1. Upgrade to Current Branch 1806

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| Computers used in  this Lab | ROUTER01  SRV0001  SRV0002 |
| More information | What's new in version 1806 of Configuration Manager  <https://docs.microsoft.com/en-us/sccm/core/plan-design/changes/whats-new-in-version-1806>  Install in-console updates for System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/core/servers/manage/install-in-console-updates>  Upgrade checklists  <https://docs.microsoft.com/en-us/sccm/core/servers/deploy/install/upgrade-to-configuration-manager>  Checklist for installing update 1806 for System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/core/servers/manage/checklist-for-installing-update-1806> |
| Description | In this chapter, we will be upgrading the existing installation (version 1802) to the latest (version 1806) and turning on some of the extra available features. |

* 1. Before you begin

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console |
| 02. if a new version is available, a message will appear with the text: A new update is available for Configuration Manager. You can view and enable available updates in the Administration workspace from the Cloud Services > Updates and Servicing node. |
| 03. Click Administration. |
| 04. Expand Cloud Services and then click Updates and Servicing  Note: All updates will be listed and in the State column, it will show as Available  Note: All downloaded files are going to be saved to C:\ConfigMgr\EasySetupPayload |
| 05. You can also review the following logs:   * ConfigMgr\Logs\Dmpdownloader.log: Records details on downloads from Microsoft and Intune. |

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

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$sccmversion = '1806'

$Update = Get-CMSiteUpdate -Name "Configuration Manager $($sccmversion)" -Fast | where {$\_.UpdateType -eq 0}

if ($update -eq $null) {

Write-Host "No update found for SCCM version $sccmversion, forcing check it now"

Invoke-CMSiteUpdateCheck

start-sleep 120

}

$Update = Get-CMSiteUpdate -Name "Configuration Manager $($sccmversion)" -Fast | where {$\_.UpdateType -eq 0}

if ($update -eq $null) {

Write-Host "ERROR: No update found for SCCM version $sccmversion" -ForegroundColor Red

} else {

if ($Update.State -eq 262146) {

Write-Host "Update found and ready to install"

} elseif ($Update.State -ne 262145) {

Write-Host "Update found, forcing download to start as soon as possbile"

Invoke-CMSiteUpdateDownload -Name "Configuration Manager $($sccmversion)" -Force

Write-host "Package in the queue to be downloaded"

} else {

Write-Host "Update being downloaded"

}

}

* 1. Run the prerequisite check

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Administration. |
| 02. Expand Cloud Services and then click Updates and Servicing |
| 03. Select Configuration Manager 1806 and click Run prerequisite check |
| 04. Click Monitoring |
| 05. Click Site Servicing Status |
| 06. Click Show Status to monitor the prerequisite check |
| 07. You can also review the errors and warnings by examining the content of the C:\ConfigMgrPrereq.log file |

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

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$sccmversion = '1806'

while ($true) {

$SiteUpdate = Get-CMSiteUpdate -Name "Configuration Manager $($sccmversion)" -Fast | where {$\_.UpdateType -eq 0}

if ($SiteUpdate -ne $null) {

if ($SiteUpdate.State -ne 262146) {

Write-Host "Update is in Downloading state..."

Start-Sleep 30

} else {

Write-Host "Update is ready, executing pre-req"

Invoke-CMSiteUpdatePrerequisiteCheck -Name "Configuration Manager $($sccmversion)"

break

}

}

}

* 1. Installing an Update

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Administration. |
| 02. Expand Cloud Services and then click Updates and Servicing |
| 03. Select Configuration Manager 1806 and click Install Update Pack |
| 04. On Configuration Manager Updates Wizard, click Next |
| 05. On Features, unselect all and click next  Note: We will enable see how to enable new features later |
| 06. On Options for Client Update, click Next |
| 07. On Review and accept the terms for this update pack, select I accept the license terms and Privacy statement and click Next |
| 08. On Summary, click Next |
| 09. On Completion, click Close  Note: The Installation will start, and it will take some time to complete (60-90 minutes depending on your hardware). The State of the update is now show as Installed |
| 10. Once the installation is completed, restart the console and the message “A new version of the console is available (5.00.8577.1100). Click ok to close the console and install the new version now. Click cancel to continue working with the old console (5.0.8498.1700). Working in the old console might corrupt data.”. Click Ok |
| 11. Once completed, the console will restart |
| 12. Click Administration. |
| 13. Expand Cloud Services and then click Updates and Servicing  Note: The State of the update is now show as Installed |
| 14. You can also review the following logs:   * C:\ConfigMgr\Logs\CMUpdate.log: Records details of the upgrade process. * C:\ConfigMgr\Logs\hman.log: Records information about site configuration changes, and the publishing of site information in Active Directory Domain Services. * C:\ConfigMgrAdminUISetup.log: SCCM console installation log |

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

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$sccmversion = '1806'

while ($true) {

$SiteUpdate = Get-CMSiteUpdate -Name "Configuration Manager $($sccmversion)" -Fast | where {$\_.UpdateType -eq 0}

if ($SiteUpdate -ne $null) {

if ($SiteUpdate.State -ne 131074) {

Write-Host "Pre-Check is still happening..."

Start-Sleep 30

} else {

Write-Host "Pre-Req done, starting update"

Install-CMSiteUpdate -Name $SiteUpdate.Name

Get-Process -Name Microsoft.ConfigurationManagement | Stop-Process

break

}

}

}

while ($true) {

$SiteUpdate = Get-CMSiteUpdate -Name "Configuration Manager $($sccmversion)" -Fast | where {$\_.UpdateType -eq 0}

if ($SiteUpdate -ne $null) {

if ($SiteUpdate.State -ne 196612) {

Write-Host "Installation is still happening..."

Start-Sleep 30

} else {

Write-Host "Installation done, upgrading SCCM Console"

$InstallationFolder = (Get-ItemProperty -Path "hklm:Software\Wow6432Node\Microsoft\ConfigMgr10\Setup" -ErrorAction SilentlyContinue)."UI Installation Directory"

$Connection = (Get-ItemProperty -Path "hklm:Software\Wow6432Node\Microsoft\ConfigMgr10\AdminUI\Connection" -ErrorAction SilentlyContinue)."Server"

if ($InstallationFolder -eq $null) {

$InstallationFolder = "C:\ConfigMgr\AdminConsole"

}

if ($InstallationFolder.Substring($InstallationFolder.Length-1) -eq '\') {

$InstallationFolder = $InstallationFolder.Substring(0, $InstallationFolder.Length-1)

}

if ($Connection -eq $null) {

$Connection = $servername

}

cd c:

Remove-Module ConfigurationManager -Force

Start-Process -Filepath ("C:\ConfigMgr\EasySetupPayload\$(($SiteUpdate | select PackageGuid).PackageGuid)\SMSSETUP\BIN\I386\consolesetup.exe") -ArgumentList ("/q TargetDir=`"$($InstallationFolder)`" DefaultSiteServerName=$($Connection)") -Wait

Start-Sleep 5

Start-Process -Filepath ("C:\ConfigMgr\AdminConsole\bin\Microsoft.ConfigurationManagement.exe")

$ModulePath = $env:SMS\_ADMIN\_UI\_PATH

if ($ModulePath -eq $null) {

$ModulePath = (Get-ItemProperty -Path "Registry::HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Environment").SMS\_ADMIN\_UI\_PATH

}

$ModulePath = $ModulePath.Replace("bin\i386","bin\ConfigurationManager.psd1")

$Certificate = Get-AuthenticodeSignature -FilePath "$ModulePath" -ErrorAction SilentlyContinue

$CertStore = New-Object System.Security.Cryptography.X509Certificates.X509Store("TrustedPublisher")

$CertStore.Open([System.Security.Cryptography.X509Certificates.OpenFlags]::MaxAllowed)

$Certexist = ($CertStore.Certificates | where {$\_.thumbprint -eq $Certificate.SignerCertificate.Thumbprint}) -ne $null

if ($Certexist -eq $false) {

$CertStore.Add($Certificate.SignerCertificate)

}

$CertStore.Close()

import-module $ModulePath -force

if ((get-psdrive $SiteCode -erroraction SilentlyContinue | measure).Count -ne 1) {

new-psdrive -Name $SiteCode -PSProvider "AdminUI.PS.Provider\CMSite" -Root $servername

}

cd "$($SiteCode):"

break

}

} else {

Write-Host "Installation is still happening..."

Start-Sleep 30

}

}

* 1. Turning on Features

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Administration. |
| 02. Expand Cloud Services, Updates and Servicing and then click Features |
| 03. Select Approve application requests for users per device and click Turn On |
| 04. On the Confirmation Manager question, click Yes. |
| 05. Restart the Configuration Manager Console |

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

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$FeatureName = "Approve application requests for users per device"

Get-CMSiteFeature -Name $FeatureName | Enable-CMSiteFeature -force

Get-Process -Name Microsoft.ConfigurationManagement | Stop-Process

start-sleep 10

Start-Process -Filepath ("C:\ConfigMgr\AdminConsole\bin\Microsoft.ConfigurationManagement.exe")