

Lenovo  
**Device Intelligence**

# 2.2 - SCCM Guide

- Overview
- Use SCCM to Create CSV with Device Information
- Application and Deployment for UDC Config Files
  - Create the Application
  - Create the Deployment Type
- Application and Deployment Type for UDC Client
  - Create the Application
  - Create the Deployment Type
  - Distribute the Content to Distribution Points
- Deployment for UDC Client Install
- Deployment for UDC Client Uninstall
- Update UDC Client Application and Deployment

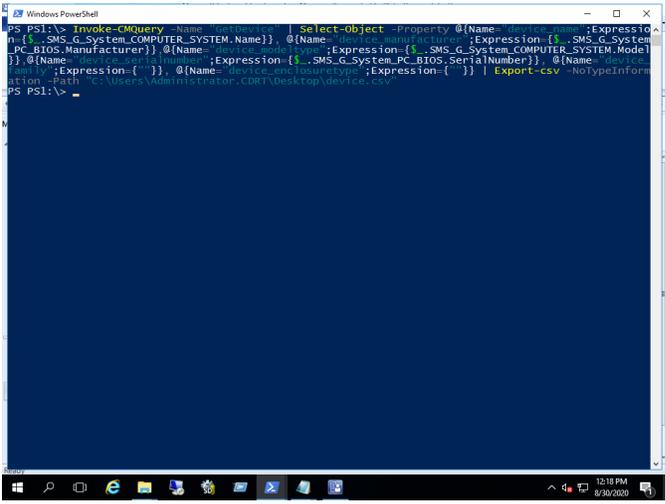
## Overview

This document describes how to use SCCM to manage UDC Client installation on devices in your organization.

## Use SCCM to Create CSV with Device Information

Use the following instructions to create a CSV containing device details for many devices. This CSV can be uploaded into the Lenovo Device Intelligence portal for bulk adding.

	Description	Depiction
1	<p>Write a SQL query to display the following information under <b>Monitoring &gt; Queries</b> workspace, or import the attached query (<b>Get-deviceinfo.mof</b>) provided by Lenovo as an example.</p> <ul style="list-style-type: none"> <li>• <i>Manufacturer</i></li> <li>• <i>SerialNumber</i></li> <li>• <i>SystemModel</i></li> <li>• <i>SystemName</i></li> </ul>	
2	<p>In the ribbon bar, click the blue button in the far left and choose <b>Connect via Windows PowerShell</b>.</p>	

3	<p>Then type the following:</p> <pre>Invoke-CMQuery -Name "GetDevice"   Select-Object -Property @{Name="device_name";Expression={\$_.SMS_G_System_COMPUTER_SYSTEM.Name}},@{Name="device_manufacturer";Expression={\$_.SMS_G_System_PC_BIOS.Manufacturer}},@{Name="device_modeltype";Expression={\$_.SMS_G_System_COMPUTER_SYSTEM.Model}},@{Name="device_category";Expression={"PC"}},@{Name="device_activation_code";Expression={" "}},@{Name="device_serialnumber";Expression={\$_.SMS_G_System_PC_BIOS.SerialNumber}},@{Name="device_family";Expression={" "}},@{Name="device_enclosuretype";Expression={" "}} -Unique   Export-Csv -NoTypeInformation -Path "&lt;Target location&gt;\device.csv"</pre>	
4	This <b>device.csv</b> is ready for <b>bulk add</b> .	

## Application and Deployment for UDC Config Files

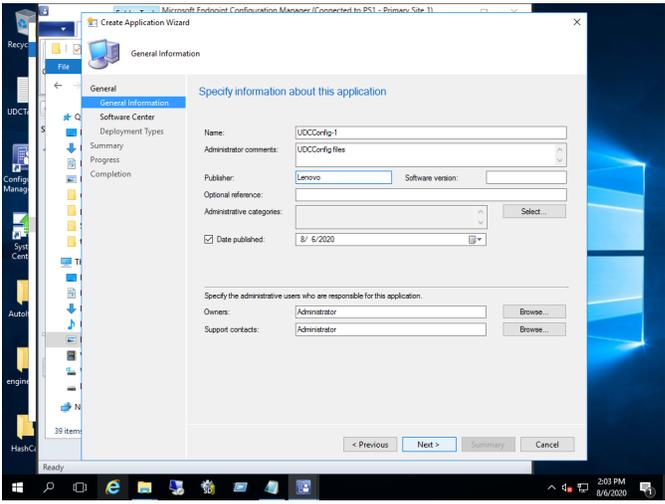
The following UDC Configuration files will need to be copied to the root drive on the client.

- configuration.json.signed
- devices.csv

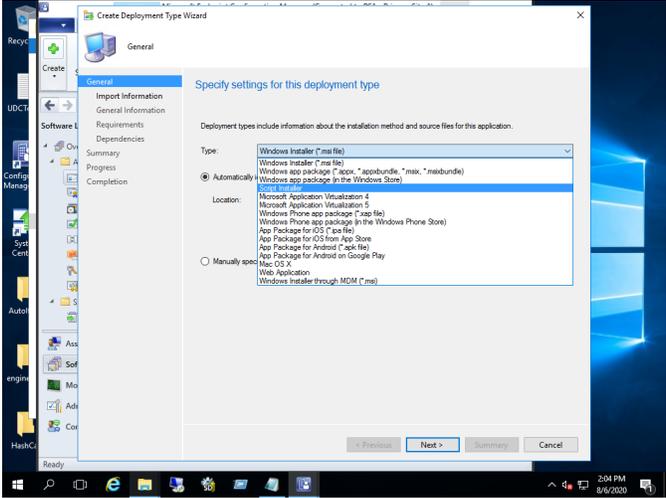
A ConfigMgr Application with a Script Installer Deployment Type will be created and added as a dependency to the **UDC Client** application. Detection rules are set to check if both files exist on the client before installing the UDC Client. If absent, the UDC Client will install and both configuration files will be copied to the specified location.

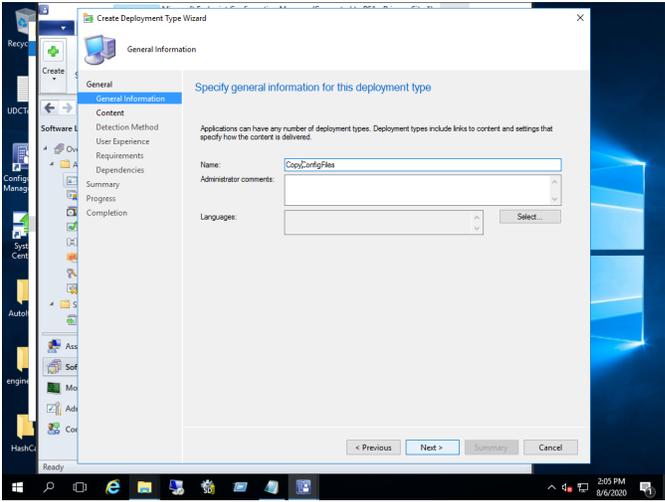
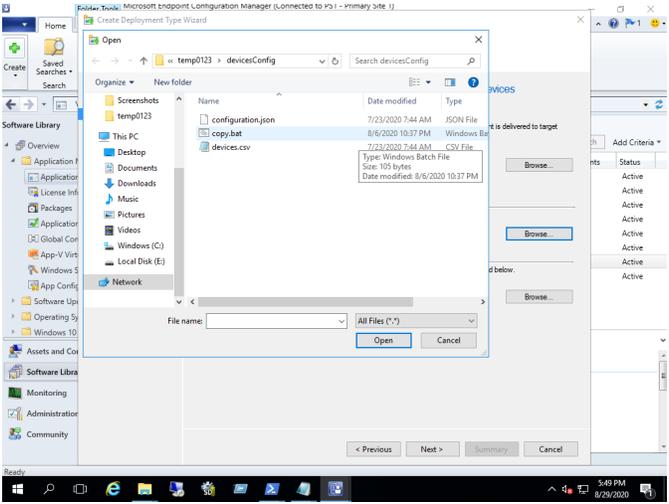
### Create the Application

	Description	Depiction
1	Unzip the " <b>devices.zip</b> " as " <b>devicesConfig</b> " folder and place in a source location where the computer account of the site server has read permissions.	
2	In the ConfigMgr console, go to the <b>Software Library</b> workspace, expand <b>Application Management</b> , and select the <b>Application</b> node.	
3	Click <b>Create Application</b> on the <b>Home</b> tab of the ribbon bar to start the wizard.	
4	Choose to <b>Manually specify the application information</b> , click <b>Next</b> .	

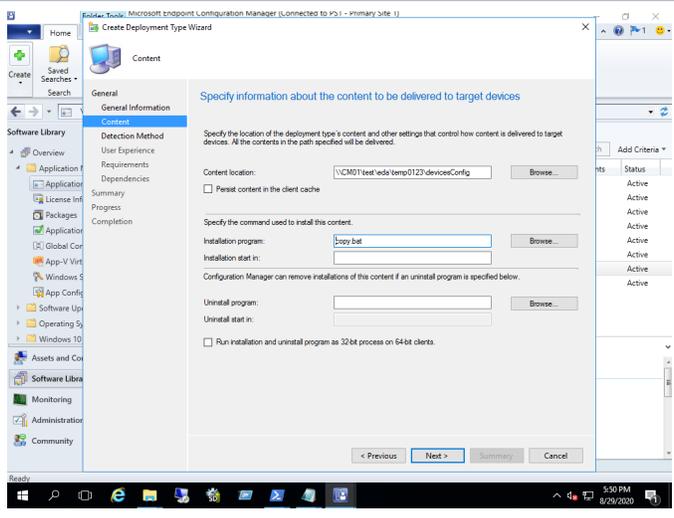
5	Provide a <b>Name</b> and any other information. Click <b>Next</b> .	
6	Provide information on how this app should be displayed in the Software Center. Click <b>Next</b> .	

### Create the Deployment Type

	Description	Depiction
1	Click <b>Add...</b> to start the Deployment Type wizard.	
2	Choose <b>Script Installer</b> from the drop down list. Click <b>Next</b> .	

<p>3 Provide a <b>Name</b>. Click <b>Next</b>.</p>	
<p>4 Specify the <b>Content Location</b> where the <b>devicesConfig</b> folder containing both configuration files resides.</p>	
<p>5 In the same <b>devicesConfig</b> folder, create a "copy.bat" to include the below 2 lines: Please ensure that the <b>signed</b> configuration file is copied</p> <pre>xcopy "%~dp0configuration.json.signed" "C:\\" /Y /E /C /Q /H /S xcopy "%~dp0devices.csv" "C:\\" /Y /E /C /Q /H /S</pre>	
<p>6 Provide "copy.bat" for the content in the <b>Installation program</b> field.</p>	

7 Click **Next**.



8 Configure the following detection rules (2 clauses):

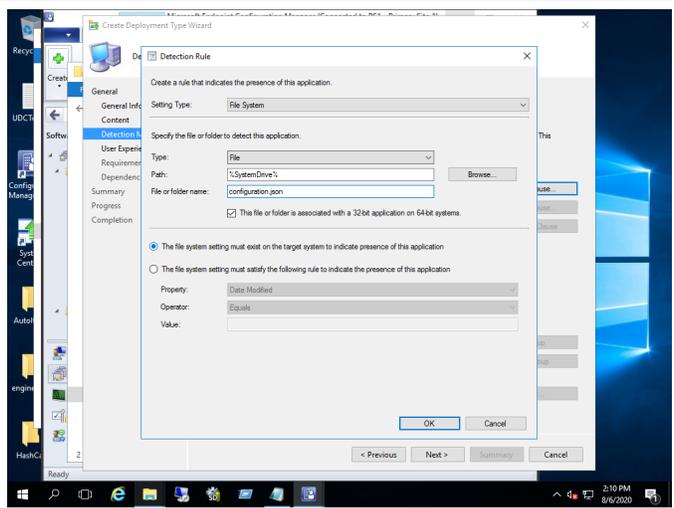
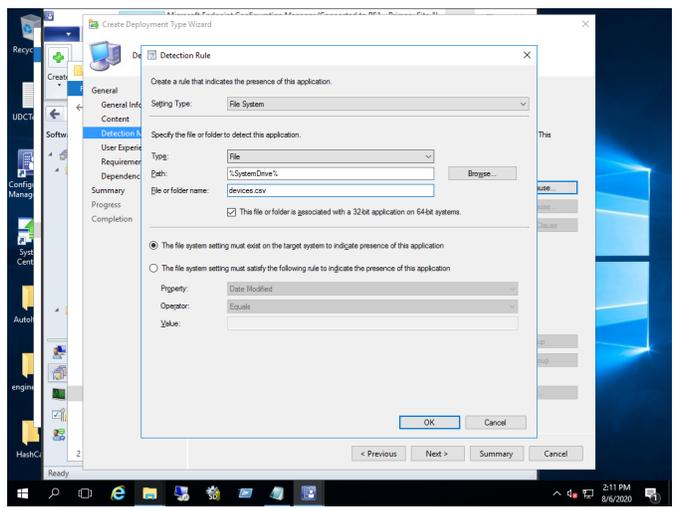
**configuration.json.signed**

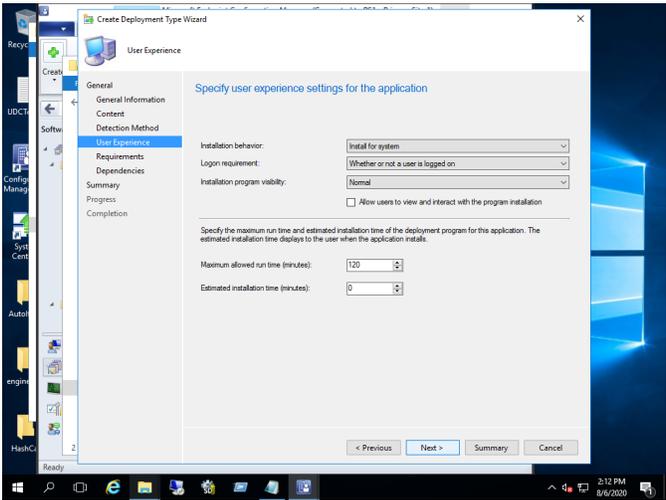
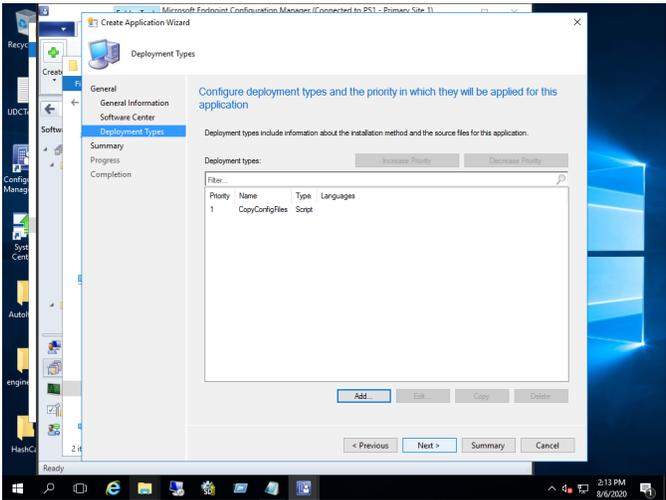
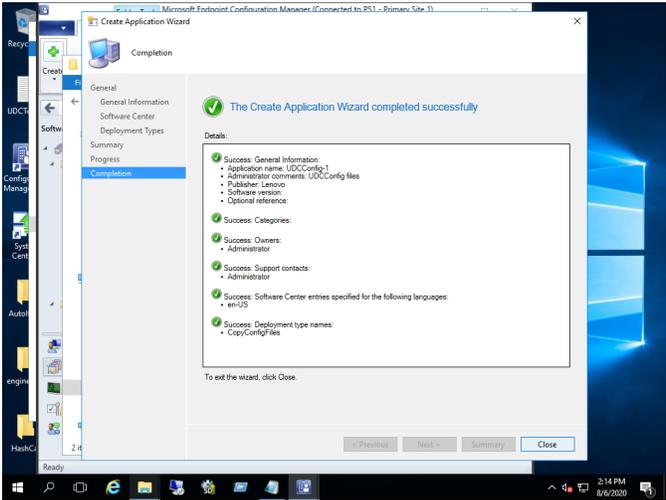
- Setting Type: **File System**
- Path: **%SystemDrive%**
- File or folder name: **configuration.json.signed**
- The file system setting must exist on the target system...

**Devices.csv**

- Setting Type: **File System**
- Path: **%SystemDrive%**
- File or folder name: **devices.csv**
- The file system setting must exist on the target system...

Click **OK**, click **Next**.

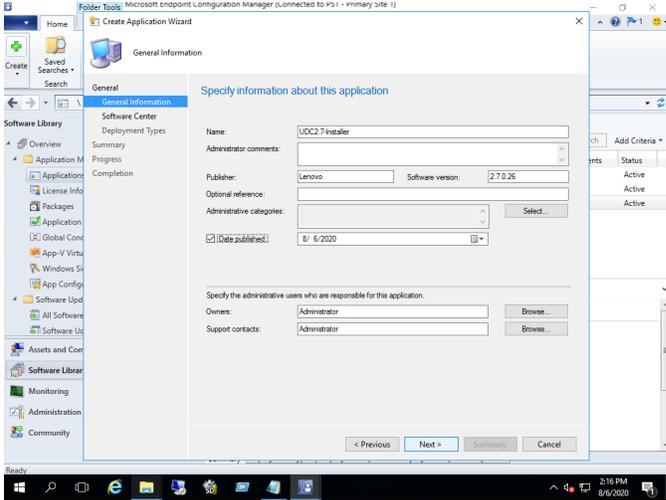



<p>9</p>	<p>Specify the following user experience settings</p> <ul style="list-style-type: none"> <li>• Installation Behavior: <b>Install for System</b></li> <li>• Logon requirement: <b>Whether or not a user is logged on</b></li> </ul>	
<p>10</p>	<p>Click <b>Next</b> through <b>Requirements</b></p>	
<p>11</p>	<p>Complete the rest of the wizard to create the application</p>	
<p>12</p>	<p>Distribute the content to Distribution Points.</p>	

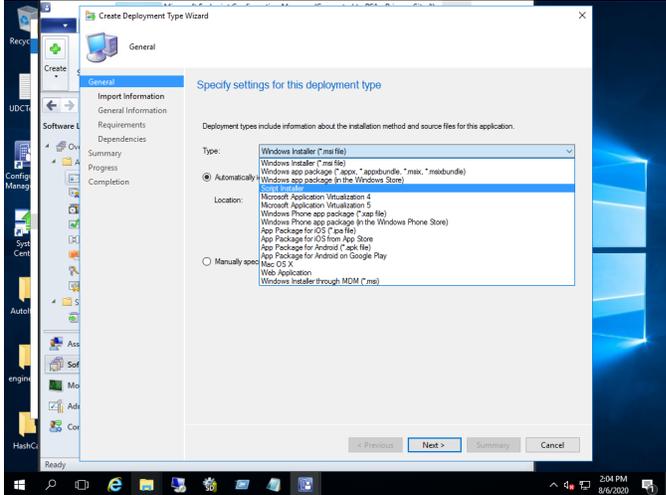
# Application and Deployment Type for UDC Client

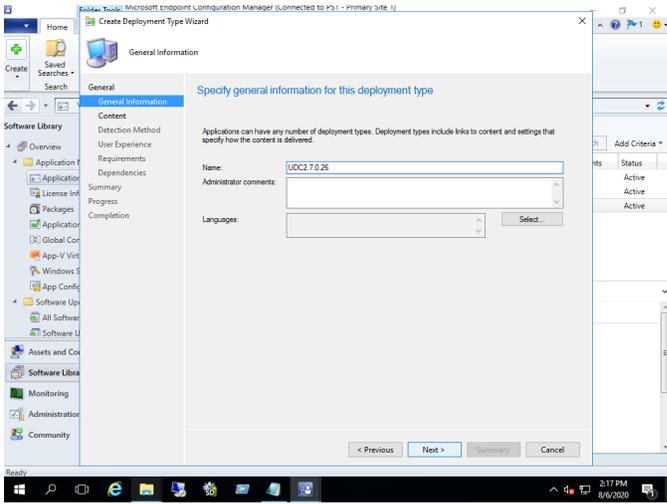
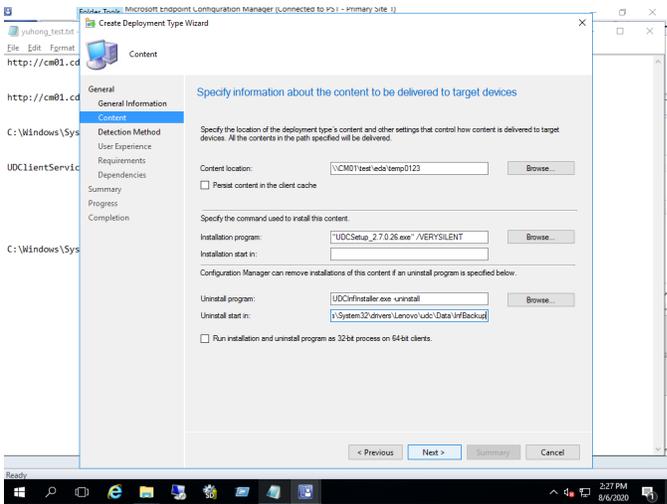
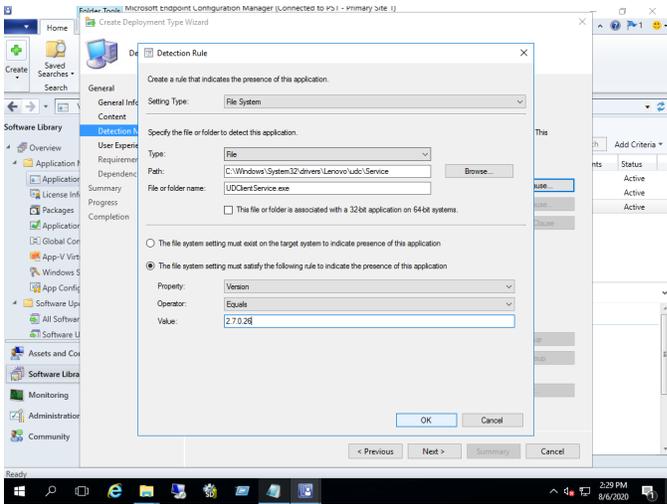
UDC Client Installer is provided as an executable and will be created as a ConfigMgr Application with a Script Installer Deployment Type.

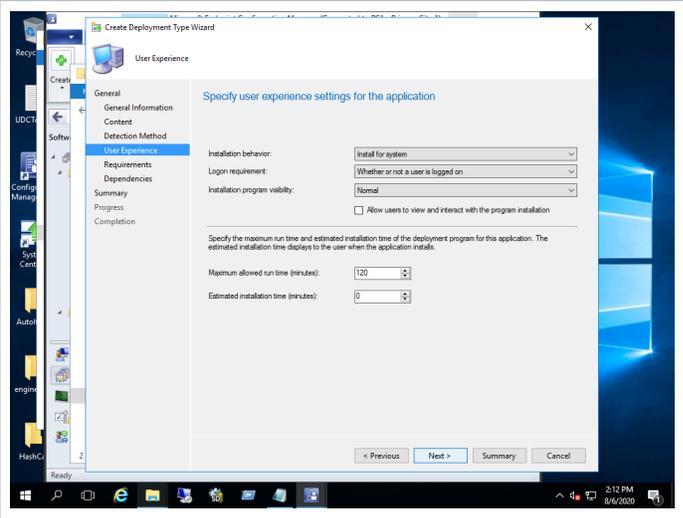
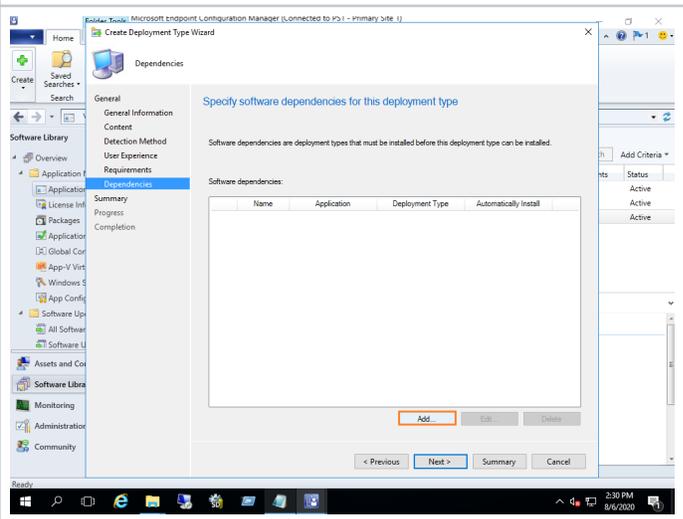
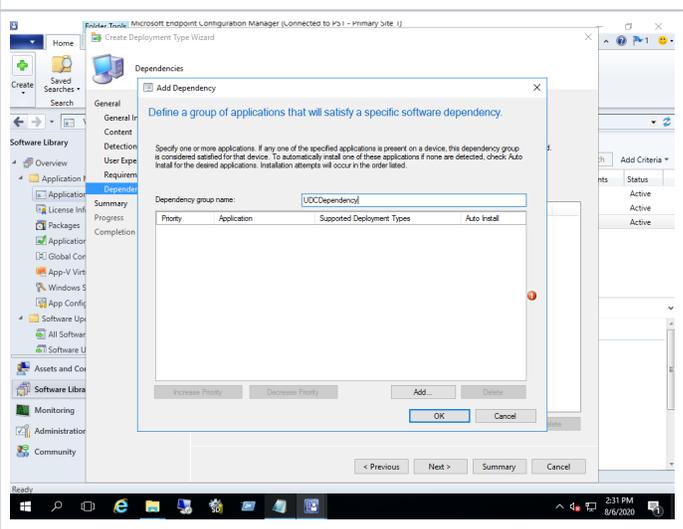
## Create the Application

	Description	Depiction
1	Copy the <b>UDCSetup.exe</b> to a source location where the computer account of the site server has read permissions.	
2	In the ConfigMgr console, go to the <b>Software Library</b> workspace, expand <b>Application Management</b> , and select the <b>Application</b> node.	
3	Click <b>Create Application</b> on the <b>Home</b> tab of the ribbon bar to start the wizard.	
4	Choose to <b>Manually specify the application information</b> , click <b>Next</b> .	
5	Provide a <b>Name</b> and any other information. Click <b>Next</b> .	
6	Provide information how this app should be displayed in Software Center. Click <b>Next</b> .	

## Create the Deployment Type

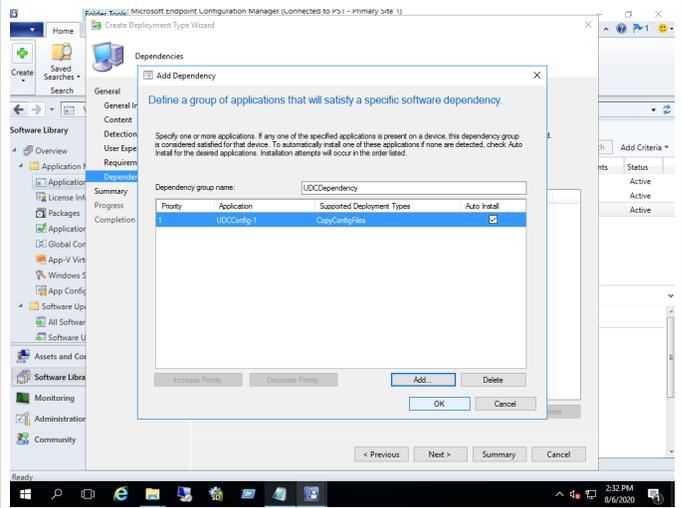
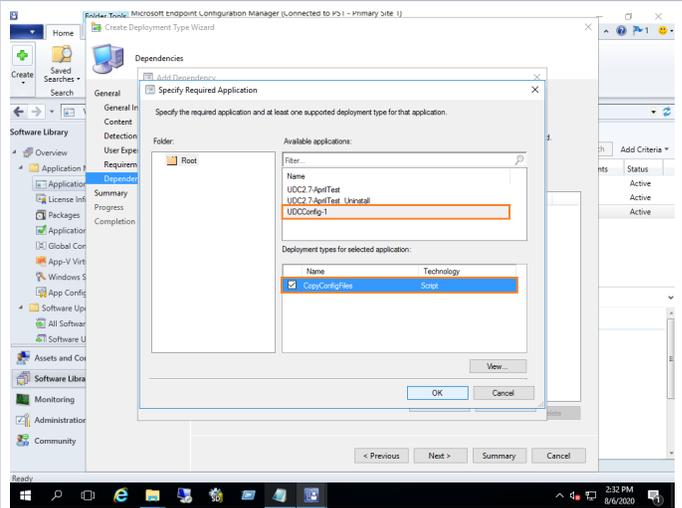
	Description	Depiction
1	Click <b>Add...</b> to start the Deployment Type wizard.	
2	Choose <b>Script Installer</b> from the drop-down list. Click <b>Next</b> .	

<p>3 Provide a <b>Name</b>. Click <b>Next</b>.</p>	
<p>4 Specify the <b>Content Location</b> where the <b>UDCSetup.exe</b> resides.</p> <p>5 Enter the command to install the content in the <b>Installation program</b> field.</p> <p><b>"UDCSetup.exe" /VERYSILENT</b></p> <p>Enter the command to uninstall the content in the <b>Uninstall program</b> field. (This will allow the deployment to uninstall UDC Client)</p> <p><b>UDCInfInstaller.exe -uninstall</b></p> <p>Uninstall start in: <b>C:</b> <b>Windows\System32\drivers\Lenovo\udc\Data\InfBackup</b></p> <p>Click <b>Next</b>.</p>	
<p>6 Configure the following detection rules:</p> <ul style="list-style-type: none"> <li>• Setting Type: <b>File System</b></li> <li>• Path: <b>C:\Windows\System32\drivers\Lenovo\udc\Service</b></li> <li>• File or folder name: <b>UDClientService.exe</b></li> <li>• <b>Untick This file or folder is associated with a 32-bit application on 64-bit systems.</b></li> </ul> <p>The file system must satisfy the following rule...</p> <ul style="list-style-type: none"> <li>• Property: <b>Version</b></li> <li>• Operator: <b>Equals</b></li> <li>• Value: <b>2.9.0.49</b> (Or whatever the current version of UDC is)</li> </ul> <p>Click <b>OK</b>, click <b>Next</b>.</p>	

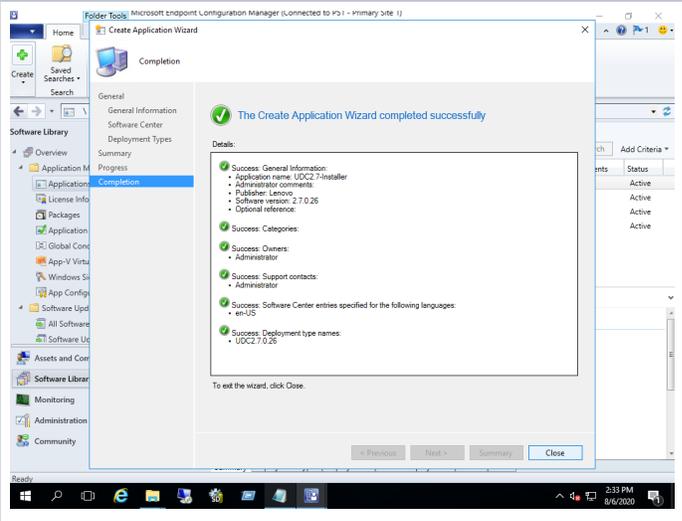
<p>7 Specify the following user experience settings</p> <ul style="list-style-type: none"> <li>• Installation Behavior: <b>Install for System</b></li> <li>• Logon requirement: <b>Whether or not a user is logged on</b></li> </ul> <p>Click <b>Next</b> through <b>Requirements</b>.</p>	
<p>8 Click <b>Add...</b> to add a software dependency.</p>	
<p>9 Specify a name for the dependency group.</p>	

10 Click **Add...** to add the application that was created for the UDC Configuration files.

Confirm **Auto-Install** is ticked.



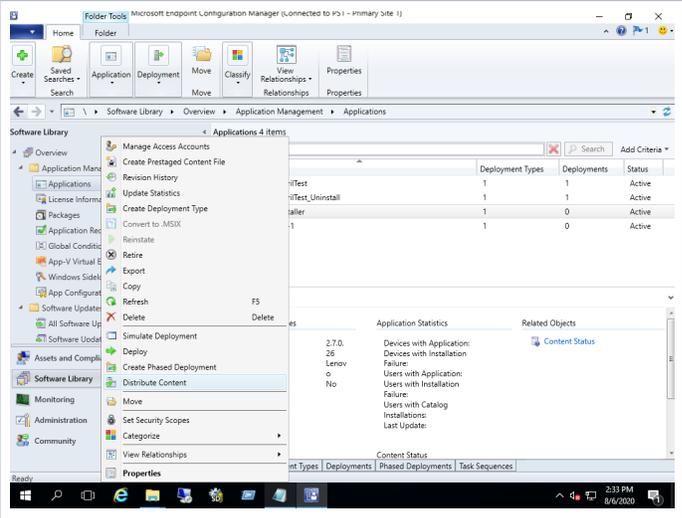
11 Complete the rest of the wizard to create the application.



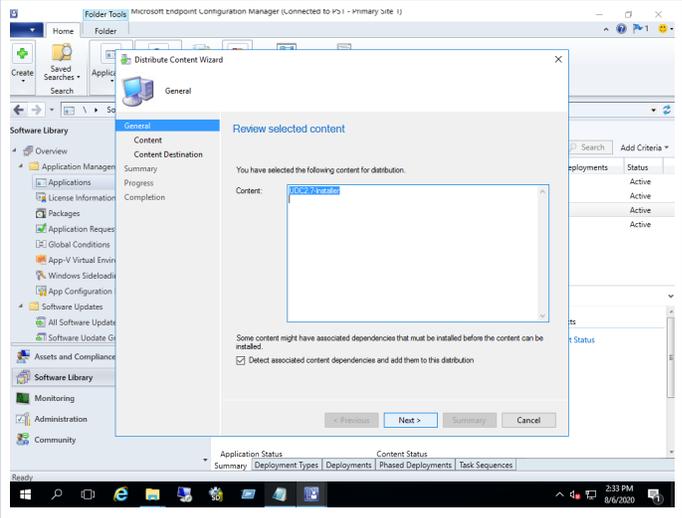
Distribute the Content to Distribution Points

Description	Depiction
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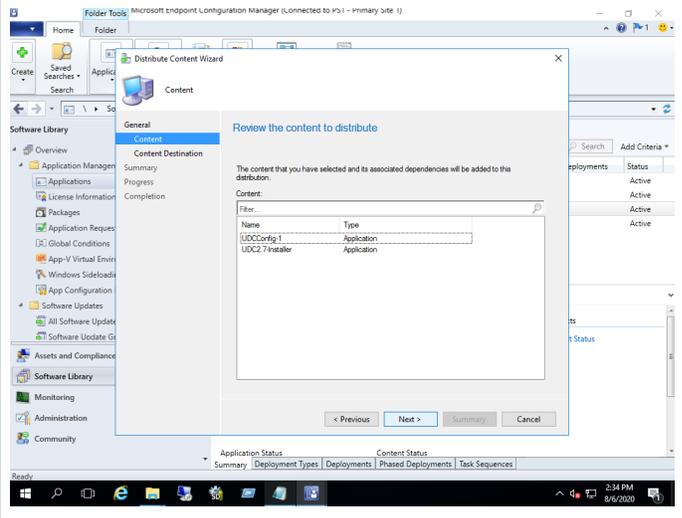
1 Right Click the "UDCxx Installer" Application created above, choose "Distribute Content"



2 Review selected content.



3 Review the content to distribute.

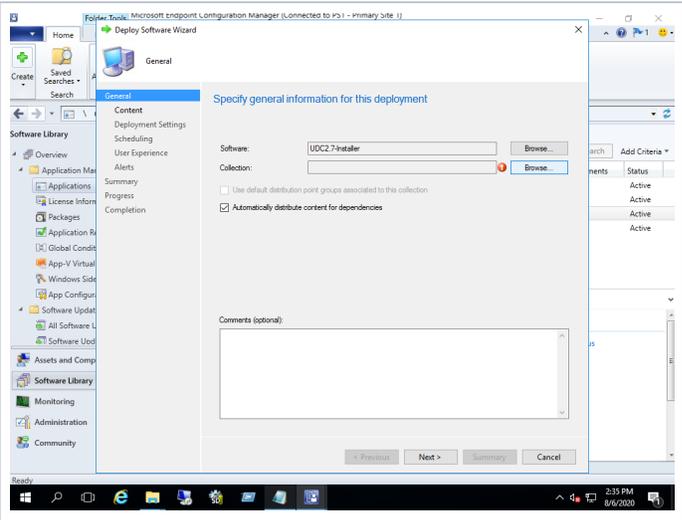
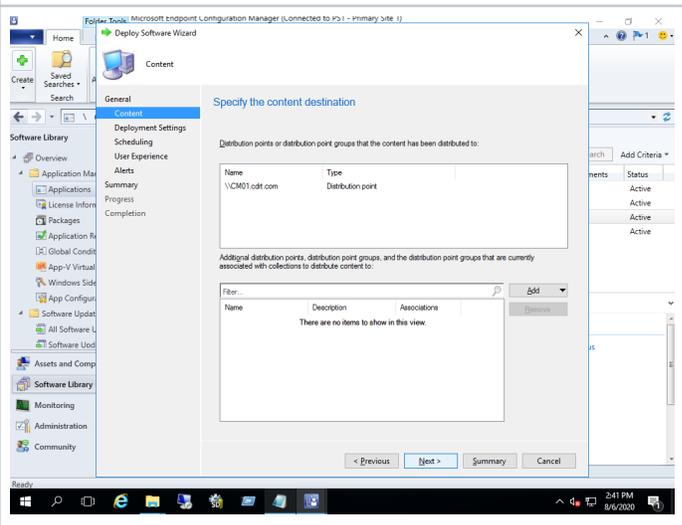
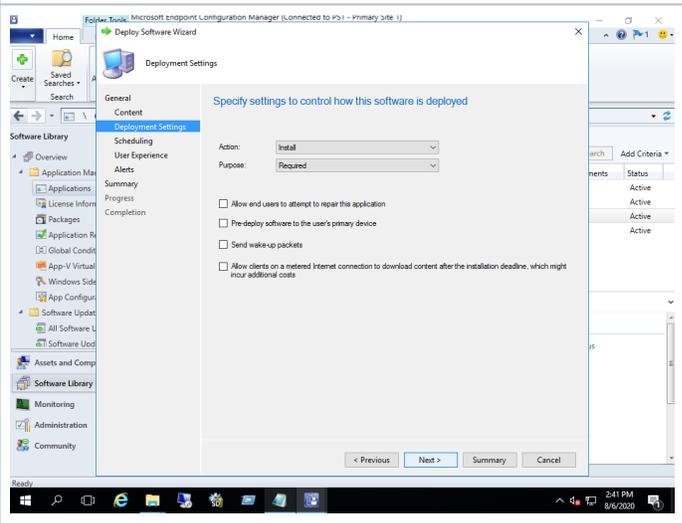


<p>4</p>	<p>Specify the content destination.</p>	
<p>5</p>	<p>Complete the rest of the wizard to create the application.</p>	

# Deployment for UDC Client Install

Deploy the Application to a Device Collection to install UDC client

<p>1</p>	<p><b>Description</b></p> <p>Right Click the new created "UDCxx Installer" Application, choose "Deploy"</p>	<p><b>Depiction</b></p>
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<p>2</p> <p><b>Browse to select collection, choose <b>Device Collection</b> to deploy</b></p> <ul style="list-style-type: none"> <li>• Check "<b>Automatically distribute content for dependencies</b>"</li> </ul>	
<p>3</p> <p>Specify the content destination</p>	
<p>4</p> <p>Specify settings to control how this software is deployed</p> <ul style="list-style-type: none"> <li>• Action: <b>Install</b></li> <li>• Purpose: <b>Required</b></li> </ul>	

5	Complete the rest of the wizard to create the application.	
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## Deployment for UDC Client Uninstall

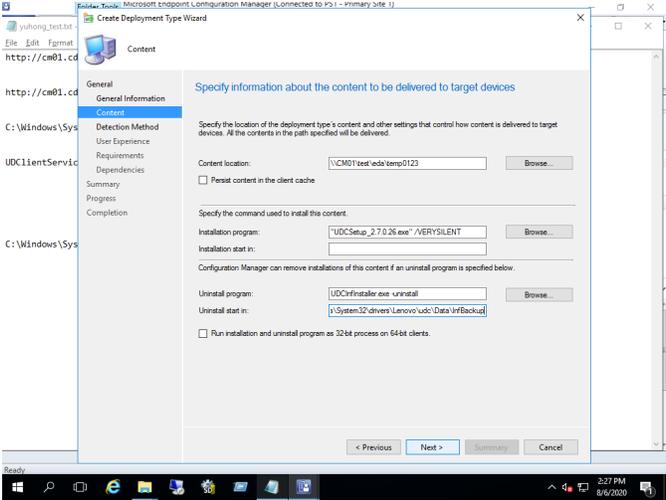
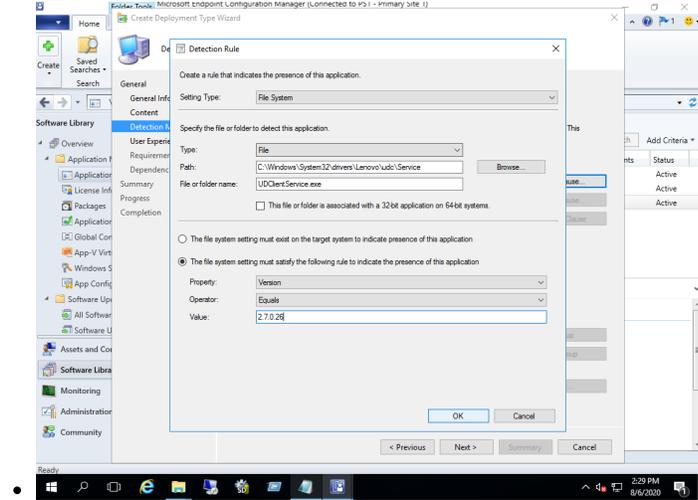
	Description	Depiction
1	<ul style="list-style-type: none"> <li>• <b>Right Click</b> the new created "UDCxx Installer" Application, choose <b>"Deploy"</b></li> </ul>	
2	<ul style="list-style-type: none"> <li>• <b>Browse to select collection</b>, choose <b>Device Collection</b> to deploy               <ul style="list-style-type: none"> <li>• Check <b>"Automatically distribute content for dependencies"</b></li> </ul> </li> </ul>	
3	Specify the content destination.	
4	Specify settings to control how this software is deployed <ul style="list-style-type: none"> <li>• Action: <b>Uninstall</b></li> <li>• Purpose: <b>Required</b></li> </ul>	
5	Complete the rest of the wizard to create the application.	

## Update UDC Client Application and Deployment

When a newer version of UDC Client is available for update, **delete the deployment of previous UDC Installer**.

For a software update of UDC on a device, it is not necessary to uninstall & reinstall UDC. Simply install the newer version.

Update the existing UDC Installer Application to latest version and save.

	Description	Depiction
1	Specify the <b>Content Location</b> where the <b>UDCSetup.exe</b> resides.	
2	<p>Enter the command to install the content in the <b>Installation program</b> field.</p> <p><b>"UDCSetup.exe" /VERYSILENT</b></p> <p>Enter the command to uninstall the content in the <b>Uninstall program</b> field. (This will allow the deployment to uninstall UDC Client)</p> <p><b>UDCInfInstaller.exe -uninstall</b></p> <p>Uninstall start in: <b>C: Windows\System32\drivers\Lenovo\udc\Data\InfBackup</b></p> <p>Click <b>Next</b>.</p>	
3	<p>Configure the following detection rules:</p> <ul style="list-style-type: none"> <li>Setting Type: <b>File System</b></li> <li>Path: <b>C: Windows\System32\drivers\Lenovo\udc\Service</b></li> <li>File or folder name: <b>UDClientService.exe</b></li> <li>Untick <b>This file or folder is associated with a 32-bit application on 64-bit systems</b>.</li> <li>The file system must satisfy the following rule... <ul style="list-style-type: none"> <li>Property: <b>Version</b></li> <li>Operator: <b>Equals</b></li> <li>Value: <b>2.9.0.49</b> (Use the desired version of UDC)</li> </ul> </li> </ul>	
4	Save and Close	
5	<b>Repeat the DEPLOYMENT FOR UDC CLIENT INSTALL</b> to deploy	