

## Lab A: Creating and deploying applications

- Exercise 1: Installing and configuring the Application Catalog roles
- Exercise 2: Creating applications with requirements
- Exercise 3: Deploying applications

### Logon Information

Virtual machines: **20703-1A-LON-DC1-B**

**20703-1A-LON-CFG-B**

**20703-1A-LON-CL1-B**

User name: **Adatum\Administrator**

Password: **Pa55w.rd**

Do not sign in to **20703-1A-LON-CL1-B** until instructed to in the lab.

Estimated Time: 30 minutes

### Lab: Creating and deploying applications

#### Scenario

A. Datum Corporation has developed an application management strategy that depends on the application deployment features in Configuration Manager. You need to configure the Microsoft Excel Viewer to always be available on users' primary devices, and the Microsoft Word Viewer must be available on all Windows 10 systems. You have also decided to use the Application Catalog so that the applications can be made available to the users to search for if needed.

#### Exercise 1: Installing and configuring the Application Catalog roles

##### ► Task 1: Install and configure the Application Catalog

1. On LON-CFG, on the taskbar, click **Configuration Manager Console**.
2. In the System Center Configuration Manager console, click the **Administration** workspace, expand the **Site Configuration** folder, and then click the **Servers and Site System Roles** node.
3. Click [\\LON-CFG.Adatum.com](http://LON-CFG.Adatum.com), on the ribbon, click the **Home** tab, and then click **Add Site System Roles**.
4. In the Add Site System Roles Wizard, on the **General** page, click **Next**.
5. On the **Proxy** page, click **Next**.
6. On the **System Role Selection** page, select both the **Application Catalog web service point** and the **Application Catalog website point** check boxes, and then click **Next**.
7. On the **Application Catalog web service point** page, click **Next**.
8. On the **Application Catalog website point** page, click **Next**.

9. On the **Application Catalog Customizations** page, in the **Organization name** text box, type **Adatum**, and then click **Next**.
  10. On the **Summary** page, click **Next**.
  11. On the **Completion** page, click **Close**.
- Task 2: Configure default client settings
1. Click the **Client Settings** node.
  2. Click **Default Client Settings**, and then on the ribbon, click **Properties**.
  3. In the left section, click **Computer Agent**.
  4. Click **Set Website**.
  5. In the **Configure Client Setting** dialog box, in the **Select Application Catalog website point** drop-down list box, click **LON-CFG.Adatum.com (use intranet FQDN)**, and then click **OK**.
  6. In the **Add default Application Catalog website to Internet Explorer trusted sites zone** drop-down list box, click **Yes**.
  7. In the **Organization name displayed in Software Center** text box, type **Adatum HQ**.
  8. In the left section, click **User and Device Affinity**.
  9. In the **Allow user to define their primary devices** drop-down list box, click **Yes**.
  10. In the **Default Settings** dialog box, click **OK**.
- Task 3: Configure a user-defined primary device
1. Switch to LON-CL1. Sign in as **Adatum\Pam** with the password **Pa55w.rd**.
  2. Right-click the Start button and click **Control Panel**, click **System and Security**, and then click **Configuration Manager**.
  3. In the **Configuration Manager Properties** dialog box, click the **Actions** tab.
  4. Click **Machine Policy Retrieval & Evaluation Cycle**.
  5. Click **Run Now**, and then in the **Machine Policy Retrieval & Evaluation Cycle** message box, click **OK**.
  6. In the **Configuration Manager Properties** dialog box, click **OK**.
  7. Close the **System and Security** dialog box.
  8. Click **Start**, type **Internet**, and then open Internet Explorer.
  9. In the Internet Explorer address bar, type <http://LON-cfg.Adatum.com/CMApplicationCatalog>.
  10. If prompted, sign in as **Pam** with the password **Pa55w.rd**.
  11. Maximize the browser window, and click the **My Devices** tab.
  12. Select the **I regularly use this computer to do my work** check box.
  13. Wait for the text to change to **This computer is set as your primary computer**. Click the **More information** link, and then read information in the dialog box describing how a primary computer is managed. Close Internet Explorer.
  14. Sign out of LON-CL1.

## Exercise 2: Creating applications with requirements

- Task 1: Create a Microsoft Office Excel Viewer application
1. On LON-CFG, on the taskbar, click **Configuration Manager Console**.
  2. Click the **Software Library** workspace, expand **Application Management**, and then click **Applications**.
  3. Right-click **Applications**, and then click **Create Application**.
  4. In the Create Application Wizard, on the **General** page, ensure the **Automatically detect information about this application from installation files** option is selected and that the **Type** list displays **Windows Installer (\*.msi file)**, and then click **Browse**.
  5. Navigate to <\\LON-CFG\\Software\\MSI Files\\ExcelViewer>, click **xlview.msi**, and then click **Open**.

**Note:** Be sure to use the Universal Naming Convention for the computer name, <\\LON-CFG> as the E:\ drive will give you an error when you click Next.

6. On the **General** page, click **Next**.
7. On the **Import Information** page, click **Next**.

8. On the **General Information** page, in the **Administrator comments** text box, type **Excel viewer program**, in the **Publisher** text box, type **Microsoft**, and then in the **Software version** text box, type **12.0.4518.1069**.
  9. Under **Administrative categories**, click **Select**.
  10. In the **Manage Administrative Categories** dialog box, click **Create**, in the **Create Administrative Category** text box, type **Viewer**, and then click **OK**.
  11. In the **Manage Administrative Categories** dialog box, click **OK**.
  12. On the **General Information** page, click **Next**.
  13. On the **Summary** page, click **Next**.
  14. On the **Completion** page, click **Close**.
- Task 2: Modify an application requirement
1. In the **Software Library** workspace, under the **Application Management** folder, click the **Applications** node.
  2. Right-click **Microsoft Office Excel Viewer**, and then click **Properties**.
  3. Click the **Deployment Types** tab.
  4. Click the **Microsoft Office Excel Viewer – Windows Installer (\*.msi file)** deployment type, and then click **Edit**.
  5. Click the **Requirements** tab, and then click **Add**.
  6. In the **Category** list, click **User**.
  7. Verify that the **Condition** list is set to **Primary device**.
  8. Verify that the **Operator** is set to **Equals**.
  9. Verify that the **Value** field is set to **True**.
  10. In the **Create Requirement** dialog box, click **OK**.
  11. In the **Microsoft Office Excel Viewer – Windows Installer (\*.msi file) Properties** dialog box, click **OK**.
  12. In the **Microsoft Office Excel Viewer Properties** dialog box, click **OK**.
- Task 3: Create a Microsoft Office Word Viewer application
1. Right-click **Applications**, and then click **Create Application**.
  2. In the Create Application Wizard, on the **General** page, click the **Manually specify the application information** option.
  3. On the **General** page, click **Next**.
  4. On the **General Information** page, in the **Name** text box, type **Microsoft Office Word Viewer**.
  5. In the **Administrator comments** text box, type **Install on Windows 10 only**.
  6. In the **Publisher** text box, type **Microsoft**.
  7. In the **Software version** text box, type **11.6506.6505**.
  8. To the right of the **Administrative categories** box, click **Select**.
  9. In the **Manage Administrative Categories** dialog box, select the **Viewer** check box, and then click **OK**.
  10. On the **General Information** page, click **Next**.
  11. On the **Application Catalog** page, click **Next**.
  12. On the **Deployment Types** page, click **Add**.
  13. In the Create Deployment Type Wizard, on the **General** page, ensure that the **Automatically identify information about this deployment type from installation files** option is selected and that the type is set to **Windows Installer (\*.msi file)**.
  14. Click the **Browse** button.
  15. Navigate to [\\LON-CFG\Software\MSI\\_Files\WordViewer](\\LON-CFG\Software\MSI_Files\WordViewer), click **wordview.msi**, and then click **Open**.
  16. On the **General** page, click **Next**, and then in the warning message box, click **Yes**.
  17. On the **Import Information** page, click **Next**.
  18. On the **General Information** page, click **Next**.
  19. On the **Requirements** page, click **Add**.
  20. In the **Create Requirement** dialog box, click the **Category** drop-down list box, and then click **Device**.
  21. Click the **Condition** drop-down list box, and then click **Operating system**.
  22. In the **Operator** list, select the **Windows 10** check box.

23. In the **Create Requirement** dialog box, click **OK**.
24. On the **Requirements** page, click **Next**.
25. On the **Dependencies** page, click **Next**.
26. Review the **Summary** page, and then click **Next**.
27. On the **Completion** page of the Create Deployment Type Wizard, click **Close**.
28. On the **Deployment Types** page of the Create Application Wizard, click **Next**.
29. Review the **Summary** page, and then click **Next**.
30. On the **Completion** page, click **Close**.

### Exercise 3: Deploying applications

#### ► Task 1: Distribute applications

1. Click the **Microsoft Office Excel Viewer** application, hold down the **Ctrl** key, and then click the **Microsoft Office Word Viewer** application.
2. Right-click the **Microsoft Office Word Viewer** application, and then click **Distribute Content**.
3. In the Distribute Content Wizard, on the **General** tab, click **Next**.
4. On the **Content** page, click **Next**.
5. On the **Content Destination** page, click **Add**, and then click **Distribution Point**.
6. In the **Add Distribution Points** dialog box, select the **LON-CFG.ADATUM.COM** check box, and then click **OK**.
7. Click the **Summary** button.
8. On the **Summary** page, click **Next**.
9. On the **Completion** page, click **Close**.

#### ► Task 2: Deploy an available application

1. Click the **Microsoft Office Excel Viewer** application, and on the ribbon, in the **Deployment** section, click the **Deploy** button.

**Note:** Depending on the screen resolution of your system, the Deployment section may be collapsed into a button. If this is the case, click Deployment, and then click Deploy.

2. In the Deploy Software Wizard, on the **General** page, near **Collection**, click **Browse**.
3. In the **Select Collection** dialog box, click the **All Users** collection, and then click **OK**.
4. On the **General** page, click **Next**.
5. On the **Content** page, click **Next**.
6. On the **Deployment Settings** page, verify that the **Purpose** is set to **Available**, and then click **Next**.
7. On the **Scheduling** page, click **Next**.
8. On the **User Experience** page, click **Next**.
9. On the **Alerts** page, click **Next**.
10. On the **Summary** page, click **Next**.
11. On the **Completion** page, click **Close**.

#### ► Task 3: Deploy a required application

1. Right-click **Microsoft Office Word Viewer**, and then click **Deploy**.
2. In the Deploy Software Wizard, on the **General** page, next to the **Collection** box, click **Browse**.
3. In the **Select Collection** dialog box, in the **User Collections** drop-down list box, click **Device Collections**.
4. Click **All Desktop and Server Clients**, click **OK**, and then click **Next**.
5. On the **Content** page, click **Next**.
6. On the **Deployment Settings** page, in the **Purpose** list, click **Required**, and then click **Next**.
7. On the **Scheduling** page, under **Installation deadline**, select the **Schedule at** option, and in the **Date** list, select *tomorrow's date*. Change the **Time based on** to **Client local time**, and then click **Next**.
8. On the **User Experience** page, click **Next**.
9. On the **Alerts** page, click **Next**.
10. On the **Summary** page, click **Next**.
11. On the **Completion** page, click **Close**.

► Task 4: Monitor content distribution

1. In the System Center Configuration Manager console, in the **Monitoring** workspace, click **Deployments**.
2. In the preview pane, click the **Summary** tab, and then click the **Content Status** link.
3. After the console switches to the **Content Status** node, click **Microsoft Office Excel Viewer**.
4. In the preview pane, review the **Completion Statistics**. The distribution should be either **In Progress** or **Success**. Click the **View Status** link.
5. On the **Success** tab, under **Asset Details**, check to see if **LON-CFG.ADATUM.COM** is listed. If it is not listed, click **Refresh** until it displays.
6. Repeat steps 2 through 5 for **Microsoft Office Word Viewer**.

► Task 5: Install a required application

1. Switch to the LON-CL1 computer. Sign in as **Adatum\Pam** with the password of **Pa55w.rd**.
2. Right-click the **Start** button and click **Control Panel**, click **System and Security**, and then click **Configuration Manager**.
3. In the **Configuration Manager Properties** dialog box, on the **Actions** tab, click **Machine Policy Retrieval & Evaluation Cycle**, click **Run Now**, and then click **OK**.
4. On the **Actions** tab, click **Application Deployment Evaluation Cycle**, click **Run Now**, and then click **OK**.
5. In the **Configuration Manager Properties** dialog box, click **OK**.
6. Close the System and Security window.
7. Wait one minute for the policy to process. A notification that says **Software changes are required** will briefly appear.
8. Click the **Start** button, scroll down and expand **Microsoft System Center**, and then select **Software Center** underneath it.
9. Click the **Installation Status** tab. If the **Microsoft Office Word Viewer** application is not listed, refresh the screen. If the application still does not appear, repeat steps 2 through 7.
10. Click the **Microsoft Office Word Viewer** application, and review the Application Details on the **Installation Status** tab. Notice the properties that you created, such as the **Version** information and the **Description**.
11. Click **INSTALL**, and then monitor the **Status** column until the status changes to **Installed**. A notification that says **Software changes are required** will briefly appear.

► Task 6: Install an available application

1. In Software Center, click the **Installation Status** tab, click the **Open the Application Catalog web site** link, and if prompted, sign in as **Pam** with the password **Pa55w.rd**. Read the error message, and then open the same URL in Internet Explorer. To find Internet Explorer, click the **Start** button, and type **Internet**. Sign in as **Pam** with the password **Pa55w.rd**.
2. Maximize the Internet Explorer window showing the Application Catalog website. Click the **Microsoft Office Excel Viewer** application, and then click **INSTALL**.
3. If you see an **APPLICATION INSTALLATION** message box, click **Yes**. You may see a notification: **Your application installation has started**.
4. Close Internet Explorer and Microsoft Edge.
5. In the Software Center window, press the **F5** key, and then monitor the installation status of the Microsoft Office Excel Viewer installation.
6. In the **Software Center** dialog box, click **OK**.

**Note:** Be aware that the Software Center (installation complete notification) dialog box might open behind the Application Catalog webpage.

7. Verify that the Microsoft Office Excel Viewer application's **Installation status** has changed to **Installed**, and ensure that you complete this task before proceeding to the next task.
8. Sign out of LON-CL1.

► Task 7: Monitor application deployment

1. Switch to the LON-CFG computer.
2. In the System Center Configuration Manager console, in the **Monitoring** workspace, click **Deployments**.

3. Click **Microsoft Office Word Viewer**.
  4. On the ribbon, click **Run Summarization**. In the **Configuration Manager** message box, click **OK**, and then on the ribbon, click **Refresh**. Repeat this step until items appear in Status. This can take approximately five minutes.
  5. Review the information about application deployment completion in the **Completion Statistics** area.
  6. Click the **View Status** link.
  7. Review the information about application deployment status in the **Deployment Status** area.
  8. Repeat steps 3 through 7 for Microsoft Office Excel Viewer.
- Task 8: Prepare for the next lab
- When you finish the lab, keep the virtual machines running because you will need them for the next lab in this module.

## Lab B: Managing application supersedence and removal

- Exercise 1: Managing application supersedence
- Exercise 2: Uninstalling the Excel Viewer Application

### Logon Information

Virtual machines: **20703-1A-LON-DC1-B**  
**20703-1A-LON-CFG-B**  
**20703-1A-LON-CL1-B**

User name: **Adatum\Administrator**

Password: **Pa55w.rd**

Do not sign in to **20703-1A-LON-CL1-B** until instructed to in the lab.

Estimated Time: 30 minutes

### Lab: Managing application supersedence and removal Scenario

The managers at A. Datum Corporation have decided that the Microsoft Visio Viewer 2013 application should be available on all client systems in place of the Microsoft Word Viewer application. Additionally, you have decided that you should uninstall the Microsoft Excel Viewer in preparation for deploying the full version of Microsoft Excel.

### Exercise 1: Managing application supersedence

#### ► Task 1: Create a Microsoft Visio Viewer 2013 application

1. On LON-CFG, on the taskbar, click **Configuration Manager Console**.
2. Click the **Software Library** workspace, expand **Application Management**, and then click **Applications**.
3. Right-click **Applications**, and then click **Create Application**.
4. In the Create Application Wizard, on the **General** page, ensure that the **Automatically detect information about this application from installation files** option is selected and that the **Type** list displays **Windows Installer (\*.msi file)**, and then click **Browse**.
5. Navigate to [\\LON-CFG\Software\MSI Files\VisioViewer](#), click **vvviewer.msi**, and then click **Open**.
6. On the **General** page, click **Next**.
7. On the **Import Information** page, click **Next**.
8. On the **General Information** page, click **Next**.
9. On the **Summary** page, click **Next**.
10. On the **Completion** page, click **Close**.

► Task 2: Modify an existing application

1. On LON-CFG, click the **Software Library** workspace, expand the **Application Management** folder, and then click the **Applications** node.
2. Click the **Microsoft Visio Viewer 2013** application, and then on the ribbon, click **Properties**.
3. In the **Microsoft Visio Viewer 2013 Properties** dialog box, click the **Deployment Types** tab.
4. Click the **Microsoft Visio Viewer 2013 – Windows installer (\*.msi file)** deployment type, and then click **Edit**.
5. In the **Microsoft Visio Viewer 2013 – Windows installer (\*.msi file) Properties** dialog box, click the **Requirements** tab.
6. On the **Requirements** tab, click **Add**.
7. In the **Create Requirement** dialog box, click the **Category** drop-down list box, and then click **Device**.
8. Click the **Condition** drop-down list box, and then click **Operating system**.
9. In the **Operator** list, select the **Windows 10** check box.
10. In the **Create Requirement** dialog box, click **OK**.
11. In the **Microsoft Visio Viewer 2013 – Windows installer (\*.msi file) Properties** dialog box, click **OK**.
12. Click the **Supersedence** tab.
13. Click the **Add** button.
14. In the **Specify Supersedence Relationship** dialog box, click **Browse**.
15. In the **Choose Application** dialog box, click **Microsoft Office Word Viewer**, and then click **OK**.
16. In the **Specify Supersedence Relationship** dialog box, click the **New Deployment Type** drop-down list box, and then click **Microsoft Visio Viewer 2013 – Windows Installer (\*.msi file)**.
17. Select the **Uninstall** check box for the **Microsoft Office Word Viewer 2003 - Windows Installer (\*.msi file)** old deployment type, and then click **OK**.
18. In the **Microsoft Visio Viewer 2013 Properties** dialog box, click **OK**.
19. Right-click the **Microsoft Visio Viewer 2013** application, and then click **Revision History**.
20. In the **Application Revision History: Microsoft Visio Viewer 2013** dialog box, click **Revision 1**, and then click **View**.

**Note:** Notice that as you review the Microsoft Visio Viewer 2013 Properties, you cannot make changes.

21. In the **Microsoft Visio Viewer 2013 Properties** dialog box, click the **Supersedence** tab.

**Note:** The supersedence relationship is specified in the latest revision, not in the first revision.

22. Close the **Microsoft Visio Viewer 2013 Properties** dialog box and the **Application Revision History: Microsoft Visio Viewer 2013** dialog box.

► Task 3: Deploy the Visio Viewer 2013 application

1. Click **Microsoft Visio Viewer 2013**. On the ribbon, click **Deployment**, and then click the **Deploy** button.
2. In the Deploy Software Wizard, on the **General** page, near Collection, click **Browse**.
3. In the **Select Collection** dialog box, in the drop-down list box, click **Device Collections**, click the **All Desktops and Server Clients** collection, and then click **OK**.
4. On the **General** page, click **Next**.
5. On the **Content** page, click **Add**, and then click **Distribution Point**.
6. In the **Add Distribution Points** dialog box, select the **LON-CFG.ADATUM.COM** check box, and then click **OK**.
7. On the **Content** page, click **Next**.
8. On the **Deployment Settings** page, in the **Action** drop-down list box, click **Install**. In the **Purpose** drop-down list box, click **Required**, and then click **Next**.
9. On the **Scheduling** page, click **Next**.
10. On the **User Experience** page, click **Next**.
11. On the **Alerts** page, click **Next**.



12. On the **Summary** page, click **Next**.
  13. On the **Completion** page, click **Close**.
- Task 4: Test the deployment
1. Switch to LON-CL1. Sign in as **Adatum\Pam** with the password **Pa55w.rd**.
  2. Right-click the **Start** button and click **Control Panel**, click **System and Security**, and then click **Configuration Manager**.
  3. In the **Configuration Manager Properties** dialog box, on the **Actions** tab, click **Machine Policy Retrieval & Evaluation Cycle**, click **Run Now**, and then click **OK**.
  4. In the **Configuration Manager Properties** dialog box, click **OK**.
  5. Close the System and Security window.
  6. Wait one minute for the policy to process.
  7. You should see the Configuration Manager notification, **Downloading and installing software**. Wait for the **Installation Complete** message to display before continuing.
  8. Click the **Start** button. In the list of apps, scroll down and select **Microsoft System Center**, and then select **Software Center** underneath it.
  9. In the Software Center window, review the **Installation Status** tab. **Question:** What applications are available? What is the status of the applications?  
**Answer:** Microsoft Office Excel Viewer is displayed and has a status of Installed. Microsoft Visio Viewer 2013 is displayed and has a status of Installed. The Word Viewer application is not displayed.
  10. Close Software Center, and then sign out from LON-CL1.

## Exercise 2: Uninstalling the Excel Viewer Application

- Task 1: Delete the Excel Viewer deployment
1. Switch to LON-CFG. You should still be in the **Applications** node, under **Application Management**, in the **Software Library** workspace of the System Center Configuration Manager console.
  2. Click the **Microsoft Office Excel Viewer** application, and then in the preview pane, click the **Deployments** tab.
  3. Click the **All Users** deployment.
  4. On the ribbon, click **Delete**.
  5. In the **Configuration Manager** message box, click **Yes**.
  6. Click the **Deployment Types** tab, and then double-click the **Microsoft Office Excel Viewer – Windows Installer (\*.msi file)** deployment type.
  7. Click the **Requirements** tab, select the existing primary device requirement, and then click **Delete**.
  8. Click **OK** to close the properties dialog box.
  9. Right-click the deployment type **Microsoft Office Excel Viewer – Windows Installer (\*.msi file)** and then click **Update Content**.
  10. Read the message in the Configuration Manager pop-up window, and then click **Yes**.
- Task 2: Deploy the uninstall Excel Viewer application
1. Click **Microsoft Office Excel Viewer**.
  2. On the ribbon, click the **Home** tab, click **Deployment**, and then click the **Deploy** button.
  3. In the Deploy Software Wizard, on the **General** page, near Collection, click **Browse**.
  4. In the **Select Collection** dialog box, click the **All Users** collection, and then click **OK**.
  5. On the **General** page, click **Next**.
  6. On the **Content** page, click **Next**.
  7. On the **Deployment Settings** page, in the **Action** drop-down list box, click **Uninstall**, and then click **Next**.
  8. On the **Scheduling** page, click **Next**.
  9. On the **User Experience** page, click **Next**.
  10. On the **Alerts** page, click **Next**.
  11. On the **Summary** page, click **Next**.
  12. On the **Completion** page, click **Close**.
- Task 3: Test the deployment for the Adatum\Pam account
1. Switch to LON-CL1, and sign in as **Adatum\Pam** with the password **Pa55w.rd**.

2. Right-click the **Start** button and click **Control Panel**, click **System and Security**, and then click **Configuration Manager**.
3. In the **Configuration Manager Properties** dialog box, on the **Actions** tab, click **User Policy Retrieval & Evaluation Cycle**, click **Run Now**, and then click **OK**.
4. In the **Configuration Manager Properties** dialog box, on the **Actions** tab, click **Application Deployment Evaluation Cycle**, click **Run Now**, and then click **OK**.
5. In the **Configuration Manager Properties** dialog box, click **OK**.
6. Close the System and Security window.
7. Wait one minute for the policy to process.
8. If you see the notification window, you can click it to view the progress in **Software Center**.
9. Click the **Start** button. In the list of apps, scroll down and select **Microsoft System Center**, and then select **Software Center** underneath it.
10. In the Software Center window, on the **Installation Status** tab, review the information for the following question:  
**Question:** What applications are available? What is the status of the applications?  
**Answer:** Excel Viewer is displayed and has a status of not installed. (Depending on the timing, Excel Viewer may already be removed from the list, and it may no longer display). Microsoft Visio Viewer has a status of **Installed**.
11. Close Software Center, and then sign out from LON-CL1.

► Task 4: Prepare for the next lab

- When you finish the lab, keep the virtual machines running because you will need them for the next lab in this module.