1. Application Management - Basic

|  |  |
| --- | --- |
| Computers used in  this Lab | ROUTER01  SRV0001  SRV0002 |
| More information | Introduction to application management in System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/apps/understand/introduction-to-application-management>  Create applications with System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/apps/deploy-use/create-applications> |
| Description | In this chapter, we will look at all steps required to create an application |

* 1. Creating Application

|  |
| --- |
| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Software Library. |
| 02. Expand Application Management and click Applications |
| 03. Click Create Application |
| 04. Under Specify settings for this application, use the following:   * Type: Windows Installer (\*.msi file) * Location: \\srv0001\TrainingFiles\Source\Chrome for Windows\googlechromestandaloneenterprise64.msi   Click Next |
| 05. Under Import Information, click Next |
| 06. Under General Information confirm that the Installation program has been populated with a silent command line and click Next |
| 07. Under Summary, click Next |
| 08. Under The Create Application Wizard completed successfully click Close |

This can also be achieved via PowerShell using the commands below:

$AppName = "Google Chrome"

New-CMApplication -Name "$AppName"

Add-CMMsiDeploymentType -ApplicationName "$AppName" -ContentLocation "\\srv0001\TrainingFiles\Source\Chrome for Windows\googlechromestandaloneenterprise64.msi" -DeploymentTypeName "Google Chrome - Windows Installer (\*.msi file)"

* 1. Adding Requirements to Applications

|  |
| --- |
| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Software Library. |
| 02. Expand Applications Management and click Applications |
| 03. Select the Google Chrome application and click Deployment Types tab at the bottom of the console |
| 04. Select the Deployment Type and click Properties |
| 05. Under Google Chrome - Windows Installer (\*.msi file) Properties, General tab, change to Requirements tab |
| 06. Under the requirement tab, click Add |
| 07. Under Create Requirement, select the following information:   * Category: Device * Condition: Operating System * Rule Type: Value * Operator: One of * Values: All Windows 10 (64-bit)   Click Ok twice |

This can also be achieved via PowerShell using the commands below:

. c:\TrainingFiles\Scripts\Add-CMDeploymentTypeGlobalCondition.ps1

$SiteCode = "001"

$dkserver = "SRV0002.classroom.intranet"

$AppName = "Google Chrome"

$DTName = "Google Chrome - Windows Installer (\*.msi file)"

Add-CMDeploymentTypeGlobalCondition -ApplicationName "$AppName" -DeploymentTypeName "$DTName" -sdkserver "$dkserver" -sitecode "$sitecode" -GlobalCondition OperatingSystem -Operator OneOf -Value "Windows/All\_x64\_Windows\_10\_and\_higher\_Clients"

* 1. Return Codes

|  |
| --- |
| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Software Library. |
| 02. Expand Applications Management and click Applications |
| 03. Select the Google Chrome application and click Deployment Types tab at the bottom of the console |
| 04. Select the Deployment Type and click Properties |
| 05. Under Google Chrome - Windows Installer (\*.msi file) Properties, General tab, change to Return Codes tab |
| 06. Under return codes, note that the list is already populated with the default return codes for the most common situations. Click Ok  Note: If the MSI app fails with an exit code in  {4, 5, 8, 13, 14, 39, 51, 53, 54, 55, 59, 64, 65, 67, 70, 71, 85, 86, 87, 112, 128, 170, 267, 999, 1003, 1203, 1219, 1220, 1222, 1231, 1232, 1238, 1265, 1311, 1323, 1326, 1330, 1618, 1622, 2250}, a retry will happen every 2 hours for up to 10 times. |

This can also be achieved via PowerShell using the commands below:

$AppName = "Google Chrome"

$DTName = "Google Chrome - Windows Installer (\*.msi file)"

([xml](Get-CMDeploymentType -ApplicationName "$AppName" -DeploymentTypeName "$DTName").SDMPackageXML).AppMgmtDigest.deploymenttype.installer.customdata.exitcodes.exitcode

* 1. Distributing Application Content to Distribution Point Group

|  |
| --- |
| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Software Library. |
| 02. Expand Application Management, Applications |
| 03. Select Google Chrome and click Distribute Content |
| 04. Under Review selected content click Next |
| 05. Under Review the content to distribute, click Next |
| 06. Under Specify the content destination, click Add Distribution Point Group |
| 07. Under Add-Distribution Point Groups, select Training Lab and click Ok. Once back to the Specify the content destination, click Next |
| 08. Under Confirm the settings, click Next |
| 09. Under The distribute content wizard completed successfully, click Close |

This can also be achieved via PowerShell using the commands below:

Start-CMContentDistribution -ApplicationName "Google Chrome" -DistributionPointGroupName "Training Lab"

* 1. Monitoring Application Content Distribution via Console

|  |
| --- |
| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Monitoring. |
| 02. Expand Distribution Status and click Content Status |
| 03. Select Google Chrome and verify the Completion Statistics. You can also view a break down when clicking View Status |
| 04. You can also review the following logs:   * C:\ConfigMgr\Logs\DistMgr.log: Records details about package creation, compression, delta replication, and information updates. * C:\ConfigMgr\Logs\PkgXferMgr.log: Records the actions of the SMS\_Executive component that is responsible for sending content from a primary site to a remote distribution point. |

This can also be achieved via PowerShell using the commands below:

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$AppName = "Google Chrome"

Get-CMDistributionStatus | Where-Object {$\_.SoftwareName -eq $AppName} | select Targeted, NumberErrors, NumberInProgress, NumberSuccess, NumberUnknown

* 1. Monitoring Application Content Distribution via Reports

|  |
| --- |
| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Monitoring. |
| 02. Expand Reporting, Reports and click Software Distribution – Content |
| 03. Select Application content distribution status and click Run |
| 04. Once the report opens, click Values, select Google Chrome application, click okand click View Report |

This can also be achieved via PowerShell using the commands below:

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$AppName = "Google Chrome"

#Open Report

Invoke-CMReport -ReportPath "Software Distribution - Content/Application content distribution status" -SiteCode "$SiteCode" -SrsServerName "$servername" -ReportParameter @{"Application Name"="$($AppName)"}