Panel Settings**, and then click **Power Options**.
9. Right-click in the empty **Power Options** details pane, and then click **New, Power Plan (At least Windows 7)**.
10. In the **New Power Plan (At least Windows 7) Properties** window, in the **Action** list, ensure that **Update** is selected, and then select **High performance**.
11. Select the **Set as the active power plan** check box.
12. In the list of items, click the plus sign (+) next to **Sleep**, and then click the plus sign (+) next to **Hibernate after**.
13. Click **On Battery (minutes)**, click **Plugged in (minutes)**, and then ensure that both values are set to **0** (zero).
14. In the list, click the plus sign (+) next to **Display**, click the plus sign (+) next to **Turn off display after**, and then in the list that appears below this option, click **Plugged in (minutes)**. Change the minutes value from **15** to **0** (zero), and then click **OK**.
15. Close the **Group Policy Management Editor** and **GPMC** windows.
16. On **LON-CL2**, right-click **Start**, click **Shut down or sign out**, and then click **Restart**.
17. After **LON-CL2** restarts, sign in as **Adatum\Administrator** with the password **Pa55w.rd**.
18. Click **Start**, type **control**, and then press Enter to open **Control Panel**.
19. In Control Panel, click **Hardware and Sound**, and then click **Power Options**.
20. You should have the **High Performance** power option selected. Click **Change plan settings**.
21. Note that the **Turn off the display** list is set to **Never**. This is applied from the zero minutes setting that you configured in the GPO.

Results: *After completing this exercise, you should have created a common Windows 10 Start menu and a custom power plan.*

Exercise 3: Creating a client preferences GPO

Task 1: Create and deploy a GPO to set client preferences for printers and mapped drivers for Windows 10 users

1. On **LON-DC1**, in Server Manager, on the **Manage** menu, click **Add Roles and Features**.

2. In the **Add Roles and Features Wizard**, click **Next** three times.
3. On the **Select server roles** page, select the **Print and Document Services** check box. In the **Add Roles and Features Wizard** dialog box that appears, click **Add Features**, and then click **Next**.
4. On the **Select features** page, click **Next**.
5. On the **Print and Document Services** page, click **Next**.
6. On the **Select role services** page, verify that the **Print Server** item is selected, and then click **Next**.
7. On the **Confirm installation selections** page, click **Install**. When the installation is complete, click **Close**.
8. On **LON-DC1**, in Server Manager, click **Tools**, and then on the context menu, click **Print Management**.
9. In the **Print Management** console tree, expand **Print Servers, LON-DC1 (local)**, and then click **Printers**.
10. Right-click **Printers**, and then click **Add Printer**. The **Network Printer Installation Wizard** opens.
11. In the **Network Printer Installation Wizard**, click **Add a new printer using an existing port**, and then click **Next**.
12. On the **Printer Driver** page, ensure that the **Install a new driver** option is selected, and then click **Next**.
13. On the **Printer Installation** page, in the **Manufacturer** section, scroll down, and then select **KONICA MINOLTA**. In the **Printer** section, scroll down, select **KONICA MINOLTA PS Color Laser Class Driver**, and then click **Next**.
14. On the **Printer Name and Sharing Settings** page, ensure that the **Printer Name** and **Share name** boxes contain **KONICA MINOLTA PS Color Laser** by removing **Class Driver**, and then click **Next**.
15. On the **Printer Found** page, click **Next**.
16. When the wizard completes, on the **Completing the Network Printer Installation Wizard** page, select the **Add another printer** check box, and then click **Finish**.
17. On the **Printer Installation** page, ensure that the **Add a new printer using an existing port** option is selected. In the list next to it, select the **LPT2: (Printer Port)** item, and then click **Next**.
18. On the **Printer Driver** page, ensure that the **Install a new driver** option is selected, and then click **Next**.

19. On the **Printer Installation** page, in the **Manufacturer** section, scroll down, select **HP**, accept the first printer **HP Color Laserjet 1600 Class Driver**, and then click **Next**.
20. On the **Printer Name and Sharing Settings** page, ensure that the **Printer Name** and **Share name** boxes contain **HP Color Laserjet 1600** by removing **Class Driver**, and then click **Next**.
21. On the **Printer Found** page, click **Next**.
22. When the **Completing the Network Printer Installation Wizard** page appears, do not select any check boxes, and then click **Finish**.
23. On **LON-DC1**, in Server Manager, on the **Tools** menu, click **Group Policy Management**.

***Note:** If you see a **Group Policy Management** dialog box, when you open the GPMC, close the dialog box by clicking the red **X**. Then close the GPMC and reopen it.*

24. In the GPMC, in the console tree, expand **Forest: Adatum.com**, expand **Domains**, right-click **Adatum.com**, and then on the context menu, click **Create a GPO in this domain, and Link it here**.
25. In the **New GPO** window, in the **Name** box, type **ClientUserPreferences** and then click **OK**.
26. In the console tree, under the **Adatum.com** node, you should see a new **ClientUserPreferences** GPO. Right-click this GPO, and then on the context menu, click **Edit**. The Group Policy Management Editor appears. Maximize it by clicking the square icon in the upper-right corner of the console.
27. In the console tree, expand **User Configuration**, expand **Preferences**, and then click **Windows Settings**.
28. Click the **Drive Maps** node. This opens the configuration pane for the drive maps.
29. Right-click in the empty details pane, and then on the context menu, click **New, Mapped Drive**.
30. In the **New Drive Properties** dialog box, in the **Action** list, select **Update**.
31. In the **Location** box, type **\\LON-DC1\Labfiles**
32. In the **Label as** box, type **IT Department Labfiles**
33. In the **Drive letter** section, ensure that the **Use** option is selected, and then in the list, select the drive letter **L**.

34. In the **Hide/show this drive** section, select **Show this drive**.
35. Click the **Common** tab. In the **Options common to all items** section, select the **Item-level Targeting** check box, and then click **Targeting**. The Targeting Editor appears.
36. In the Targeting Editor, select **New Item** in the list, and then on the context menu, click **Security Group**.
37. Next to the **Group** box, click the ellipsis button (...).
38. In the **Select Group** window, in the **Enter the object name to select** box, type **IT**, and then click **OK**.
39. Verify that the **User in group** option is selected.
40. Select **New Item** in the list, and then on the context menu, click **Computer Name**.
41. Next to the **Computer Name** box, click the ellipsis button (...).
42. In the **Select Computer** window that appears, in the **Enter the object name to select** box, type **LON-CL1** and then click **OK** three times.
43. Right-click in the empty details pane, and then on the context menu, click **New, Mapped Drive**.
44. In the **New Drive Properties** dialog box, in the **Action** list, click **Update**.
45. In the **Location** box, type **\\LON-DC1\Labfiles**.
46. In the **Label as** box, type **Marketing Group Labfiles**.
47. In the **Drive letter** section, ensure that the **Use** option is selected, and then in the list, select the drive letter **L**.
48. In the **Hide/show this drive** section, select the **Show this drive** option.
49. Click the **Common** tab. In the **Options common to all items** section, select the **Item-level Targeting** check box, and then click **Targeting**. The Targeting Editor appears.
50. In the **Targeting Editor**, in the **New Item** list, select **Security Group**.
51. Next to the **Group** box, click the ellipsis button (...).
52. In the **Select Group** window, in the **Enter the object name to select** box, type **Marketing**, and then click **OK**.
53. Verify that the **User in group** option is selected.
54. Select the **New Item** list, and then click **Computer Name**.
55. Next to the **Computer Name** box, click the ellipsis button (...).
56. In the **Select Computer** window that appears, in the **Enter the object name to select** box, type **LON-CL2** and then click **OK** three times.

57. In the Group Policy Management Editor, expand **User Configuration**, expand **Preferences**, expand **Control Panel Settings**, and then click **Printers**.
58. Right-click in the **Printers** detail pane, and then click **New, Shared Printer**.
59. In the **New Shared Printer Properties** dialog box, in the **Share path** box, type **\\LON-DC1\KONICA MINOLTA PS Color Laser**
60. Select the **Set this printer as the default printer** check box.
61. Click the **Common** tab, select the **Item-level targeting** check box, and then click **Targeting**.
62. In the Targeting Editor, in the **New Item** list, select **User**.
63. Next to the **User** box, click the ellipsis button (...).
64. In the **Select User** window that appears, in the **Enter the object name to select** box, type **Lara**, click **OK** three times.
65. Right-click in the **Printers** detail pane, and then click **New, Shared Printer**.
66. In the **New Shared Printer Properties** dialog box, in the **Share path** box, type **\\LON-DC1\HP Color Laserjet 1600**.
67. Select the **Set this printer as the default printer** check box.
68. Click the **Common** tab, select the **Item-level targeting** check box, and then click **Targeting**.
69. In the Targeting Editor, in the **New Item** list, select **User**.
70. Next to the **User** box, click the ellipsis button (...).
71. In the **Select User** window that appears, in the **Enter the object name to select** box, type **Leo**, click **Check Names**, and then click **OK** three times.
72. Close the Group Policy Management Editor.

Task 2: Test the client preferences by signing in as different users

1. If you are not already signed into **LON-CL1** as an administrator, sign in as **Adatum\Administrator** with the password **Pa55w.rd**.
2. On **LON-CL1**, on the taskbar, click the **File Explorer** icon.
3. Examine the folders. You should not have the mapped drive.
4. Close all open windows, and then sign out of **LON-CL1**.
5. Sign in to **LON-CL1** as **Adatum\Lara** with the password **Pa55w.rd**.

Note: If you receive the message **Windows couldn't connect to the System Event Notification Service service**, click **OK** and retry step 5.

6. On the desktop, on the taskbar, click the **File Explorer** icon.
7. Click **This PC**, and then examine the folders. You should have the mapped drive labeled as **IT Department Labfiles (L:)**.
8. Click **Start** in the lower-left corner of the taskbar, type **control**, and then press Enter to open the **Control Panel**.
9. In Control Panel, click **Hardware and Sound**, and then click **Devices and Printers**.
10. You should have the **KONICA MINOLTA PS Color Laser on lon-dc1** printer in the **Printers** section. **KONICA MINOLTA PS Color Laser** should have a green check mark showing that it is the default printer.
11. Close all open windows, and then sign out of **LON-CL1**.
12. Sign out of **LON-CL2**, if necessary.
13. Sign in to **LON-CL2** as **Adatum\Leo** with the password **Pa55w.rd**.

Note: If you receive the message **Windows couldn't connect to the System Event Notification Service service**, click **OK** and retry step 13.

14. On **LON-CL2**, on the taskbar, click the **File Explorer** icon.
15. Click **This PC** and then examine the folders. You should have the mapped drive labeled **Marketing Group Labfiles (L:)**.
16. Click **Start** in the lower-left corner of the taskbar, type **control**, and then press Enter to open **Control Panel**.
17. In Control Panel, click **Hardware and Sound**, and then click **Devices and Printers**.
18. You should have the **HP Color Laserjet 1600 on lon-dc1** printer in the **Printers** section. **HP Color Laserjet 1600** should have a green check mark showing that it is the default printer.
19. Close all open windows, and then sign out of **LON-CL2**.

Results: After completing this exercise, you should have signed in as different users on **LON-CL1** and **LON-CL2** and verified the preferences that you configured.

Task 3: Prepare for the next module

After you complete the lab, revert all virtual machines to their initial state by performing the following steps:

1. On the host computer, start **Hyper-V Manager**.

2. In the **Virtual Machines** list, right-click **20695D-LON-DC1**, and then click **Revert**.
3. In the **Revert Virtual Machine** dialog box, click **Revert**.
4. Repeat steps 2 and 3 for **20695D-LON-CL1** and **20695D-LON-CL2**.