1. Application Management – App-V 5 Applications

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| Computers used in  this Lab | ROUTER01  SRV0001  SRV0002  WKS0001 |
| More information | Create App-V virtual environments in System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/apps/deploy-use/create-app-v-virtual-environments> |
| Description | In this chapter, we will look at all steps required to create an application that depends on some requirements |

* 1. Creating an Application App-V Client 5.0

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| 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. Select Application and Click Create Application |
| 04. Under Specify Settings for this application, select Manually specify the application information and click Next |
| 05. Under Specify information about this application type App-V Client 5.0 as Name and click Next |
| 06. Under Specify the Configuration Manager Application Catalog entry click Next |
| 07. Under Configure deployment types and the priority in which they will be applied for this application click Add |
| 08. Under Specify settings for this deployment type, select Script installer as type and click Next |
| 09. Under specify general information for this deployment type App-V client for Windows 8 x64 as Name and click Next |
| 10. Under Specify information about the content to be delivered to target devices, fill up the following information:   * Content location: \\srv0001\trainingfiles\source\App-V5 Client * Installation program: "appv\_client\_setup.exe" /q /ACCEPTEULA * Uninstall program: "appv\_client\_setup.exe" /UNINSTALL /q   Click Next |
| 11. Under Specify how this deployment type is detected, click Add Clause |
| 12. Under detection rule, fill up the following:   * Settings Type: Windows Installer * Product Code: {6313DBA3-0CA9-4CD8-93B3-373534146B7B}   Click Ok |
| 11. Under Specify how this deployment type is detected, click Add Clause |
| 13. Under detection rule, fill up the following:   * Settings Type: Registry * Hive: HKEY\_LOCAL\_MACHINE * Key: SOFTWARE\Microsoft\AppV\Client * Value: Version * Data Type: String * This registry setting must satisfy the following rule to indicate the presence of this application * Operator: Begins with * Value: 5.2   Click Ok and Once back to the specify how this deployment type is detected, change the connector from And to Or and click Next |
| 14. Under specify user experience settings for the application, fill up the following:   * Installation behaviour: Install for system * Logon requirement: Whether or not a user logged on   Click Next |
| 15. Under Specify installation requirements for this deployment type, click Add |
| 16. Under Create Requirement, select the following information:   * Category: Device * Condition: Operating System * Rule Type: Value * Operator: One of * Values: All Windows 8.1 (64-bit) and All Windows 10 (64-bit)   Click Ok and once back to the Specify installation requirements for this deployment type click Next |
| 17. Under specify software dependencies for this deployment type, click Next |
| 18. Under Confirm the settings for this deployment type, click Next |
| 19. Under The create Deployment Type Wizard completed successfully, click Close |
| 20. Once back to Create Application Wizard, click Next |
| 21. Under confirm the settings for this application, click Next |
| 22. Under The Create Application Wizard completed successfully, click Close |

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

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

. c:\TrainingFiles\Scripts\Set-CMDetectionRule.ps1

$SiteCode = "001"

$dkserver = "SRV0002.classroom.intranet"

$AppName = "App-V Client 5.0"

$DTName = "App-V client for Windows 8 x64"

$MSIProductCode = "{6313DBA3-0CA9-4CD8-93B3-373534146B7B}"

New-CMApplication -Name "$AppName"

Add-CMScriptDeploymentType -ApplicationName "$AppName" -DeploymentTypeName "$DTName" -InstallCommand '"appv\_client\_setup.exe" /q /ACCEPTEULA' -ProductCode "$MSIProductCode" -ContentLocation "\\srv0001\trainingfiles\source\App-V5 Client" -LogonRequirementType WhereOrNotUserLoggedOn -UninstallCommand '"appv\_client\_setup.exe" /UNINSTALL /q'

Get-CMDeploymentType -ApplicationName "$AppName" -DeploymentTypeName "$DTName" | Set-CMDeploymentType -MsiOrScriptInstaller -InstallationBehaviorType InstallForSystem

Add-CMDeploymentTypeGlobalCondition -ApplicationName "$AppName" -DeploymentTypeName "$DTName" -sdkserver "$dkserver" -sitecode "$sitecode" -GlobalCondition OperatingSystem -Operator OneOf -Value "Windows/All\_x64\_Windows\_8.1\_Client;Windows/All\_x64\_Windows\_10\_and\_higher\_Clients"

#using SetCMDetectionRule instead of Set-CMScriptDeploymentType with New-CMDetectionClauseRegistryKeyValue because it does not alow "or" with multiple checks

#$rule = New-CMDetectionClauseRegistryKeyValue -ExpectedValue 5.2 -ExpressionOperator BeginsWith -Hive LocalMachine -KeyName "SOFTWARE\Microsoft\AppV\Client" -PropertyType String -Value -ValueName Version -Is64Bit

#Set-CMScriptDeploymentType -ApplicationName $AppName -DeploymentTypeName $DTName -AddDetectionClause $rule

Set-CMDetectionRule -ApplicationName "$AppName" -DeploymentTypeName "$DTName" -CreateRegistryValidation -RegistryKey "SOFTWARE\Microsoft\AppV\Client" -RegistryKeyValue "Version" -RegistryKeyValidationValue "5.2" -CreateMSIValidation -MSIProductCode "$MSIProductCode"

* 1. Creating a Virtual Application Robocopy

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| 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. Select Application and Click Create Application |
| 04. Under Specify Settings for this application, select Microsoft Application Virtualization 5 as Type and \\srv0001\trainingfiles\Source\Robocopy App-V5\Robocopy.appv as Location and click Next |
| 05. Under View imported information, click Next |
| 06. Under Specify information about this application, click Next |
| 07. Under Confirm the settings for this application, click Next |
| 08. Under The create application wizard complete successfully, click Close |
| 09. Select the Robocopy application and click Deployment Types tab at the bottom of the console |
| 11. Select the Deployment Type and click Properties |
| 12. Under Robocopy – Microsoft Application Virtualization 5, change to Content tab |
| 13. On Content tab, under Select the deployment option to use when a client is connected with a fast (LAN) network boundary, change deployment options to Stream content from distribution point.  Change to the Requirements tab |
| 14. Under the requirement tab, click Add |
| 15. Under Create Requirement, select the following information:   * Category: Device * Condition: Operating System * Rule Type: Value * Operator: One of * Values: All Windows 8.1 (64-bit) and All Windows 10 (64-bit)   Click Ok and change to the Dependencies tab |
| 16. Under Dependencies, click Add |
| 17. Under Add Dependency, type App-V Client as Dependency group name and click Add |
| 18. Under Specify required application Select App-V Client 5.0 and check App-V Client for Windows 8 x64. Click Ok three times  Note: Once done, distribute the application content to DP Group and note that all requirements are also going to be distributed |

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

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

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$ParentAppName = "App-V Client 5.0"

$AppName = "Robocopy"

$DTName = "Robocopy - Microsoft Application Virtualization 5"

New-CMApplication -Name "$AppName"

Add-CMAppv5XDeploymentType -ApplicationName "$AppName" -ContentLocation "\\srv0001\trainingfiles\Source\Robocopy App-V5\Robocopy.appv" -DeploymentTypeName "$DTName" -FastNetworkDeploymentMode DownloadContentForStreaming

Get-CMDeploymentType -ApplicationName "$AppName" -DeploymentTypeName "$DTName" | New-CMDeploymentTypeDependencyGroup -GroupName "App-V Client" | Add-CMDeploymentTypeDependency -DeploymentTypeDependency (Get-CMDeploymentType -ApplicationName "$ParentAppName") -IsAutoInstall $true

Add-CMDeploymentTypeGlobalCondition -ApplicationName "$AppName" -DeploymentTypeName "$DTName" -sdkserver "$dkserver" -sitecode "$sitecode" -GlobalCondition OperatingSystem -Operator OneOf -Value "Windows/All\_x64\_Windows\_8.1\_Client;Windows/All\_x64\_Windows\_10\_and\_higher\_Clients"

Start-CMContentDistribution -ApplicationName "$AppName" -DistributionPointGroupName "Training Lab"

* 1. Visualizing Application Relationship

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| 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. Select Robocopy and click View Relationships -> Dependency |
| 04. The Robocopy Dependencies will open and you will be able to see all software dependencies |

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

. c:\TrainingFiles\Scripts\ShowDependentApplications\_v0\_9.ps1

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$AppName = "App-V Client 5.0"

ShowDependentApplications -ApplicationName "$AppName" -SiteCode "$SiteCode" -SiteServer "$servername"