1. Site Roles for User Centric Management

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| Computers used in  this Lab | ROUTER01  SRV0001  SRV0002 |
| More information | Plan for and configure application management in System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/apps/plan-design/plan-for-and-configure-application-management>  Introduction to Application Management in Configuration Manager  <https://docs.microsoft.com/en-us/sccm/apps/understand/introduction-to-application-management>  Configure Software Center and the Application Catalog (Windows PCs only) <https://docs.microsoft.com/en-us/sccm/apps/plan-design/plan-for-and-configure-application-management#configure-software-center-and-the-application-catalog-windows-pcs-only> |
| Description | In this chapter, we will look at the infrastructure required to perform deployment to Users  **Note:** With SCCM 1806, Application Catalog roles are no longer needed to perform deployment to users as this function is now managed by the Software Center and Management Point. The Application Catalog roles are still required for the user to set his/her primary machine. More information at <https://docs.microsoft.com/en-us/sccm/core/plan-design/changes/whats-new-in-version-1806#software-center> |

* 1. Application Catalog WebService Role
     1. Creating Firewall Rules

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Open Windows Firewall with Advanced Security and click Inbound Rules |
| 02. Click New Rule |
| 03. On New Inbound Rule Wizard, select Port and click Next |
| 04. On Protocol and Ports select TCP and type 80 under specify local ports and click Next |
| 05. On Action, click Next |
| 06. On Profile, click Next |
| 07. On Name, type IIS Application Catalog WebService Point (TCP 80) Inbound and click Finish |
| 08. Click New Rule |
| 09. On New Inbound Rule Wizard, select Port and click Next |
| 10. On Protocol and Ports select TCP and type 443 under specify local ports and click Next |
| 11. On Action, click Next |
| 12. On Profile, click Next |
| 13. On Name, type IIS Application Catalog WebService Point (TCP 443) Inbound and click Finish |

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

New-NetFirewallRule -DisplayName "IIS Application Catalog WebService (TCP 80) Inbound" -Action Allow -Direction Inbound -LocalPort 80 -Protocol TCP

New-NetFirewallRule -DisplayName "IIS Application Catalog WebService (TCP 443) Inbound" -Action Allow -Direction Inbound -LocalPort 443 -Protocol TCP

* + 1. Install Requirements

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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, select Web Server (IIS) |
| 07. On Add Roles and Features Wizard, click Add Features and click Next |
| 08. Under Select Features, select .NET Framework 3.5 Features -> HTTP Activation |
| 09. On Add Roles and Features Wizard, click Add Features |
| 10. Under Select Features, select .NET Framework 3.5 Features -> non-HTTP Activation and click Next |
| 11. Under Select Features, select .NET Framework 4.6 Features -> WCF Services -> HTTP Activation |
| 12. On Add Roles and Features Wizard, click Add Features |
| 13. Under Web Server Role (IIS), click Next |
| 14. On Select role service, select Management Tools->IIS 6 Management Compatibility->IIS 6 Metabase Compatibility. Click Next Twice |
| 15. Under Confirm installation selections, click Install |
| 16. Once the installation is succeeded. Click Close |

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

@("Web-Server", "Web-Metabase", "Web-ASP-Net", "NET-WCF-HTTP-Activation45", "NET-HTTP-Activation", "NET-Non-HTTP-Activ") | Get-WindowsFeature | Install-WindowsFeature

* + 1. Installing Site System Role

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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 Site Configuration and click Servers and Site System Roles |
| 03. Right click \\SRV0002.classroom.intranet and click Add Site System Roles |
| 04. On Add Site System Roles Wizard, General, click Next |
| 05. Under proxy, click Next |
| 06. Under Specify roles for this server, select Application Catalog web service point and click Next |
| 07. Under Specify setting for the Application Catalog web service Point click Next |
| 08. Under Specify Settings to configure IIS for this Application Catalog WebService point click Next |
| 09. Under confirm the settings, click Next |
| 10. Under You have successfully completed the Add Site System Roles wizard with the following settings click close |
| 11. Click Monitoring |
| 12. Expand System Status and click Component Status |
| 13. Search for SMS\_AWEBSVC\_CONTROL\_MANAGER |
| 14. Right Click SMS\_AWEBSVC\_CONTROL\_MANAGER, Show Messages and click All |
| 15. Under Status Messages: Set Viewing Period, click OK |
| 16. Verify the existence of Message ID 1013, 1014, 1015 and 8102 |
| 17. Double click the message id 8102 message to see its details. Once done, click Ok |
| 18. Open Internet Explorer and navigate to http://SRV0002.classroom.intranet/CMApplicationCatalogSvc/ApplicationOfferService.svc |
| 19. You can also review the following logs:   * C:\ConfigMgr\Logs\SMSAWEBSVCSetup.log: Records the installation activities of the Application Catalog web service. * C:\ConfigMgr\Logs\awebsvcMSI.log: Records detailed installation information for the Application Catalog web service point site system role. * C:\ConfigMgr\Logs\awebsctl.log: Records monitoring activities for the Application Catalog web service point site system role. |

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

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

if ((Get-CMSiteSystemServer -SiteSystemServerName "$servername") -eq $null) { New-CMSiteSystemServer -SiteCode $SiteCode -UseSiteServerAccount -ServerName $servername }

Add-CMApplicationCatalogWebServicePoint -SiteSystemServerName "$ServerName" -PortNumber 80 -SiteCode $SiteCode -WebApplicationName "CMApplicationCatalogSvc" -WebsiteName "Default Web Site"

start-sleep 90

while ($true) {

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_AWEBSVC\_CONTROL\_MANAGER' and stmsg.MessageID = 1013 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_AWEBSVC\_CONTROL\_MANAGER 1013 id's"

break

} else { Start-Sleep 10 }

}

while ($true) {

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_AWEBSVC\_CONTROL\_MANAGER' and stmsg.MessageID = 1014 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_AWEBSVC\_CONTROL\_MANAGER 1014 id's"

break

} else { Start-Sleep 10 }

}

while ($true) {

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_AWEBSVC\_CONTROL\_MANAGER' and stmsg.MessageID = 1015 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_AWEBSVC\_CONTROL\_MANAGER 1015 id's"

break

} else { Start-Sleep 10 }

}

while ($true) {

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_AWEBSVC\_CONTROL\_MANAGER' and stmsg.MessageID = 500 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_AWEBSVC\_CONTROL\_MANAGER 500 id's"

break

} else { Start-Sleep 10 }

}

Start-Sleep 60

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_AWEBSVC\_CONTROL\_MANAGER' and stmsg.MessageID = 8100 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "ERROR: Found SMS\_AWEBSVC\_CONTROL\_MANAGER 8100 id's" -ForegroundColor Red

}

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_AWEBSVC\_CONTROL\_MANAGER' and stmsg.MessageID = 8102 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_AWEBSVC\_CONTROL\_MANAGER 8102 id's"

} else {

Write-Host "ERROR: SMS\_AWEBSVC\_CONTROL\_MANAGER 8102 id's NOT FOUND" -ForegroundColor Red

}

$web = New-Object -ComObject msxml2.xmlhttp

$url = "http://$($servername):80/CMApplicationCatalogSvc/ApplicationOfferService.svc"

while ($true) {

try {

$web.open('GET', $url, $false)

$web.send()

if ($web.status -eq "404") { start-sleep 10 }

if ($web.status -eq "200") {

Write-Host "Found CMApplicationCatalogSvc site"

break

}

if ($web.status -eq "500") {

Write-Host "ERROR: SMS\_AWEBSVC\_CONTROL\_MANAGER is returning error 500" -ForegroundColor

break

}

} catch {

#

}

}

* 1. Application Catalog WebSite Role
     1. Creating Firewall Rules

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| --- |
| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Open Windows Firewall with Advanced Security and click Inbound Rules |
| 02. Click New Rule |
| 03. On New Inbound Rule Wizard, select Port and click Next |
| 04. On Protocol and Ports select TCP and type 80 under specify local ports and click Next |
| 05. On Action, click Next |
| 06. On Profile, click Next |
| 07. On Name, type IIS Application Catalog WebSite Point (TCP 80) Inbound and click Finish |
| 08. Click New Rule |
| 09. On New Inbound Rule Wizard, select Port and click Next |
| 10. On Protocol and Ports select TCP and type 443 under specify local ports and click Next |
| 11. On Action, click Next |
| 12. On Profile, click Next |
| 13. On Name, type IIS Application Catalog WebSite Point (TCP 443) Inbound and click Finish |

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

New-NetFirewallRule -DisplayName "IIS Application Catalog WebSite (TCP 80) Inbound" -Action Allow -Direction Inbound -LocalPort 80 -Protocol TCP

New-NetFirewallRule -DisplayName "IIS Application Catalog WebSite (TCP 443) Inbound" -Action Allow -Direction Inbound -LocalPort 443 -Protocol TCP

* + 1. Install Requirements

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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, select Web Server (IIS) |
| 07. On Add Roles and Features Wizard, click Add Features and click Next |
| 08. Under Select Features, select .NET Framework 4.6 Features -> ASP.NET 4.6 and click Next |
| 12. Under Web Server Role (IIS), click Next |
| 10. On Select role service, select Security->Windows Authentication, Application Deployment->ISAP Extensions, Management Tools->IIS 6 Management Compatibility->IIS 6 Metabase Compatibility, Web Server -> Application Development -> ASP.NET 4.6 |
| 11. On Add Roles and Features Wizard, click Add Features and click Next |
| 12. Under Confirm installation selections, click Install |
| 13. Once the installation is succeeded. Click Close |

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

@("Web-Server", "Web-Metabase", "Web-ASP-Net", "Web-Windows-Auth") | Get-WindowsFeature | Install-WindowsFeature

* + 1. Installing Site System Role

|  |
| --- |
| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Administration. |
| 02. Expand Site Configuration and click Servers and Site System Roles |
| 03. Right click \\SRV0002.classroom.intranet and click Add Site System Roles |
| 04. On Add Site System Roles Wizard, General, click Next |
| 05. Under proxy, click Next |
| 06. Under Specify roles for this server, select Application Catalog website Point and click Next |
| 07. Under Specify Settings to configure IIS for this Application Catalog website point, select SRV0002.classroom.intranet under Site System Server and click Next |
| 08. Under Specify Customized Settings for this Application Catalog website point type Training Lab under Organization name and click Next |
| 09. Under confirm the settings, click Next |
| 10. Under You have successfully completed the Add Site System Roles wizard with the following settings click close |
| 11. Click Monitoring |
| 12. Expand System Status and click Component Status |
| 13. Search for SMS\_PORTALWEB\_CONTROL\_MANAGER |
| 14. Right Click SMS\_PORTALWEB\_CONTROL\_MANAGER, Show Messages and click All |
| 15. Under Status Messages: Set Viewing Period, click OK |
| 16. Verify the existence of Message ID 1013, 1014, 1015 and 8002  Note: This message can take some time to be generated. |
| 17. Double click the message id 8002 message to see its details. Once done, click Ok |
| 18. Open Internet Explorer and navigate to http://SRV0002.classroom.intranet/CMApplicationCatalog  Note: When connecting from a machine without Silverlight or a supported Browser, a warning message will be displayed  Note: If a Windows Security dialog box appears asking User name and password, you should add the website to the Intranet List on the Internet Explorer so users do not need to type their username/password when accessing the site |
| 19. You can also review the following logs:   * C:\ConfigMgr\Logs\SMSPORTALWEBSetup.Log: Records the installation activities of the Application Catalog website. * C:\ConfigMgr\Logs\portlwebMSI.log: Records the MSI installation activity for the Application Catalog website role. * C:\ConfigMgr\Logs\portlctl.log: Records the monitoring activities for the Application Catalog website point site system role. |

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

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$servernameNetbios = "SRV0002"

if ((Get-CMSiteSystemServer -SiteSystemServerName "$servername") -eq $null) { New-CMSiteSystemServer -SiteCode $SiteCode -UseSiteServerAccount -ServerName $servername }

Add-CMApplicationCatalogWebsitePoint -ApplicationWebServicePointServerName "$servername" -CommunicationType HTTP -SiteSystemServerName "$servername" -NetBiosName $servernameNetbios -OrganizationName "Training Lab" -Port 80 -SiteCode $SiteCode -WebApplicationName 'CMApplicationCatalog'

start-sleep 90

while ($true) {

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_PORTALWEB\_CONTROL\_MANAGER' and stmsg.MessageID = 1013 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_PORTALWEB\_CONTROL\_MANAGER 1013 id's"

break

} else { Start-Sleep 10 }

}

while ($true) {

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_PORTALWEB\_CONTROL\_MANAGER' and stmsg.MessageID = 1014 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_PORTALWEB\_CONTROL\_MANAGER 1014 id's"

break

} else { Start-Sleep 10 }

}

while ($true) {

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_PORTALWEB\_CONTROL\_MANAGER' and stmsg.MessageID = 1015 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_PORTALWEB\_CONTROL\_MANAGER 1015 id's"

break

} else { Start-Sleep 10 }

}

while ($true) {

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_PORTALWEB\_CONTROL\_MANAGER' and stmsg.MessageID = 500 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_PORTALWEB\_CONTROL\_MANAGER 500 id's"

break

} else { Start-Sleep 10 }

}

while ($true) {

$component = gwmi -Namespace ("root\sms\site\_$SiteCode") -query "select stmsg.\* from SMS\_StatMsg stmsg where stmsg.Component = 'SMS\_PORTALWEB\_CONTROL\_MANAGER' and stmsg.MessageID = 8002 and stmsg.SiteCode = '$SiteCode'"

if ($component -ne $null) {

Write-Host "Found SMS\_PORTALWEB\_CONTROL\_MANAGER 8002 id's"

break

} else { Start-Sleep 10 }

}

$web = New-Object -ComObject msxml2.xmlhttp

$url = "http://$($servername):80/CMApplicationCatalog"

while ($true) {

try {

$web.open('GET', $url, $false, "classroom\sccmadmin", 'Pa$$w0rd')

$web.send()

if ($web.status -eq "404") { start-sleep 10 }

if ($web.status -eq "200") {

Write-Host "Found CMApplicationCatalog site"

break

}

if ($web.status -eq "500") {

Write-Host "ERROR: SMS\_PORTALWEB\_CONTROL\_MANAGER is returning error 500" -ForegroundColor

break

}

} catch {

#

}

}