

INSTALLING SCCM 1511 Distribution Point

Created by Harvansh Singh

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Installing Distribution Point on SCCM 1511

By Harvansh Singh

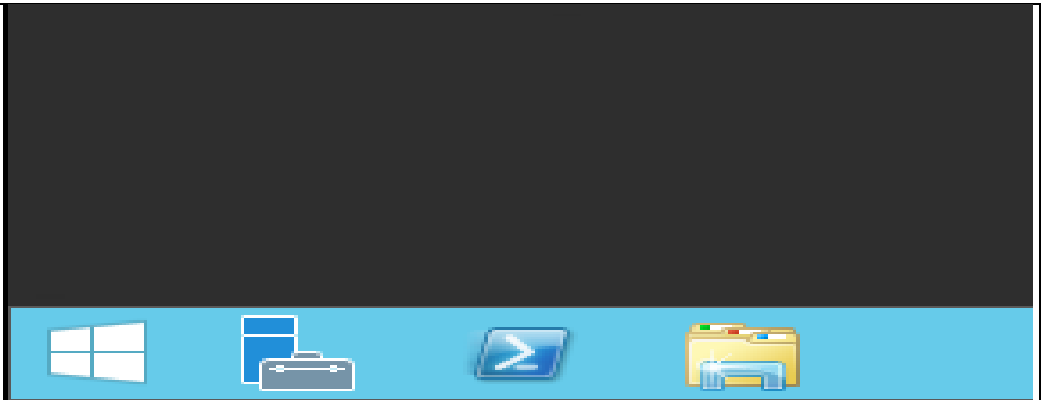
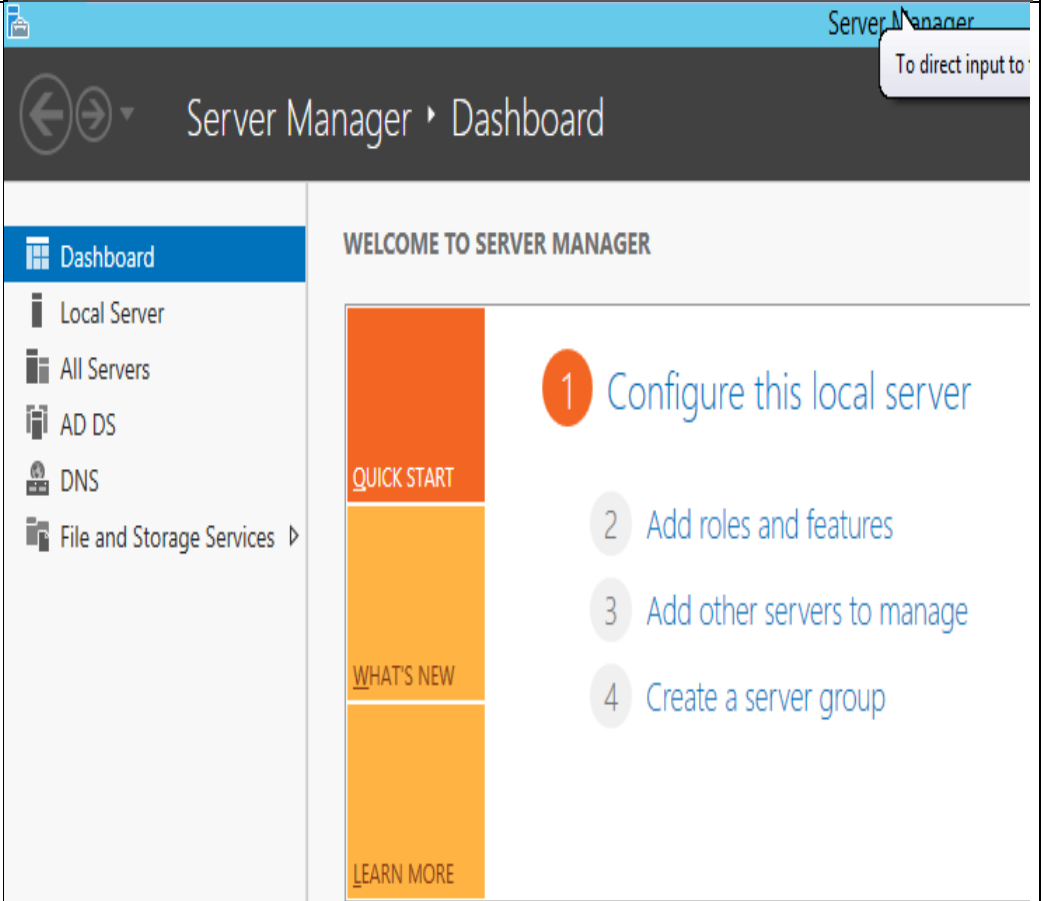
Thanks,
Harvansh Singh

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Pre-requisites

Add Features and rolls

Launch Server Manager	
Click on Add Roles and features.	

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On Before You Begin Click on Next.

The screenshot shows the 'Add Roles and Features Wizard' window. The title bar says 'Add Roles and Features Wizard'. The main heading is 'Before you begin'. On the right, it says 'DESTINATION SERVER SCCMSS.lab.com'. On the left, there is a list of steps: 'Before You Begin' (selected), 'Installation Type', 'Server Selection', 'Server Roles', 'Features', 'Confirmation', and 'Results'. The main content area contains the following text: 'This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.' Below this, it says 'To remove roles, role services, or features: Start the Remove Roles and Features Wizard'. Then, it says 'Before you continue, verify that the following tasks have been completed:' followed by a bulleted list: '• The Administrator account has a strong password', '• Network settings, such as static IP addresses, are configured', and '• The most current security updates from Windows Update are installed'. Below the list, it says 'If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.' and 'To continue, click Next.' At the bottom, there is a checkbox labeled 'Skip this page by default' and a set of navigation buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

On Installation Type Screen Select **Role-Based or Feature-based installation** and click on Next

The screenshot shows the 'Add Roles and Features Wizard' window. The title bar says 'Add Roles and Features Wizard'. The main heading is 'Select installation type'. On the right, it says 'DESTINATION SERVER SCCMSS.lab.com'. On the left, there is a list of steps: 'Before You Begin', 'Installation Type' (selected), 'Server Selection', 'Server Roles', 'Features', 'Confirmation', and 'Results'. The main content area contains the following text: 'Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).' Below this, there are two radio button options: '• Role-based or feature-based installation' (selected) with the description 'Configure a single server by adding roles, role services, and features.' and '• Remote Desktop Services installation' with the description 'Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.' At the bottom, there is a set of navigation buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

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On Server Selection Screen **Select a server from the server pool** and Click on Next.

The screenshot shows the 'Add Roles and Features Wizard' window. The title bar says 'Add Roles and Features Wizard'. The main heading is 'Select destination server'. In the top right corner, it says 'DESTINATION SERVER SCCMSS.lab.com'. On the left, there is a navigation pane with the following items: 'Before You Begin', 'Installation Type', 'Server Selection' (which is highlighted), 'Server Roles', 'Features', 'Confirmation', and 'Results'. The main area contains the text 'Select a server or a virtual hard disk on which to install roles and features.' Below this, there are two radio buttons: 'Select a server from the server pool' (which is selected) and 'Select a virtual hard disk'. Under the 'Server Pool' section, there is a 'Filter:' text box. Below that is a table with the following columns: 'Name', 'IP Address', and 'Operating System'. The table contains one row: 'SCCMSS.lab.com', '10.20.24.118', and 'Microsoft Windows Server 2012 R2 Standard Evaluation'. Below the table, it says '1 Computer(s) found'. A descriptive paragraph follows: 'This page shows servers that are running Windows Server 2012, and that have been added by using the Add Servers command in Server Manager. Offline servers and newly-added servers from which data collection is still incomplete are not shown.' At the bottom, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

On **Server roles** page, **Select Web Server (IIS)** and Services. Click on Next to continue.

The screenshot shows the 'Add Roles and Features Wizard' window. The title bar says 'Add Roles and Features Wizard'. The main heading is 'Select server roles'. In the top right corner, it says 'DESTINATION SERVER SCCMSS.lab.com'. On the left, there is a navigation pane with the following items: 'Before You Begin', 'Installation Type', 'Server Selection', 'Server Roles' (which is highlighted), 'Features', 'Web Server Role (IIS)', 'Role Services', 'Confirmation', and 'Results'. The main area contains the text 'Select one or more roles to install on the selected server.' Below this, there is a list of roles. The 'Roles' section has a list box with the following items: 'Application Server', 'DHCP Server', 'DNS Server', 'Fax Server', 'File and Storage Services (1 of 12 installed)', 'Hyper-V', 'Network Policy and Access Services', 'Print and Document Services', 'Remote Access', 'Remote Desktop Services', 'Volume Activation Services', 'Web Server (IIS)' (which is selected), 'Windows Deployment Services', 'Windows Server Essentials Experience', and 'Windows Server Update Services'. To the right of the list box, there is a 'Description' section with the text: 'Web Server (IIS) provides a reliable, manageable, and scalable Web application infrastructure.' At the bottom, there are four buttons: '< Previous', 'Next >', 'Install', and 'Cancel'.

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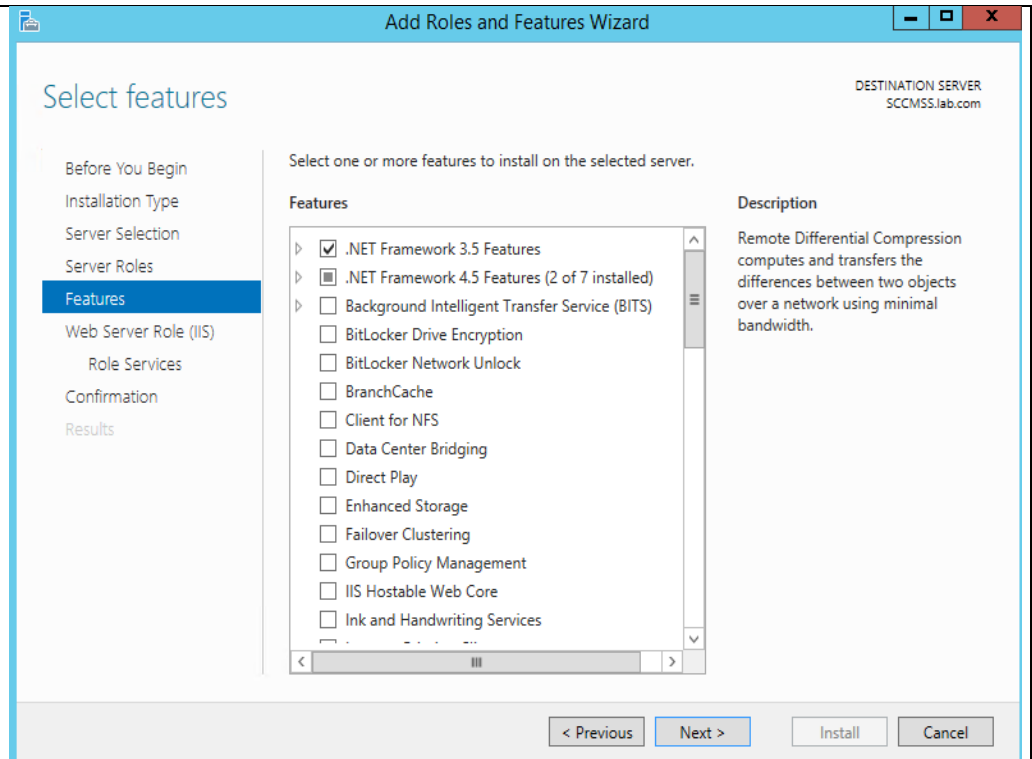
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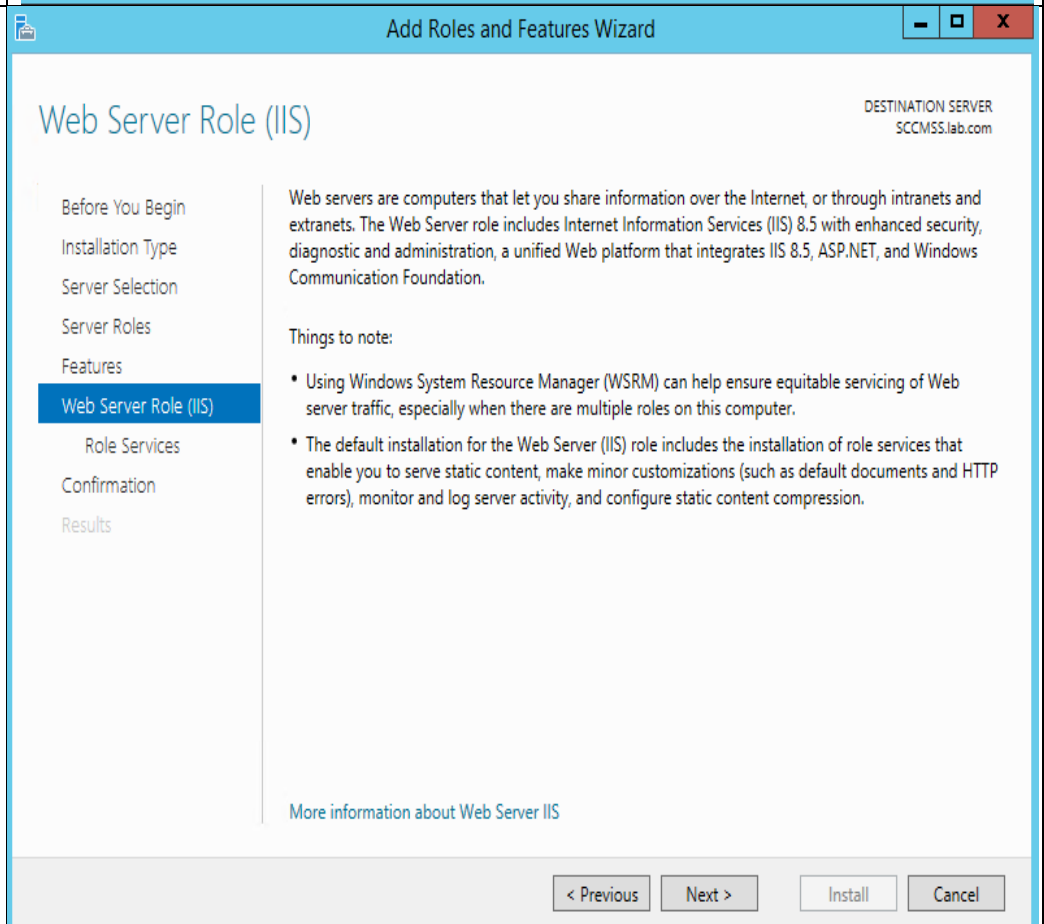
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In Features tab, select

Remote differential compression
and Click on Next to continue IIS



Click on Next.



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Select below mention features.

IIS

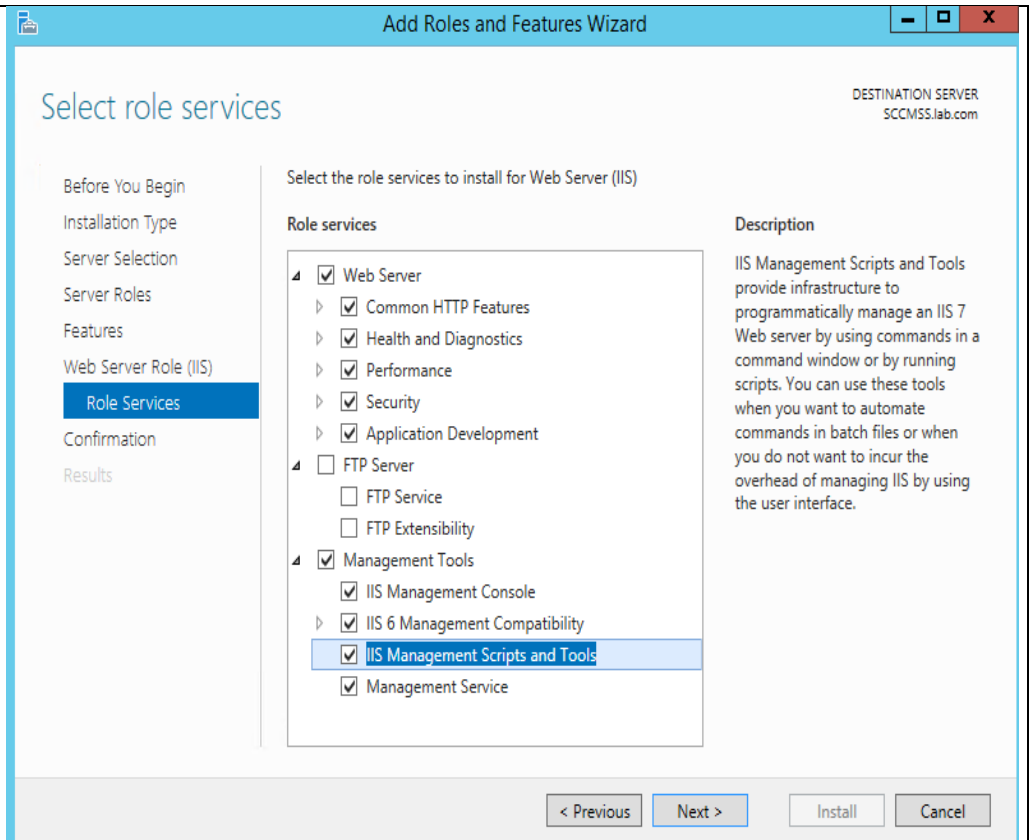
Application Development >> ISAPI Extensions

Security >> Windows Authentication

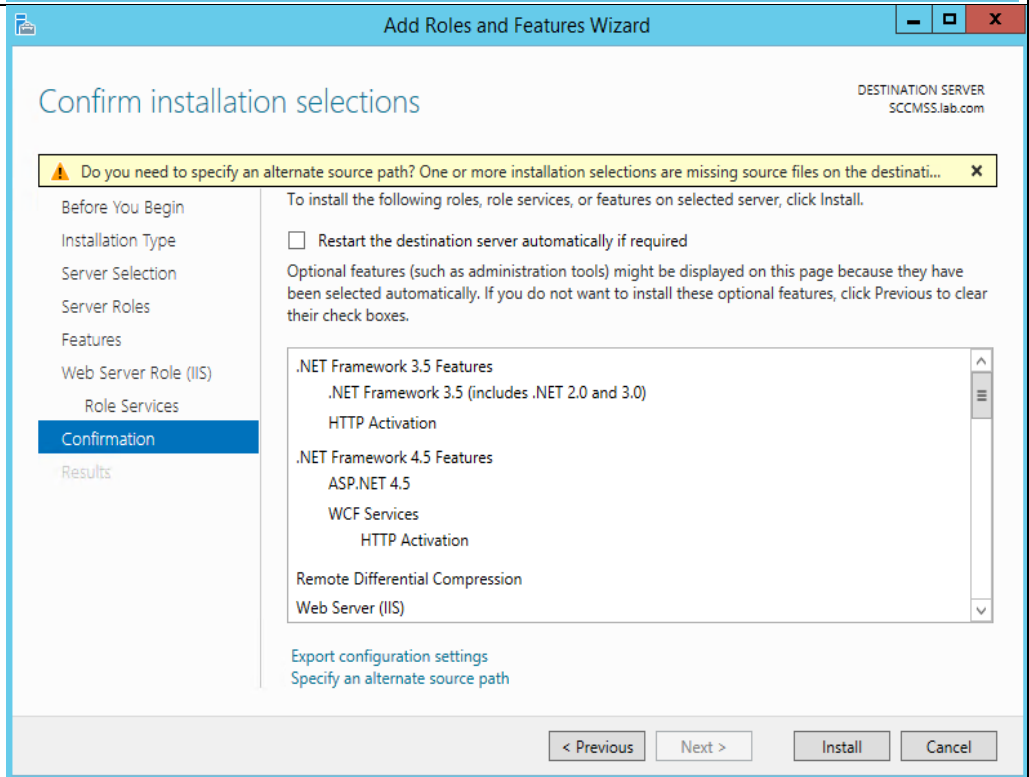
IIS 6 Management Compatibility >>
IIS 6 Metabase Compatibility

IIS 6 Management Compatibility >>
IIS 6 WMI Compatibility.

Click on Next.



Click on Install.



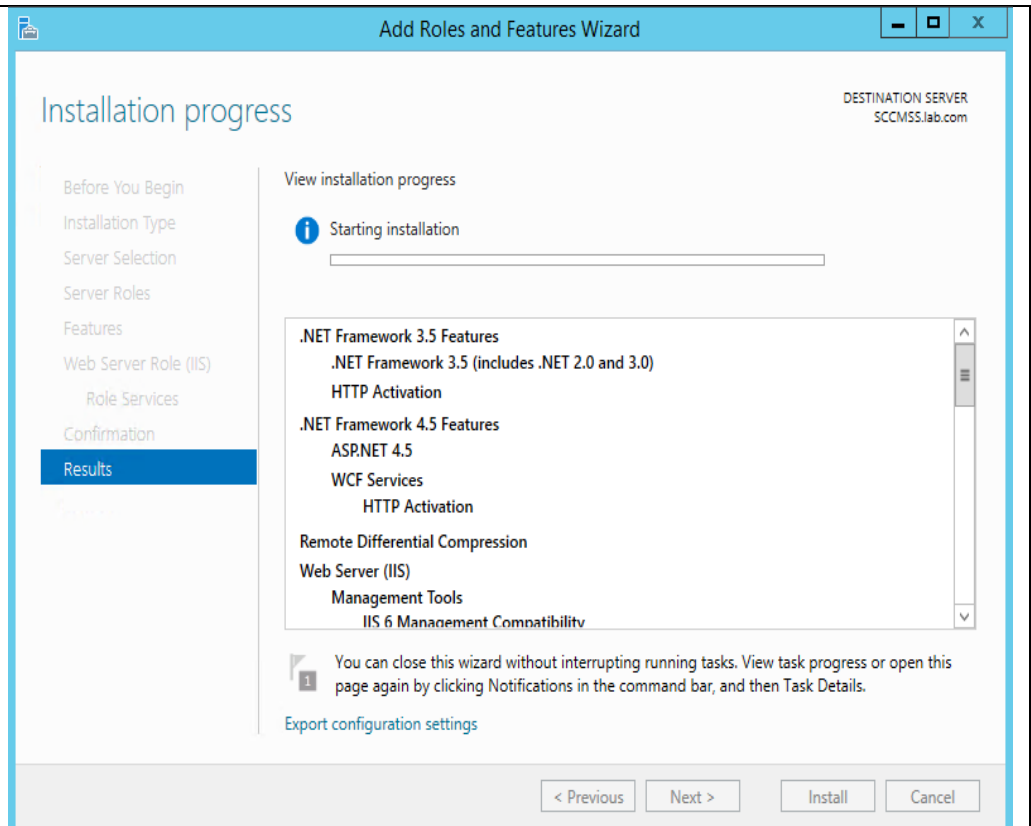
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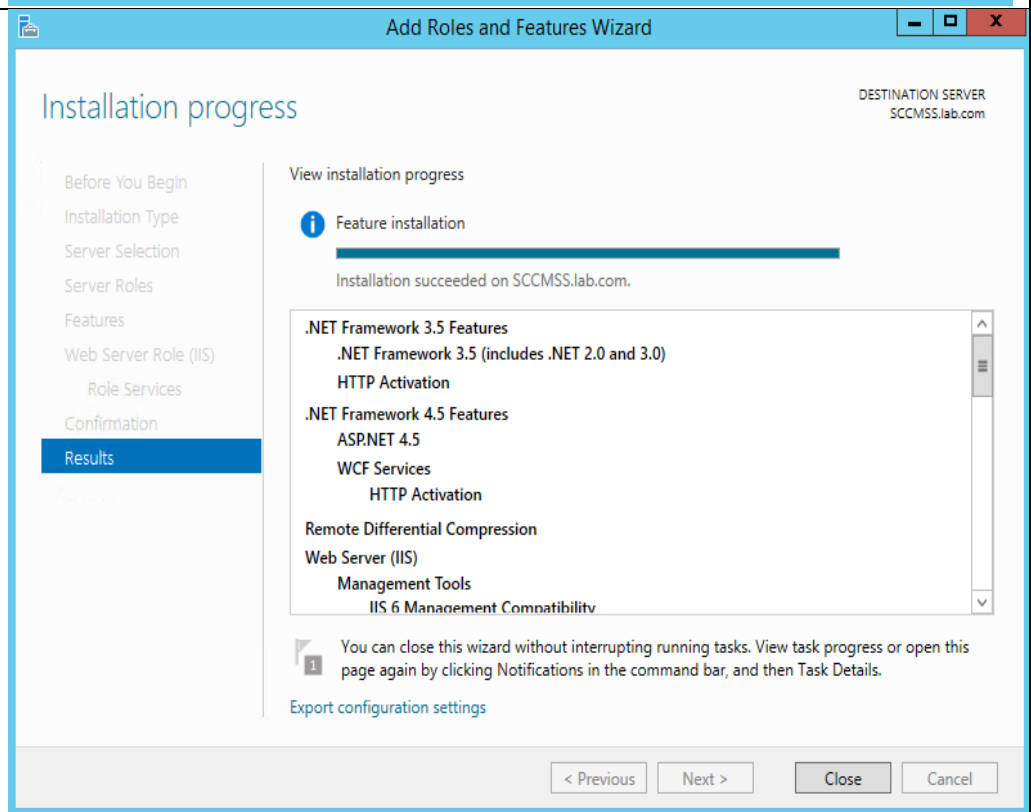
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Progress for installation



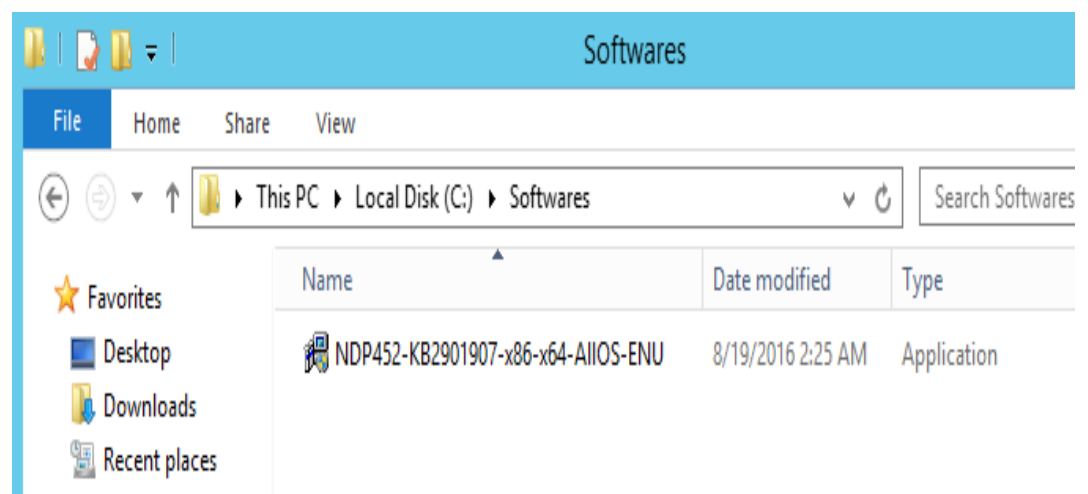
Post successfully installation, Click on close.



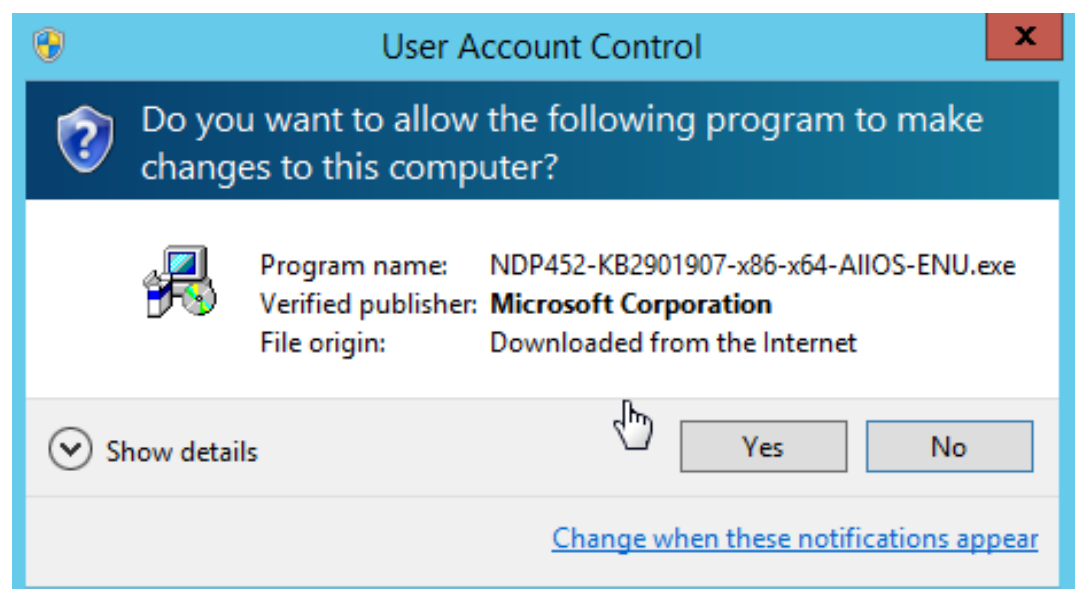
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Installing .Net 4.5.2

Double click on .Net 4.5.2 Framework to launch installation console.



Click on Yes.

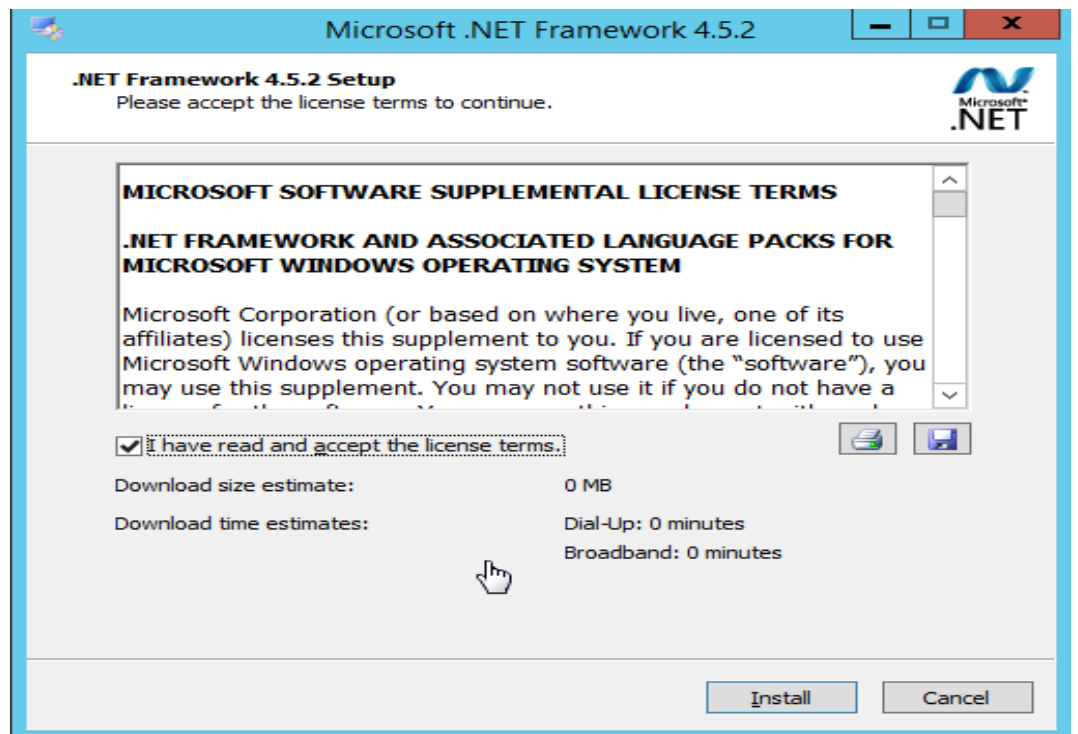


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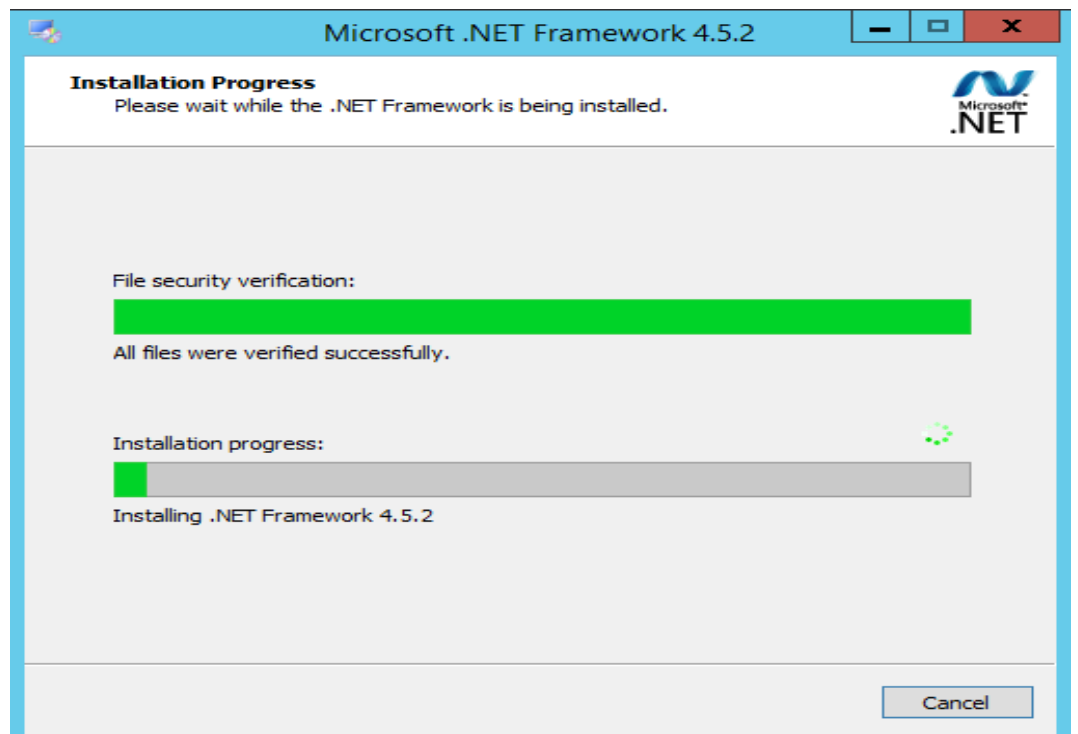
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Accept the license terms and click on Install.



Installation process.



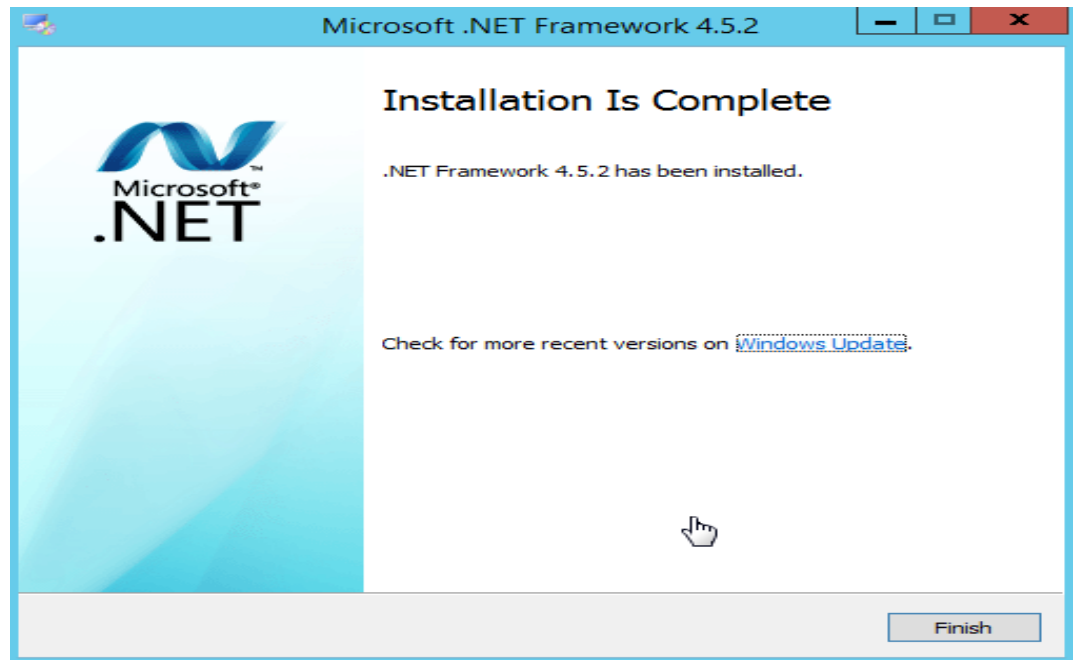
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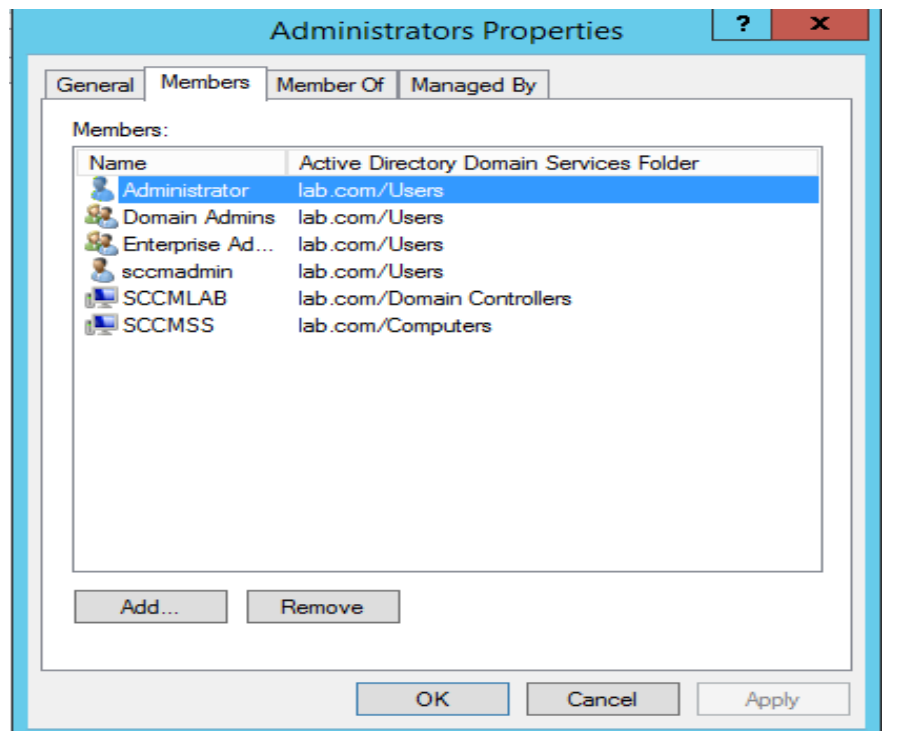
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Click on Finish.



Account Rights: -

Add sccmadmin account and Machine hostname to Administrators group.







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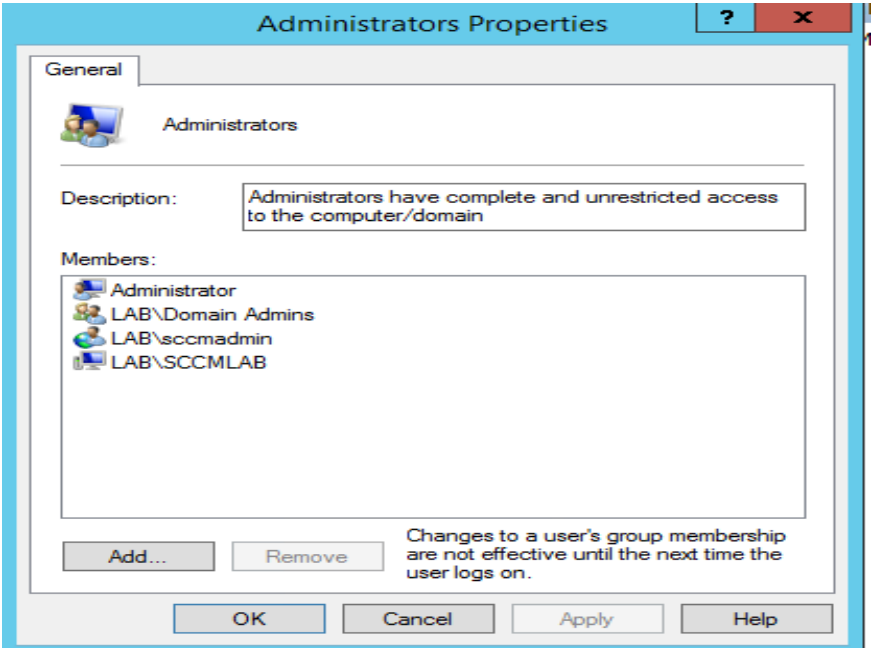
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Add Secondary site host name under given groups on screen shot.

	SMS Admins	Security Group - Domain Local
	SMS_SiteSystemToSiteServerConnection_MP_STD	Security Group - Domain Local
	SMS_SiteSystemToSiteServerConnection_SMSProv_STD	Security Group - Domain Local
	SMS_SiteSystemToSiteServerConnection_Stat_STD	Security Group - Domain Local

On Secondary Site Server add Primary Site Server Hostname and SCCM account under administrator group.



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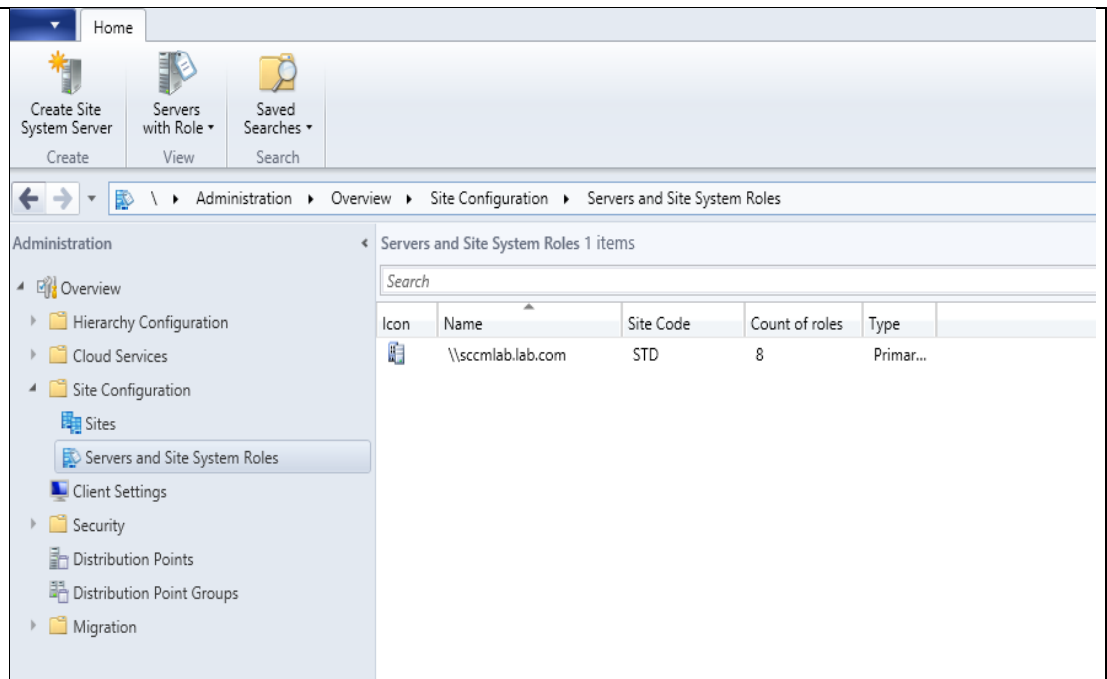
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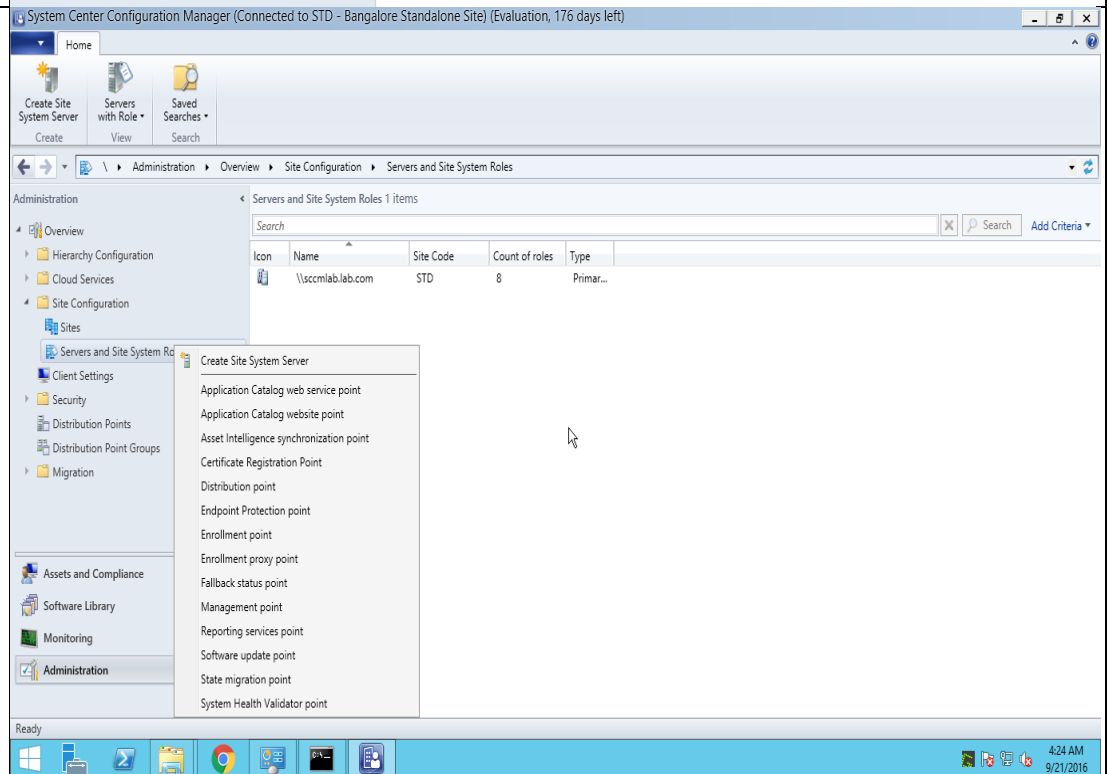
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Installing Distribution Point

Open SCCM Coles and go to Administrator and then Site Configuration



Right Click on Server and Site System Role and Select Create Site System Server.



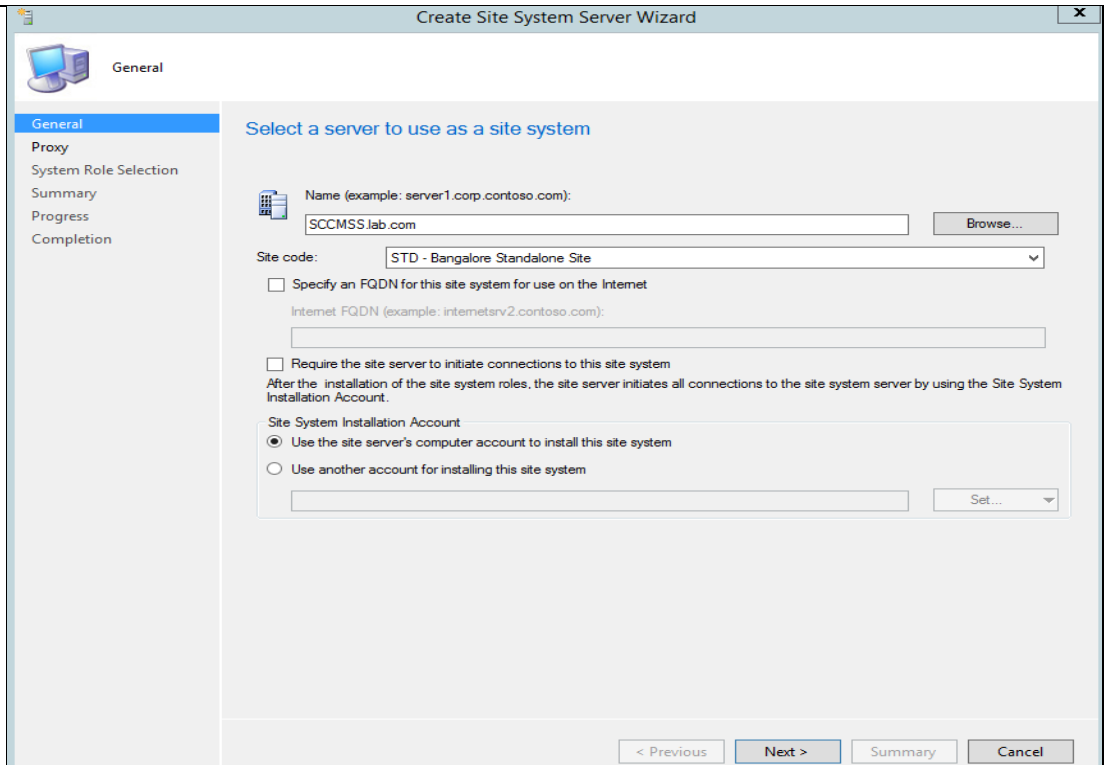
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On General screen, Fill the hostname details and select Site Code. Click on Next.

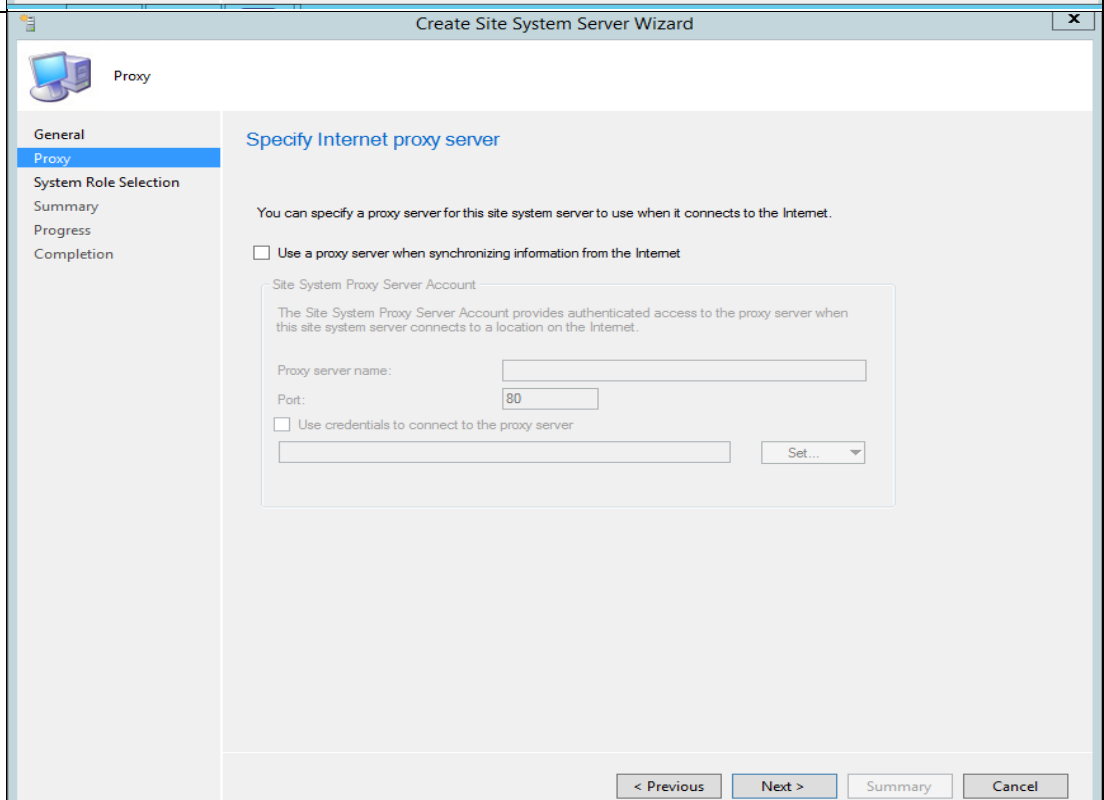


The screenshot shows the 'Create Site System Server Wizard' window, specifically the 'General' tab. The left sidebar lists the steps: General, Proxy, System Role Selection, Summary, Progress, and Completion. The main area is titled 'Select a server to use as a site system'. It contains the following fields and options:

- Name (example: server1.corp.contoso.com):** A text box containing 'SCCMSS.lab.com' and a 'Browse...' button.
- Site code:** A dropdown menu showing 'STD - Bangalore Standalone Site'.
- ☐ **Specify an FQDN for this site system for use on the Internet**
Internet FQDN (example: internetrv2.contoso.com):
- ☐ **Require the site server to initiate connections to this site system**
After the installation of the site system roles, the site server initiates all connections to the site system server by using the Site System Installation Account.
- Site System Installation Account**
 - ☒ **Use the site server's computer account to install this site system**
 - ☐ **Use another account for installing this site system**

At the bottom, there are buttons for '< Previous', 'Next >', 'Summary', and 'Cancel'.

On Proxy screen click on Next.



The screenshot shows the 'Create Site System Server Wizard' window, specifically the 'Proxy' tab. The left sidebar lists the steps: General, Proxy, System Role Selection, Summary, Progress, and Completion. The main area is titled 'Specify Internet proxy server'. It contains the following fields and options:

- ☐ **Use a proxy server when synchronizing information from the Internet**
- Site System Proxy Server Account**

The Site System Proxy Server Account provides authenticated access to the proxy server when this site system server connects to a location on the Internet.
- Proxy server name:** A text box.
- Port:** A text box containing '80'.
- ☐ **Use credentials to connect to the proxy server**

At the bottom, there are buttons for '< Previous', 'Next >', 'Summary', and 'Cancel'.

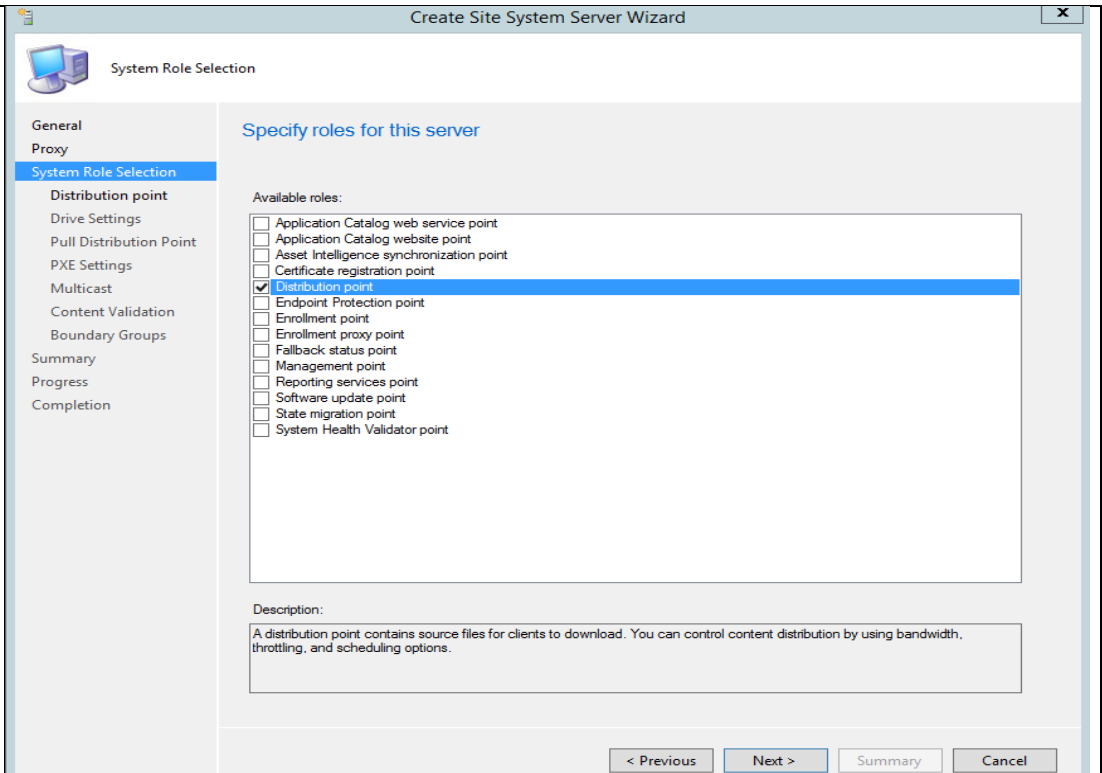
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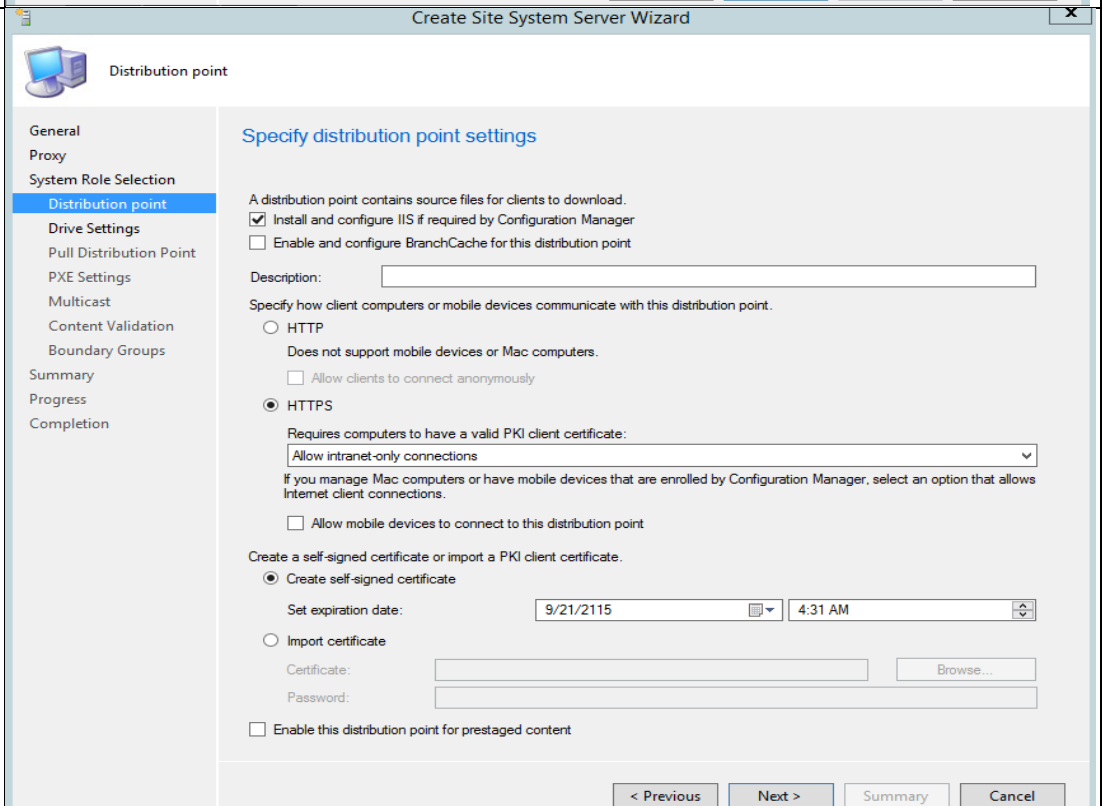
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Select Distribution Point and Click on Next.



The screenshot shows the 'Create Site System Server Wizard' window, specifically the 'System Role Selection' step. The left-hand navigation pane lists various roles: General, Proxy, System Role Selection (highlighted), Distribution point, Drive Settings, Pull Distribution Point, PXE Settings, Multicast, Content Validation, Boundary Groups, Summary, Progress, and Completion. The main area is titled 'Specify roles for this server' and contains a list of 'Available roles'. The 'Distribution point' role is selected with a checkmark. Below the list, a description states: 'A distribution point contains source files for clients to download. You can control content distribution by using bandwidth, throttling, and scheduling options.' At the bottom right, there are buttons for '< Previous', 'Next >', 'Summary', and 'Cancel'.

Select Install and configure IIS if required by Configuration Manager. Select HTTPS or HTTP mode. Import Certificate or use PKI certificate.



The screenshot shows the 'Create Site System Server Wizard' window, specifically the 'Distribution point' settings step. The left-hand navigation pane is the same as the previous screen, with 'Distribution point' highlighted. The main area is titled 'Specify distribution point settings'. It contains several configuration options: 'Install and configure IIS if required by Configuration Manager' (checked), 'Enable and configure BranchCache for this distribution point' (unchecked), a description field, and radio buttons for 'HTTP' and 'HTTPS' (selected). Under 'HTTPS', there are options for 'Allow intranet-only connections' (selected) and 'Allow mobile devices to connect to this distribution point' (unchecked). There are also options to 'Create a self-signed certificate or import a PKI client certificate', with 'Create self-signed certificate' selected. This includes fields for 'Set expiration date' (9/21/2115) and '4:31 AM', and fields for 'Certificate' and 'Password' (with a 'Browse...' button). At the bottom, there is an unchecked checkbox for 'Enable this distribution point for prestaged content'. At the bottom right, there are buttons for '< Previous', 'Next >', 'Summary', and 'Cancel'.

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Select Primary Content Library Location and others. Click on Next.

The screenshot shows the 'Create Site System Server Wizard' at the 'Drive Settings' step. The left sidebar lists the wizard steps: General, Proxy, System Role Selection, Distribution point, Drive Settings (selected), Pull Distribution Point, PXE Settings, Multicast, Content Validation, Boundary Groups, Summary, Progress, and Completion. The main area is titled 'Specify drive settings for this distribution point'. It contains instructions on drive space reserve and content library locations. The 'Drive space reserve (MB)' is set to 50. The locations for the primary and secondary content libraries and package shares are all set to 'Automatic'. Navigation buttons at the bottom include '< Previous', 'Next >', 'Summary', and 'Cancel'.

Drive Settings

Specify drive settings for this distribution point

Specify the space to reserve on each drive that is used by this distribution point. You can use drive space reserve to determine the space that remains free on the drive after content is stored on it.

Drive space reserve (MB): 50

The content library contains content that is distributed to this distribution point. To optimize hard disk space, the content library stores only one instance of each content files. The package share is used when you configure a package to allow clients to run a program from the distribution point.

Specify the locations for the content library and package share on this distribution point. If you select Automatic, Configuration Manager selects the drive that has the most free space when the distribution point is installed. Configuration Manager uses the secondary content library location only when insufficient space remains on the primary location.

Primary content library location: Automatic

Secondary content library location: Automatic

Primary package share location: Automatic

Secondary package share location: Automatic

< Previous Next > Summary Cancel

If needed then select Pull Distribution Point and click on Next.

The screenshot shows the 'Create Site System Server Wizard' at the 'Pull Distribution Point' step. The left sidebar lists the wizard steps: General, Proxy, System Role Selection, Distribution point, Drive Settings, Pull Distribution Point (selected), PXE Settings, Multicast, Content Validation, Boundary Groups, Summary, Progress, and Completion. The main area is titled 'Specify settings to configure a pull distribution point'. It contains instructions on site server notifications and a checkbox to enable pulling content. Below is a table for 'Source distribution points' which is currently empty. Navigation buttons at the bottom include '< Previous', 'Next >', 'Summary', and 'Cancel'.

Pull Distribution Point

Specify settings to configure a pull distribution point

The site server notifies pull distribution points when there is content for them to download from a source distribution point.

☐ Enable this distribution point to pull content from other distribution points

Select source distribution points for this pull distribution point. Each entry is tried in turn, until the content is found. Source distribution points with the same priority will be randomly selected.

Source distribution points:

Name	Type	Priority
There are no items to show in this view.		

Add... Remove

< Previous Next > Summary Cancel

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If needed PXE support, then select Enable PXE support for Clients. Click on Next.

The screenshot shows the 'PXE Settings' step of the 'Create Site System Server Wizard'. The left sidebar lists the steps: General, Proxy, System Role Selection, Distribution point, Drive Settings, Pull Distribution Point, PXE Settings (selected), Multicast, Content Validation, Boundary Groups, Summary, Progress, and Completion. The main area is titled 'Specify settings to install operating systems by using PXE boot'. It contains several checkboxes: 'Enable PXE support for clients' (unchecked), 'Allow this distribution point to respond to incoming PXE requests' (unchecked), 'Enable unknown computer support' (unchecked), and 'Require a password when computers use PXE' (checked). Below these are fields for 'Password' and 'Confirm password'. There is a 'User device affinity' dropdown set to 'Do not use user device affinity'. A 'Network interfaces' section has two radio buttons: 'Respond to PXE requests on all network interfaces' (selected) and 'Respond to PXE requests on specific network interfaces' (unchecked). Below this is a large empty text box. At the bottom, there is a 'Specify the PXE server response delay (seconds):' field set to '0'. Navigation buttons at the bottom are '< Previous', 'Next >', 'Summary', and 'Cancel'.

If required Multicast, then select "Enable multicast to simultaneously send data to multiple clients."

The screenshot shows the 'Multicast' step of the 'Create Site System Server Wizard'. The left sidebar is the same as the previous step, with 'Multicast' selected. The main area is titled 'Specify multicast settings for operating system deployment'. It contains a checkbox 'Enable multicast to simultaneously send data to multiple clients' which is checked. Below it is a section for 'Multicast Connection Account' with two radio buttons: 'Use the computer account of this distribution point to connect to the primary site database' (selected) and 'Use another account' (unchecked). There is a text box and a 'Set...' button. Below that is a 'Multicast address settings' section with two radio buttons: 'Use IPv4 addresses within any range' (selected) and 'Use IPv4 addresses from the following range:' (unchecked). Below this are fields for 'Start' and 'End' IP addresses. There is a 'UDP port range for multicast' section with 'Start' (64001) and 'End' (65000) fields. Below that are 'Client transfer rate' (100 Mbps) and 'Maximum clients' (100) dropdowns. At the bottom, there is a checkbox 'Enable scheduled multicast' which is unchecked. Below it are 'Session start delay (minutes):' (15) and 'Minimum session size (clients):' (20) dropdowns. Navigation buttons at the bottom are '< Previous', 'Next >', 'Summary', and 'Cancel'.

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Click on Next.

The screenshot shows the 'Content Validation' step of the 'Create Site System Server Wizard'. The left sidebar lists various configuration steps, with 'Content Validation' selected. The main area is titled 'Specify the content validation settings'. It contains a checkbox for 'Validate content on a schedule', which is currently unchecked. Below this, it shows a schedule: 'Occurs every 1 weeks on Saturday effective 9/21/2016 12:00 AM'. There is a 'Schedule...' button next to it. Below the schedule, there is a section for 'Content validation priority' with a dropdown menu set to 'Lowest (Default)'. At the bottom of the wizard, there are buttons for '< Previous', 'Next >', 'Summary', and 'Cancel'.

Add boundary Group if needed
if not Click on Next.

The screenshot shows the 'Boundary Groups' step of the 'Create Site System Server Wizard'. The left sidebar lists various configuration steps, with 'Boundary Groups' selected. The main area is titled 'Specify the boundary groups to associate with this site system'. It contains a text box for 'Filter...' and a table with columns 'Name' and 'Description'. The table is currently empty, with a message 'There are no items to show in this view.' below it. At the bottom of the table, there are buttons for 'Create...', 'Add...', and 'Remove'. Below the table, there is a checkbox for 'Allow fallback source location for content', which is checked. At the bottom of the wizard, there are buttons for '< Previous', 'Next >', 'Summary', and 'Cancel'.

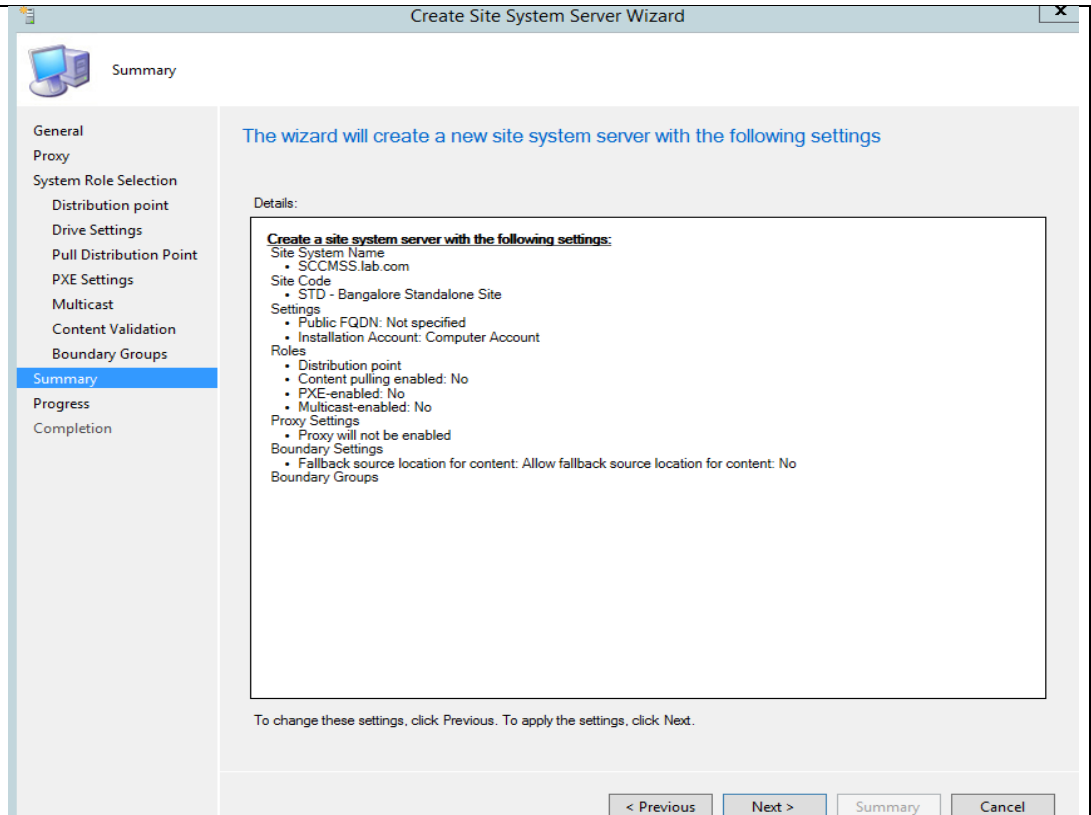
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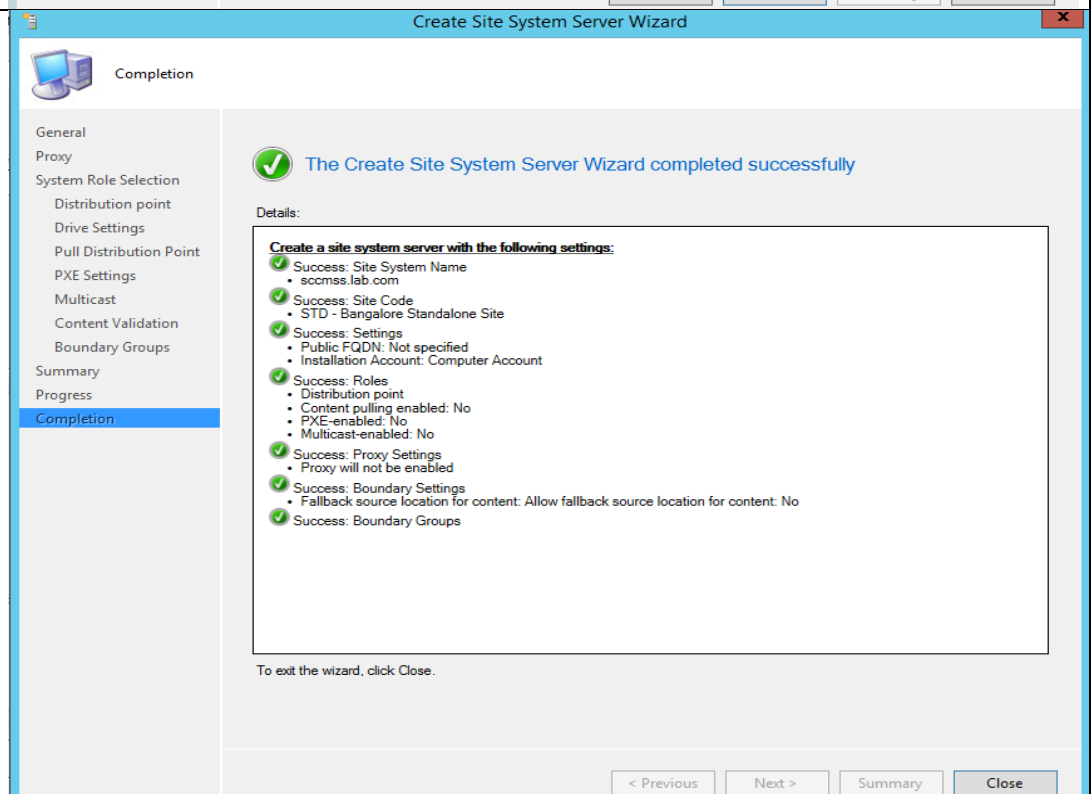
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Verify all the settings and Click on Next.



Click on Close after success installation



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Go to Server and Site System Roles and verify that Site System Created

The screenshot shows the SCCM console with the 'Administration' tree on the left. The 'Servers and Site System Roles' node is selected. The main pane displays a table of site system roles.

Icon	Name	Site Code	Count of roles	Type
	\\sccmss.lab.com	STD	2	Site sys...
	\\sccmlab.lab.com	STD	8	Primar...

Icon	Role Name	Role Description
	Distribution point	A Configuration Manager server role that stages packages for distribution to c
	Site system	A server or server share that hosts one or more site system roles for a Configu

Go to Site Status and verify that Distribution Point installed successfully and it showing green.

The screenshot shows the SCCM console with the 'Monitoring' tree on the left. The 'Site Status' node is selected. The main pane displays a table of site status items.

Icon	Status	Site System	Site System Role	Storage Object	Total
✓	OK	\\SCCMLAB.LAB.CO...	Component server	\\SCCMLAB.LAB.COM\CS\Progra...	126.7 GB
✓	OK	\\sccmlab.lab.com	Distribution point	\\sccmlab.lab.com\CS\$	126.7 GB
✓	OK	\\sccmss.lab.com	Distribution point	\\sccmss.lab.com\CS\$	126.7 GB
✓	OK	\\sccmlab.lab.com	Management point	\\SCCMLAB.LAB.COM\CS\Progra...	126.7 GB
✓	OK	\\sccmlab.lab.com	Service connection point	\\SCCMLAB.LAB.COM\CS\Progra...	126.7 GB
✓	OK	\\sccmlab.lab.com	Site database server	CM_STD Database	5 GB
✓	OK	\\sccmlab.lab.com	Site database server	CM_STD Transaction Log	392 MB

Thanks,
Harvansh Singh