1. Pre-Requirements

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| Computers used in  this Lab | SRV0001  SRV0002 |
| More information | Prepare Windows Servers to support System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/core/plan-design/network/prepare-windows-servers>  Log files in System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/core/plan-design/hierarchy/log-files> |
| Description | In this chapter, we will prepare the environment for the installation of the SCCM as well as register the default log viewer for CMTrace |

* 1. Installing .NET Framework 3.5

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Open Server Manager |
| 02. Click Manage and Add Roles and Features |
| 03. Before you begin, click Next |
| 04. Select Role-based or feature-based installation and click Next |
| 05. Select select a server from the server pool and select the server “SRV0002.classroom.intranet” and click Next |
| 06. Under select server roles, keep the default, and click Next |
| 07. Under features, expand .NET Framework 3.5 Features and select .NET Framework 3.5 (includes .NET 2.0 and 3.0). Click Next |
| 08. Under Confirm installation selections, click Specify an alternate source path |
| 09. Under Specify alternate source path, type \\srv0001\Trainingfiles\Source\WS2016\sources\sxs and click Ok. One back, Click Install |
| 10. Once the installation is succeeded. Click Close |

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

Get-WindowsFeature -Name Net-Framework-Core | Install-WindowsFeature -source '\\srv0001\Trainingfiles\Source\WS2016\sources\sxs'

* 1. Validating .NET Framework 4.6 Installation

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Open Server Manager |
| 02. Click Manage and Add Roles and Features |
| 03. Before you begin, click Next |
| 04. Select Role-based or feature-based installation and click Next |
| 05. Select select a server from the server pool and select the server “SRV0002.classroom.intranet” and click Next |
| 06. Under select server roles, keep the default, and click Next |
| 07. Under features, expand .NET Framework 4.6 Features and Confirm that .NET Framework 4.6 is installed. Click Cancel |

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

Get-WindowsFeature -Name NET-Framework-45-Features

* 1. Installing Microsoft Remote Differential Compression

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Open Server Manager |
| 02. Click Manage and Add Roles and Features |
| 03. Before you begin, click Next |
| 04. Select Role-based or feature-based installation and click Next |
| 05. Select select a server from the server pool and select the server “SRV0002.classroom.intranet” and click Next |
| 06. Under select server roles, keep the default, and click Next |
| 07. Under features, Select Remote Differential Compression. Click Next |
| 08. Under Confirm installation selections click Install |
| 09. Once the installation is succeeded. Click Close |

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

Get-WindowsFeature -Name RDC | Install-WindowsFeature

* 1. Installing Assessment and Deployment Kit (ADK) for Windows 10 1803

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Execute adksetup.exe (run as administrator) from \\srv0001\Trainingfiles\Source\AdkW10 |
| 02. Under Specify location, click Next |
| 03. Under Windows Kits Privacy, click Next |
| 04. Under License Agreement, click Accept |
| 05. Under Select the features you want to install only the following:   * Deployment Tools * Windows Preinstallation Environment (Windows PE) * Imaging and Configuration Designer (ICD) * Configuration Designer * User State Migration Tool (USMT)   Click Install |
| 06. Once the installation is completed, click Close |

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

Start-Process -Filepath ("\\srv0001\TrainingFiles\Source\AdkW10\adksetup.exe") -ArgumentList ("/quiet /ceip off /norestart /Features OptionId.DeploymentTools OptionId.WindowsPreinstallationEnvironment OptionId.ImagingAndConfigurationDesigner OptionId.ICDConfigurationDesigner OptionId.UserStateMigrationTool") -wait

* 1. Logs Reading

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Copy CMTrace.exe from \\srv0001\Trainingfiles\Source\SCCMCB\Extract\SMSSETUP\TOOLS to C:\Windows |
| 02. Execute C:\Windows\CMTrace.exe |
| 03. When asked Do you want to make this program the default viewer for log files?, click Yes. |
| 04. Close Configuration Manager Trace Log Tool  Note: Repeat the process on every machine that you want to read SCCM (or other) logfiles using CMTrace |

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

Copy-Item '\\srv0001\Trainingfiles\Source\SCCMCB\Extract\SMSSETUP\TOOLS\CMTrace.exe' 'C:\windows\cmtrace.exe'

$executecmtrace = "`"$($env:windir)\CMTrace.exe`" `"%1`""

New-PSDrive -Name HKCR -PSProvider Registry -Root HKEY\_CLASSES\_ROOT | Out-Null

New-Item -Path "hkcr:Local Settings\Software\Microsoft\Windows\Shell\MuiCache" -Force | Out-Null

Set-ItemProperty -Path "hkcr:Local Settings\Software\Microsoft\Windows\Shell\MuiCache" -Name ($env:windir + '\CMTrace.exe') -Value 'Configuration Manager Trace Log Tool' | Out-Null

New-Item -Path "hkcr:.lo\_" -Force | Out-Null

Set-ItemProperty -Path "hkcr:.lo\_" -Name '(Default)' -Value 'Log.File' | Out-Null

New-Item -Path "hkcr:.log" -Force | Out-Null

Set-ItemProperty -Path "hkcr:.log" -Name '(Default)' -Value 'Log.File' | Out-Null

New-Item -Path "hkcr:Log.File" -Force | Out-Null

New-Item -Path "hkcr:Log.File\Shell" -Force | Out-Null

New-Item -Path "hkcr:Log.File\Shell\Open" -Force | Out-Null

New-Item -Path "hkcr:Log.File\Shell\Open\Command" -Force | Out-Null

Set-ItemProperty -Path "hkcr:\Log.File\shell\open\command" -Name '(Default)' -Value $executecmtrace | Out-Null

New-Item -Path "hkcu:Software\Classes\Local Settings\Software\Microsoft\Windows\Shell\MuiCache" -Force | Out-Null

Set-ItemProperty -Path "hkcu:Software\Classes\Local Settings\Software\Microsoft\Windows\Shell\MuiCache" -Name ($env:windir + '\CMTrace.exe') -Value 'Configuration Manager Trace Log Tool' | Out-Null

New-Item -Path "hkcu:Software\Classes\.lo\_" -Force | Out-Null

Set-ItemProperty -Path "hkcu:Software\Classes\.lo\_" -Name '(Default)' -Value 'Log.File' | Out-Null

New-Item -Path "hkcu:Software\Classes\.log" -Force | Out-Null

Set-ItemProperty -Path "hkcu:Software\Classes\.log" -Name '(Default)' -Value 'Log.File' | Out-Null

New-Item -Path "hkcu:Software\Classes\Log.File" -Force | Out-Null

New-Item -Path "hkcu:Software\Classes\Log.File\Shell" -Force | Out-Null

New-Item -Path "hkcu:Software\Classes\Log.File\Shell\Open" -Force | Out-Null

New-Item -Path "hkcu:Software\Classes\Log.File\Shell\Open\Command" -Force | Out-Null

Set-ItemProperty -Path "hkcu:Software\Classes\Log.File\shell\open\command" -Name '(Default)' -Value $executecmtrace | Out-Null

Start-Process -Filepath ('C:\windows\cmtrace.exe')