

# Microsoft System Center 2012

# Configuration Manager RTM

# Hierarchy Deployment Document

Mar.28 2012



## **1. Deploy Environment Introduction :**

This operations process including four servers.

1. DC :

Role : ADDS + ADCS

OS : Windows Server 2008 R2 Enterprise Edition with SP1

IE : IE 9.0

IP : 192.168.0.100/24

DNS: 192.168.0.100

2. Central :

Role : SC2012 ConfigMgr RTM + SC2012 ConfigMgr CAS Database

OS : Windows Server 2008 R2 Enterprise Edition with SP1

IE : IE 9.0

IP : 192.168.0.101/24

DNS : 192.168.0.100

3. Primary :

Role : SC2012 ConfigMgr RTM + SC2012 ConfigMgr Primary Site Database

OS : Windows Server 2008 R2 Enterprise Edition with SP1

IE : IE 9.0

IP : 192.168.0.102/24

DNS : 192.168.0.100

4. Secondary :

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Role : SC2012 ConfigMgr RTM + SC2012 ConfigMgr Secondary Site Database

OS : Windows Server 2008 R2 Enterprise Edition with SP1

IE : IE 9.0

IP : 192.168.0.103/24

DNS : 192.168.0.100

## 2. Deploy Active Directory :

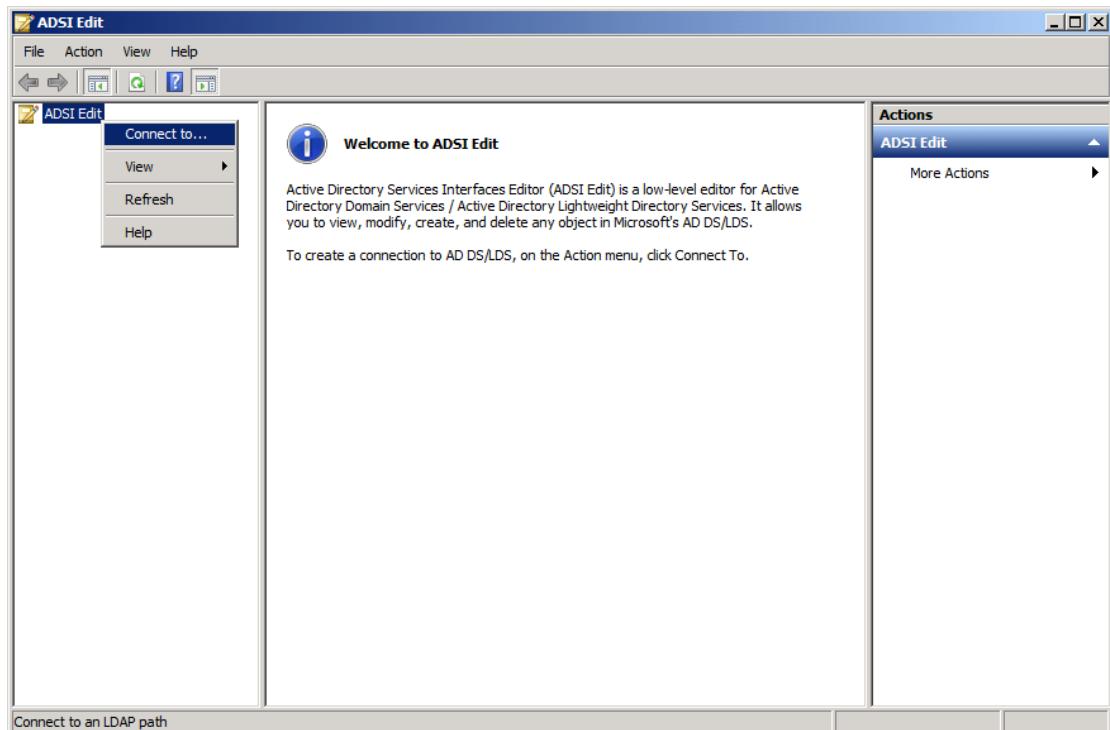
1) Logon to **DC** server , installing **ADDS** and **ADCS** . Domain name is **Contoso.msft** . Active Directory forest functional level is **Windows Server 2008 R2**.

This process is no longer described in this part.

### 3. Configure Active Directory Permissions :

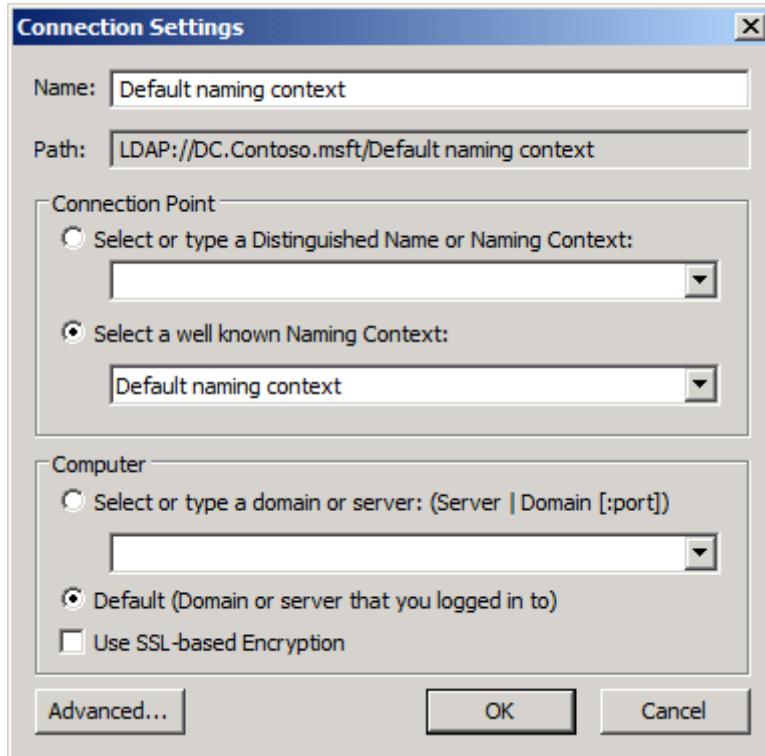
- 1) Logon to DC server , Open **ADSI Edit** mmc snap-in console , right-click

**ADSI Edit** and click **Connect to ...** :



- 2) Display **Connection Settings** :

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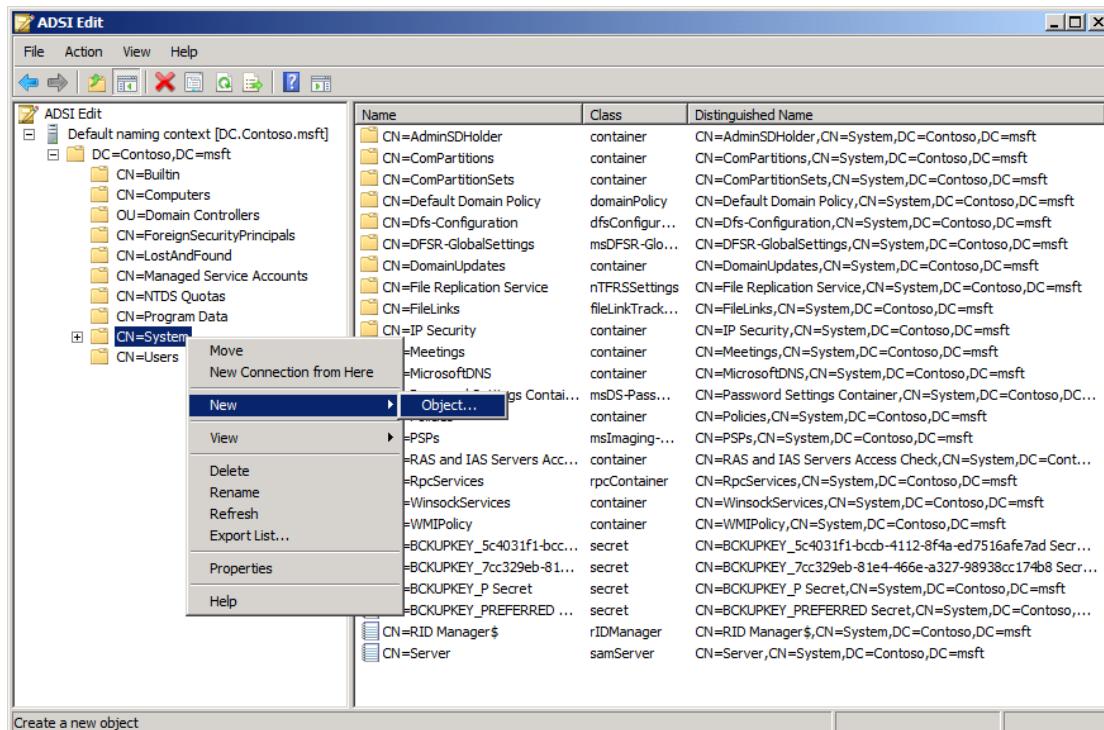
- 3) Click **OK** , Expand **Domain** <computer fully qualified domain name>, expand <distinguished name>, click **CN=System** :

**ADSI Edit**

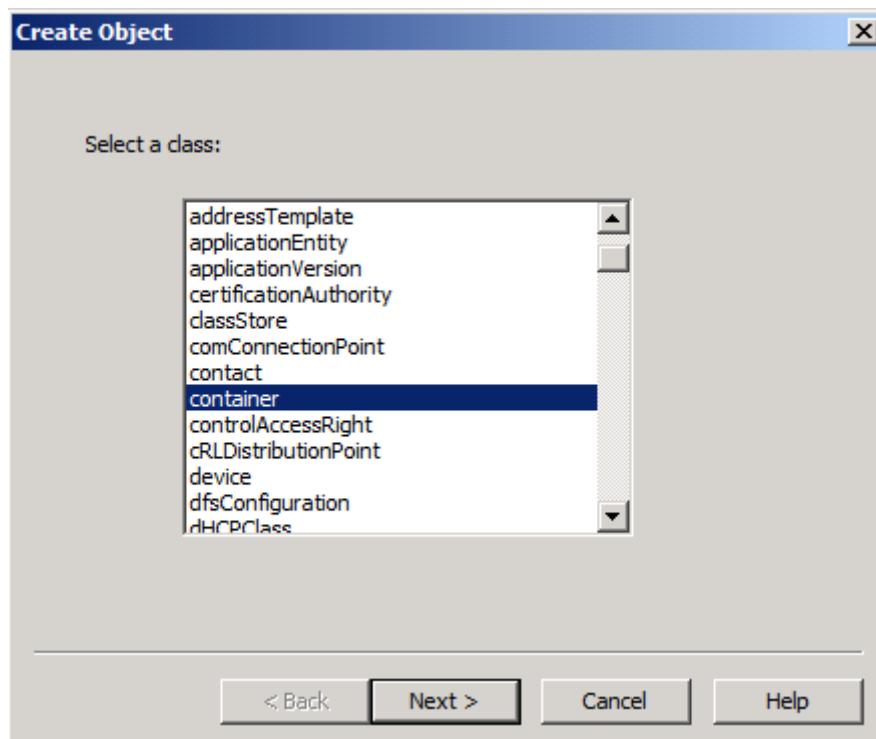
Name	Class	Distinguished Name
CN=AdminSDHolder	container	CN=AdminSDHolder,CN=System,DC=Contoso,DC=msft
CN=ComPartitions	container	CN=ComPartitions,CN=System,DC=Contoso,DC=msft
CN=ComPartitionSets	container	CN=ComPartitionSets,CN=System,DC=Contoso,DC=msft
CN=Default Domain Policy	domainPolicy	CN=Default Domain Policy,CN=System,DC=Contoso,DC=msft
CN=Dfs-Configuration	dfsConfigur...	CN=Dfs-Configuration,CN=System,DC=Contoso,DC=msft
CN=DFSR-GlobalSettings	msDFSR-Glo...	CN=DFSR-GlobalSettings,CN=System,DC=Contoso,DC=msft
CN=DomainUpdates	container	CN=DomainUpdates,CN=System,DC=Contoso,DC=msft
CN=File Replication Service	nTFRSSettings	CN=File Replication Service,CN=System,DC=Contoso,DC=msft
CN=FileLinks	fileLinkTrack...	CN=FileLinks,CN=System,DC=Contoso,DC=msft
CN=IP Security	container	CN=IP Security,CN=System,DC=Contoso,DC=msft
CN=Meetings	container	CN=Meetings,CN=System,DC=Contoso,DC=msft
CN=MicrosoftDNS	container	CN=MicrosoftDNS,CN=System,DC=Contoso,DC=msft
CN=Password Settings Contai...	msDS-Pass...	CN=Password Settings Container,CN=System,DC=Contoso,DC=msft
CN=Policies	container	CN=Policies,CN=System,DC=Contoso,DC=msft
CN=PPSPs	msImaging...	CN=PPSPs,CN=System,DC=Contoso,DC=msft
CN=RAS and IAS Servers Acc...	container	CN=RAS and IAS Servers Access Check,CN=System,DC=Contoso,DC=msft
CN=RpcServices	rpcContainer	CN=RpcServices,CN=System,DC=Contoso,DC=msft
CN=WinsockServices	container	CN=WinsockServices,CN=System,DC=Contoso,DC=msft
CN=WMPolicy	container	CN=WMPolicy,CN=System,DC=Contoso,DC=msft
CN=BCKUPKEY_5c4031f1-bccb...	secret	CN=BCKUPKEY_5c4031f1-bccb-4112-8f4a-ed7516afe7ad Secr...
CN=BCKUPKEY_7cc329eb-81e...	secret	CN=BCKUPKEY_7cc329eb-81e4-466e-a327-98938cc174b8 Secr...
CN=BCKUPKEY_P Secret	secret	CN=BCKUPKEY_P Secret,CN=System,DC=Contoso,DC=msft
CN=BCKUPKEY_PREFERRED ...	secret	CN=BCKUPKEY_PREFERRED Secret,CN=System,DC=Contoso,DC=msft
CN=RID Manager\$	rIDManager	CN=RID Manager\$,CN=System,DC=Contoso,DC=msft
CN=Server	samServer	CN=Server,CN=System,DC=Contoso,DC=msft

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- 4) Right-click **CN=System**, click **New**, and then click **Object...** :

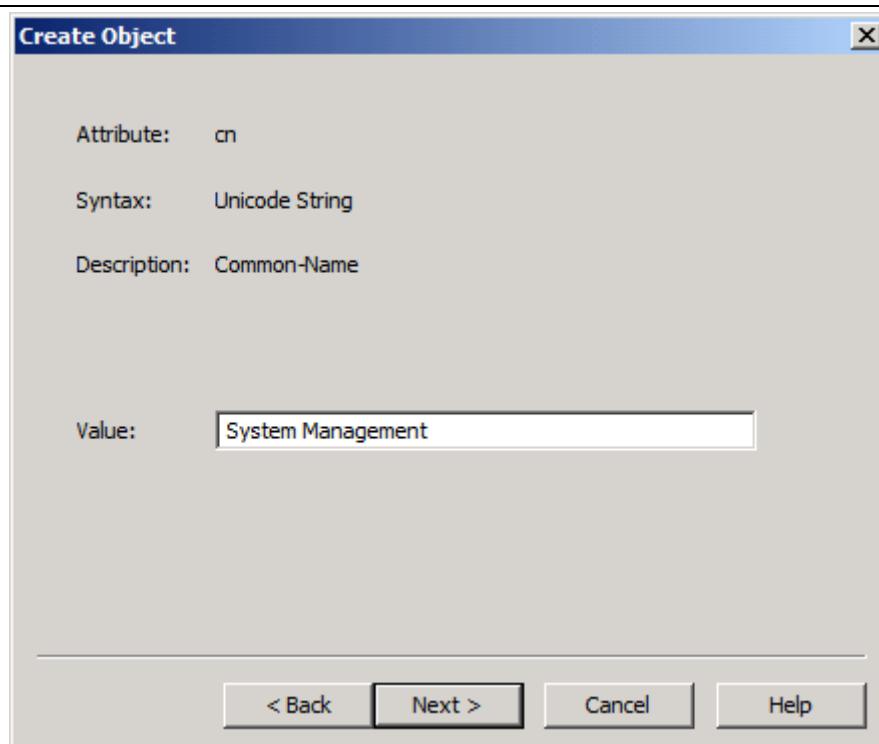


- 5) In the **Create Object** dialog box, select **container** :

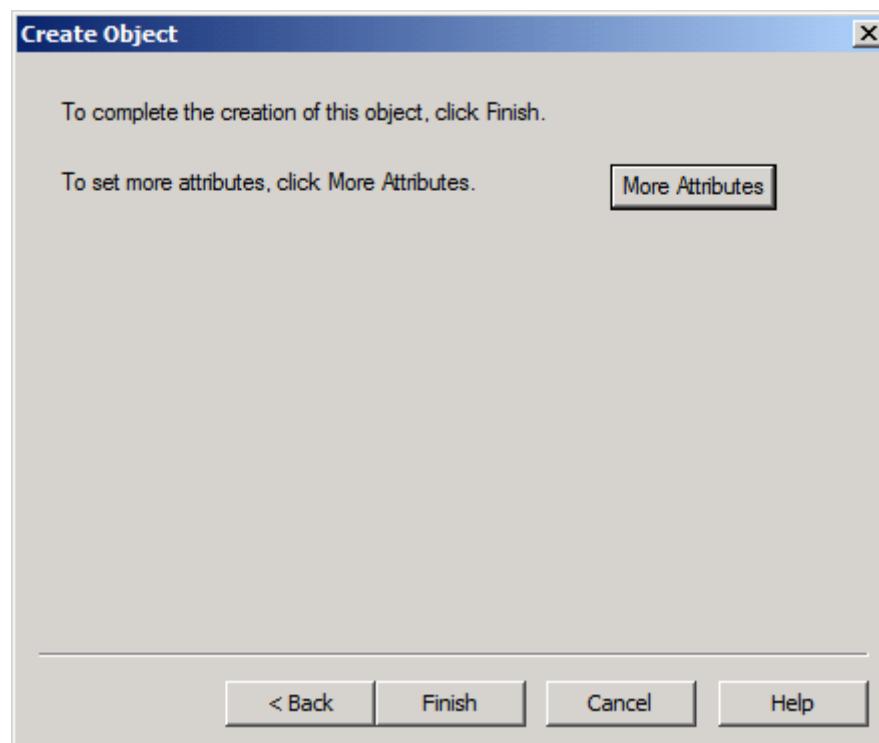


- 6) Then click **Next** , in the **Value** box, type **System Management** :

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- 7) Click **Next** , display finish phase :



- 8) Click **Finish** , you can see created new container :

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The screenshot shows the ADSI Edit MMC snap-in. On the left, the navigation pane displays the structure of the Active Directory, including the Default naming context [DC.Contoso.msft] and its sub-containers like DC=Contoso,DC=msft, CN=System, and CN=Users. On the right, a detailed list of objects within the System Management container is shown in a table format:

Name	Class	Distinguished Name
CN=AdminSDHolder	container	CN=AdminSDHolder,CN=System,DC=Contoso,DC=msft
CN=ComPartitions	container	CN=ComPartitions,CN=System,DC=Contoso,DC=msft
CN=ComPartitionSets	container	CN=ComPartitionSets,CN=System,DC=Contoso,DC=msft
CN=Default Domain Policy	domainPolicy	CN=Default Domain Policy,CN=System,DC=Contoso,DC=msft
CN=Dfs-Configuration	dfsConfigur...	CN=Dfs-Configuration,CN=System,DC=Contoso,DC=msft
CN=DFSR-GlobalSettings	msDSR-Glo...	CN=DFSR-GlobalSettings,CN=System,DC=Contoso,DC=msft
CN=DomainUpdates	container	CN=DomainUpdates,CN=System,DC=Contoso,DC=msft
CN=File Replication Service	nTFRSSettings	CN=File Replication Service,CN=System,DC=Contoso,DC=msft
CN=FileLinks	fileLinkTrack...	CN=FileLinks,CN=System,DC=Contoso,DC=msft
CN=IP Security	container	CN=IP Security,CN=System,DC=Contoso,DC=msft
CN=Meetings	container	CN=Meetings,CN=System,DC=Contoso,DC=msft
CN=MicrosoftDNS	container	CN=MicrosoftDNS,CN=System,DC=Contoso,DC=msft
CN=Password Settings Contai...	msDS-Pass...	CN=Password Settings Container,CN=System,DC=Contoso,DC=msft
CN=Policies	container	CN=Policies,CN=System,DC=Contoso,DC=msft
CN=PSPs	msImaging....	CN=PSPs,CN=System,DC=Contoso,DC=msft
CN=RAS and IAS Servers Acc...	container	CN=RAS and IAS Servers Access Check,CN=System,DC=Contoso,DC=msft
CN=RpcServices	rpcContainer	CN=RpcServices,CN=System,DC=Contoso,DC=msft
CN=WinsockServices	container	CN=WinsockServices,CN=System,DC=Contoso,DC=msft
CN=WMPolicy	container	CN=WMPolicy,CN=System,DC=Contoso,DC=msft
<b>CN=System Management</b>	container	<b>CN=System Management,CN=System,DC=Contoso,DC=msft</b>
CN=BCKUPKEY_5c4031f1-bcc...	secret	CN=BCKUPKEY_5c4031f1-bcc-4112-8f4a-ed7516afe7ad Sec...
CN=BCKUPKEY_7cc329eb-81...	secret	CN=BCKUPKEY_7cc329eb-81e4-466e-a327-98938cc174b8 Sec...
CN=BCKUPKEY_P Secret	secret	CN=BCKUPKEY_P Secret,CN=System,DC=Contoso,DC=msft
CN=BCKUPKEY_PREFERRED ...	secret	CN=BCKUPKEY_PREFE... Secret,CN=System,DC=Contoso,DC=msft
CN=RID Manager\$	rIDManager	CN=RID Manager\$,CN=System,DC=Contoso,DC=msft
CN=Server	samServer	CN=Server,CN=System,DC=Contoso,DC=msft

- 9) Close **ADSI Edit** mmc snap-in console .
- 10) Open **Active Directory Users and Computers** mmc snap-in console . Point to **View** and choose **Advanced Features** item :

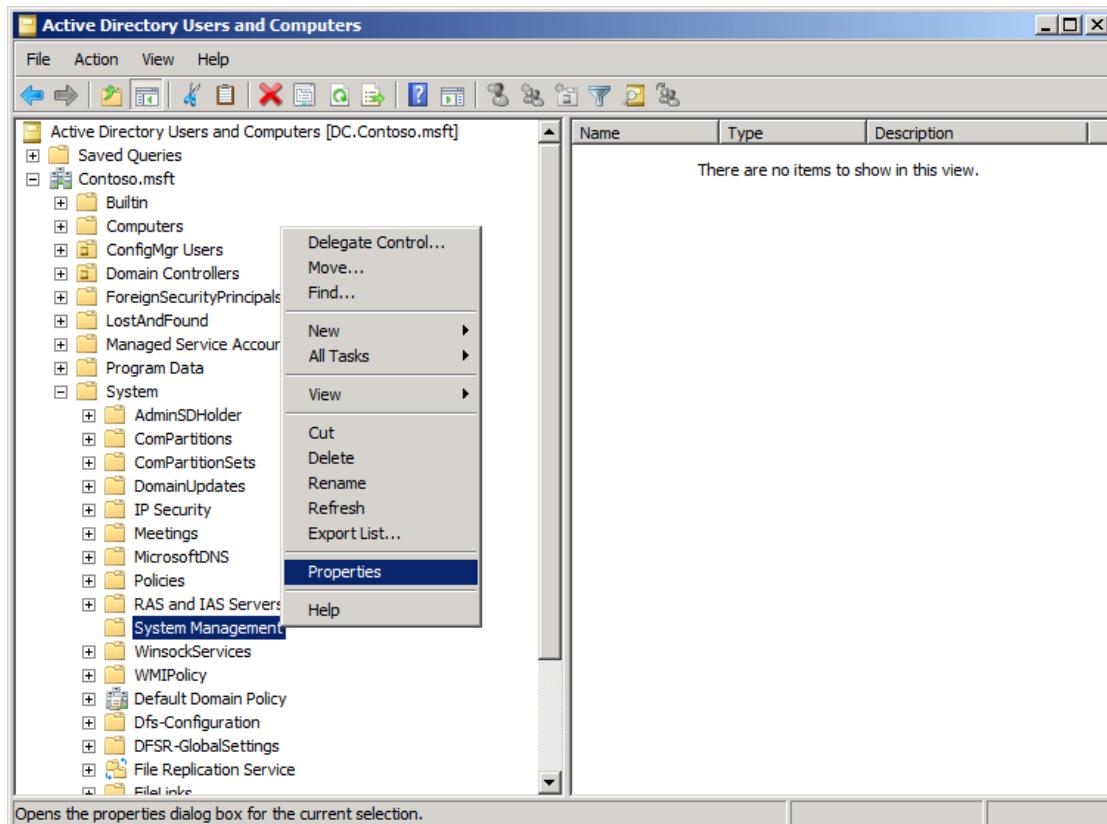
The screenshot shows the Active Directory Users and Computers MMC snap-in. The left pane displays the organizational structure. A context menu is open over the 'Containers' folder under 'Contoso, DC=Contoso, DC=msft'. The 'Advanced Features' option is highlighted in blue. A tooltip at the bottom of the screen reads 'Enables/disables advanced features and objects'.

- 11) Expand the **System** container, right-click **System Management**, and then

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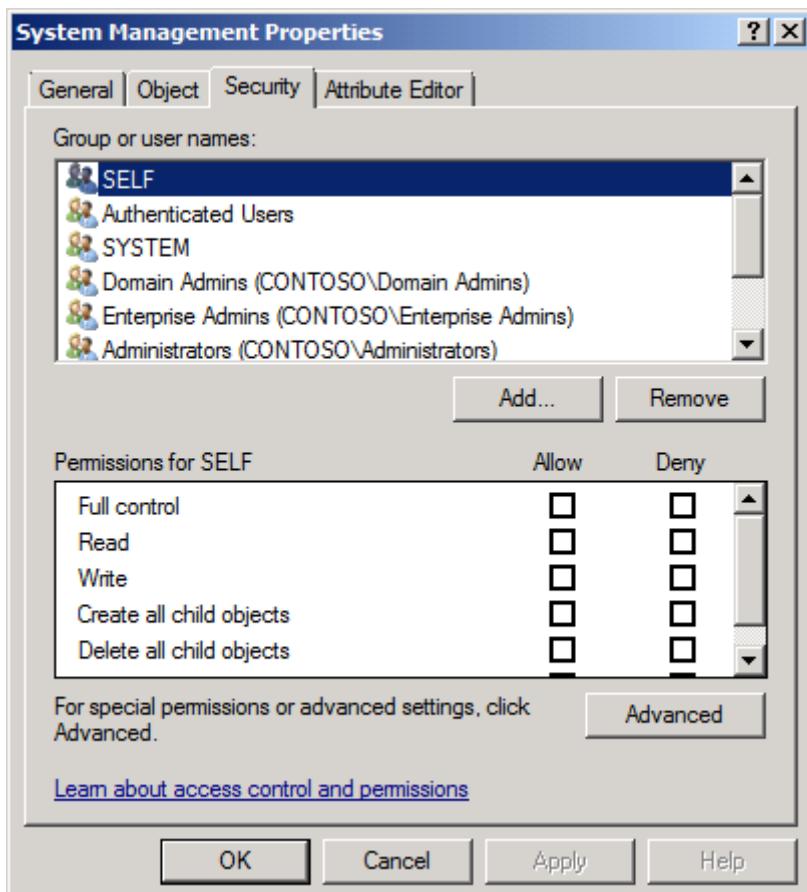
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click **Properties**:



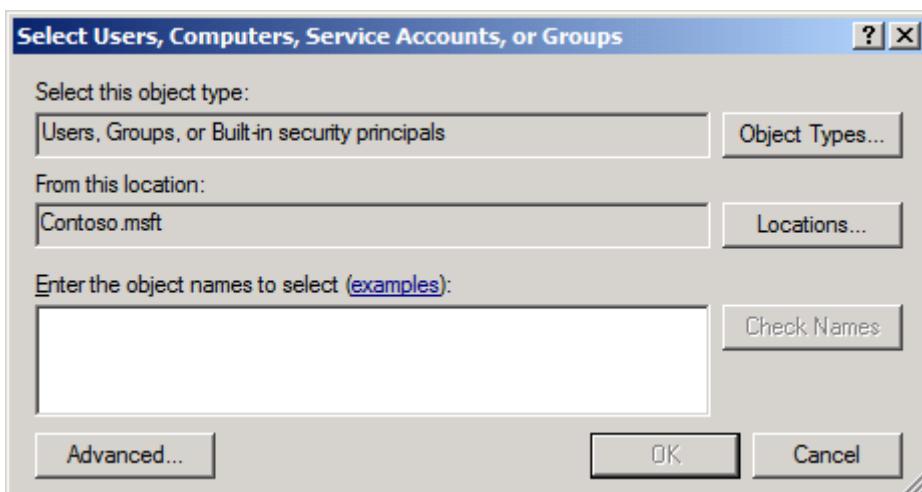
12) **System Properties** is display , click **Security** page :

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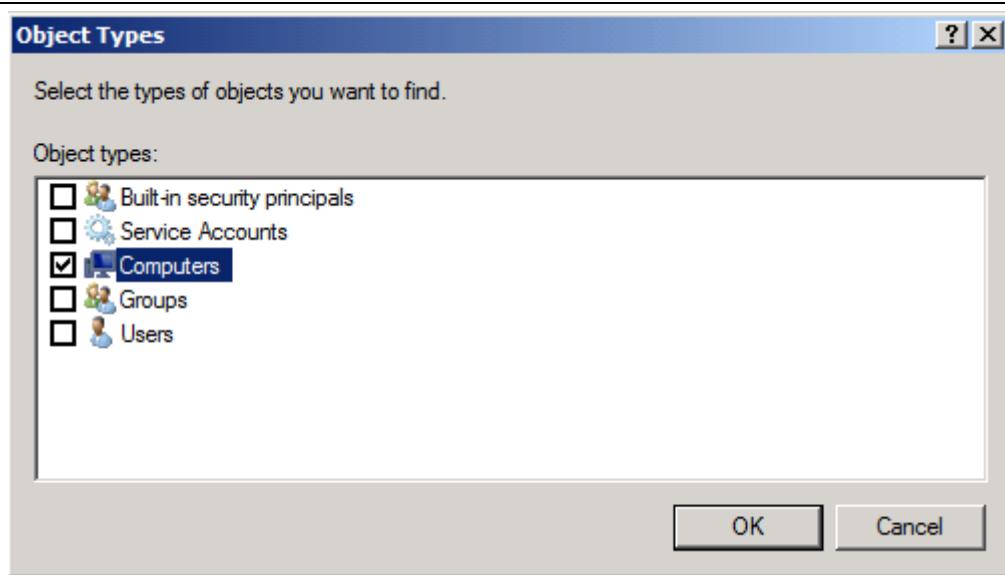
13) Click **Add...** , Display **Select Users , Computers ,Service Accounts , or Groups** box :

**Groups** box :

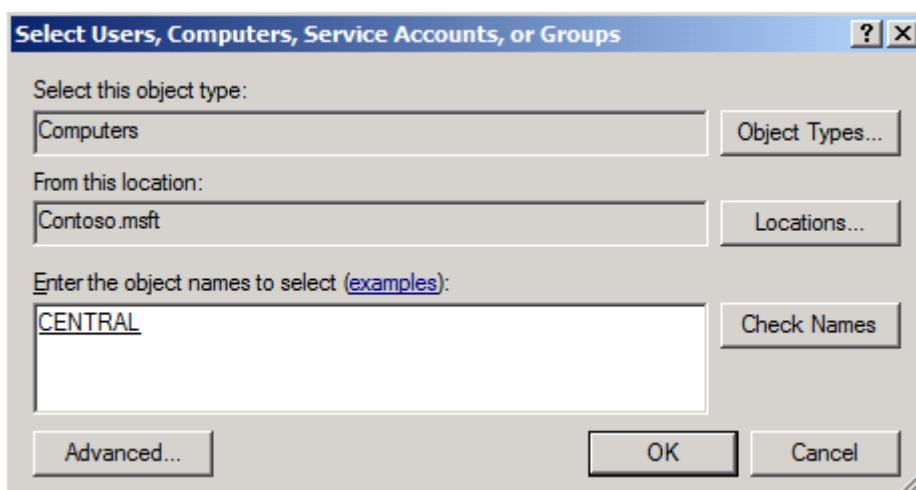


14) Click **Object Types...**item , just choose **Computers** in **Object Types** box :

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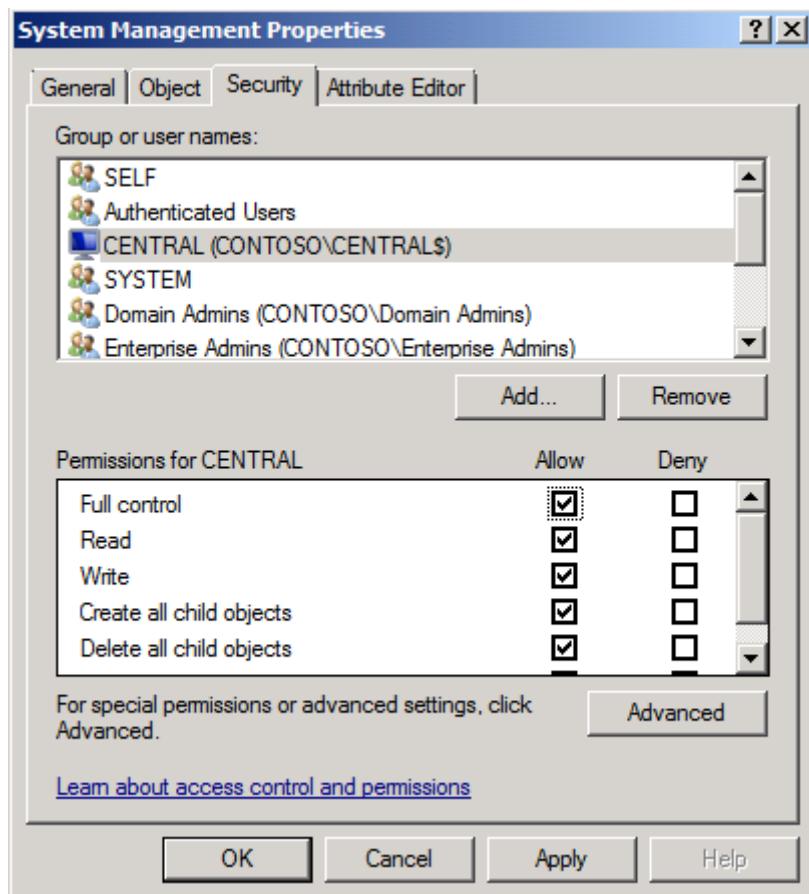


15) Click **OK** and type SC2012 ConfigMgr Central site server **NetBIOS name** :



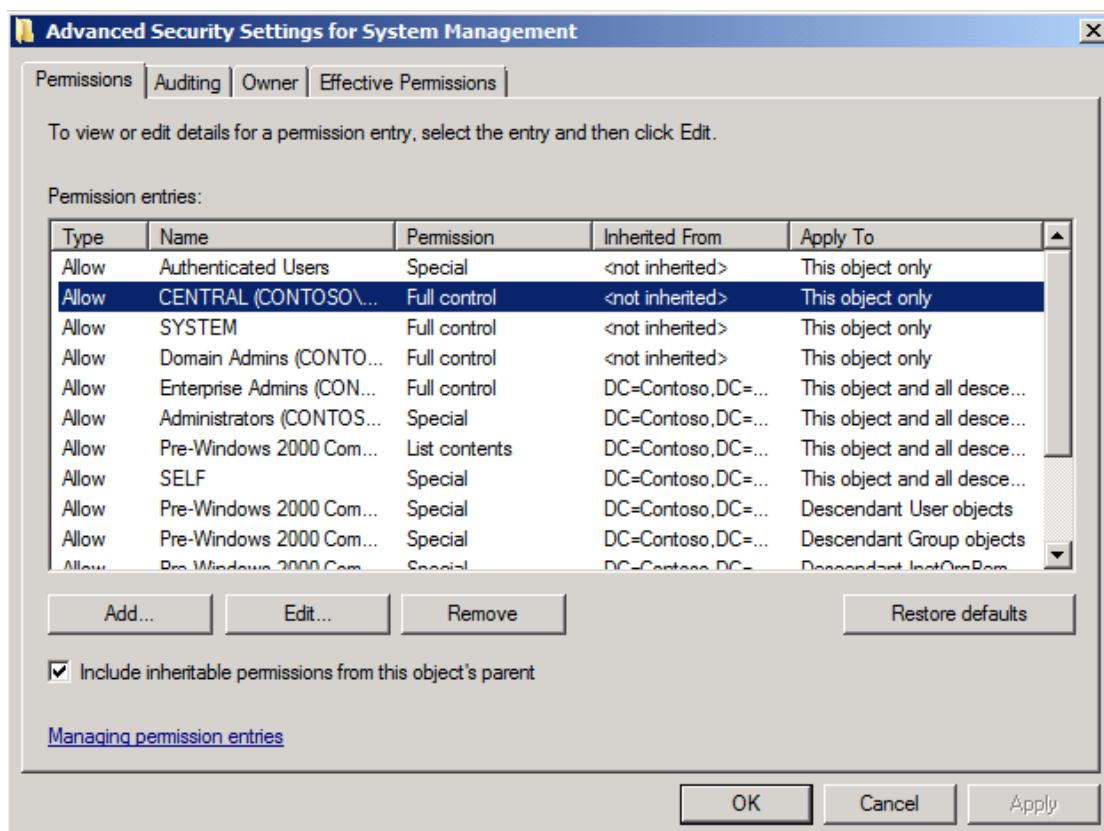
16) Click **Check Names** to confirm , and click **OK** , return to **System Properties** box , and point just added computer name and choose all **Allow** items :

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17) Click **Advanced** will display **Advanced Security Settings for System** box :

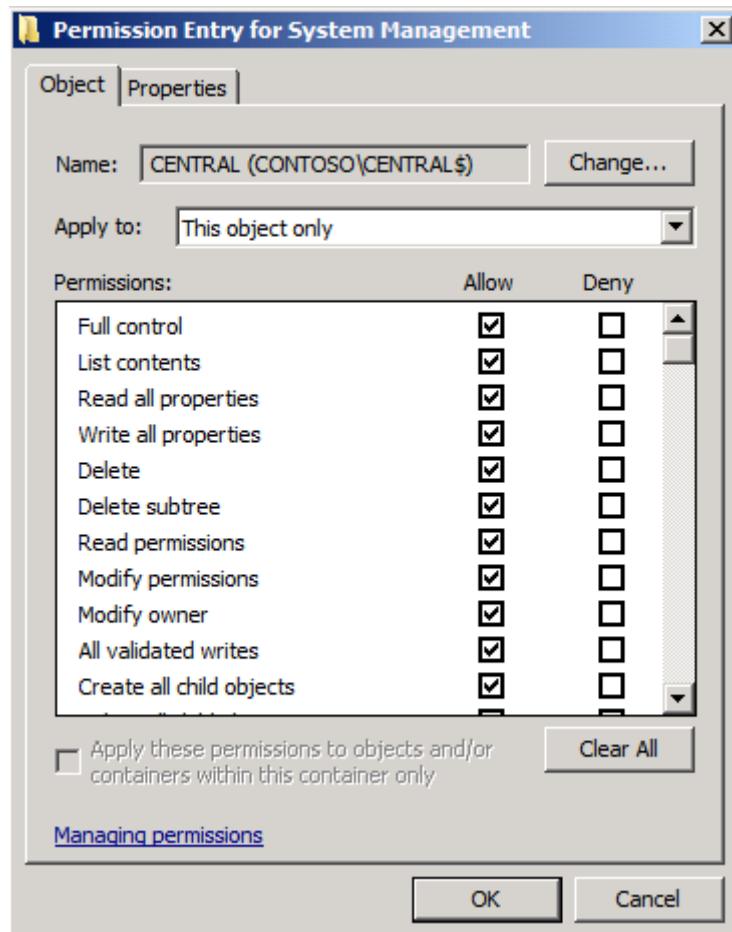
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18) Double-click SC2012 ConfigMgr Central site server name , will display

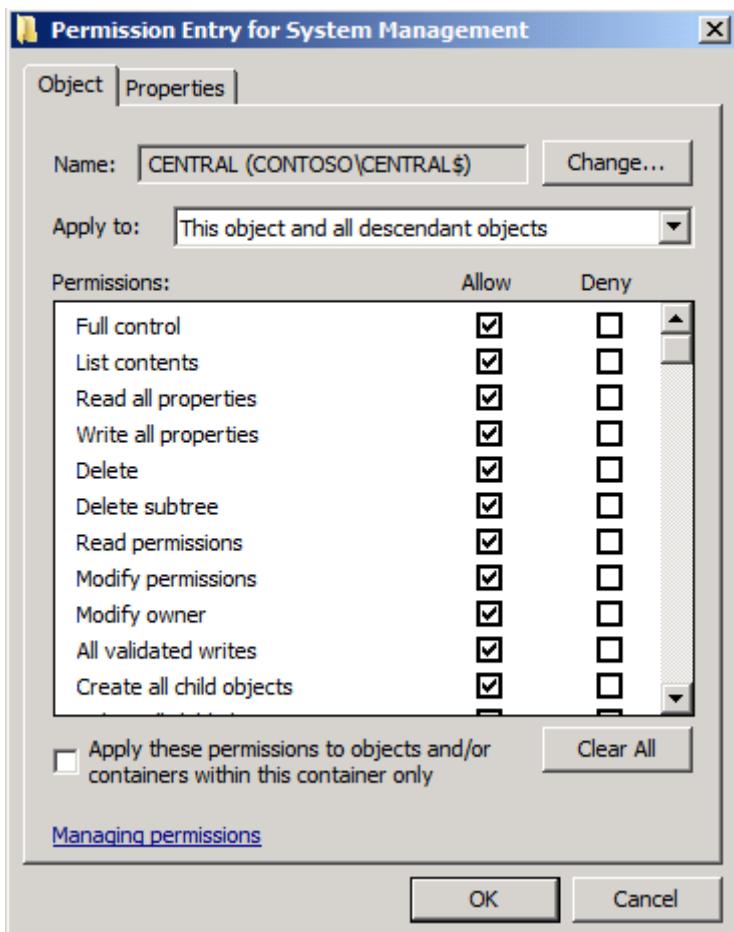
**Permission Entry for System :**

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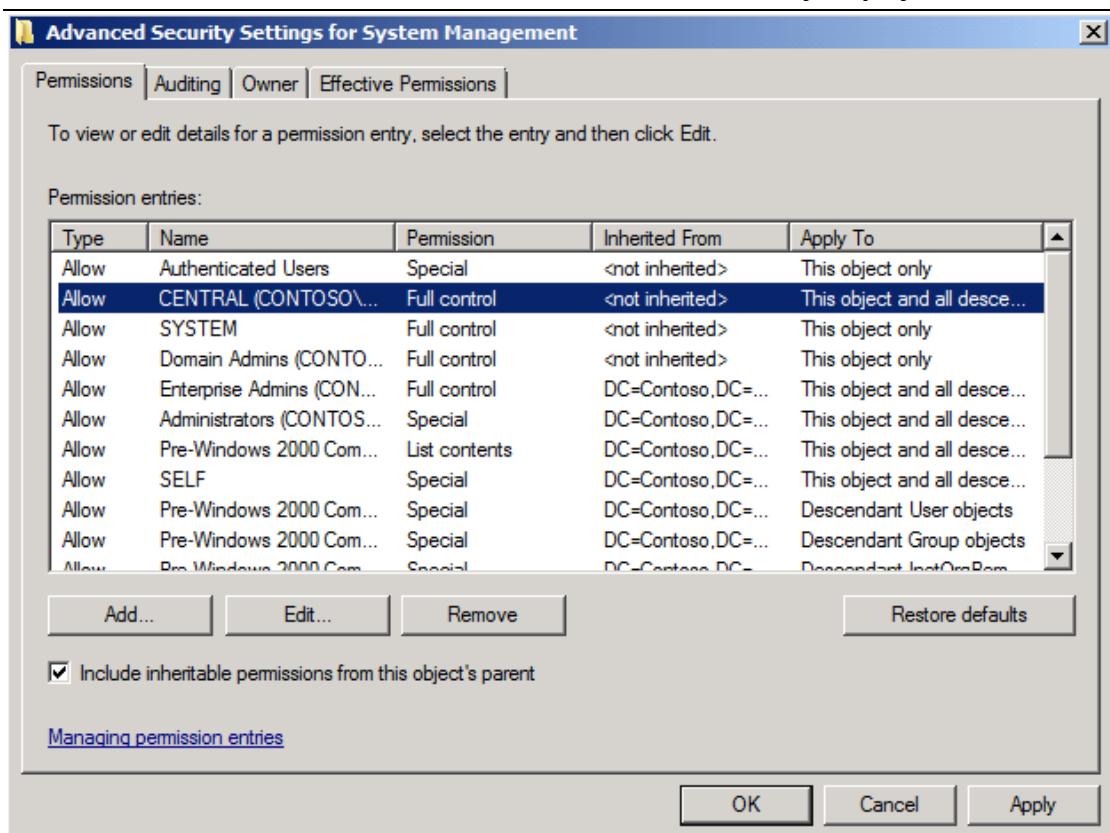
- 19) You need to choose **This object and all descendant objects** In **Apply to** ,  
and confirm all **Allow** items was choose :

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20) Click **OK** and back to **Advanced Security Settings for System** box :

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21) Two consecutive hits **OK** will finish setting AD permission , close ADUC mmc snap-in console.

Note :you need to repeat these step to adding **Primary Site Server** and **Secondary Site Server** name and assign permissions .

## 4. Extending the Active Directory Schema :

- 1) This process is no longer described in this part , you can reference my document **《 System Center 2012 Configuration Manager RTM Advanced Security Deployment Document》** .

## 5. Configure SC2012 ConfigMgr RTM Certificates :

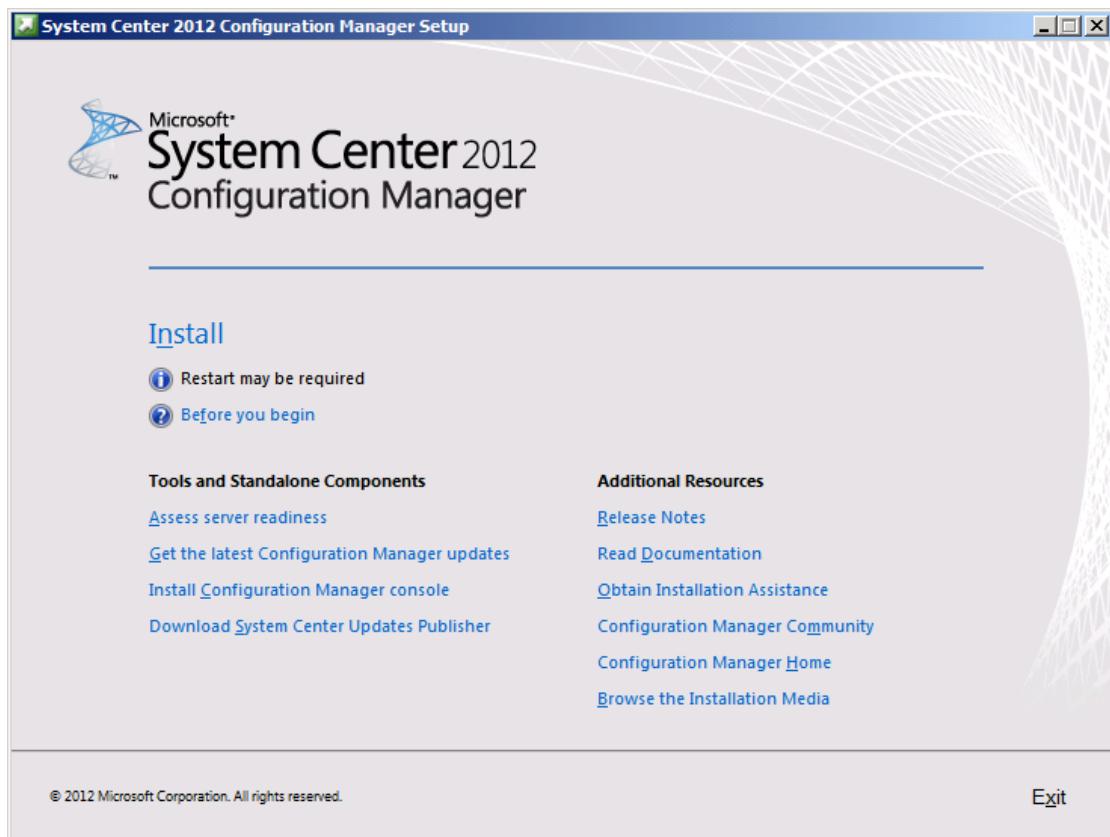
- 1) This process is no longer described in this part , you can reference my document **《 System Center 2012 Configuration Manager RTM Advanced Security Deployment Document》** .

## 6. Installing SC2012 ConfigMgr Central Site DB and requirement Windows components :

1) This process is no longer described in this part , you can reference my document **《 System Center 2012 Configuration Manager RTM Advanced Security Deployment Document》**. Don' t forget installing WSUS 3.0 SP2 and .Net Framework 4.0 .

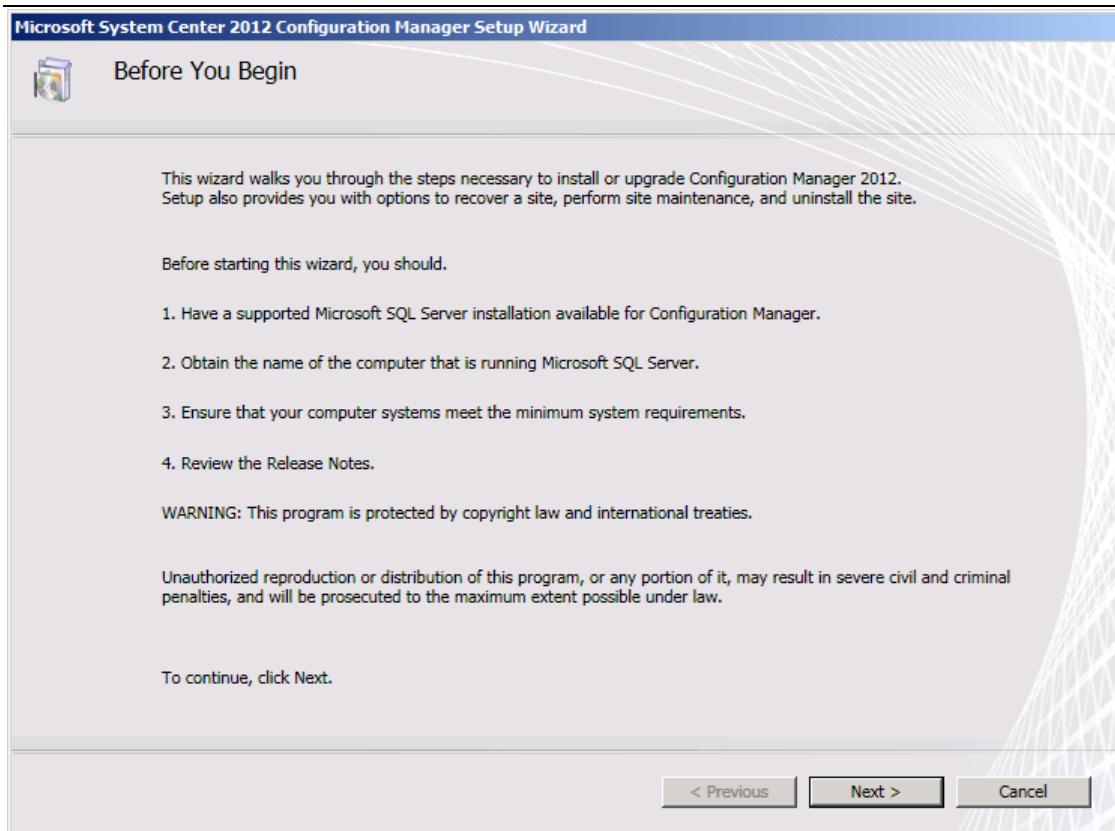
## 7. Installing SC2012 ConfigMgr Central Administration Site :

- 1) Logon to **Central** server , insert SC2012 ConfigMgr RTM image , auto-run and display install page :



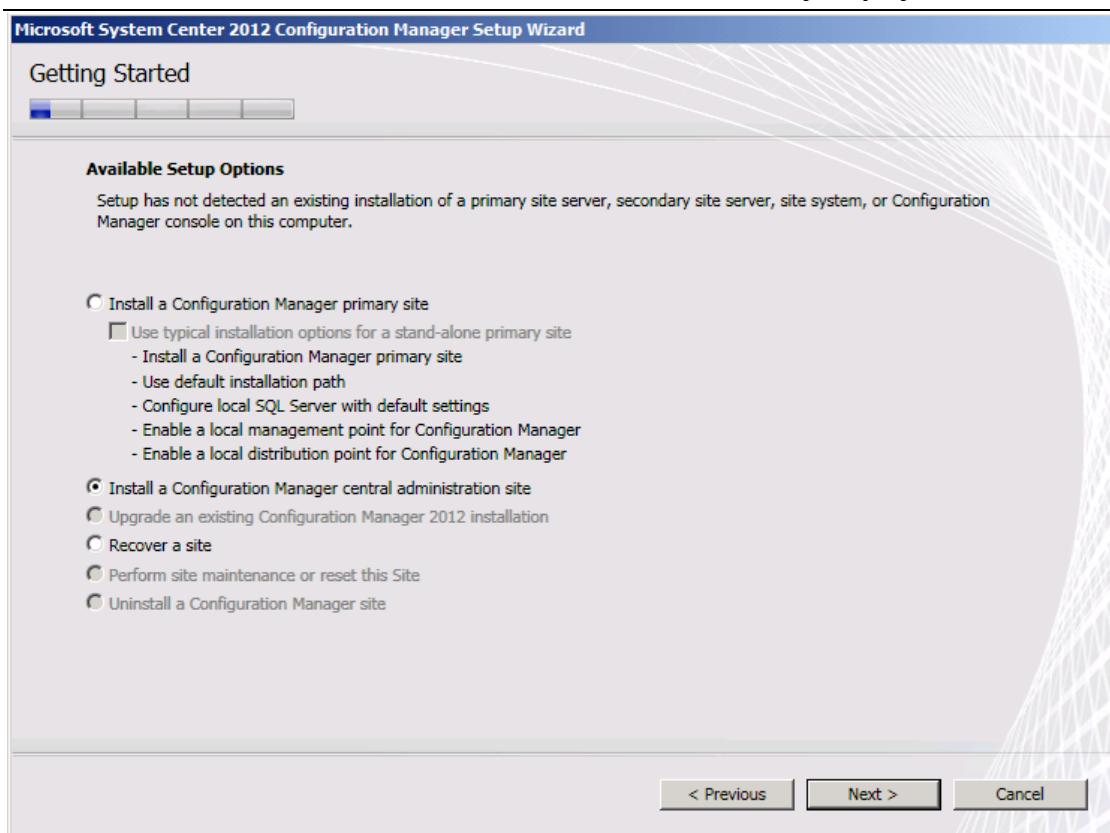
- 2) Click **Install** will display **Before You Begin** page :

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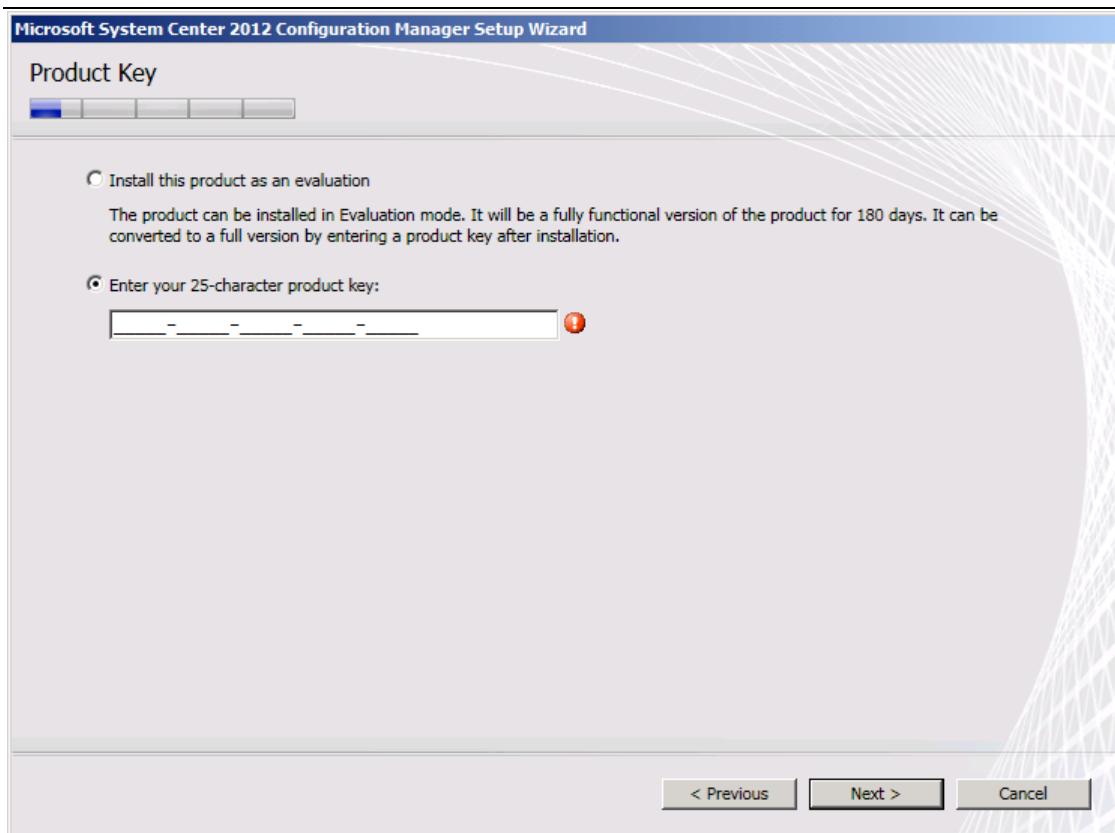
3) Click **Next** , the **Getting started** dialog box appears , click **Install a Configuration Manager central administration site :**

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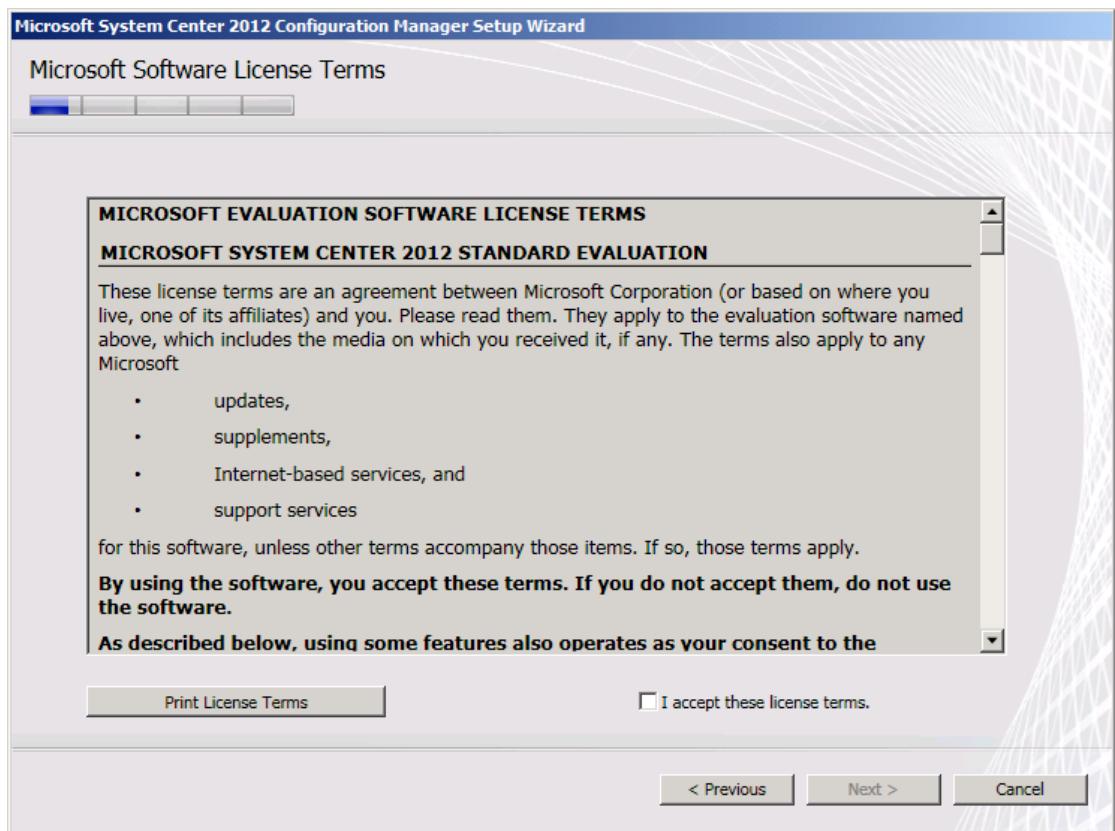


4) Click **Next** , the **Product Key** dialog box appears , please enter product key  
or select **Install this product as an evaluation** :

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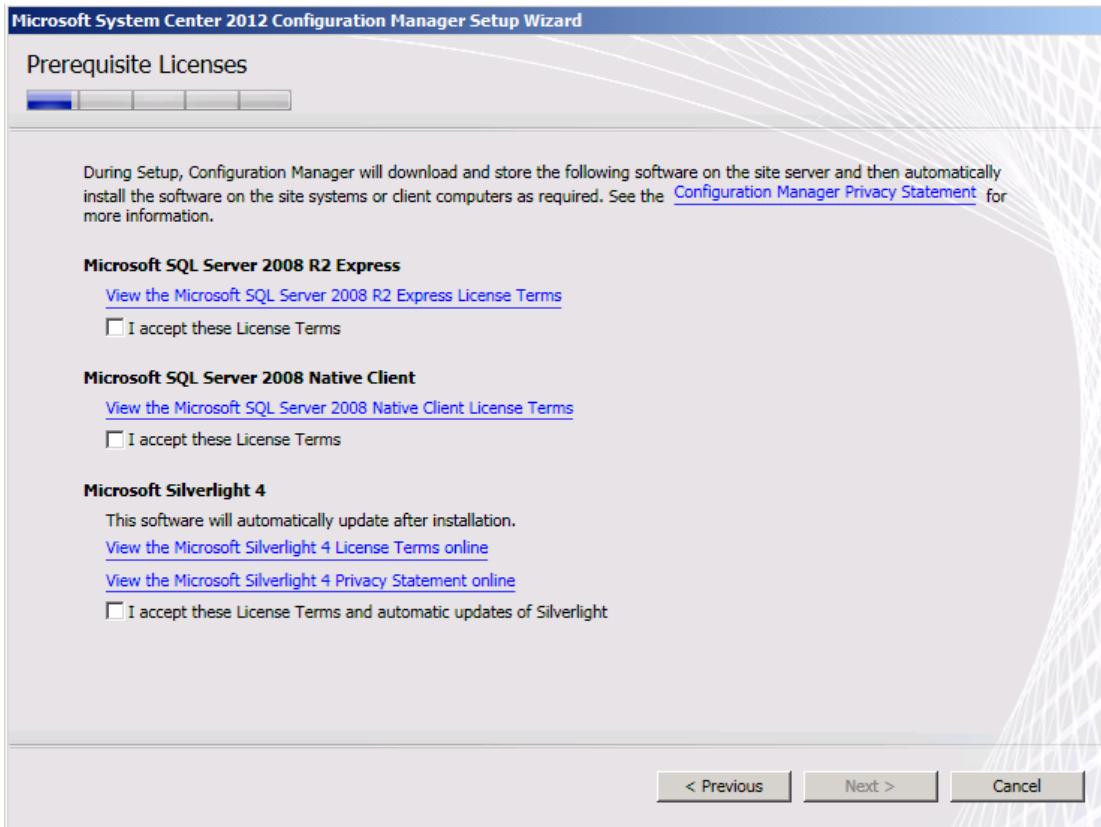


5) Click **Next**, the **Microsoft Software License Terms** dialog box appears :



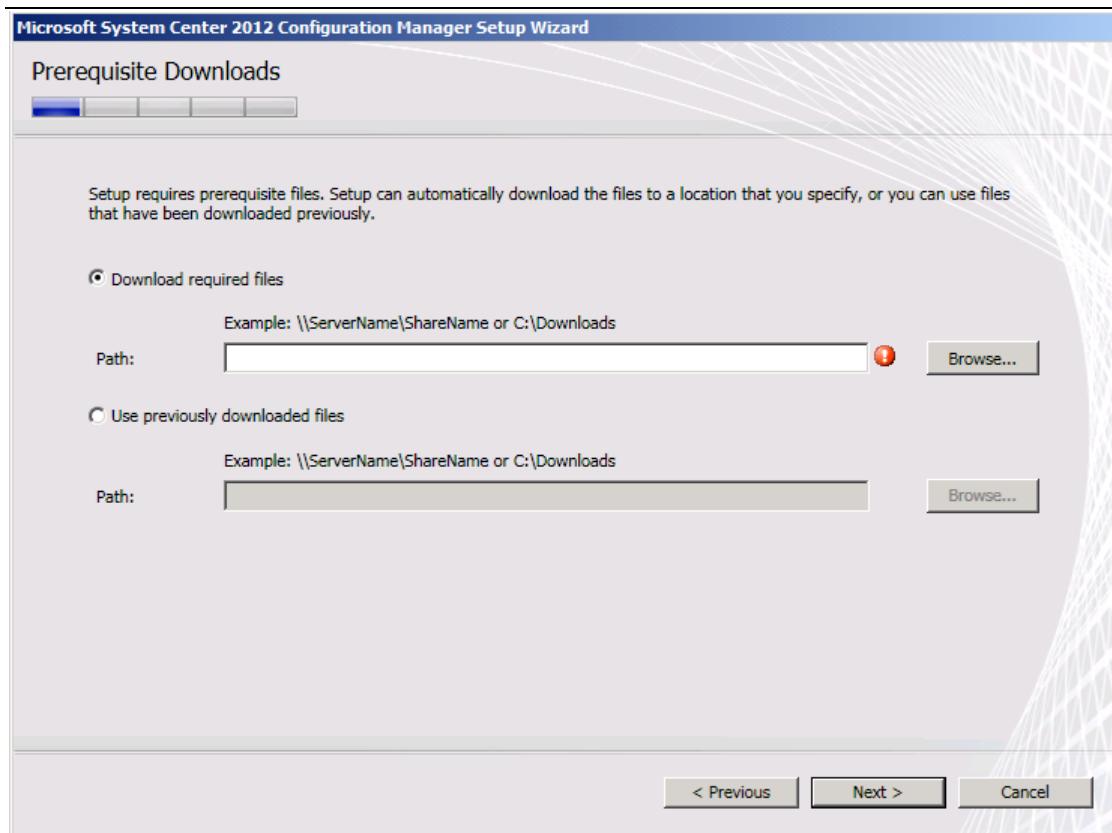
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[http://blogs.technet.com/b/justin\\_gao](http://blogs.technet.com/b/justin_gao)

- 6) Select **I accept these license terms** , and then click **Next** , the **Prerequisite License** dialog box appears :



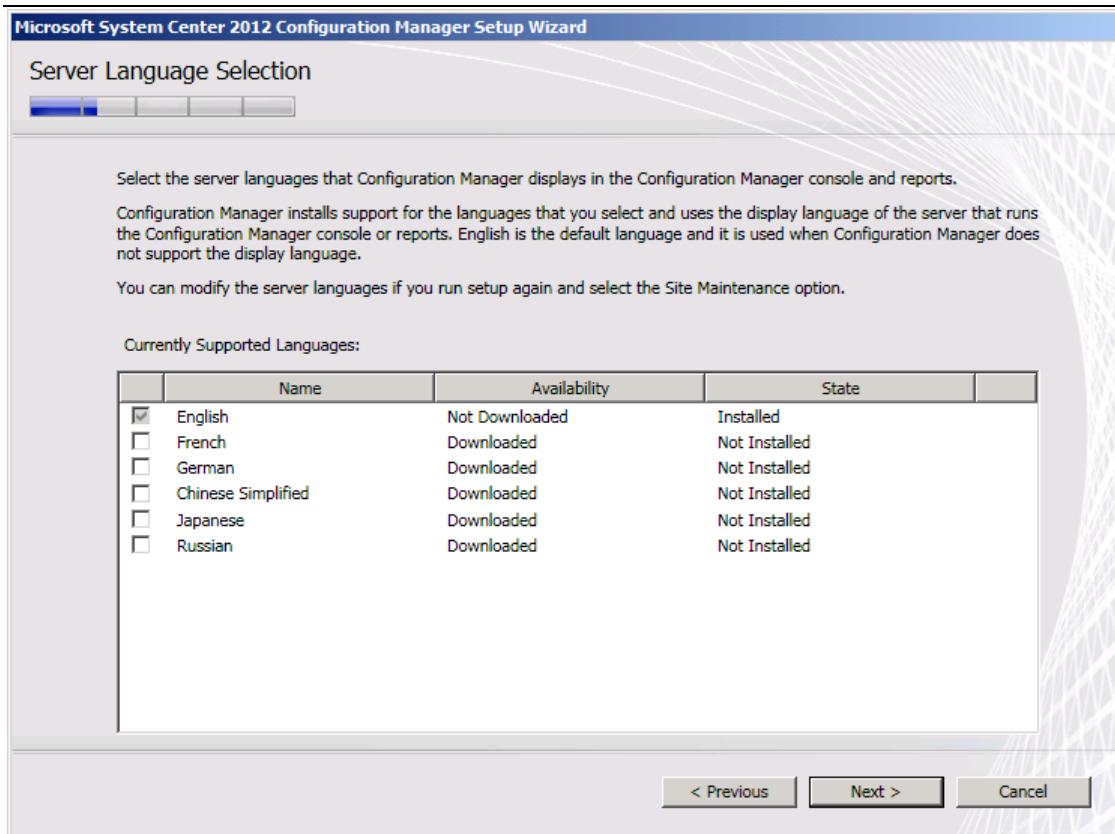
- 7) Select all items , and then click **Next** , the **Prerequisite Downloads** dialog box appears , click any option and specify the path :

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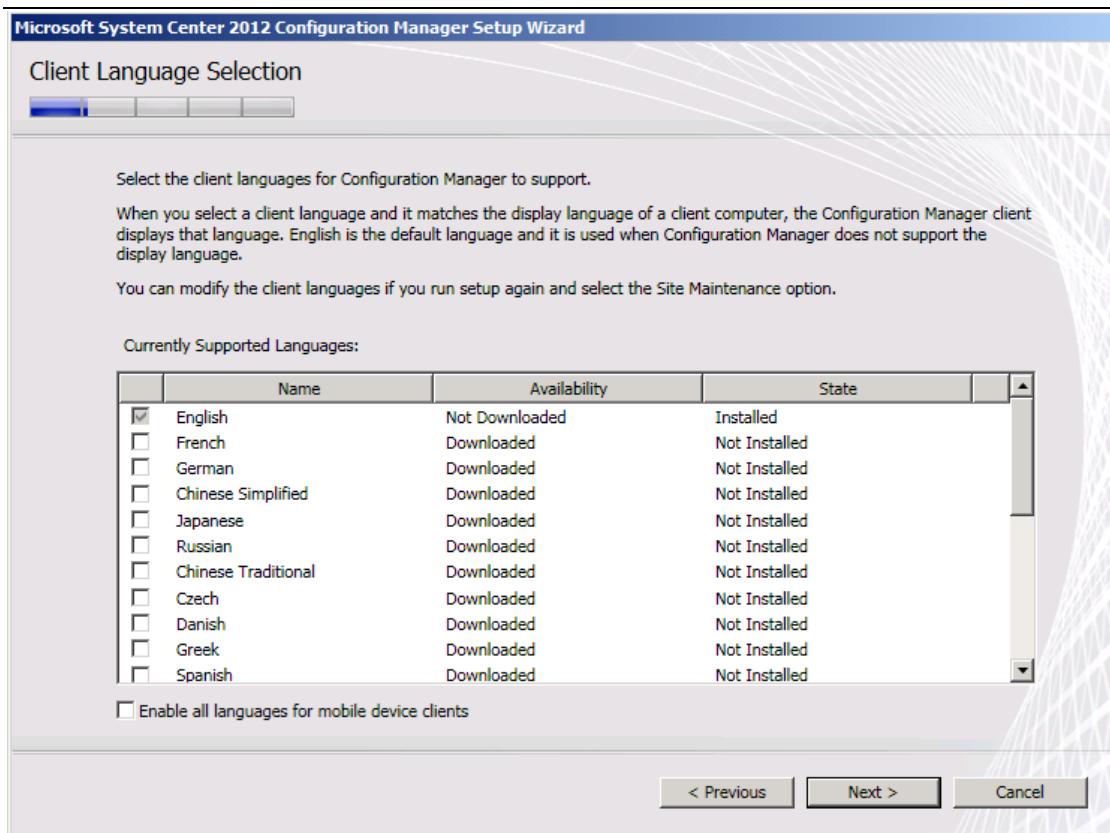
- 8) Click **Next** , the **Configuration Manager Setup Downloader** dialog box appears , waiting some minutes , the **Server Language Selection** dialog box appears:

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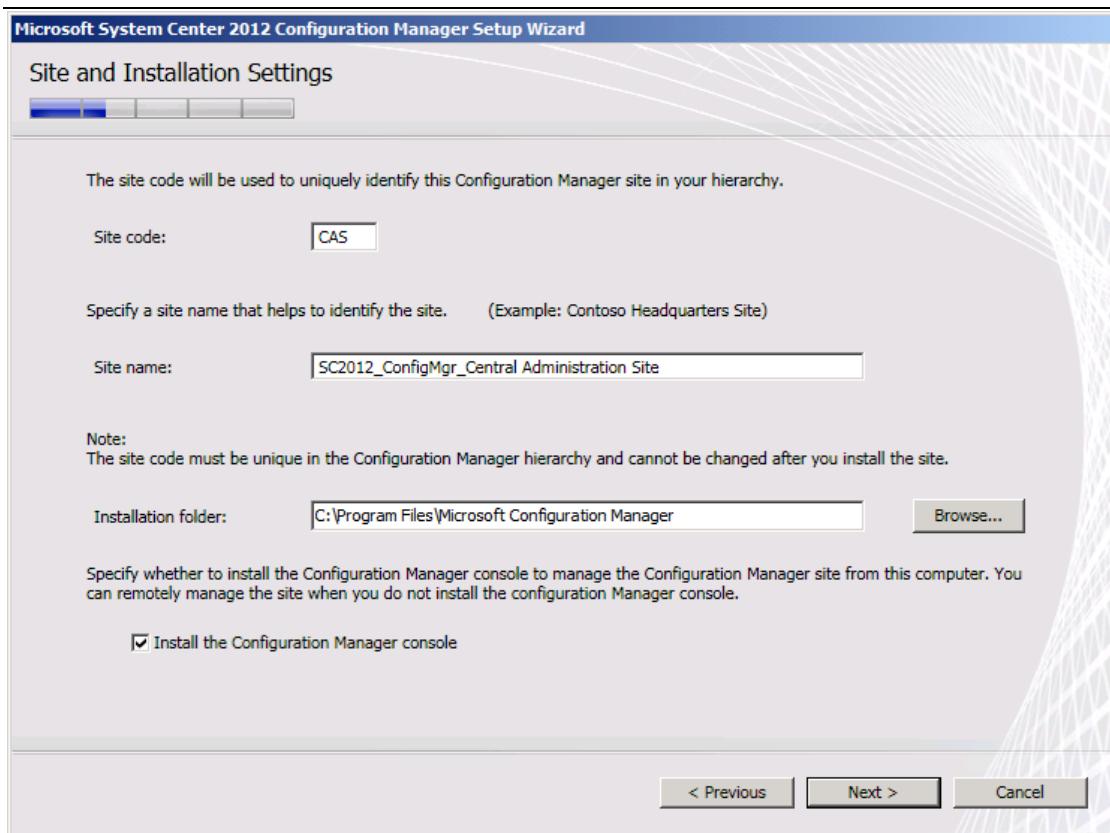
9) Select your needs language and the click **Next** , the **Client Language Selection** dialog box appears :

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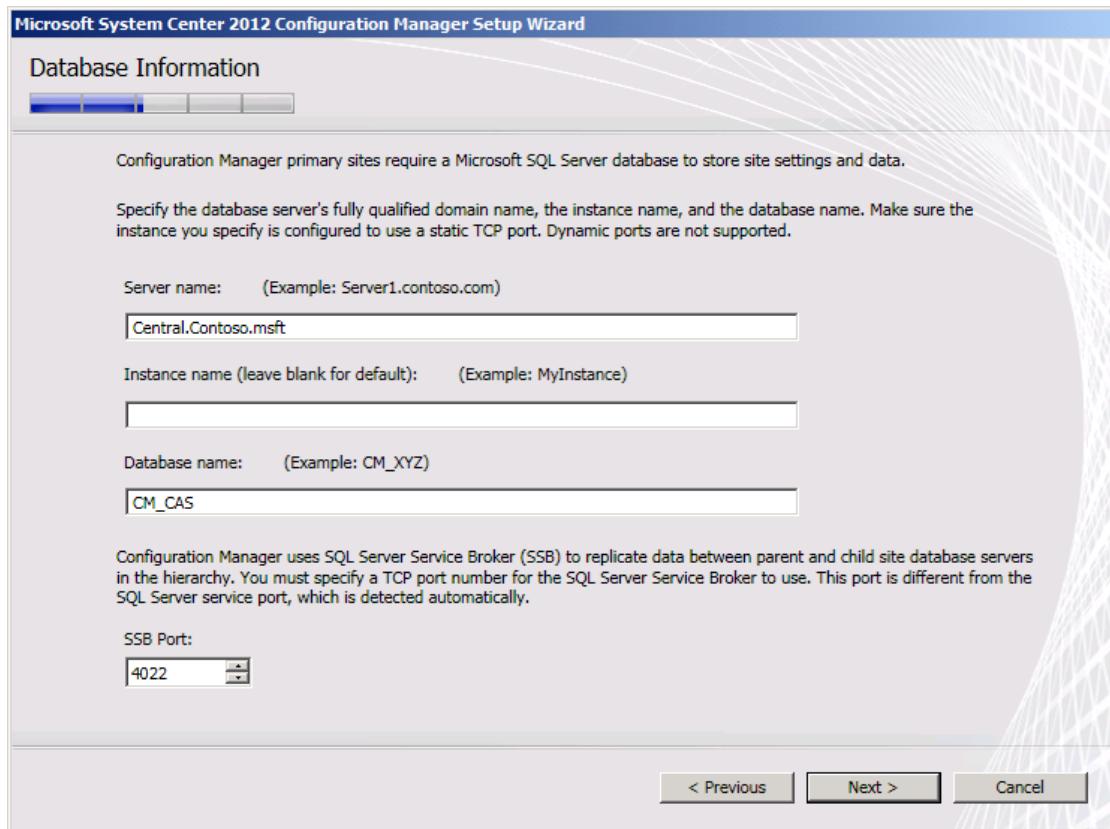


- 10) Select your needs language and the click **Next** , the **Site and Installation Settings** dialog box appears , in **Site code** box, you need to assign site code, and setting site name in the **Site name** box , in **Installation folder** box , you need to setting install path :

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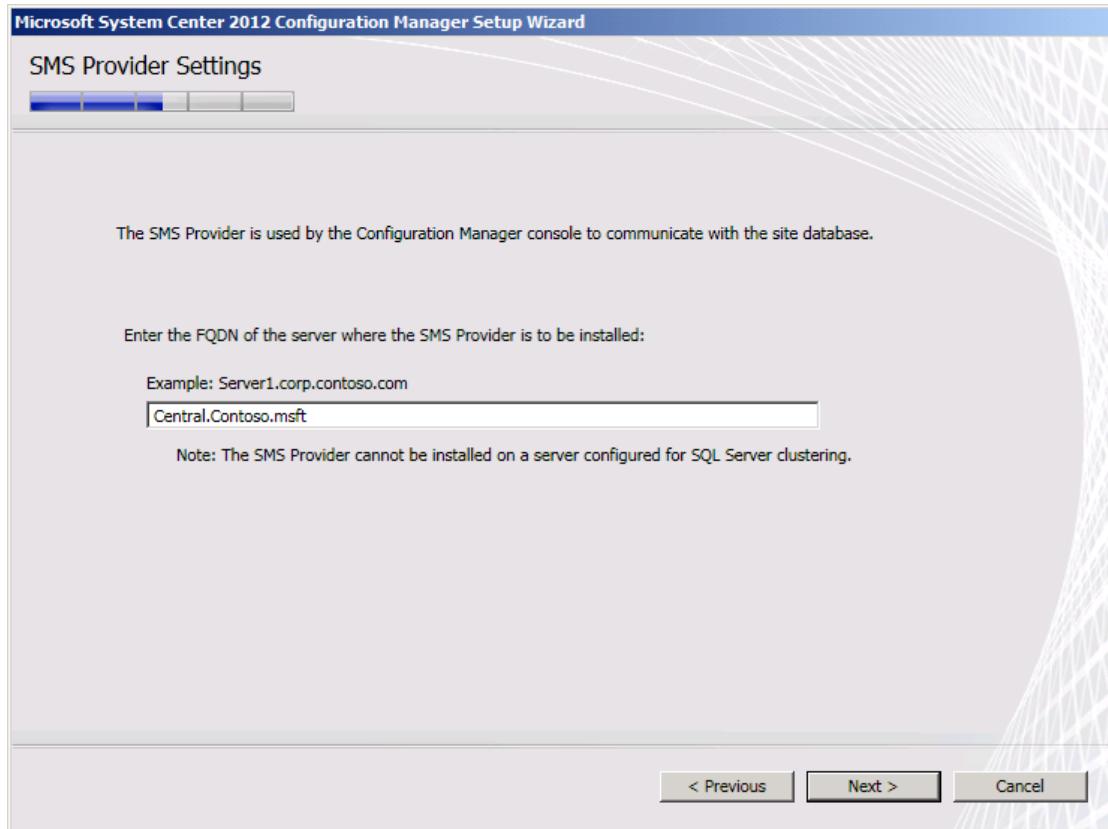


11) Click **Next** , the **Database Information** dialog box appears :



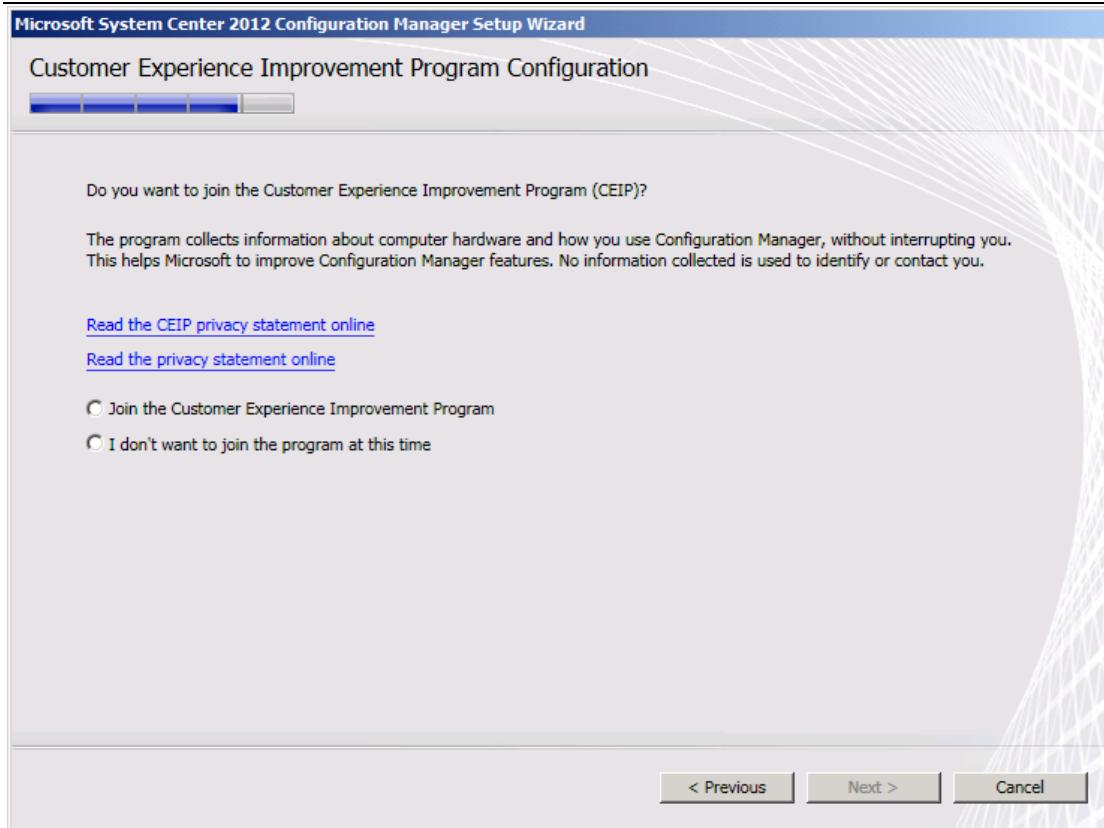
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12) Click **Next** , the **SMS Provider Settings** dialog box appears :



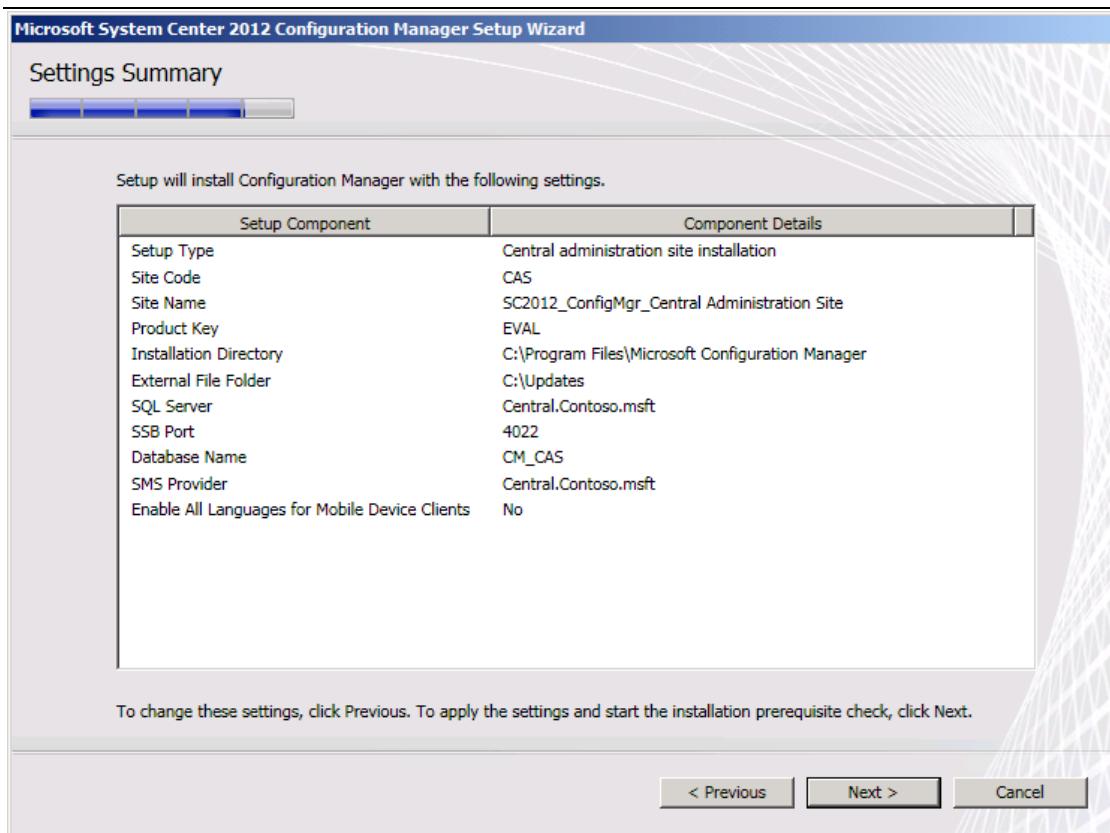
13) Click **Next** , the **Customer Experience Improvement Program Configuration** dialog box appears :

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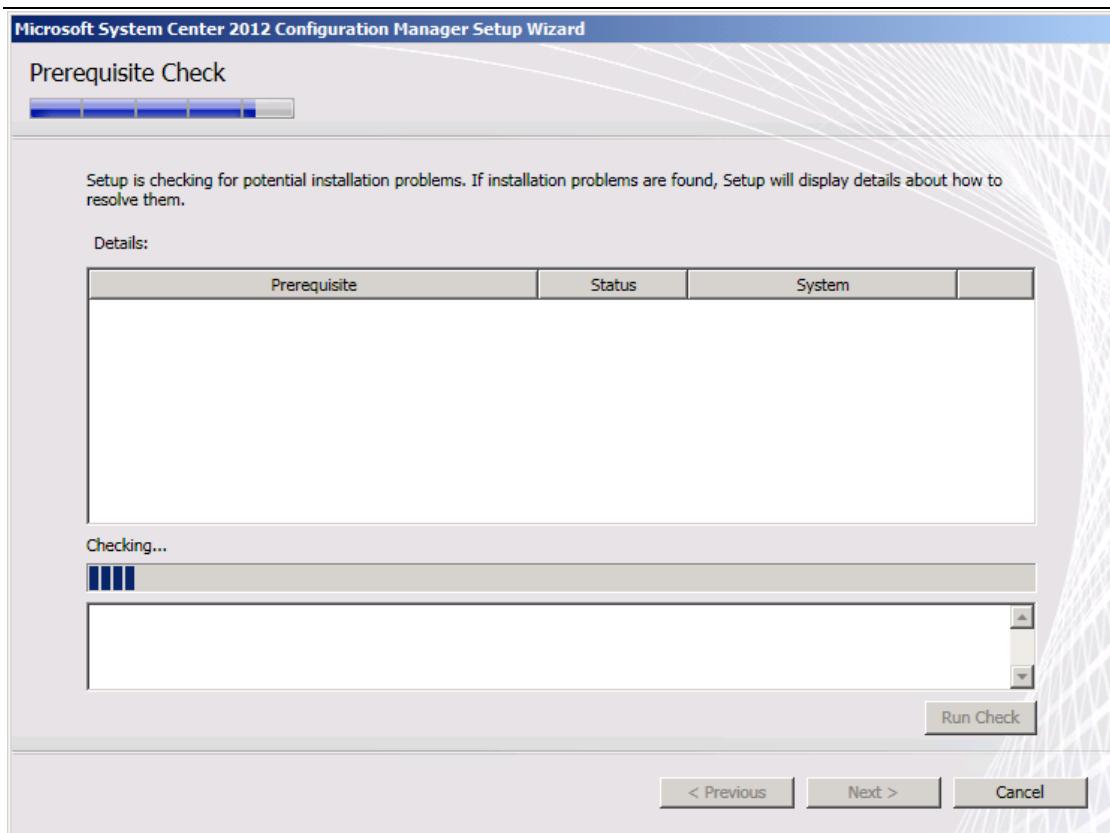
14) Select your needed item and click **Next** , the **Settings Summary** dialog box appears :

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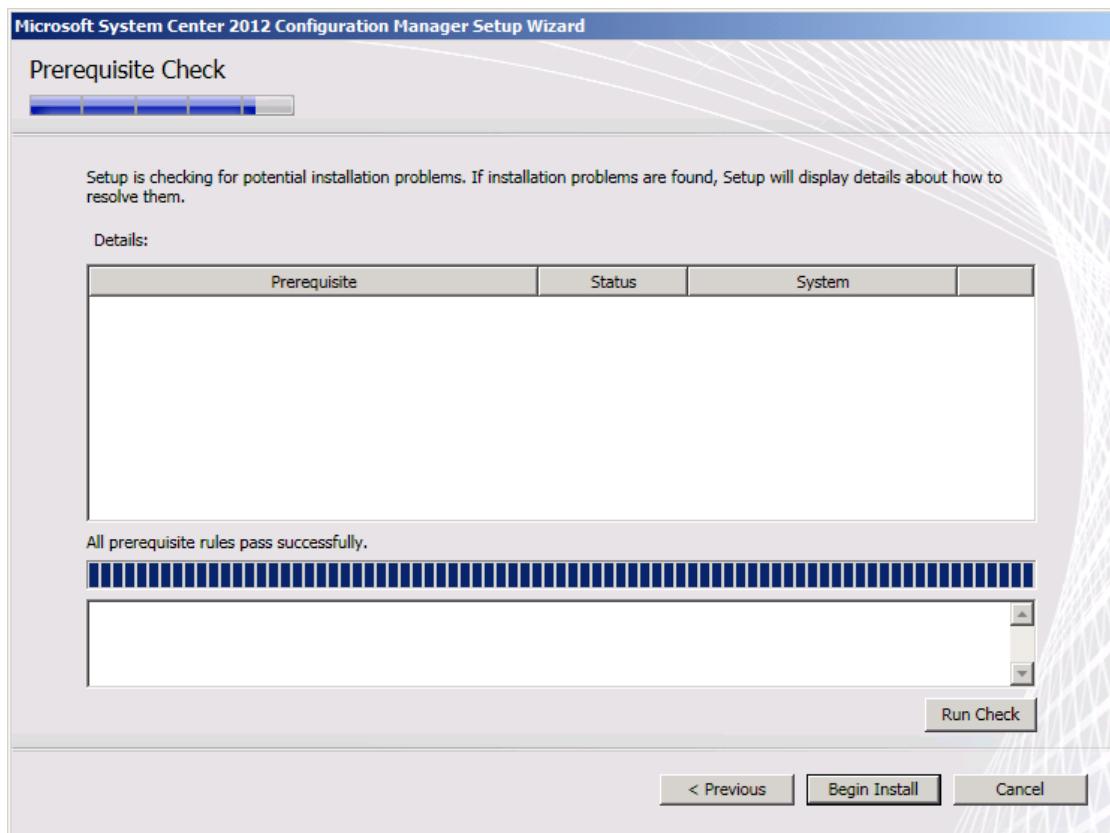


15) You can verify again and click **Next** , the **Prerequisite Check** dialog box appears :

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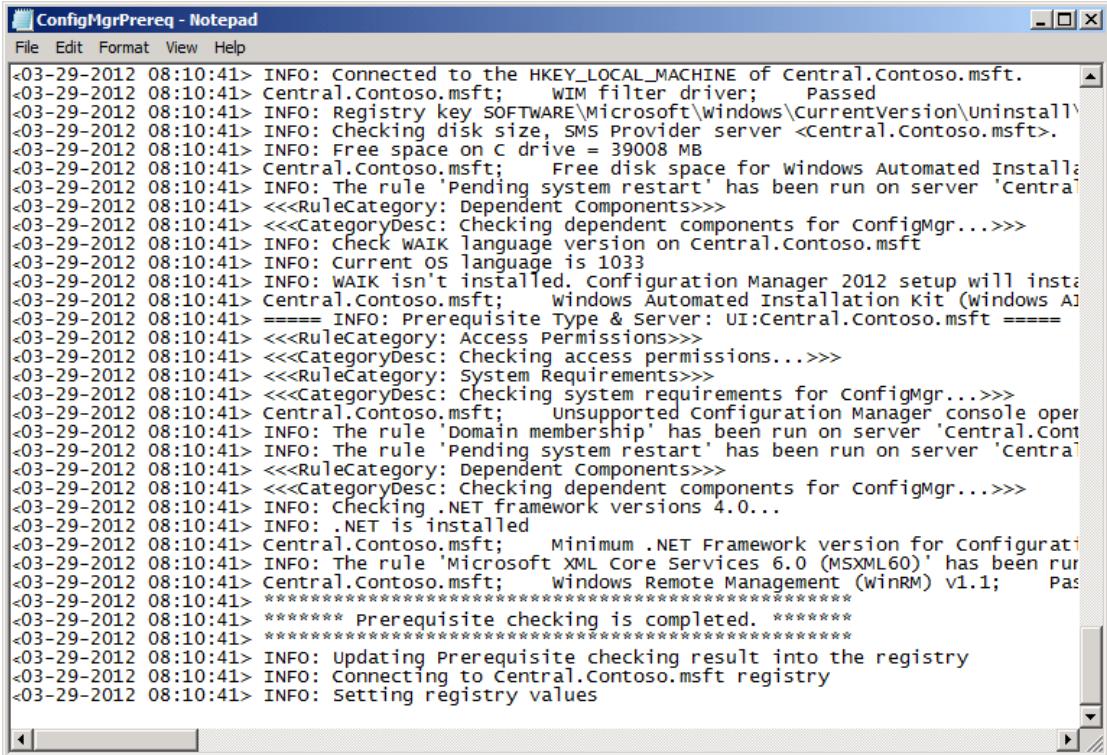
16) Please wait some minutes check completed :



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[http://blogs.technet.com/b/justin\\_gao](http://blogs.technet.com/b/justin_gao)

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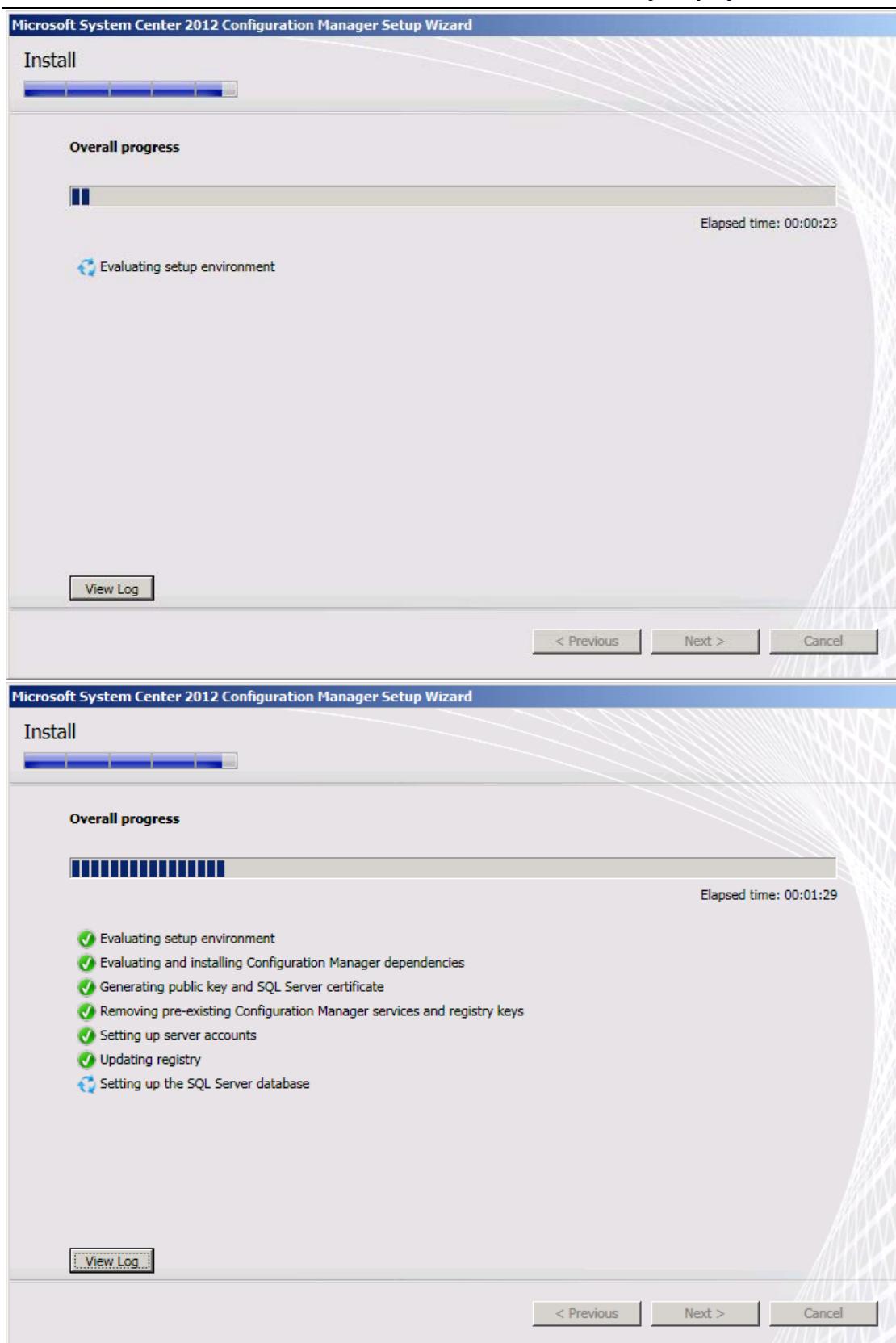
17) No warning and No error , you can check **ConfigMgrPrereq.txt** log file :



```
<03-29-2012 08:10:41> INFO: Connected to the HKEY_LOCAL_MACHINE of Central.Contoso.msft.  
<03-29-2012 08:10:41> Central.Contoso.msft; WIM filter driver; Passed  
<03-29-2012 08:10:41> INFO: Registry key SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\  
<03-29-2012 08:10:41> INFO: Checking disk size, SMS Provider server <Central.Contoso.msft>.  
<03-29-2012 08:10:41> INFO: Free space on C drive = 39008 MB  
<03-29-2012 08:10:41> Central.Contoso.msft; Free disk space for Windows Automated Installa  
<03-29-2012 08:10:41> INFO: The rule 'Pending system restart' has been run on server 'Central  
<03-29-2012 08:10:41> <<<RuleCategory: Dependent Components>>>  
<03-29-2012 08:10:41> <<<CategoryDesc: checking dependent components for ConfigMgr...>>>  
<03-29-2012 08:10:41> INFO: Check WAIK language version on Central.Contoso.msft  
<03-29-2012 08:10:41> INFO: Current OS language is 1033  
<03-29-2012 08:10:41> INFO: WAIK isn't installed. Configuration Manager 2012 setup will insta  
<03-29-2012 08:10:41> Central.Contoso.msft; Windows Automated Installation Kit (Windows AI  
<03-29-2012 08:10:41> ===== INFO: Prerequisite Type & Server: UI:Central.Contoso.msft =====  
<03-29-2012 08:10:41> <<<RuleCategory: Access Permissions>>>  
<03-29-2012 08:10:41> <<<RuleCategory: System Requirements>>>  
<03-29-2012 08:10:41> <<<CategoryDesc: checking system requirements for ConfigMgr...>>>  
<03-29-2012 08:10:41> Central.Contoso.msft; Unsupported Configuration Manager console oper  
<03-29-2012 08:10:41> INFO: The rule 'Domain membership' has been run on server 'Central.Cont  
<03-29-2012 08:10:41> INFO: The rule 'Pending system restart' has been run on server 'Central  
<03-29-2012 08:10:41> <<<RuleCategory: Dependent Components>>>  
<03-29-2012 08:10:41> <<<CategoryDesc: checking dependent components for ConfigMgr...>>>  
<03-29-2012 08:10:41> INFO: Checking .NET framework versions 4.0...  
<03-29-2012 08:10:41> INFO: .NET is installed  
<03-29-2012 08:10:41> Central.Contoso.msft; Minimum .NET Framework version for Configurati  
<03-29-2012 08:10:41> INFO: The rule 'Microsoft XML Core Services 6.0 (MSXML60)' has been run  
<03-29-2012 08:10:41> Central.Contoso.msft; Windows Remote Management (WinRM) v1.1; Pas  
<03-29-2012 08:10:41> ***** Prerequisite checking is completed. *****  
<03-29-2012 08:10:41> ***** Prerequisite checking result into the registry  
<03-29-2012 08:10:41> INFO: Connecting to Central.Contoso.msft registry  
<03-29-2012 08:10:41> INFO: Setting registry values
```

18) Click **Begin Install** to starting installing progress :

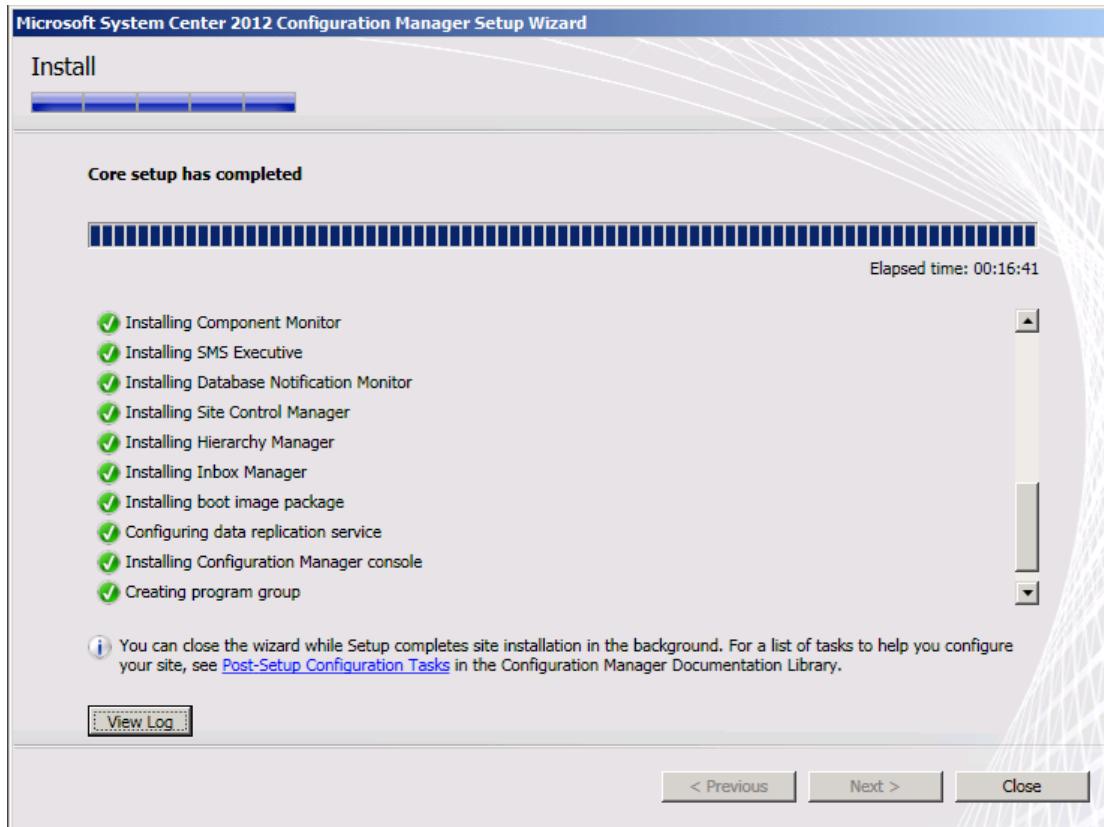
**System Center 2012  
Configuration Manager RTM  
Hierarchy Deployment Document**



19) The time to install a Configuration Manager 2012 RTM central

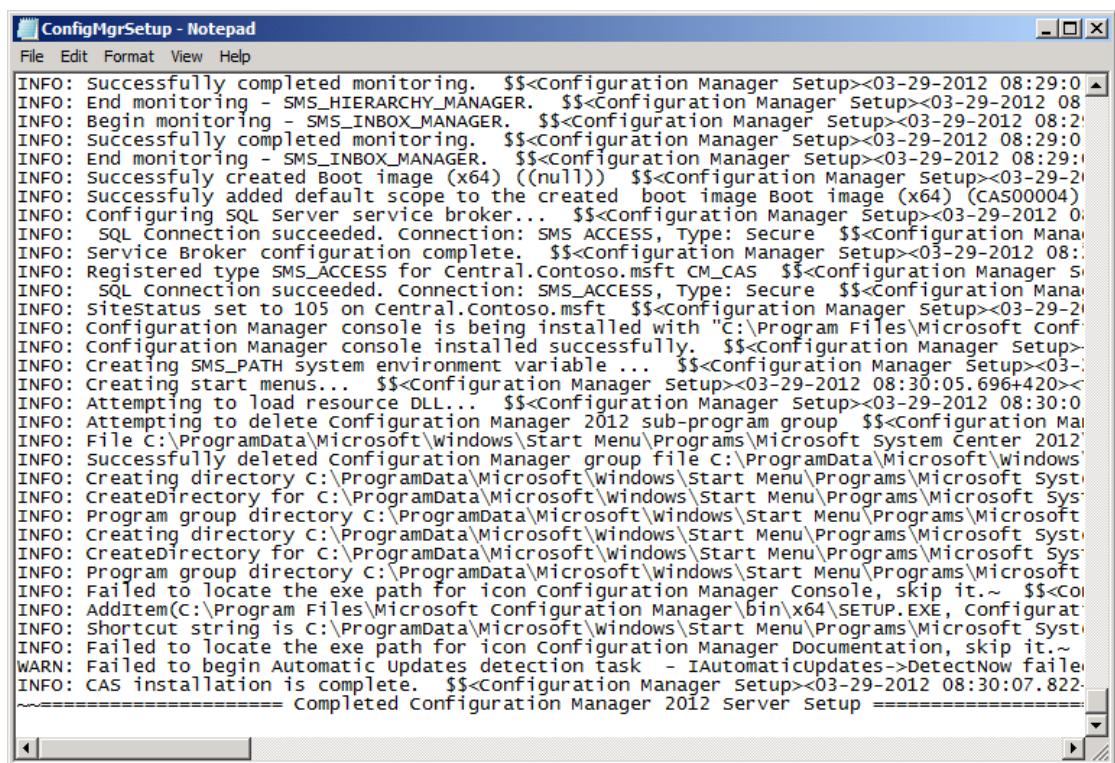
Justin Gao 高扬  
yanga@microsoft.com  
[http://blogs.technet.com/b/justin\\_gao](http://blogs.technet.com/b/justin_gao)

administration site will be dependent on the hardware available , it could take over 20 minutes . When complete , the **Core setup has completed** dialog box appears indicating that setup completed each action successfully :



20) Click **View Log** can open **ConfigMgrSetup.log** file :

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```
ConfigMgrSetup - Notepad
File Edit Format View Help
INFO: Successfully completed monitoring. $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: End monitoring - SMS_HIERARCHY_MANAGER. $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Begin monitoring - SMS_INBOX_MANAGER. $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Successfully completed monitoring. $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: End monitoring - SMS_INBOX_MANAGER. $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Successfully created Boot image (x64) ((null)) $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Successfully added default scope to the created boot image Boot image (x64) (CAS000004)
INFO: Configuring SQL Server service broker... $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: SQL Connection succeeded. Connection: SMS_ACCESS, Type: Secure $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Service Broker configuration complete. $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Registered type SMS_ACCESS for Central.Contoso.msft CM_CAS $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: SQL Connection succeeded. Connection: SMS_ACCESS, Type: Secure $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Sitestatus set to 105 on Central.Contoso.msft $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Configuration Manager console is being installed with "C:\Program Files\Microsoft Configuration Manager console installed successfully. $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Creating SMS_PATH system environment variable... $$<Configuration Manager Setup><03-29-2012 08:29:0
INFO: Creating start menus... $$<Configuration Manager Setup><03-29-2012 08:30:05.696+420><Configuration Manager Setup><03-29-2012 08:30:05.696+420>
INFO: Attempting to load resource DLL... $$<Configuration Manager Setup><03-29-2012 08:30:05.696+420><Configuration Manager Setup><03-29-2012 08:30:05.696+420>
INFO: Attempting to delete Configuration Manager 2012 sub-program group $$<Configuration Manager Setup><03-29-2012 08:30:05.696+420><Configuration Manager Setup><03-29-2012 08:30:05.696+420>
INFO: File C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft System Center 2012\Completed Configuration Manager 2012 Server Setup ======
INFO: Successfully deleted Configuration Manager group file C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft System Center 2012\Completed Configuration Manager 2012 Server Setup ======
INFO: Creating directory C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft System Center 2012\Completed Configuration Manager 2012 Server Setup ======
INFO: CreateDirectory for C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft System Center 2012\Completed Configuration Manager 2012 Server Setup ======
INFO: Program group directory C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft System Center 2012\Completed Configuration Manager 2012 Server Setup ======
INFO: Creating directory C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft System Center 2012\Completed Configuration Manager 2012 Server Setup ======
INFO: CreateDirectory for C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft System Center 2012\Completed Configuration Manager 2012 Server Setup ======
INFO: Program group directory C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft System Center 2012\Completed Configuration Manager 2012 Server Setup ======
INFO: Failed to locate the exe path for icon Configuration Manager Console, skip it.~ $$<Configuration Manager Setup><03-29-2012 08:30:05.696+420><Configuration Manager Setup><03-29-2012 08:30:05.696+420>
INFO: AddItem(C:\Program Files\Microsoft Configuration Manager\bin\x64\SETUP.EXE, Configuration Manager)
INFO: Shortcut string is C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft System Center 2012\Completed Configuration Manager 2012 Server Setup ======
INFO: Failed to locate the exe path for icon Configuration Manager Documentation, skip it.~ $$<Configuration Manager Setup><03-29-2012 08:30:05.696+420><Configuration Manager Setup><03-29-2012 08:30:05.696+420>
WARN: Failed to begin Automatic Updates detection task - IAutomaticUpdates->DetectNow failed
INFO: CAS installation is complete. $$<Configuration Manager Setup><03-29-2012 08:30:07.822><Configuration Manager Setup><03-29-2012 08:30:07.822>
===== Completed Configuration Manager 2012 Server Setup =====
```

21) Close log file and click **Close**.

22) On the **Start** menu , click **All Programs --- Microsoft System Center 2012**

--- **Configuration Manager** , and then click **Configuration Manager Console** , the **System Center 2012 Configuration Manager** console window appears , click the **Monitoring** workspace , in the navigation pane , expand **System Status** , and then click **Site Status** :

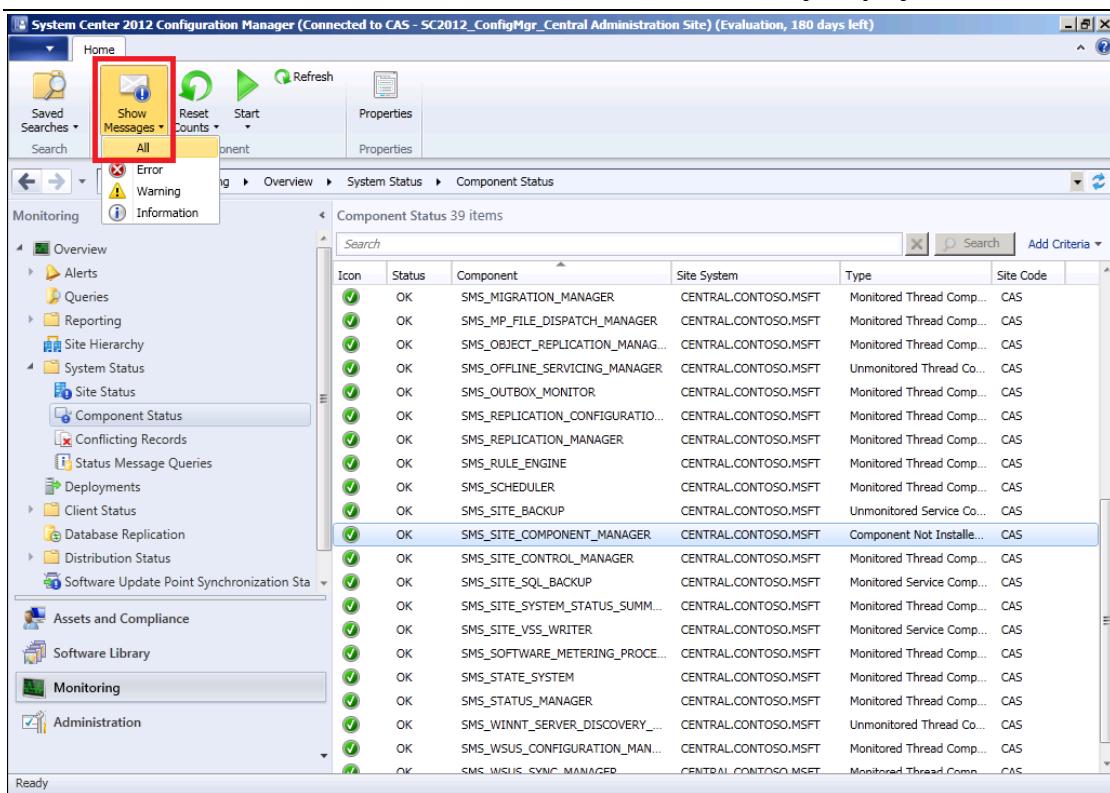
**System Center 2012  
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The screenshot shows the System Center 2012 Configuration Manager interface. The title bar reads "System Center 2012 Configuration Manager (Connected to CAS - SC2012\_ConfigMgr\_Central Administration Site) (Evaluation, 180 days left)". The ribbon tabs are Home, Monitoring, Overview, System Status, and Site Status. The left navigation pane under Monitoring includes Overview, Alerts, Queries, Reporting, Site Hierarchy, System Status (which is selected), Site Status, Component Status, Conflicting Records, Status Message Queries, Deployments, Client Status, Database Replication, Distribution Status, and Software Update Point Synchronization Status. The right pane displays a table titled "Site Status 4 items". The table columns are Icon, Status, Site System, Site System Role, Storage Object, Total, and Site Code. The data rows are:

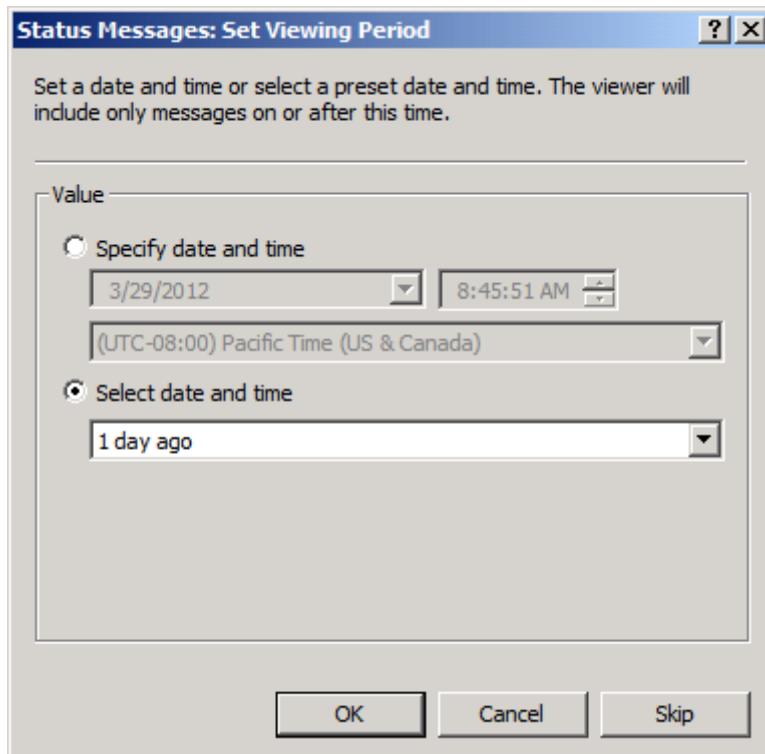
Icon	Status	Site System	Site System Role	Storage Object	Total	Site Code
Green checkmark	OK	\Central.Contoso.msft	Site database server	CM_CAS Database	5 GB	CAS
Green checkmark	OK	\Central.Contoso.msft	Site database server	CM_CAS Transaction Log	214.1 MB	CAS
Green checkmark	OK	\CENTRAL.CONTOSO.MSFT	Component server	\CENTRAL.CONTOSO.MSFT\C\$\Pro...	59.9 GB	CAS
Green checkmark	OK	\Central.Contoso.msft	Site server	\Central.Contoso.msft\C\$\Program...	59.9 GB	CAS

23) Click **Component Status** , in the results pane , click **SMS\_SITE\_COMPONENT\_MANAGER** , and then on the Ribbon , click **Show Messages --- All :**

**System Center 2012  
Configuration Manager RTM  
Hierarchy Deployment Document**



24) The **Status Messages : Set Viewing Period** dialog box appears :



25) Click **OK** , the Configuration Manager Status Message Viewer for <CAS>

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window appears :

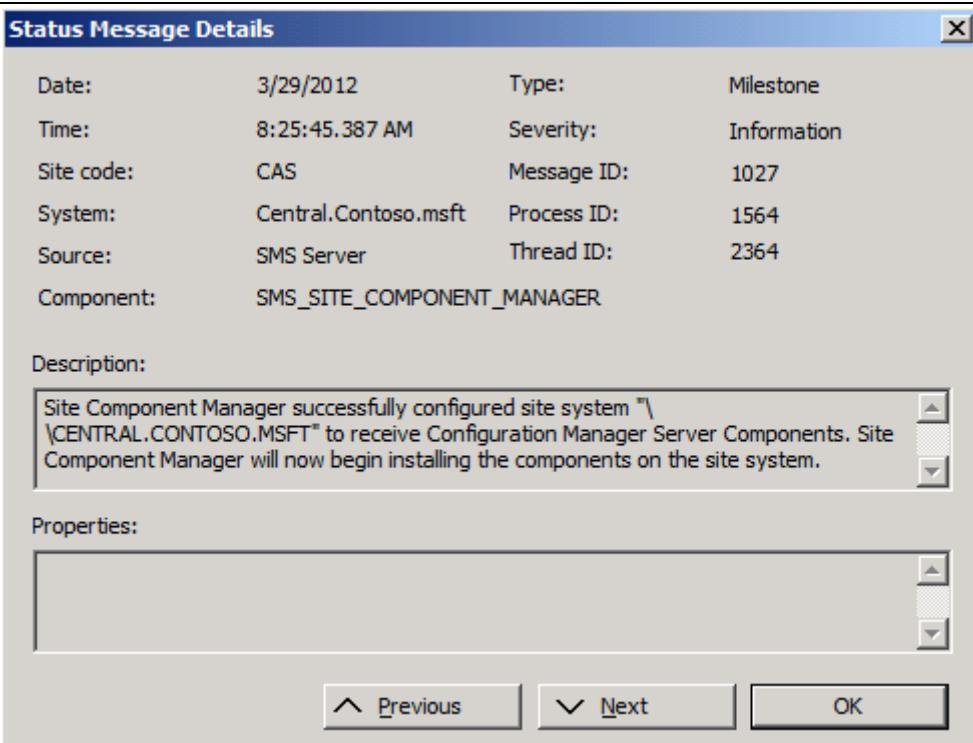
The screenshot shows a Windows application window titled "Configuration Manager Status Message Viewer for <CAS> <SC2012\_ConfigMgr\_Central Administration Site>". The window has a menu bar with File, Edit, View, and Help. Below the menu is a toolbar with icons for New, Open, Save, Print, and Close. A search bar labeled "Original Query" is present. The main area is a grid table with columns: Severity, Type, Site code, Date / Time, System, Component, Message ID, and Description. There are 7 rows of data, all of which are "Milestone" type messages from the "CAS" site. The first six messages have message IDs 4629, 4611, 4610, 4631, 1026, and 1027 respectively. The last message has a message ID of 500. The "Description" column for message 1027 contains the text "Site Component Manager is...". At the bottom of the window, a status bar displays "Command Query : 7 of 7 messages displayed. 1 selected.".

Severity	Type	Site code	Date / Time	System	Component	Message ID	Description
Info	Milestone	CAS	3/29/2012 8:29:13 AM	CENTRAL.C...	SMS_SITE_C...	4629	Component Status Summar...
Info	Milestone	CAS	3/29/2012 8:29:13 AM	CENTRAL.C...	SMS_SITE_C...	4611	Component Status Summar...
Info	Milestone	CAS	3/29/2012 8:28:21 AM	CENTRAL.C...	SMS_SITE_C...	4610	Component Status Summar...
Info	Milestone	CAS	3/29/2012 8:28:21 AM	CENTRAL.C...	SMS_SITE_C...	4631	Component Status Summar...
Info	Milestone	CAS	3/29/2012 8:25:45 AM	Central.Cont...	SMS_SITE_C...	1026	Site Component Manager is...
Info	Milestone	CAS	3/29/2012 8:25:45 AM	Central.Cont...	SMS_SITE_C...	1027	Site Component Manager s...
Info	Milestone	CAS	3/29/2012 8:25:44 AM	Central.Cont...	SMS_SITE_C...	500	This component started.

26) Click the **1027** message , and then on the **View** menu , click **Detail** , the

**Status Message Details** dialog box appears :

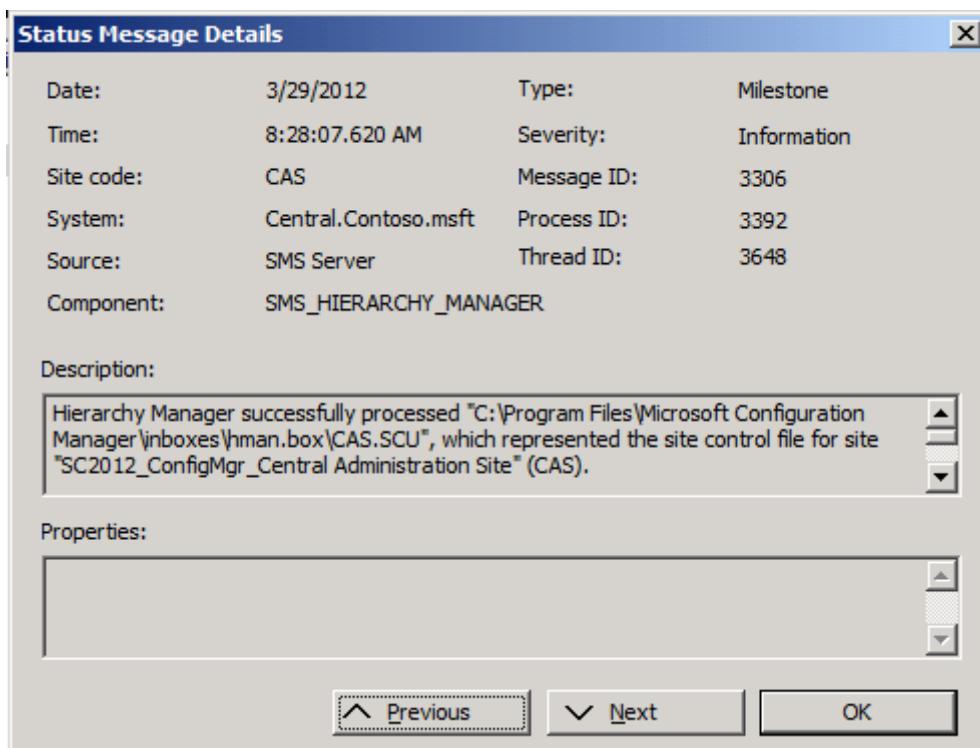
System Center 2012  
Configuration Manager RTM  
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27) Click **OK** , in the results pane , click **SMS\_HIERARCHY\_MANAGER** , and then on the Ribbon , click **Show Messages --- All** :

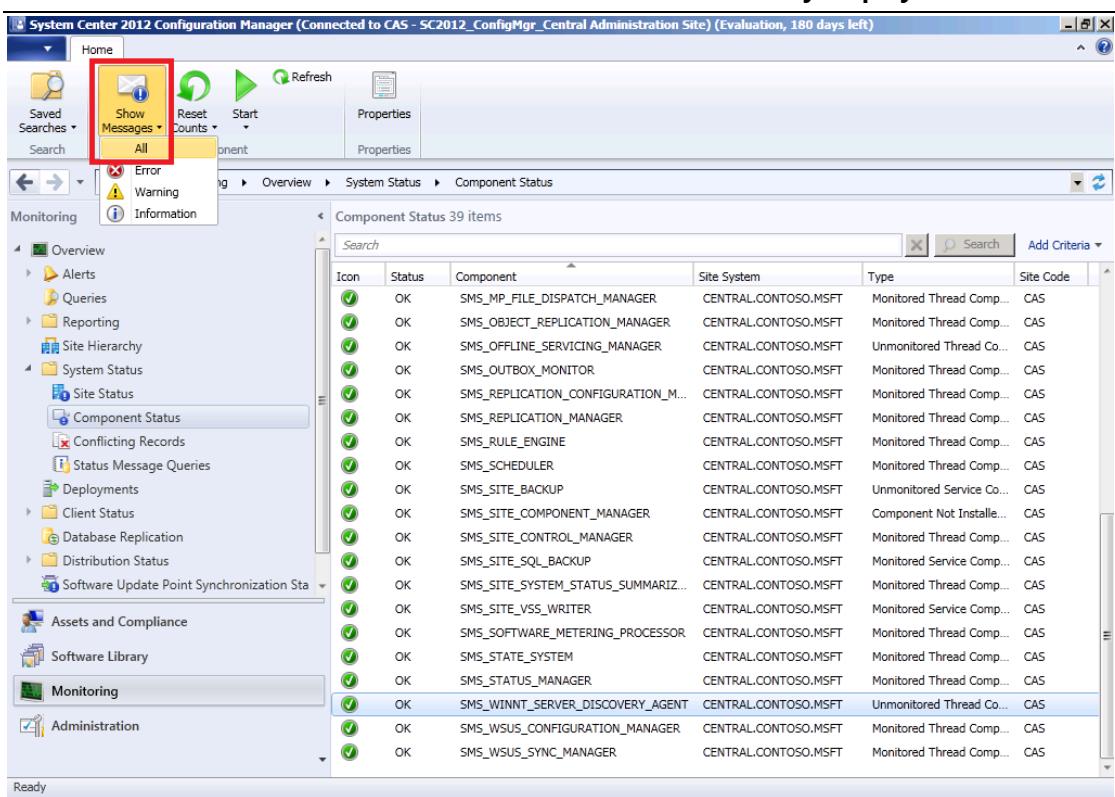
Icon	Status	Component	Site System	Type	Site Code
Green checkmark	OK	SMS_EXECUTIVE	CENTRAL.CONTOSO.MSFT	Monitored Service Comp...	CAS
Green checkmark	OK	SMS_HIERARCHY_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_INBOX_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_INBOX_MONITOR	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_INVENTORY_DATA_LOADER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_LAN_SENDER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_MIGRATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_MP_FILE_DISPATCH_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_OBJECT_REPLICATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_OFFLINE_SERVICING_MANAGER	CENTRAL.CONTOSO.MSFT	Unmonitored Thread Co...	CAS
Green checkmark	OK	SMS_OUTBOX_MONITOR	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_REPLICATION_CONFIGURATIO...	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_REPLICATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_RULE_ENGINE	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_SCHEDULER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_SITE_BACKUP	CENTRAL.CONTOSO.MSFT	Unmonitored Service Co...	CAS
Green checkmark	OK	SMS_SITE_COMPONENT_MANAGER	CENTRAL.CONTOSO.MSFT	Component Not Installed	CAS
Green checkmark	OK	SMS_SITE_CONTROL_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_SITE_SQL_BACKUP	CENTRAL.CONTOSO.MSFT	Monitored Service Comp...	CAS
Green checkmark	OK	SMS_SITE_SYSTEM_STATUS_SUMM...	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_SITE_VSS_WRITER	CENTRAL.CONTOSO.MSFT	Monitored Service Comp...	CAS

28) The **Status Messages : Set Viewing Period** dialog box appears , click **OK** ,  
Click the **3306** message , and then on the **View** menu , click **Detail** , the **Status**  
**Message Details** dialog box appears :



29) Click **OK** , in the results pane , click **SMS\_WINNT\_SERVER\_DISCOVERY\_AGENT** , and then on the Ribbon , click **Show**  
**Messages --- All** :

System Center 2012  
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The screenshot shows the System Center 2012 Configuration Manager interface. The ribbon at the top has 'Monitoring' selected. In the center pane, under 'Site Status', 'Component Status' is selected. On the left, the navigation tree shows 'Monitoring' expanded. A red box highlights the 'Show Messages' button in the ribbon toolbar.

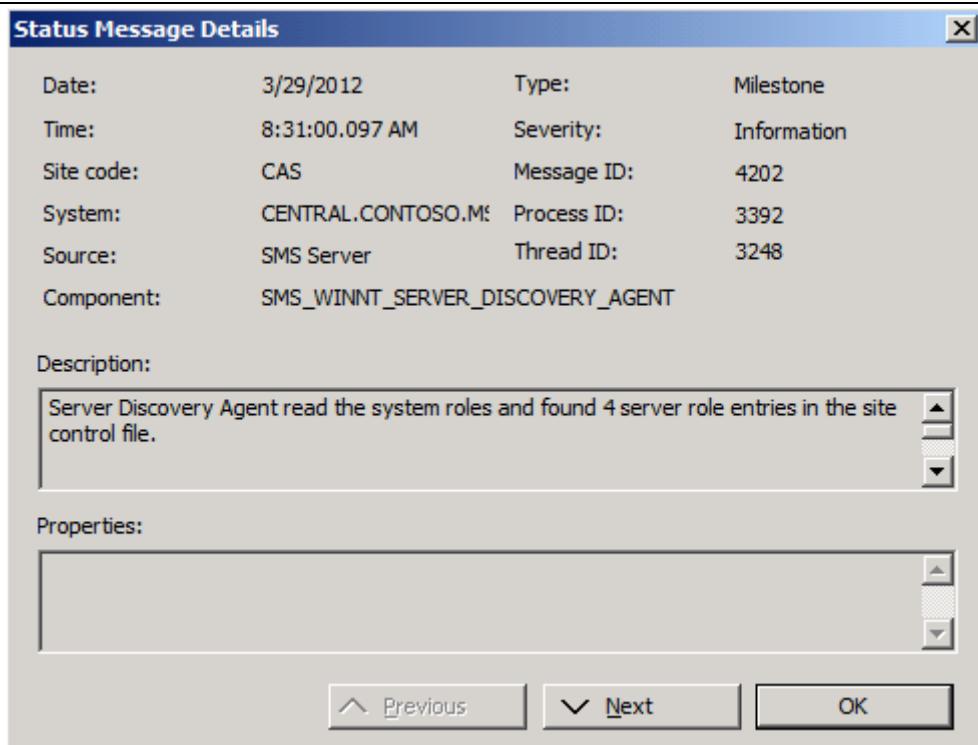
Icon	Status	Component	Site System	Type	Site Code
Green checkmark	OK	SMS_MP_FILE_DISPATCH_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_OBJECT_REPLICATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_OFFLINE_SERVICING_MANAGER	CENTRAL.CONTOSO.MSFT	Unmonitored Thread Co...	CAS
Green checkmark	OK	SMS_OUTBOX_MONITOR	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_REPLICATION_CONFIGURATION_M...	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_REPLICATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_RULE_ENGINE	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_SCHEDULER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_SITE_BACKUP	CENTRAL.CONTOSO.MSFT	Unmonitored Service Co...	CAS
Green checkmark	OK	SMS_SITE_COMPONENT_MANAGER	CENTRAL.CONTOSO.MSFT	Component Not Installed	CAS
Green checkmark	OK	SMS_SITE_CONTROL_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_SITE_SQL_BACKUP	CENTRAL.CONTOSO.MSFT	Monitored Service Comp...	CAS
Green checkmark	OK	SMS_SITE_SYSTEM_STATUS_SUMMARIZ...	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_SITE_VSS_WRITER	CENTRAL.CONTOSO.MSFT	Monitored Service Comp...	CAS
Green checkmark	OK	SMS_SOFTWARE_METERING_PROCESSOR	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_STATE_SYSTEM	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_STATUS_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_WINNT_SERVER_DISCOVERY_AGENT	CENTRAL.CONTOSO.MSFT	Unmonitored Thread Co...	CAS
Green checkmark	OK	SMS_WSUS_CONFIGURATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS
Green checkmark	OK	SMS_WSUS_SYNC_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp...	CAS

30) The **Status Messages : Set Viewing Period** dialog box appears , click **OK** ,

Click the **3306** message , and then on the **View** menu , click **Detail** , the **Status**

**Message Details** dialog box appears :

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31) Click **OK** , click the **Administration** workspace , expand **Site Configuration** , and then click **Sites** :

The screenshot shows the System Center 2012 Configuration Manager interface. The navigation pane on the left is expanded to show the 'Administration' section, specifically the 'Site Configuration' node under 'Overview'. The main pane displays the 'Sites' configuration page. A table lists one item:

Icon	Name	Type	Server Name	State	Site Code	Parent Site Code
	CAS - SC2012_ConfigMgr_Central Administration Site	CAS	Central.Contoso.msft	Active	CAS	

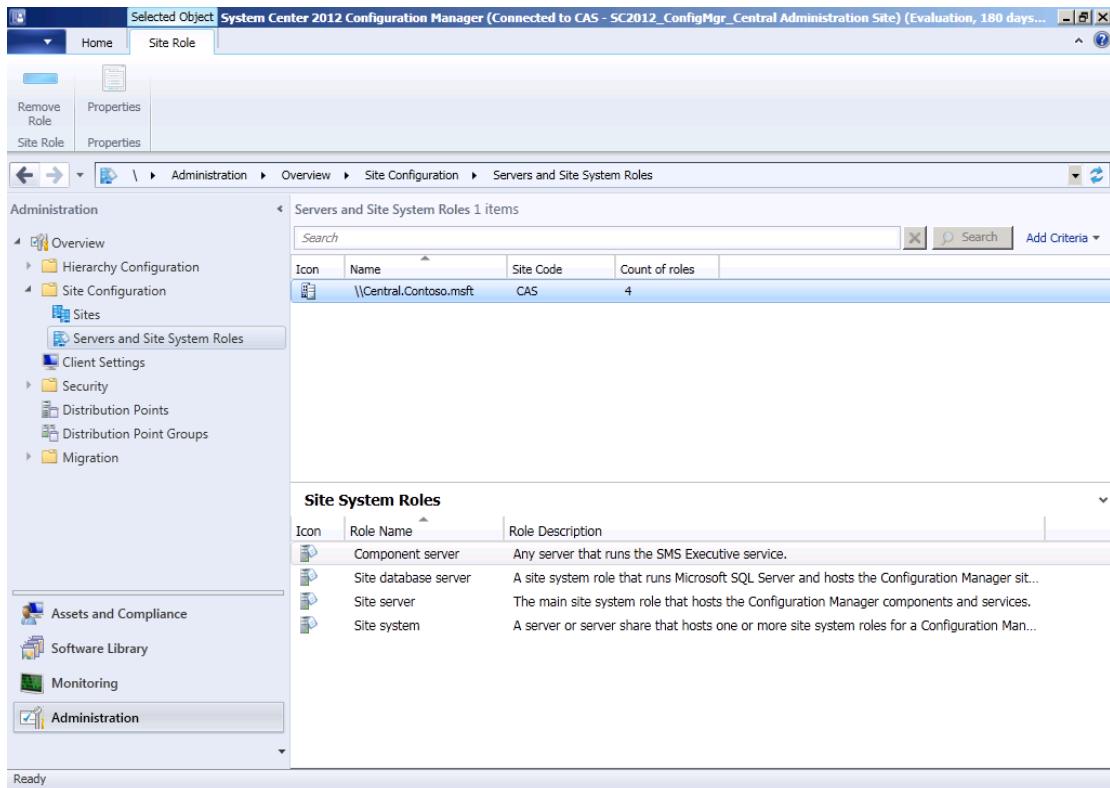
Below the table, the properties for the 'SC2012\_ConfigMgr\_Central Administration Site' are listed:

Site Code:	CAS
Server Name:	Central.Contoso.msft
Install Directory:	C:\Program Files\Microsoft Configuration Manager
Build Number:	7711
State:	Active

Related objects include 'Discovery Methods' and 'Addresses'.

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32) The list of sites appears in the results pane , notice that we only have one site as this time , is **CAS** , click **Servers and Sites System Roles** :



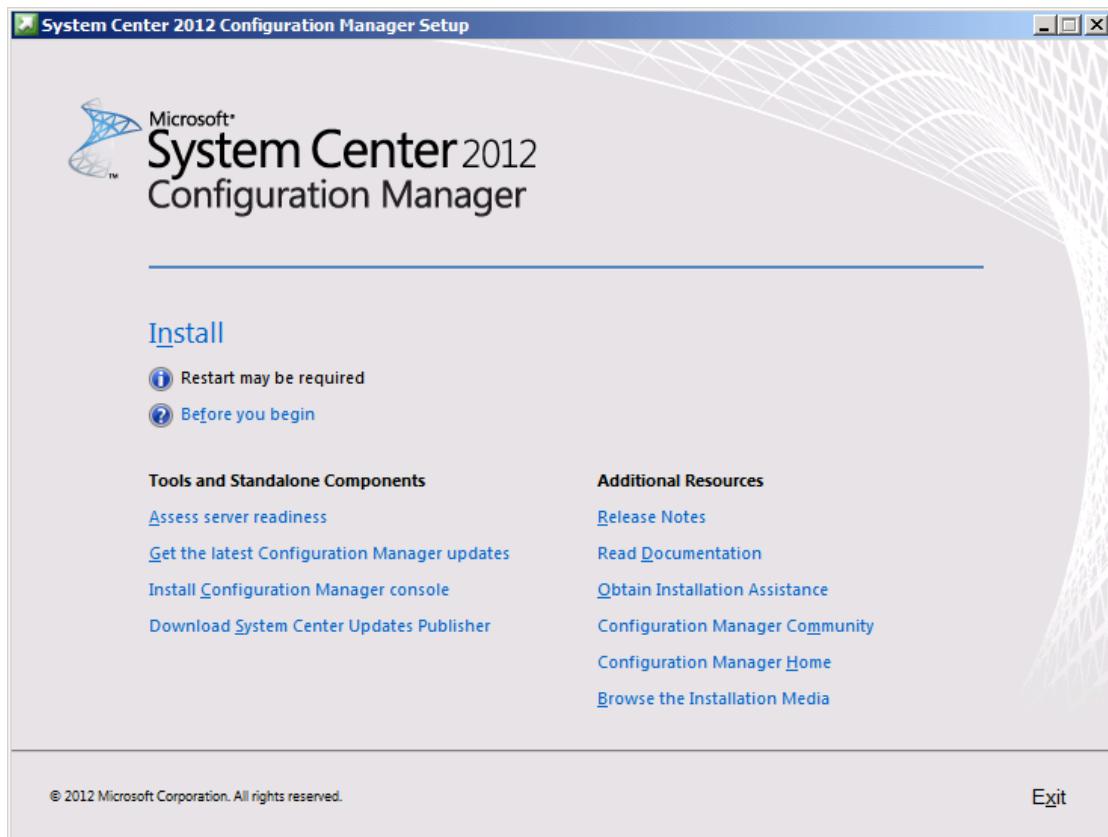
33) The list of Configuration Manager site systems appears in the results pane .  
Notice that the installed roles for the central administration site appear in the preview pane .Notice also that the **Site server** and **Site database** server roles have all been installed on the site server computer .

## 8. Installing SC2012 ConfigMgr Primary Site DB and requirement Windows components :

1) This process is no longer described in this part , you can reference my document **《 System Center 2012 Configuration Manager RTM Advanced Security Deployment Document》** . Don' t forget installing .Net Framework 4.0 .

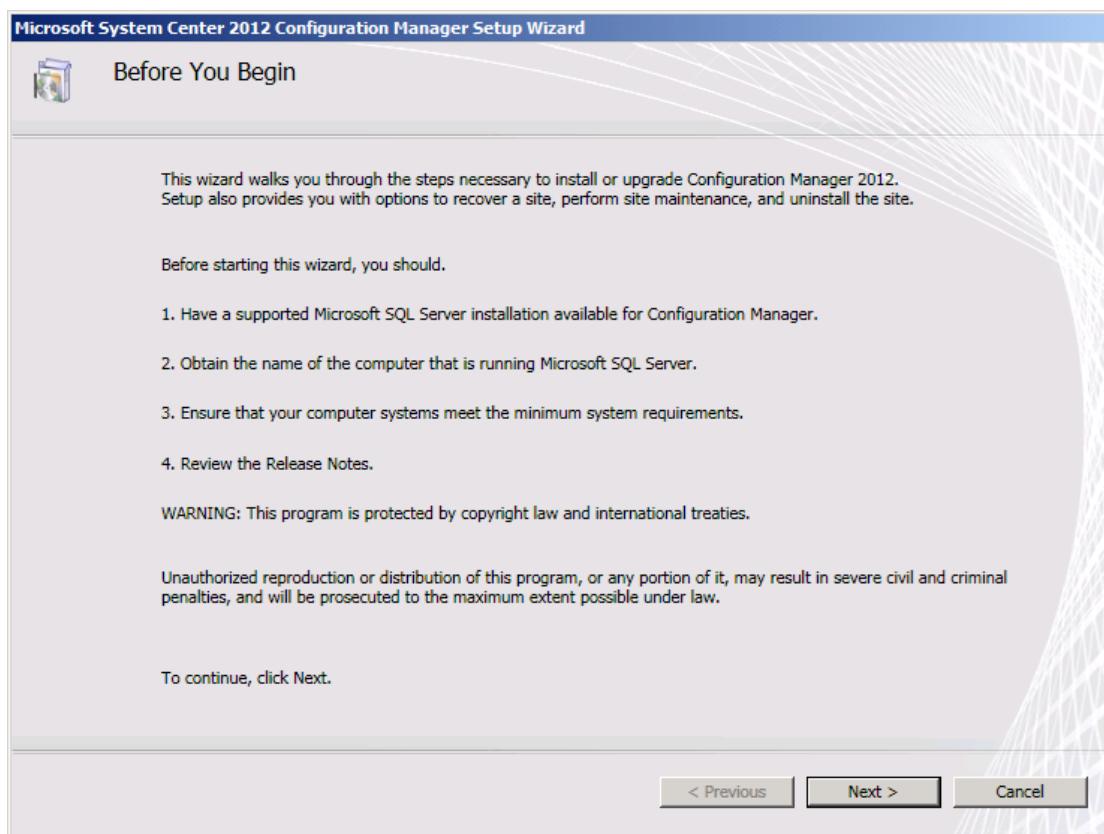
## 9. Installing SC2012 ConfigMgr Primary Site :

- 1) Logon to **Primary** server , insert SC2012 ConfigMgr RTM image , auto-run and display install page :



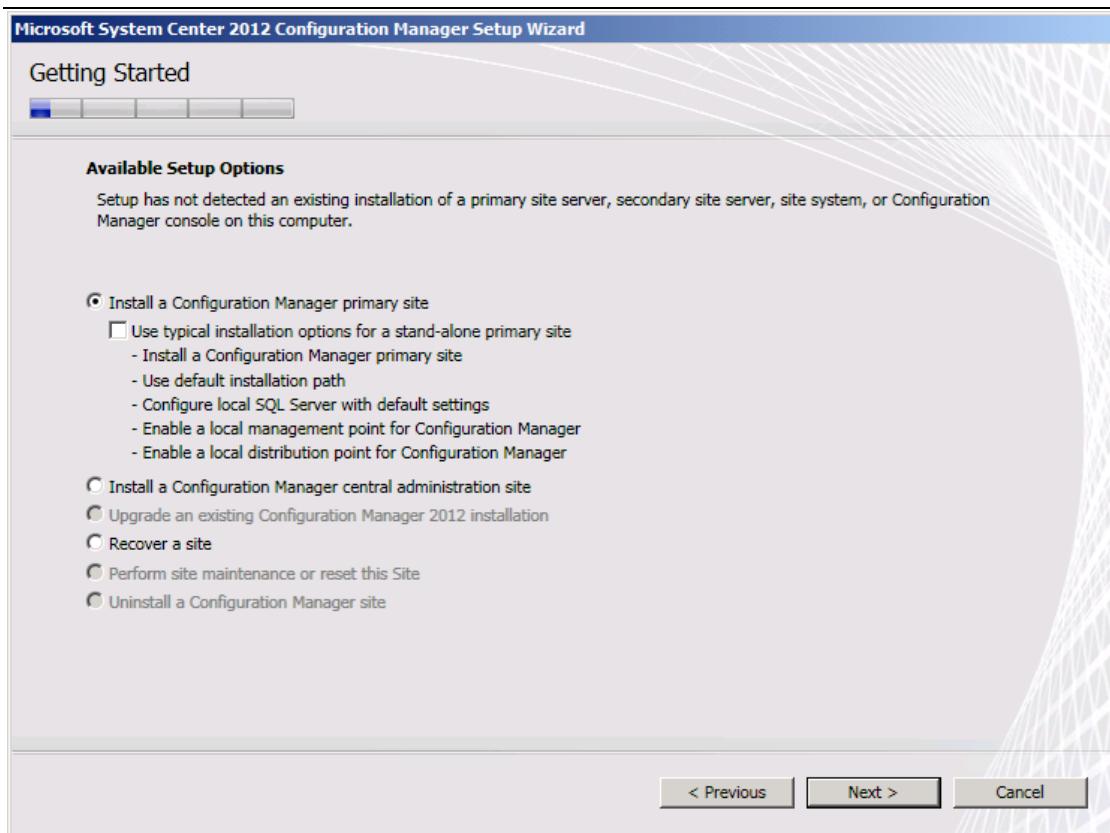
- 2) Click **Install** , the **Before You Begin** dialog box appears :

**System Center 2012  
Configuration Manager RTM  
Hierarchy Deployment Document**



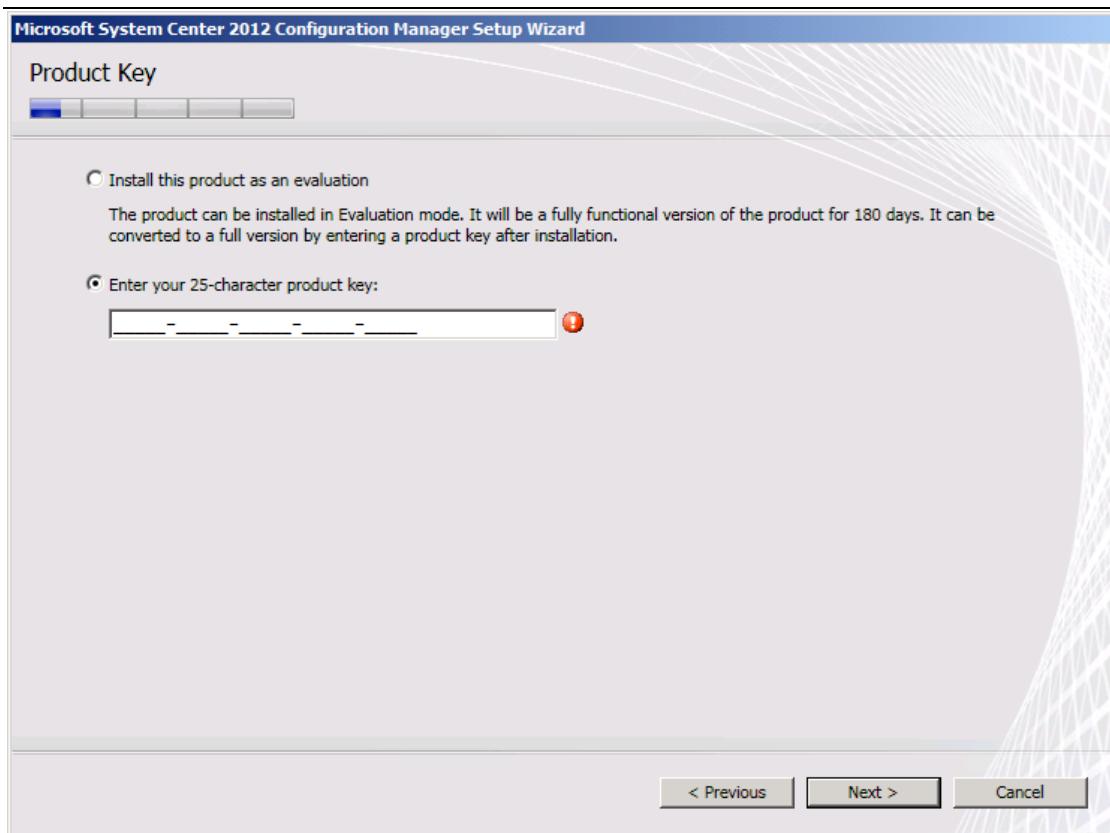
- 3) Click **Next** , verify that **Install a Configuration Manager primary site** is selected :

System Center 2012  
Configuration Manager RTM  
Hierarchy Deployment Document

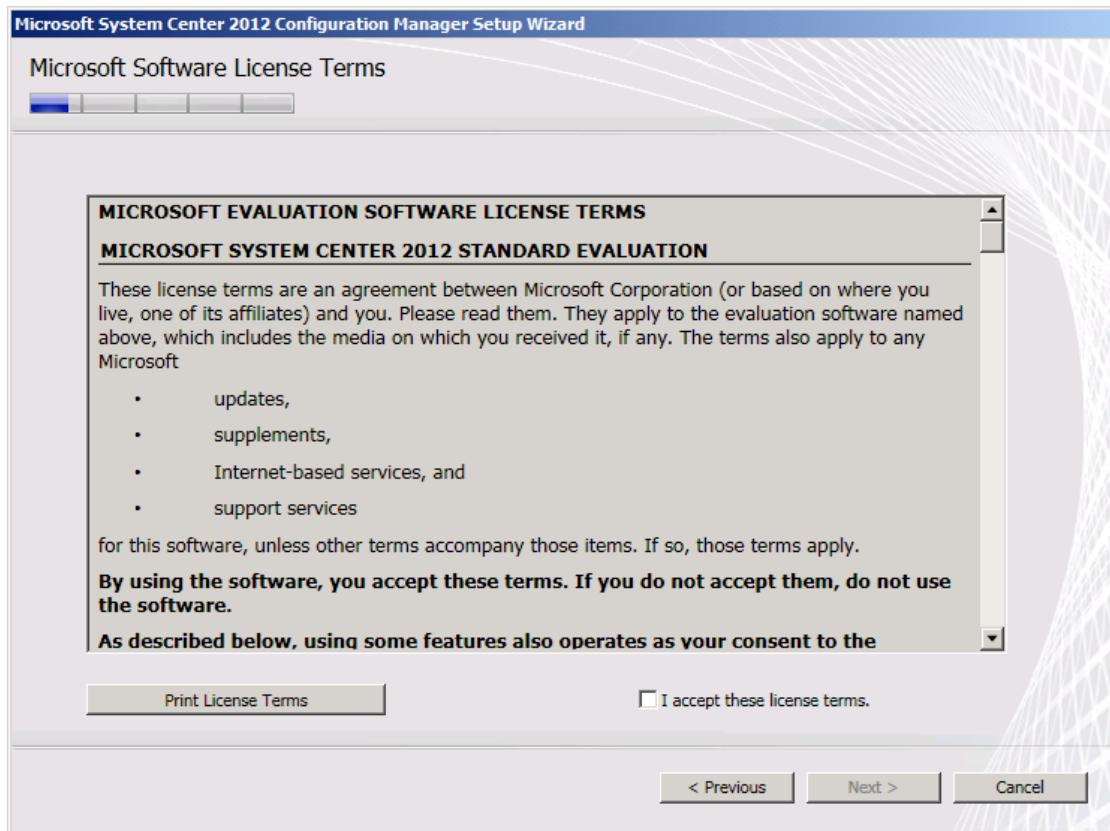


4) Click **Next** , the **Product Key** dialog box appears , please enter product key  
or select **Install this product as an evaluation** :

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5) Click **Next** , the **Microsoft Software License Terms** dialog box appears :

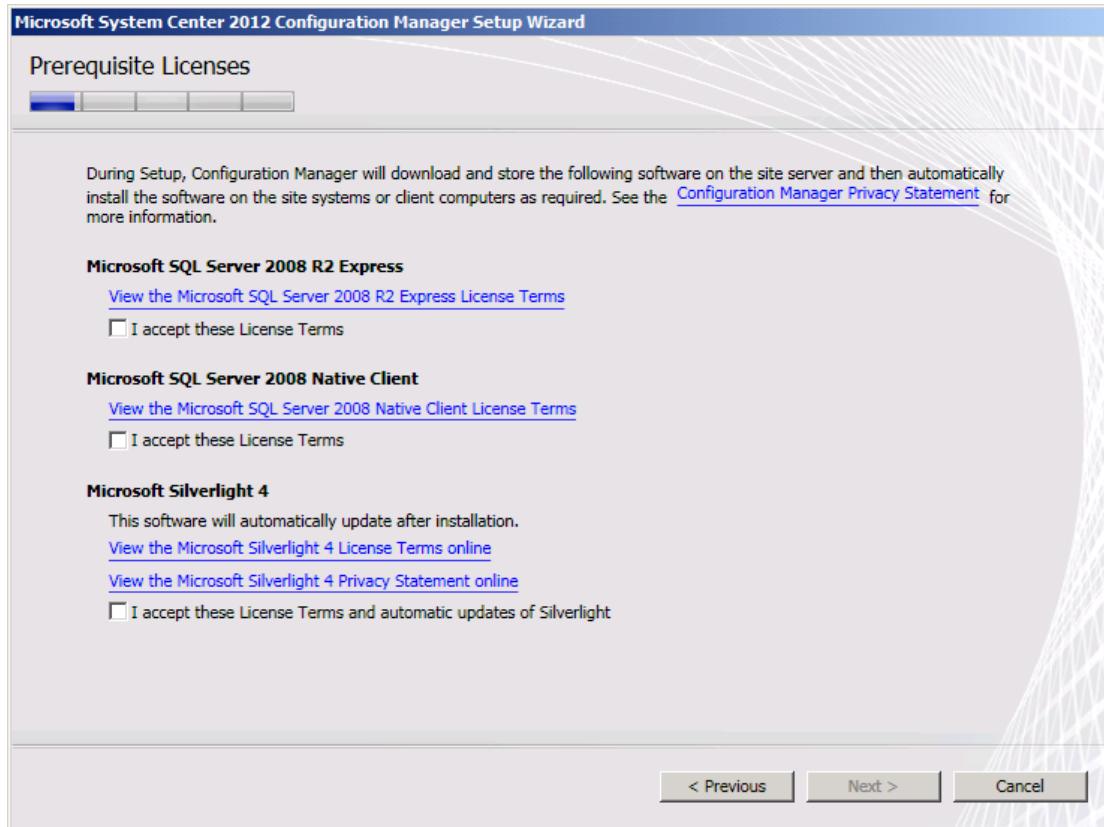


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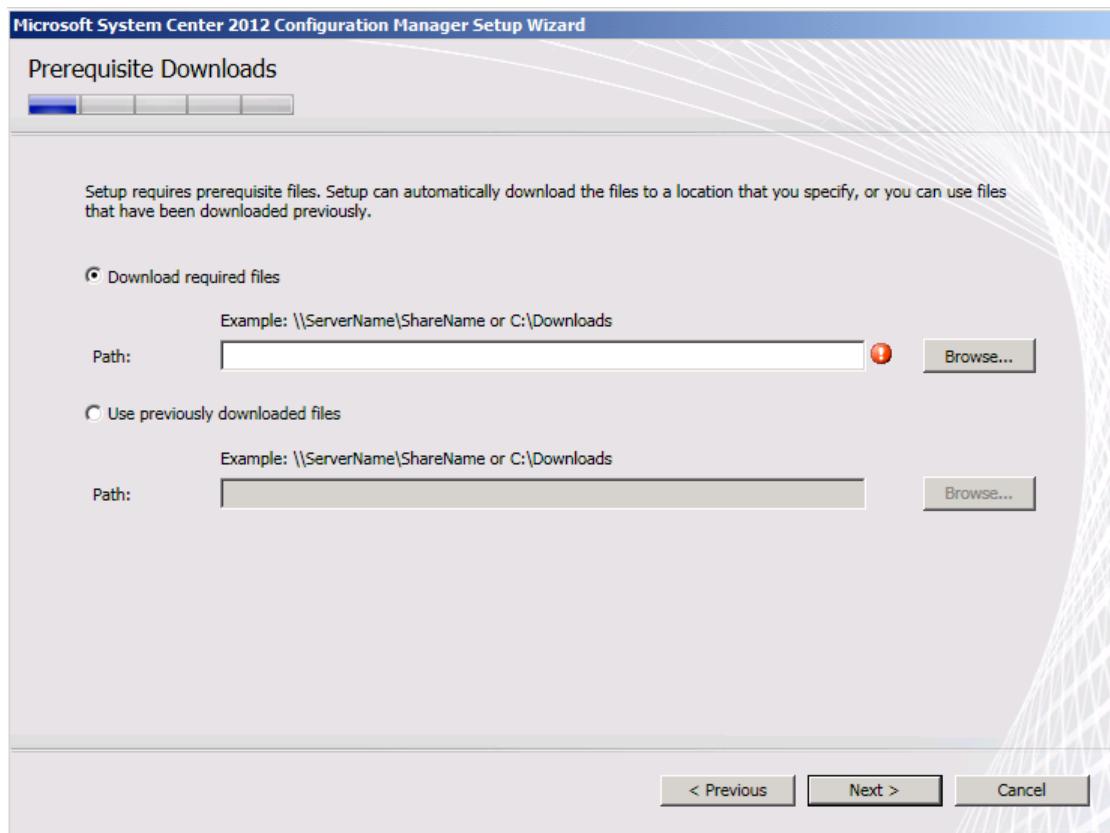
- 6) Select **I accept these license terms** , and then click **Next** , the **Prerequisite**

**Licenses** dialog box appears :



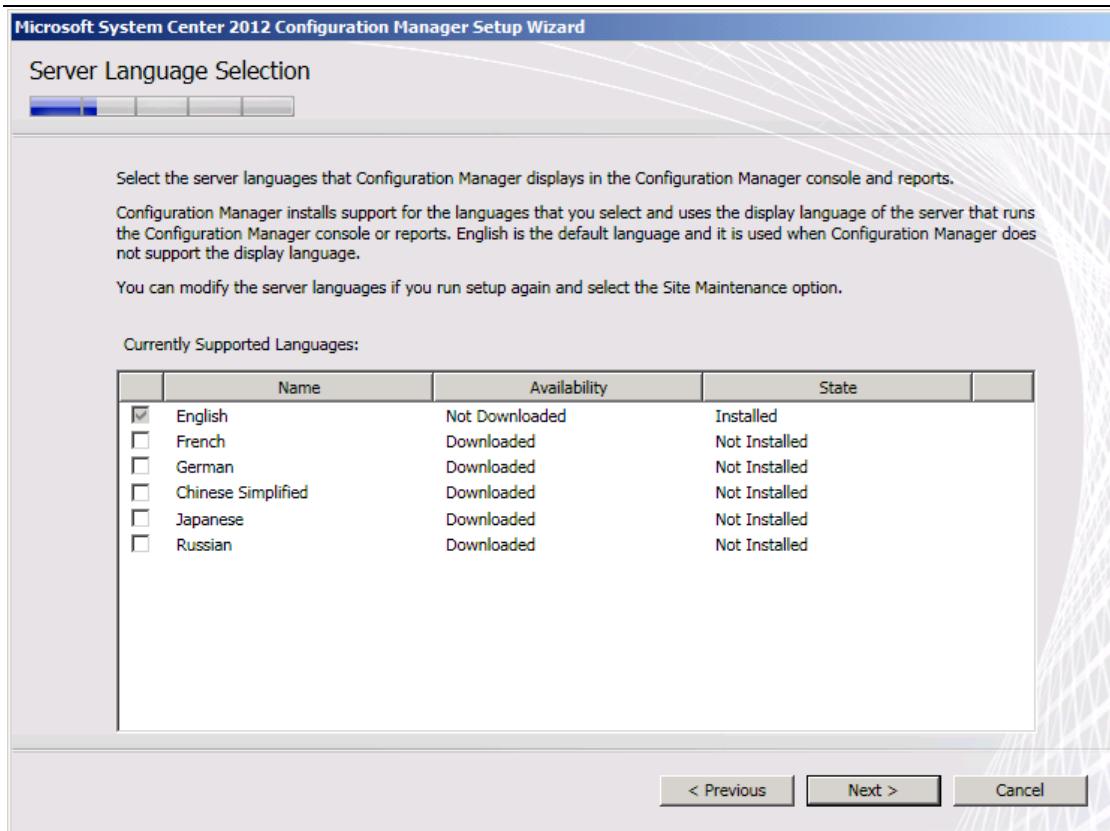
- 7) Select all items , and then click **Next** , the **Prerequisite Downloads** dialog box appears , click any option and specify the path :

System Center 2012  
Configuration Manager RTM  
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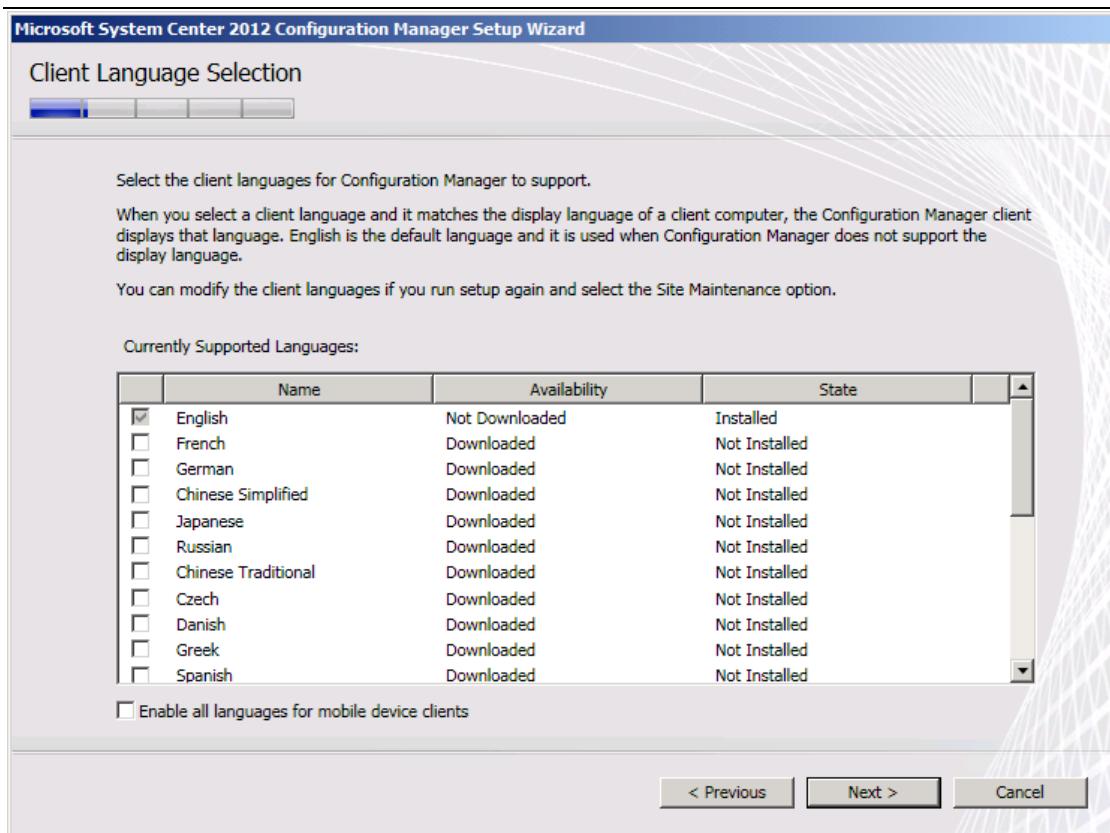
- 8) Click **Next** , the **Configuration Manager Setup Downloader** dialog box appears , waiting some minutes , the **Server Language Selection** dialog box appears :

System Center 2012  
Configuration Manager RTM  
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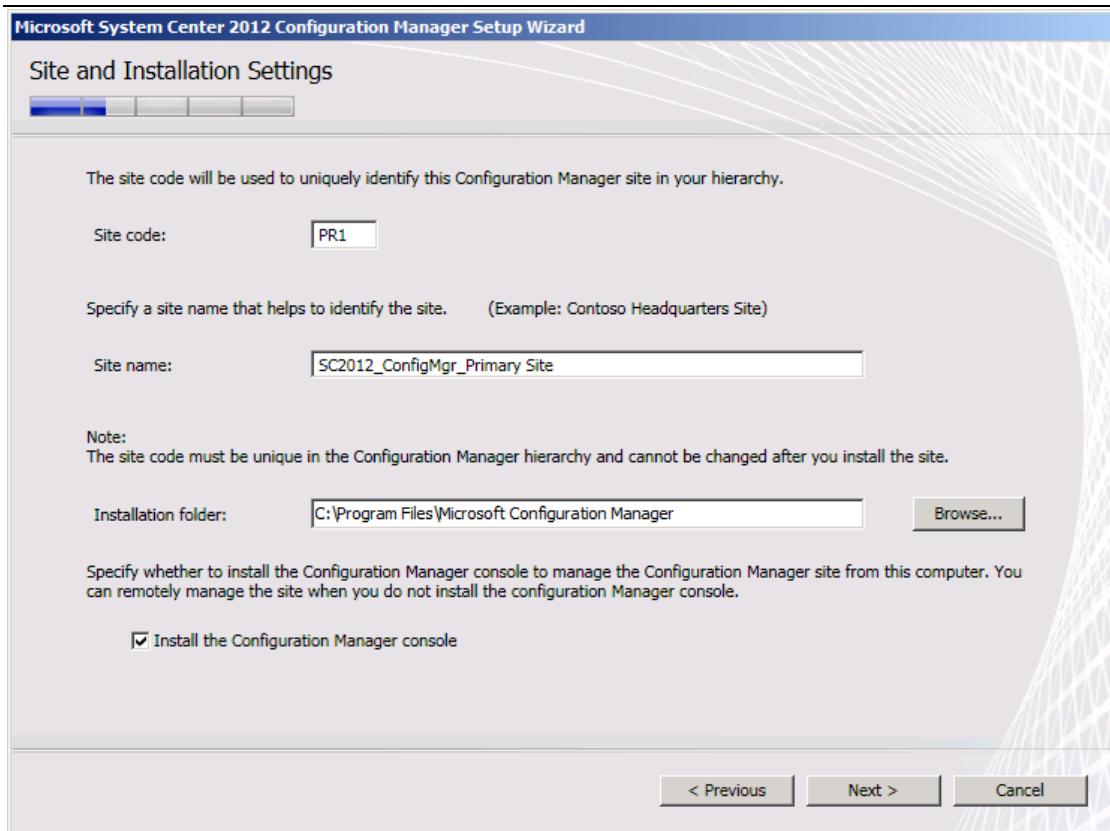
9) Select your needs language and the click **Next** , the **Client Language Selection** dialog box appears :

System Center 2012  
Configuration Manager RTM  
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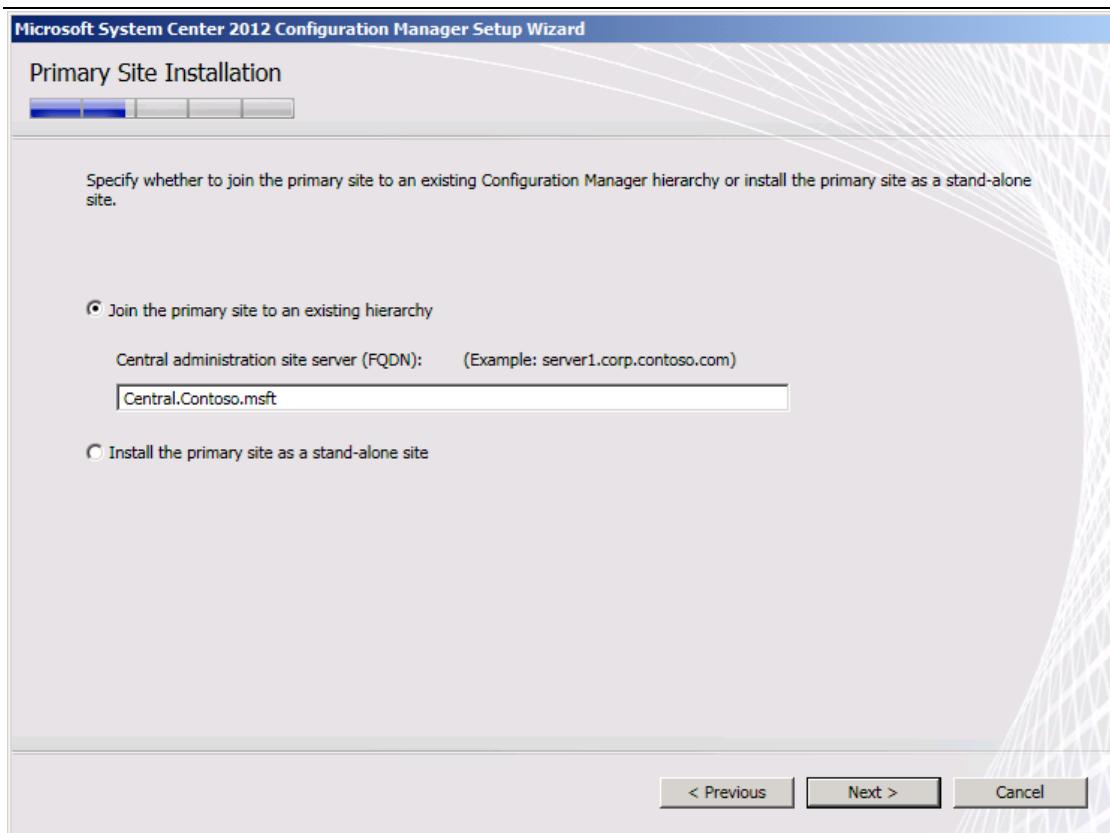
- 10) Select your needs language and the click **Next** , the **Site and Installation Settings** dialog box appears , in **Site code** box, you need to assign site code, and setting site name in the **Site name** box , in **Installation folder** box , you need to setting install path :

**System Center 2012  
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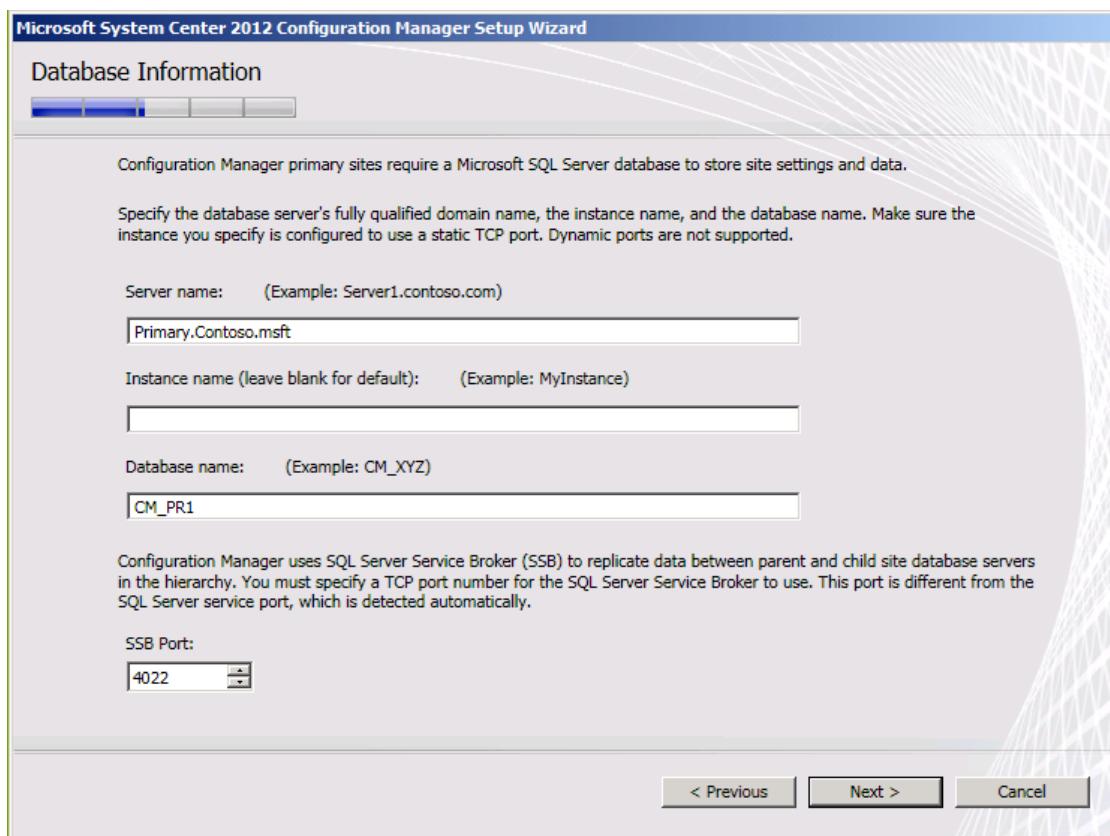
11) Click **Next** , the **Primary Site Installation** dialog box appears , click **Join the primary site to an existing hierarchy** , and then in the **Central administration site server (FQDN)** box , type **Central.Contoso.msft** :

System Center 2012  
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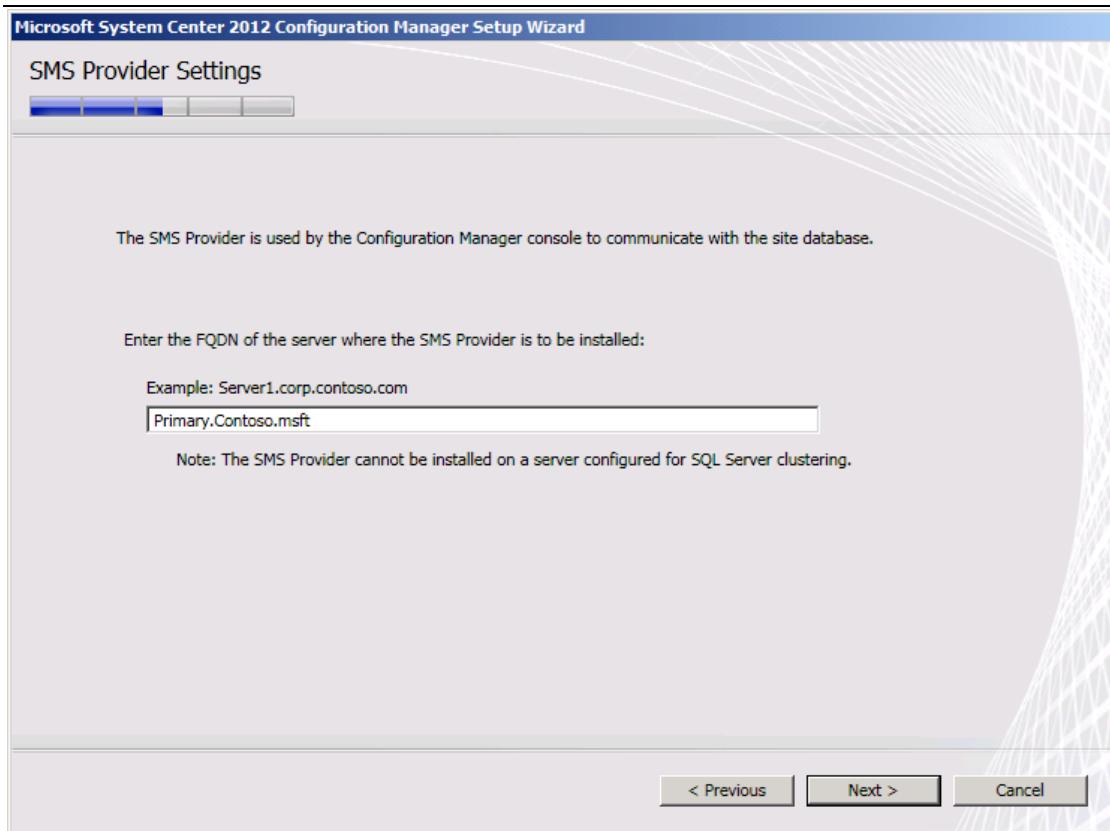
12) Click **Next** , the **Database Information** dialog box appears :

System Center 2012  
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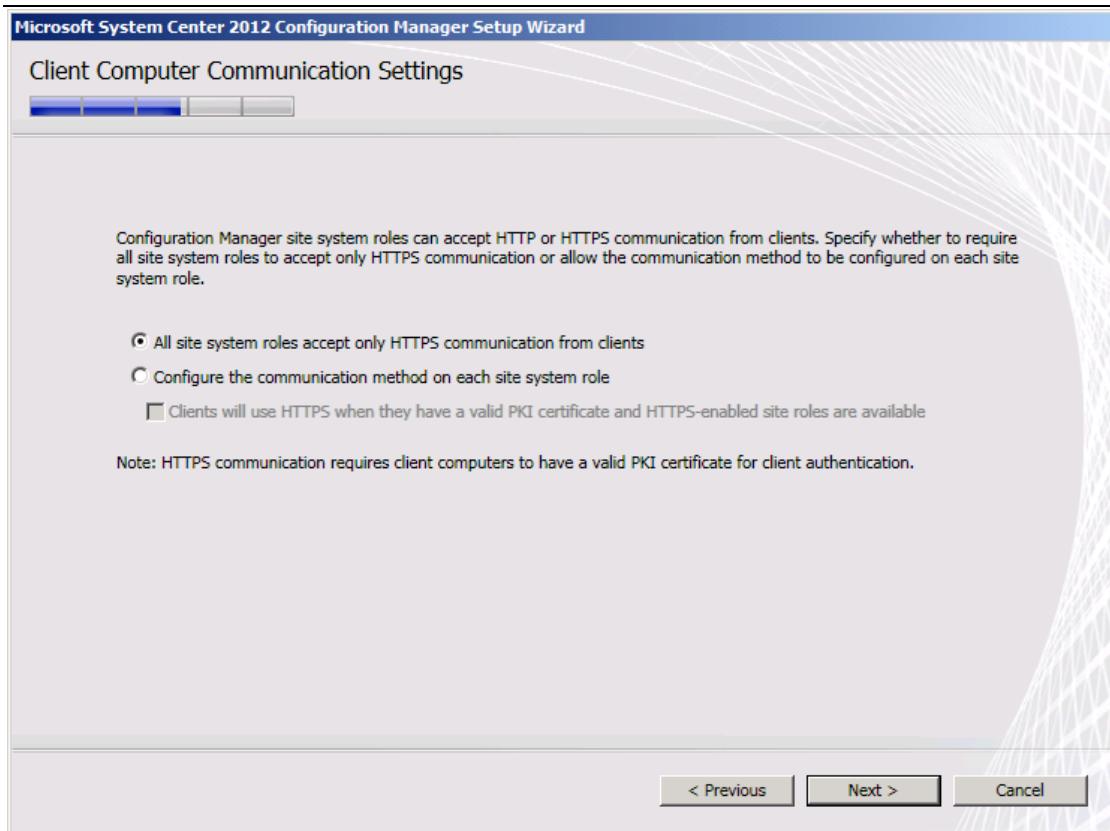
13) Click **Next** , the **SMS Provider Settings** dialog box appears :

System Center 2012  
Configuration Manager RTM  
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14) Click **Next** , the **Client Computer Communication Settings** dialog box appears :

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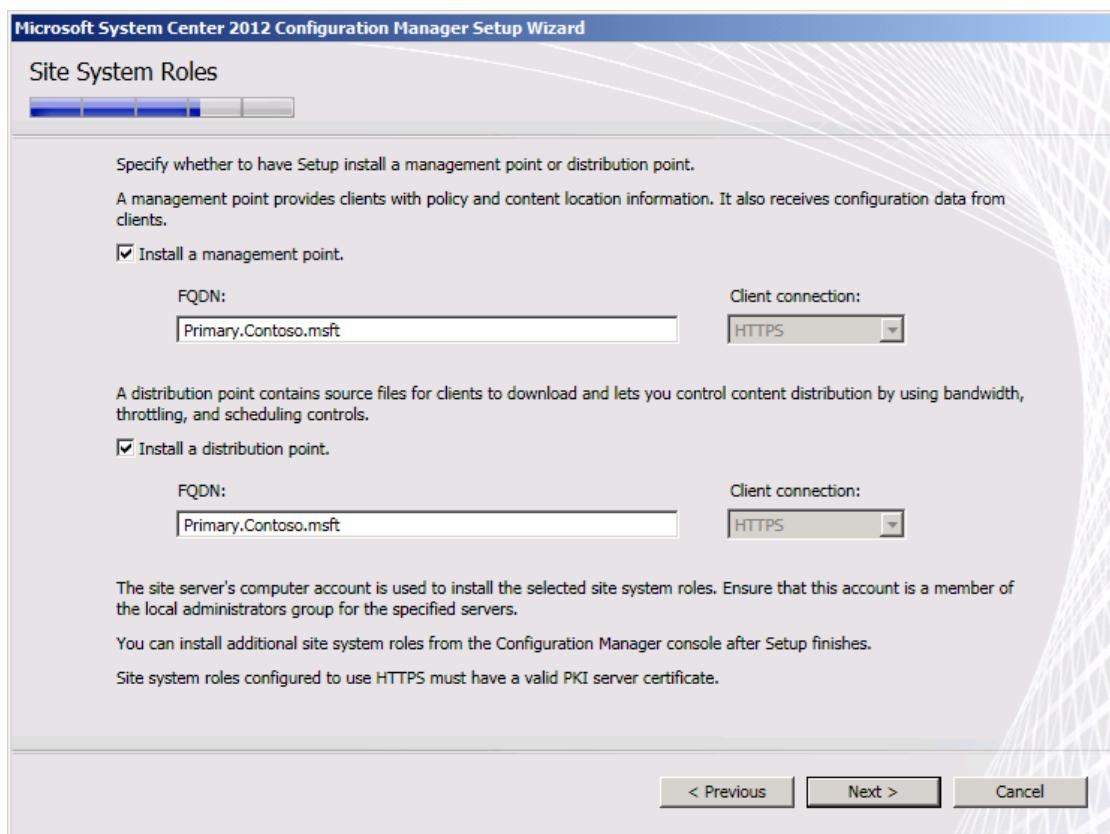


15) Keep the default setting and then click **Next** , a **Configuration Manager** dialog box appears :



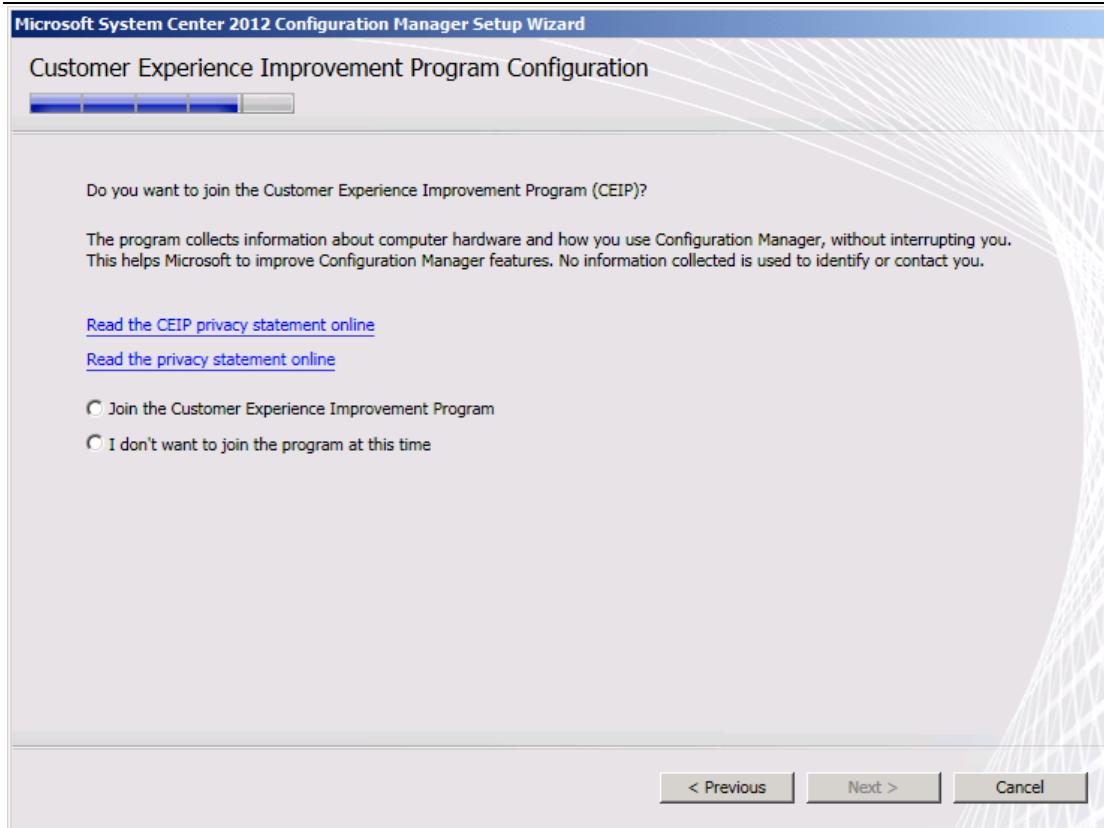
16) Click **Yes** , the **Site System Roles** dialog box appears :

System Center 2012  
Configuration Manager RTM  
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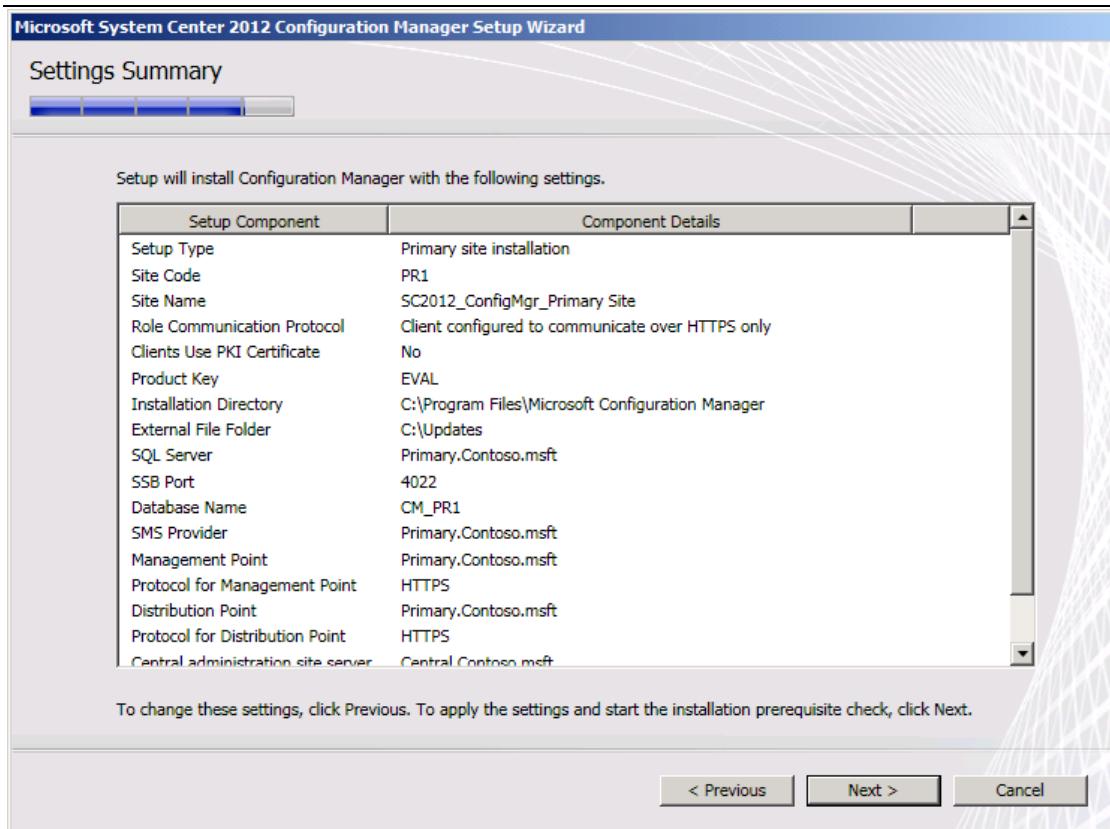
17) Keep the default settings , and then click **Next** , the **Customer Experience Improvement Program Configuration** dialog box appears :

System Center 2012  
Configuration Manager RTM  
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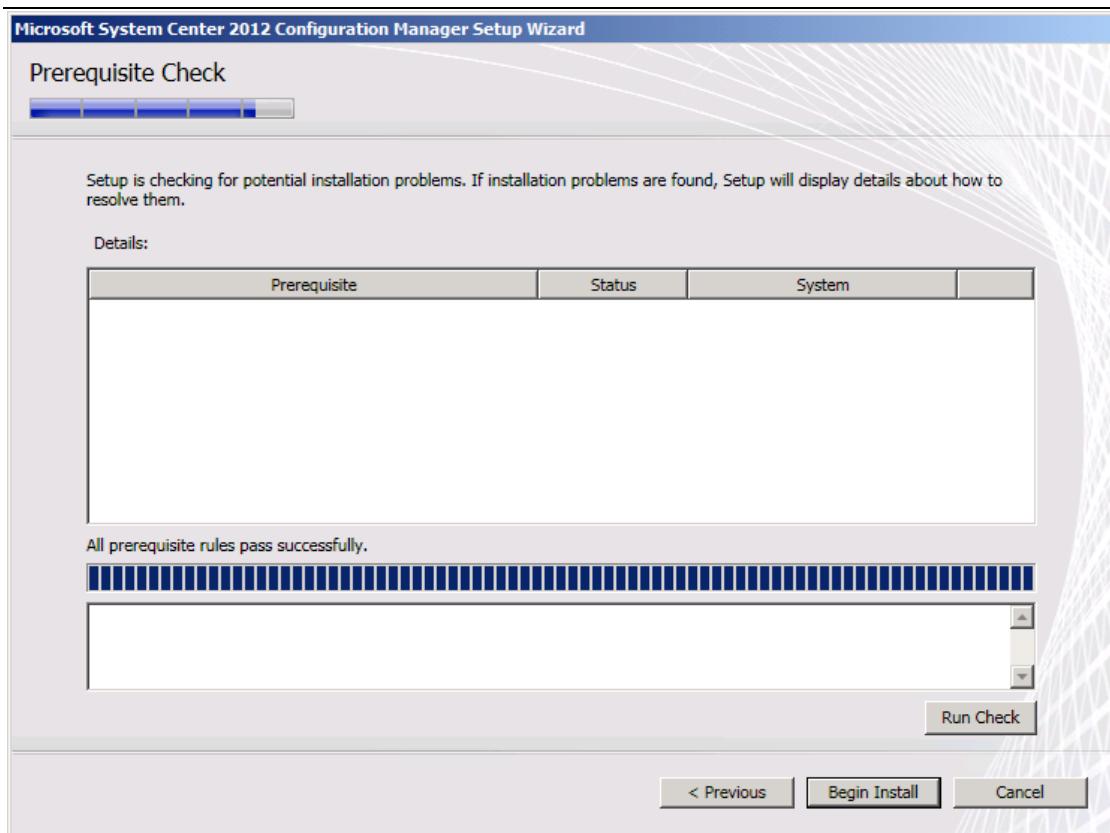
18) Select any option , and then click **Next** , the **Settings Summary** dialog box appears :

System Center 2012  
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19) Confirm all settings and click **Next** , the **Prerequisite Check** dialog box appears , please wait some minutes check completed :

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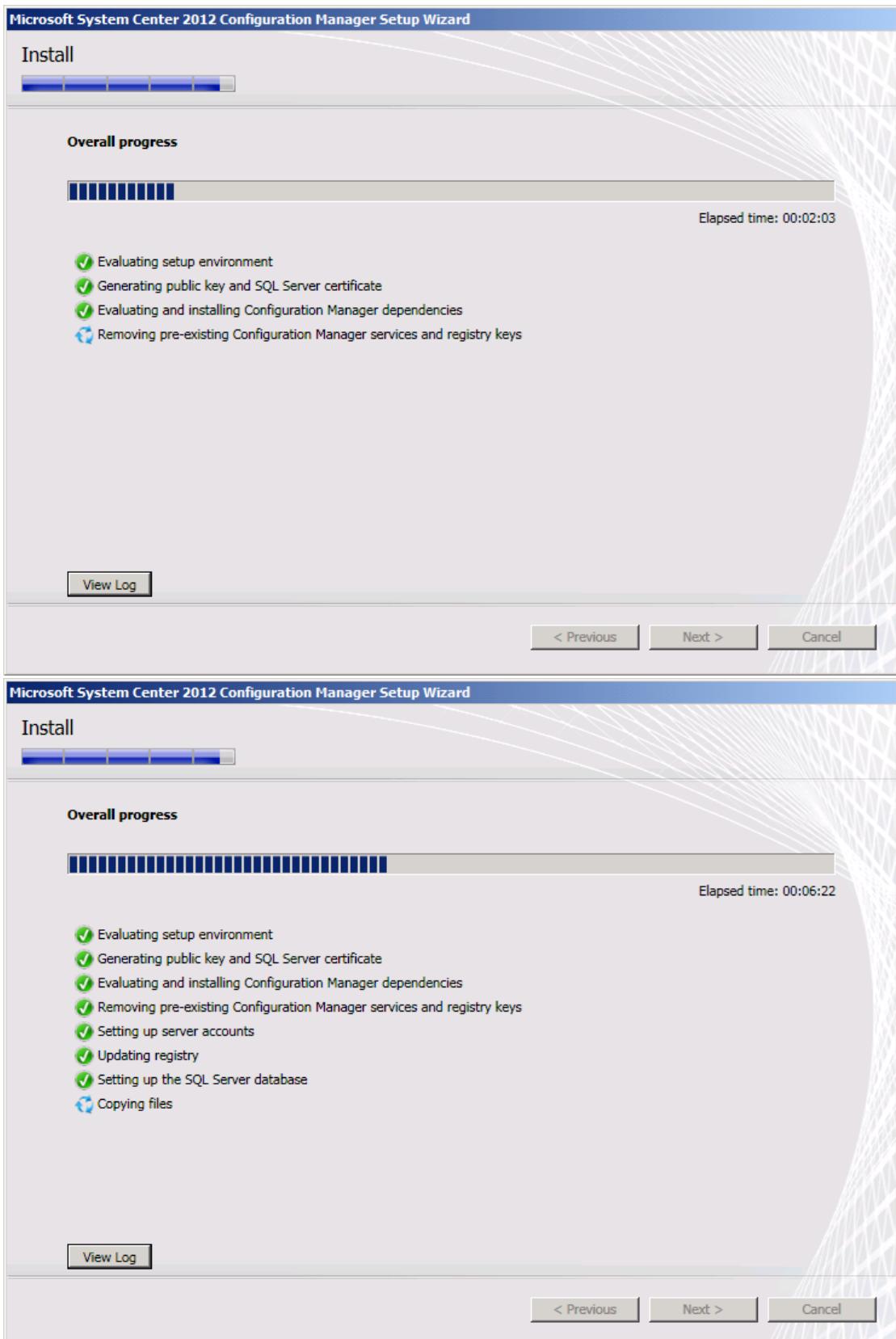
20) No warning and No error , you can check **ConfigMgrPrereq.txt** log file :

The screenshot shows a Notepad window titled 'ConfigMgrPrereq - Notepad' containing a log file. The log entries are as follows:

```
<<<RuleCategory: Access Permissions>>>
<03-29-2012 22:58:05> <<<CategoryDesc: Checking access permissions...>>>
<03-29-2012 22:58:05> <<<RuleCategory: System Requirements>>>
<03-29-2012 22:58:05> <<<CategoryDesc: Checking system requirements for configMgr...>>>
<03-29-2012 22:58:05> INFO: The rule 'Unsupported site server operating system version for se
<03-29-2012 22:58:05> INFO: The rule 'Domain membership' has been run on server 'Primary.Cont
<03-29-2012 22:58:05> INFO: The rule 'Pending system restart' has been run on server 'Primary.
<03-29-2012 22:58:05> <<<RuleCategory: Dependent Components>>>
<03-29-2012 22:58:05> <<<CategoryDesc: Checking dependent components for configMgr...>>>
<03-29-2012 22:58:05> INFO: The rule 'Microsoft XML Core Services 6.0 (MSXML60)' has been run
<03-29-2012 22:58:05> INFO: The rule 'IIS service running' has been run on server 'Primary.C
<03-29-2012 22:58:05> INFO: The rule 'IIS HTTPS Configuration' has been run on server 'Primar
<03-29-2012 22:58:05> INFO: The rule 'Primary FQDN' has been run on server 'Primary.Contoso.r
<03-29-2012 22:58:05> ===== INFO: Prerequisite Type & Server: UI:Primary.Contoso.msft =====
<03-29-2012 22:58:05> <<<RuleCategory: Access Permissions>>>
<03-29-2012 22:58:05> <<<CategoryDesc: Checking access permissions...>>>
<03-29-2012 22:58:05> <<<RuleCategory: System Requirements>>>
<03-29-2012 22:58:05> <<<CategoryDesc: Checking system requirements for configMgr...>>>
<03-29-2012 22:58:05> Primary.Contoso.msft; Unsupported Configuration Manager console oper
<03-29-2012 22:58:05> INFO: The rule 'Domain membership' has been run on server 'Primary.Cont
<03-29-2012 22:58:05> INFO: The rule 'Pending system restart' has been run on server 'Primary.
<03-29-2012 22:58:05> <<<RuleCategory: Dependent Components>>>
<03-29-2012 22:58:05> <<<CategoryDesc: Checking dependent components for configMgr...>>>
<03-29-2012 22:58:05> INFO: Checking .NET framework versions 4.0...
<03-29-2012 22:58:05> INFO: .NET is installed
<03-29-2012 22:58:05> Primary.Contoso.msft; Minimum .NET Framework version for Configuration
<03-29-2012 22:58:05> INFO: The rule 'Microsoft XML Core Services 6.0 (MSXML60)' has been run
<03-29-2012 22:58:05> INFO: The rule 'Windows Remote Management (WinRM) v1.1' has been run or
<03-29-2012 22:58:05> **** Prerequisite checking is completed. ****
<03-29-2012 22:58:05> ****
<03-29-2012 22:58:05> INFO: Updating Prerequisite checking result into the registry
<03-29-2012 22:58:05> INFO: Connecting to Primary.Contoso.msft registry
<03-29-2012 22:58:05> INFO: Setting registry values
```

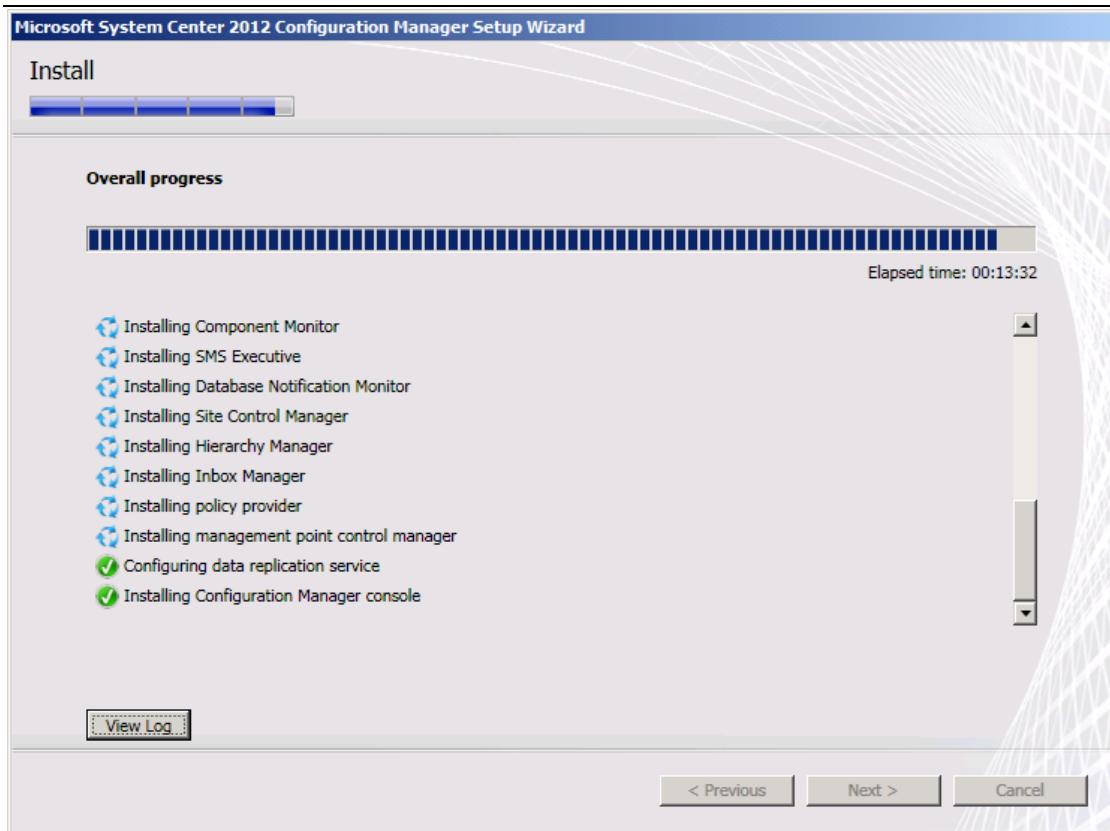
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21) Click **Begin Install** to starting installing progress :



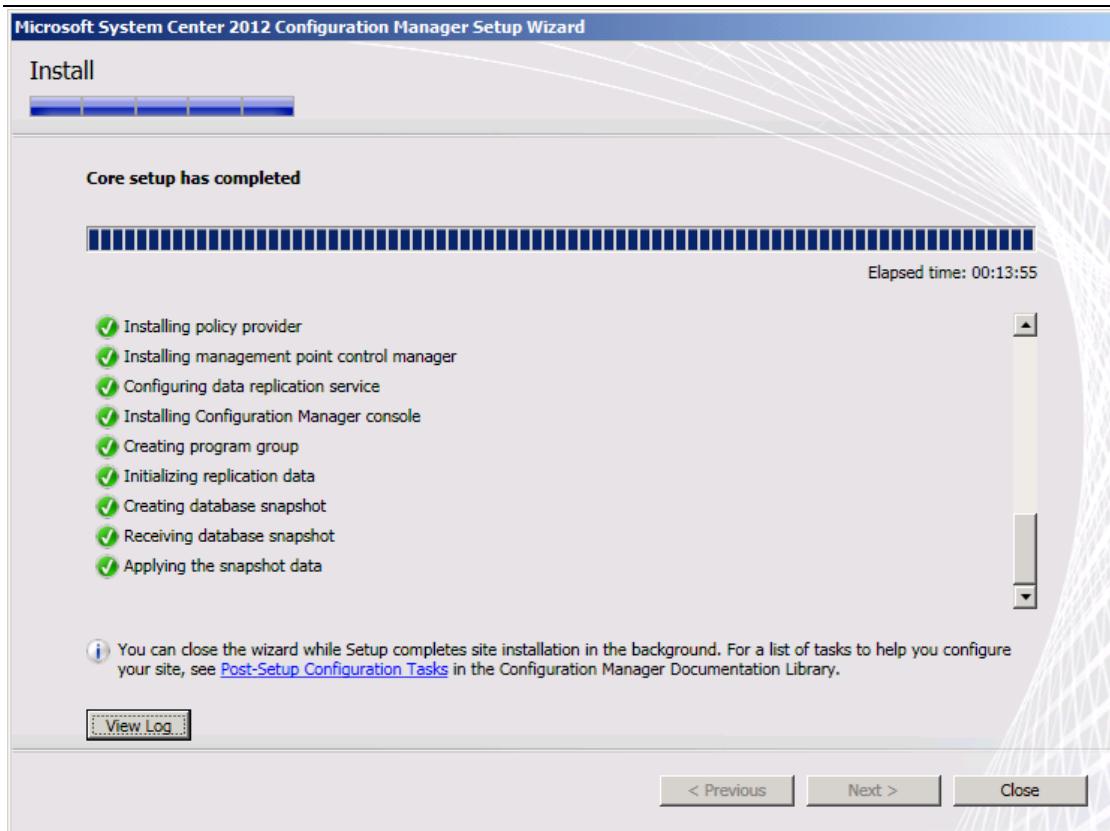
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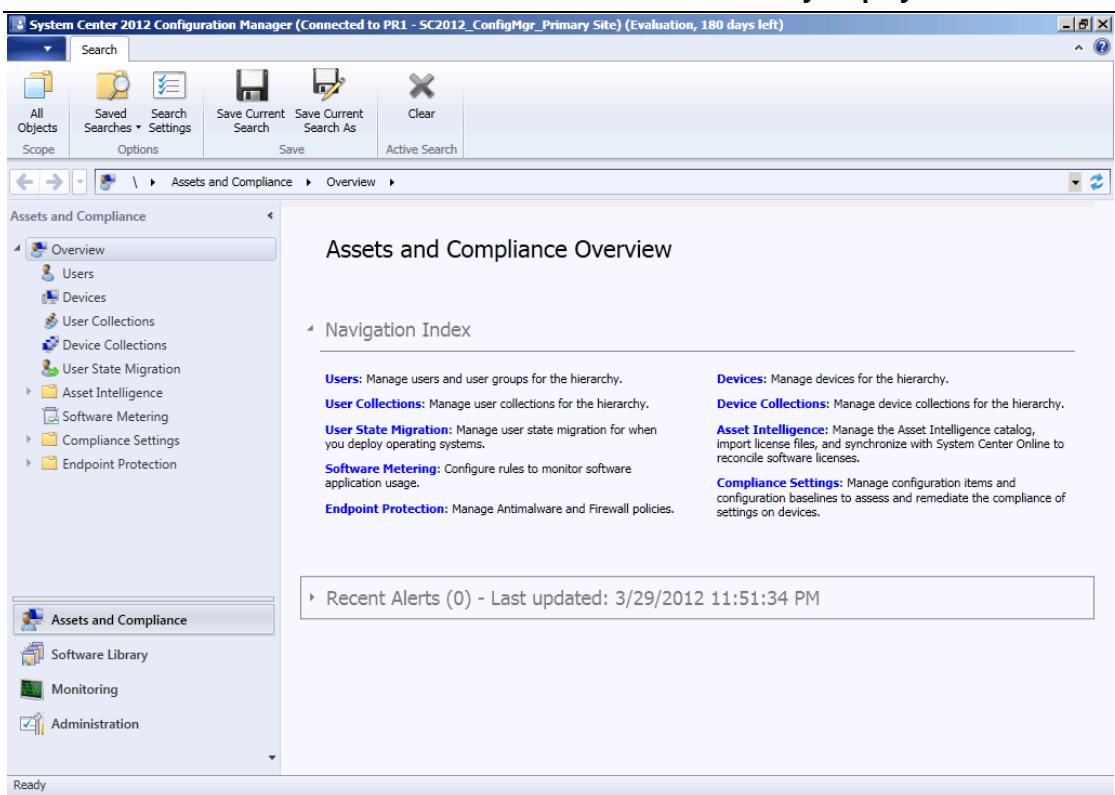
22) The time to install a Configuration Manager 2012 RTM primary site will be dependent on the hardware available , it could take over 20 minutes . When complete , the **Core setup has completed** dialog box appears indicating that setup completed each action successfully :

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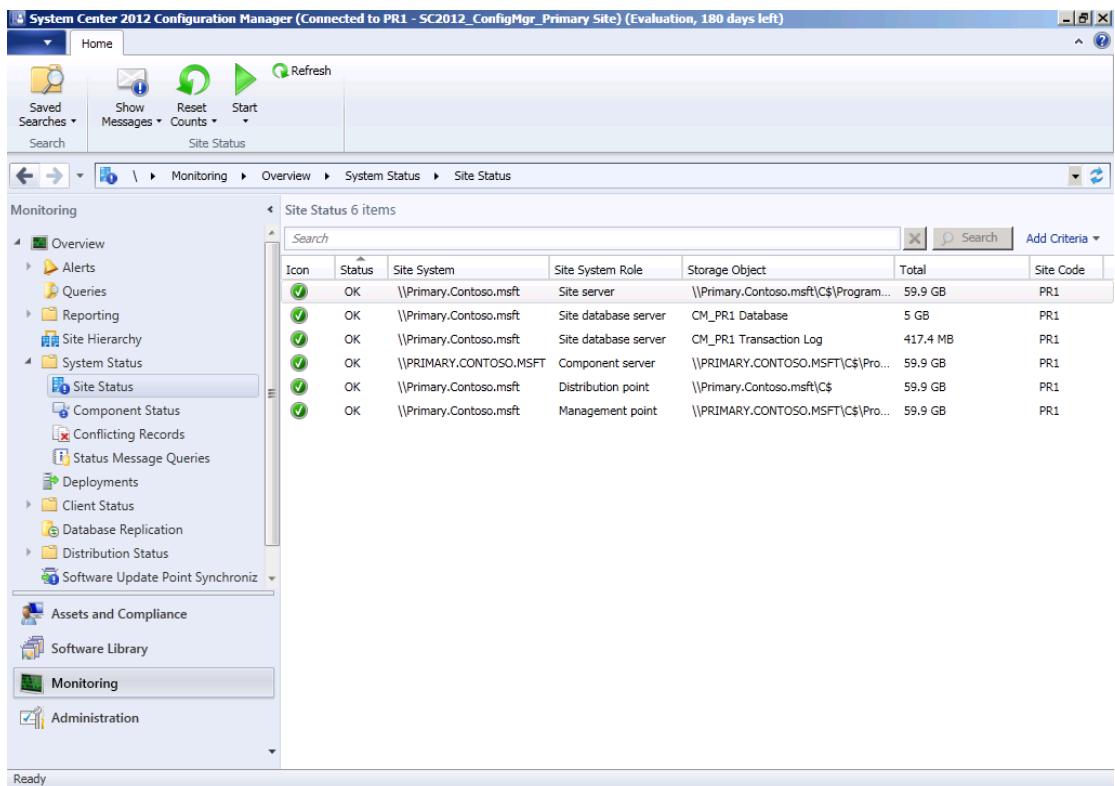
- 23) Click **Close** and then click **Exit**.
- 24) On the **Start** menu , click **All Programs --- Microsoft System Center 2012 --- Configuration Manager** , and then click **Configuration Manager Console** , the System Center 2012 Configuration Manager console window appears :

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25) Click the **Monitoring** workspace , expand **System Status** , and then click

**Site Status :**



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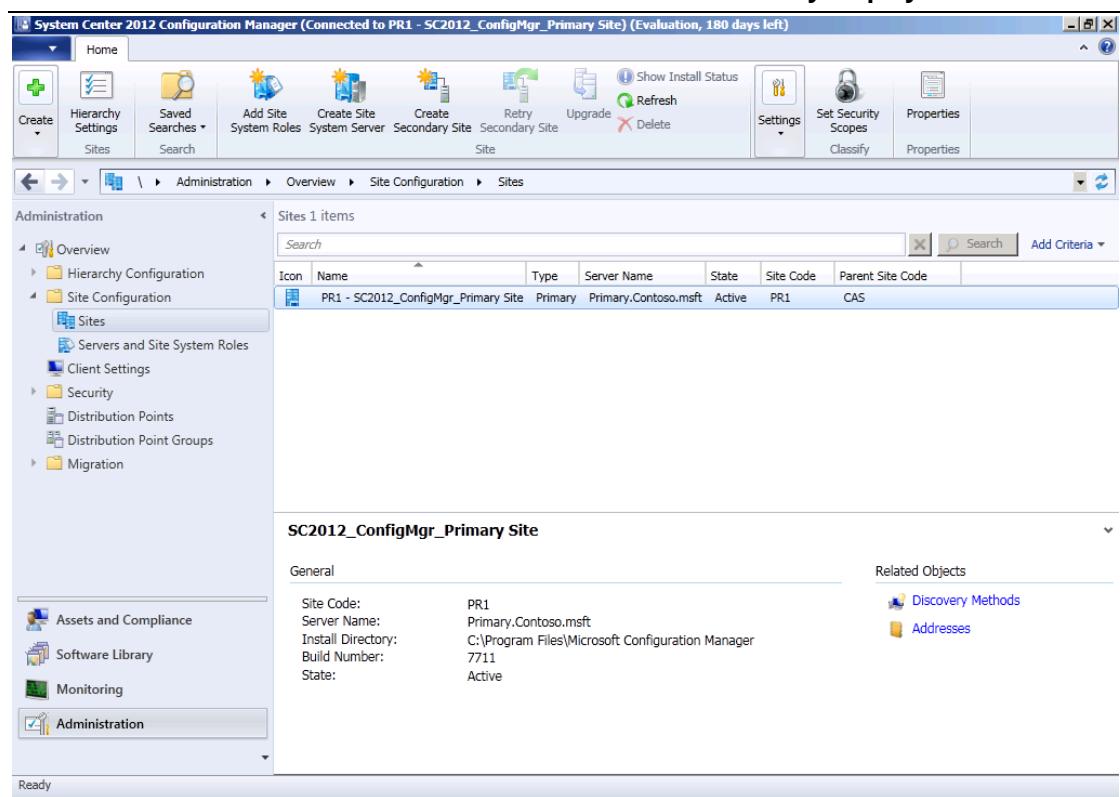
26) Click **Component Status** , you can see all component status :

The screenshot shows the System Center 2012 Configuration Manager interface. The title bar reads "System Center 2012 Configuration Manager (Connected to PR1 - SC2012\_ConfigMgr\_Primary Site) (Evaluation, 180 days left)". The ribbon menu has "Monitoring" selected. In the left navigation pane, under "Monitoring", "Component Status" is selected. The main area displays a table titled "Component Status 50 items". The table columns are: Icon, Status, Component, Site System, Type, and Site Code. All components listed are in an "OK" status. The Site System is PRIMARY.CONTOSO.MSFT and the Site Code is PR1. The components include SMS\_AI\_KB\_MANAGER, SMS\_ALERT\_NOTIFICATION, SMS\_AMT\_PROXY\_COMPONENT, SMS\_CERTIFICATE\_MANAGER, SMS\_CLIENT\_CONFIG\_MANAGER, SMS\_CLIENT\_HEALTH, SMS\_COLLECTION\_EVALUATOR, SMS\_COMPONENT\_MONITOR, SMS\_COMPONENT\_STATUS\_SUMMA..., SMS\_DATABASE\_NOTIFICATION\_MO..., SMS\_DESPOLLER, SMS\_DISCOVERY\_DATA\_MANAGER, SMS DISTRIBUTION\_MANAGER, SMS\_EN\_ADSERVICE\_MONITOR, SMS\_ENDPOINT\_PROTECTION\_MAN..., SMS\_EXECUTIVE, SMS\_HIERARCHY\_MANAGER, SMS\_INBOX\_MANAGER, SMS\_INBOX\_MONITOR, SMS\_INVENTORY\_DATA\_LOADER, and SMS\_INVENTORY\_PROCESSOR.

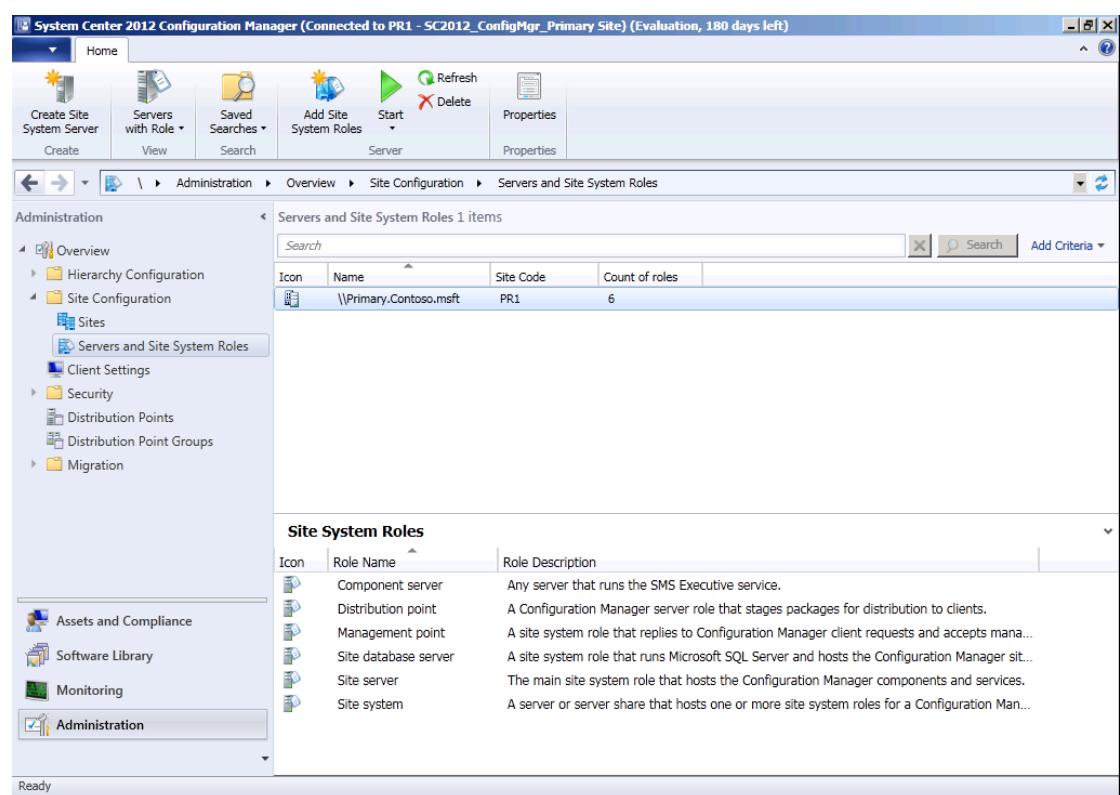
Icon	Status	Component	Site System	Type	Site Code
OK	OK	SMS_AI_KB_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_ALERT_NOTIFICATION	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_AMT_PROXY_COMPONENT	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_CERTIFICATE_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_CLIENT_CONFIG_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_CLIENT_HEALTH	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_COLLECTION_EVALUATOR	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_COMPONENT_MONITOR	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_COMPONENT_STATUS_SUMMA...	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_DATABASE_NOTIFICATION_MO...	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_DESPOLLER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_DISCOVERY_DATA_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS DISTRIBUTION_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_EN_ADSERVICE_MONITOR	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_ENDPOINT_PROTECTION_MAN...	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_EXECUTIVE	PRIMARY.CONTOSO.MSFT	Monitored Service Component	PR1
OK	OK	SMS_HIERARCHY_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_INBOX_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_INBOX_MONITOR	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_INVENTORY_DATA_LOADER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
OK	OK	SMS_INVENTORY_PROCESSOR	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1

27) Click the **Administration** workspace , expand **Site Configuration** , and then click **Sites** ,

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28) The list of sites appears in the results pane , notice that we only have one site as this time , is PR1 , click **Servers and Sites System Roles** :



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29) The list of Configuration Manager site systems appears in the results pane .

Notice that the installed roles for the central administration site appear in the preview pane .Notice also that the **Site server** and **Site database** server roles have all been installed on the site server computer .

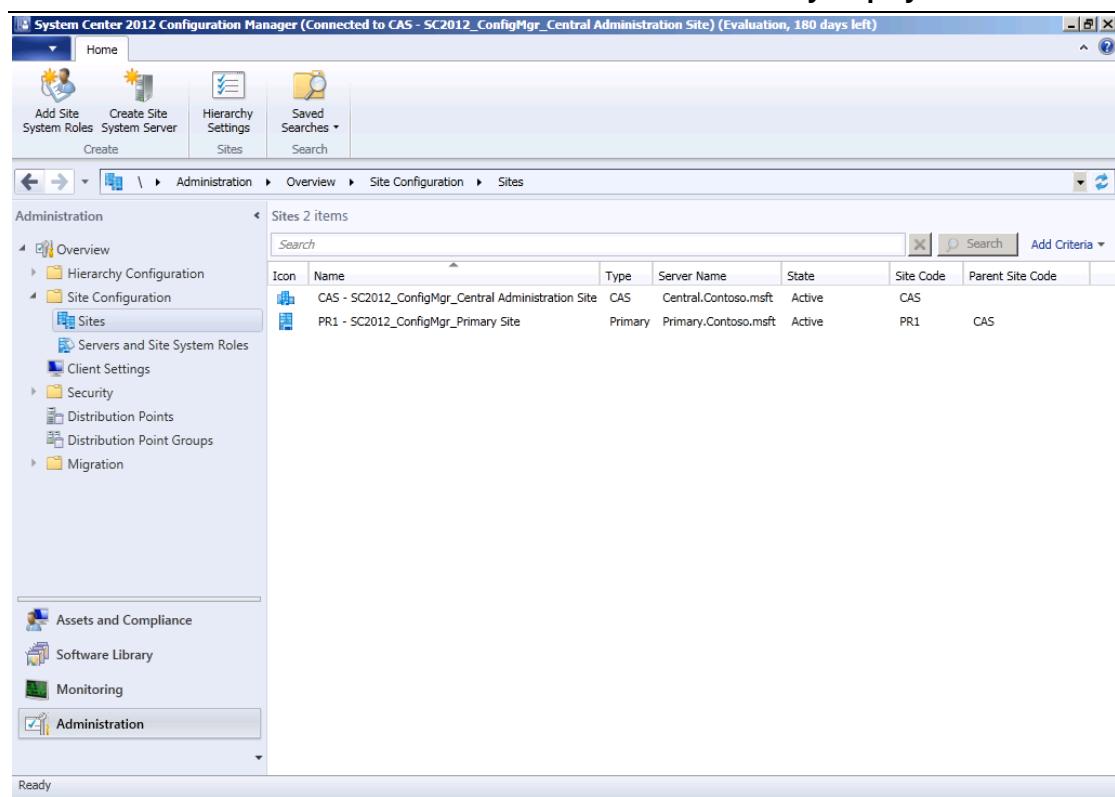
30) Switch to **Central** server , in **Administration** workspace , expand **Hierarchy Configuration** , click **Discovery Methods** , you can see the all discovery methods :

The screenshot shows the System Center 2012 Configuration Manager interface. The title bar indicates it is connected to CAS - SC2012\_ConfigMgr\_Central Administration Site. The left navigation pane shows the Administration workspace selected, with the Hierarchy Configuration section expanded, specifically the Discovery Methods node. The main content area displays a table titled 'Discovery Methods 7 items' with columns for Icon, Name, Status, Site, and Description. The table lists the following discovery methods:

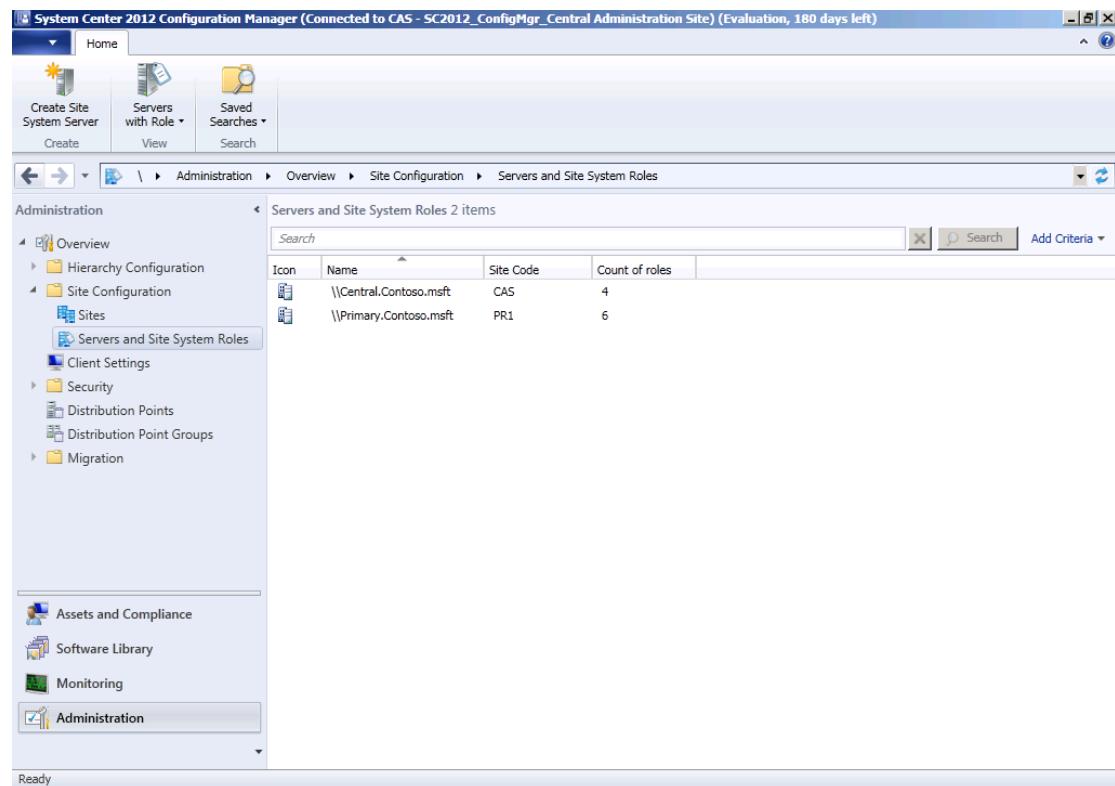
Icon	Name	Status	Site	Description
Active Directory Forest Discovery	Disabled	PR1	Configures settings that Configuration Manager uses to find Active...	
Active Directory Forest Discovery	Disabled	CAS	Configures settings that Configuration Manager uses to find Active...	
Active Directory Group Discovery	Disabled	PR1	Configures settings that Configuration Manager uses to find groups...	
Active Directory System Discovery	Disabled	PR1	Configures settings that Configuration Manager uses to find comput...	
Active Directory User Discovery	Disabled	PR1	Configures settings that Configuration Manager uses to find user ac...	
Heartbeat Discovery	Enabled	PR1	Configures interval for Configuration Manager clients to periodically...	
Network Discovery	Disabled	PR1	Configures settings and polling intervals to discover resources on th...	

31) Expand **Site Configuration** , click **Sites** , you can see two site servers :

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32) Click **Servers and Site System Roles** , you can see site system roles :



33) Click the **Monitoring** workspace , click **Database Replication** , the status of

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the SQL replication processing between the central administration site and the primary site appears in the results pane . Notice that the preview pane displays details on global and site data replication for the selected link . Until the status of the **Link State** displays **Link Active** , you should not do any administration of the environment from the primary site , only the central administration site :

The screenshot shows the System Center 2012 Configuration Manager interface. The title bar indicates it is connected to CAS - SC2012\_ConfigMgr\_Central Administration Site (Evaluation, 180 days left). The ribbon has tabs like Home, Monitoring, Overview, and Database Replication. The left navigation pane under Monitoring includes Overview, Alerts, Queries, Reporting, Site Hierarchy, System Status (with Site Status, Component Status, Conflicting Records, Status Message Queries, Deployments), Client Status, Database Replication (selected), Distribution Status, Software Update Point Syncrh., Assets and Compliance, Software Library, Monitoring (selected), and Administration. The main content area shows 'Database Replication 1 items' with a table:

Icon	Parent Site	Child Site	Link State	Description
CAS	PR1	Link Active	Link is active	

Below this, the 'Replication Status' section is expanded, showing Site Replication Status and Global Data Replication Status. Site Replication Status details: Parent Site: CAS, Parent Site State: Replication Active, Child Site: PR1, Child Site State: Replication Active. Global Data Replication Status details: Parent Site to Child Site: Link Active, Global State: Link Active, Parent Site to Child Site: Global Synchronization Time: 3/30/2012 5:29 AM, Child Site to Parent Site: Link Active, Global State: Link Active, Last Synchronization Time: 3/30/2012 5:33 AM, Global Data Initialization Percentage: 100%. The Site Data Replication Status section shows: Child Site to Parent Site State: Link Active, Child Site to Parent Site Synchronization Time: 3/30/2012 5:34 AM.

34) Click **Parent Site** , you can see the **Replication Status** :

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Icon	Parent Site	Child Site	Link State	Description
	CAS	PR1	Link Active	Link is active

Icon	Monitored Item	Current Configuration	Description
	Computer account	CONTOSO\Central\$	Configuration Manager Site Server Account Central.Contoso.msft still valid.
	Database file disk free space	C:\ 27GB	Configuration Manager Database File Disk still has enough free space.
	Database file location	C:\Program Files\Microsoft...	Configuration Manager Database file location is still valid.
	Firewall ports	1433,4022	Configuration Manager SQL Server ports 1433,4022 still active on Firewall.
	Machine certificate	Expiry date: 2112-03-05, cn...	Certificate is still valid for Central.Contoso.msft.
	SQL Server certificate	Expiry date: 2029-01-01, cn...	Service Broker certificate is still valid for Central.Contoso.msft.
	SQL Server port	1433	Port 1433 still valid for Central.Contoso.msft.
	SQL Server role	smsdbrole_MP,smsdbrole_M...	All Configuration Manager SQL Roles still valid.
	SQL Server service broker port	4022	Service Broker Central.Contoso.msft Port 4022 still valid.

35) Click the **Child Site** :

Icon	Parent Site	Child Site	Link State	Description
	CAS	PR1	Link Active	Link is active

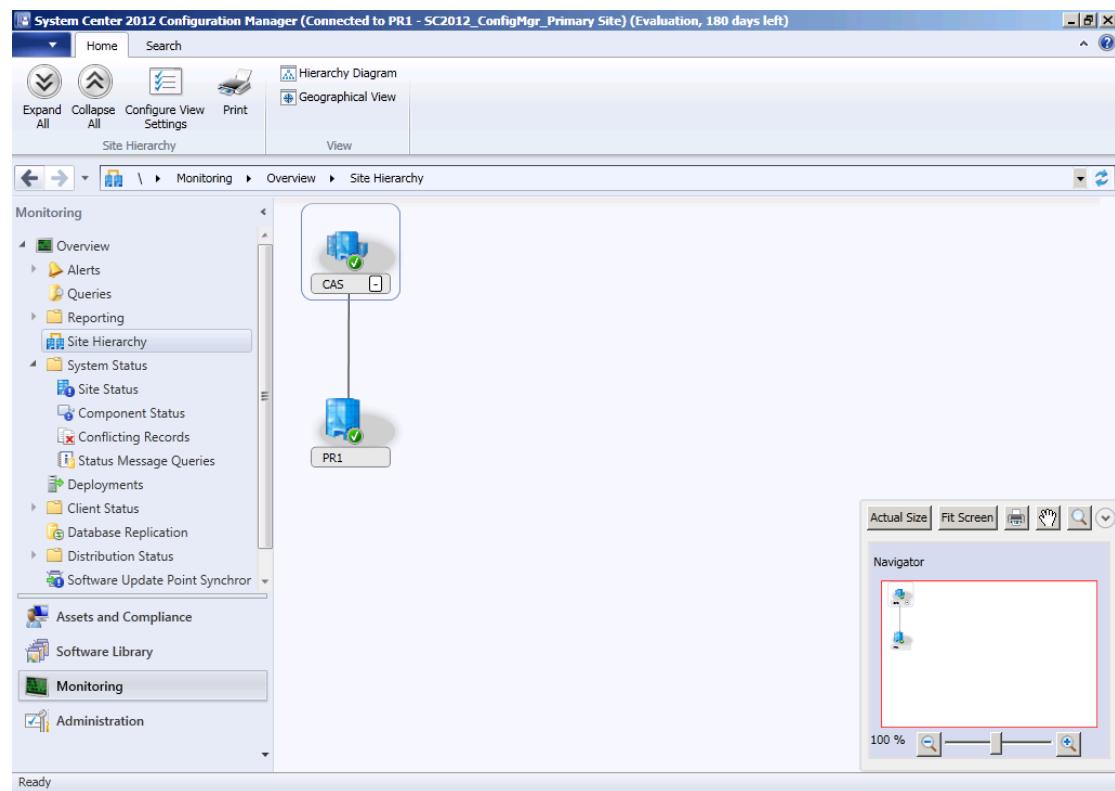
Icon	Monitored Item	Current Configuration	Description
	Computer account	CONTOSO\Primary\$	Configuration Manager Site Server Account Primary.Contoso.msft still valid.
	Database file disk free space	C:\ 28GB	Configuration Manager Database File Disk still has enough free space.
	Database file location	C:\Program Files\Microsoft...	Configuration Manager Database file location is still valid.
	Firewall ports	1433,4022	Configuration Manager SQL Server ports 1433,4022 still active on Firewall.
	Machine certificate	Expiry date: 2112-03-06, cn...	Certificate is still valid for Primary.Contoso.msft.
	SQL Server certificate	Expiry date: 2029-01-01, cn...	Service Broker certificate is still valid for Primary.Contoso.msft.
	SQL Server port	1433	Port 1433 still valid for Primary.Contoso.msft.
	SQL Server role	smsdbrole_MP,smsdbrole_M...	All Configuration Manager SQL Roles still valid.
	SQL Server service broker port	4022	Service Broker Primary.Contoso.msft Port 4022 still valid.

36) Switch to **Primary** server , click the **Monitoring** workspace , click **Site**

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**Hierarchy** , you can see all site hierarchy :

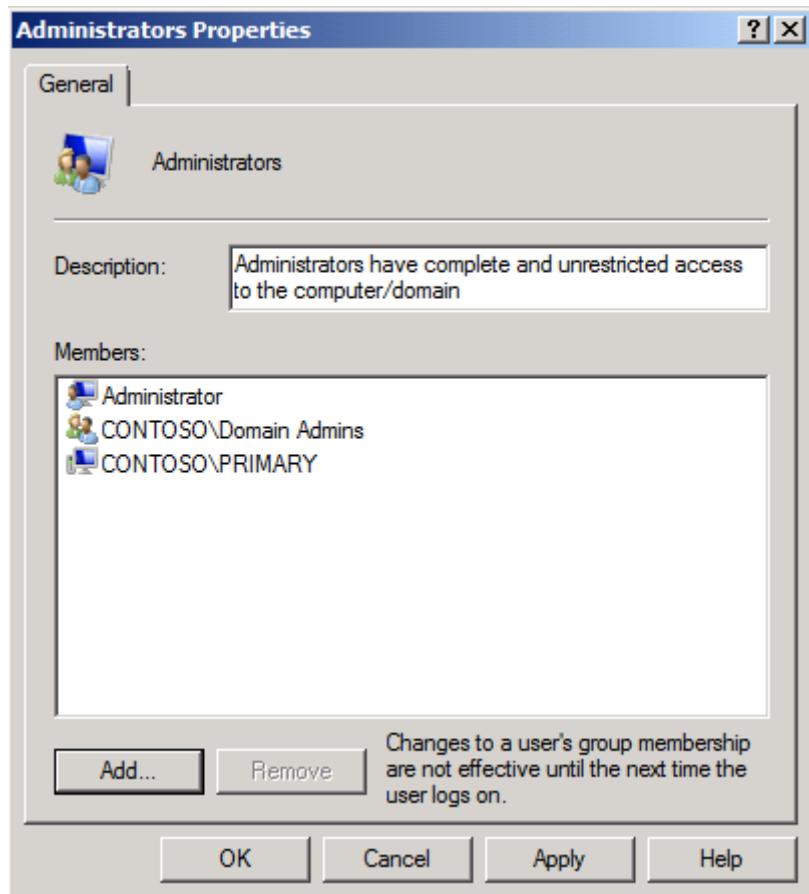


## 10. Installing SC2012 ConfigMgr Secondary Site requirement Windows components :

- 1) This process is no longer described in this part , you can reference my document **《 System Center 2012 Configuration Manager RTM Advanced Security Deployment Document》** . Don' t forget installing .Net Framework 4.0 .

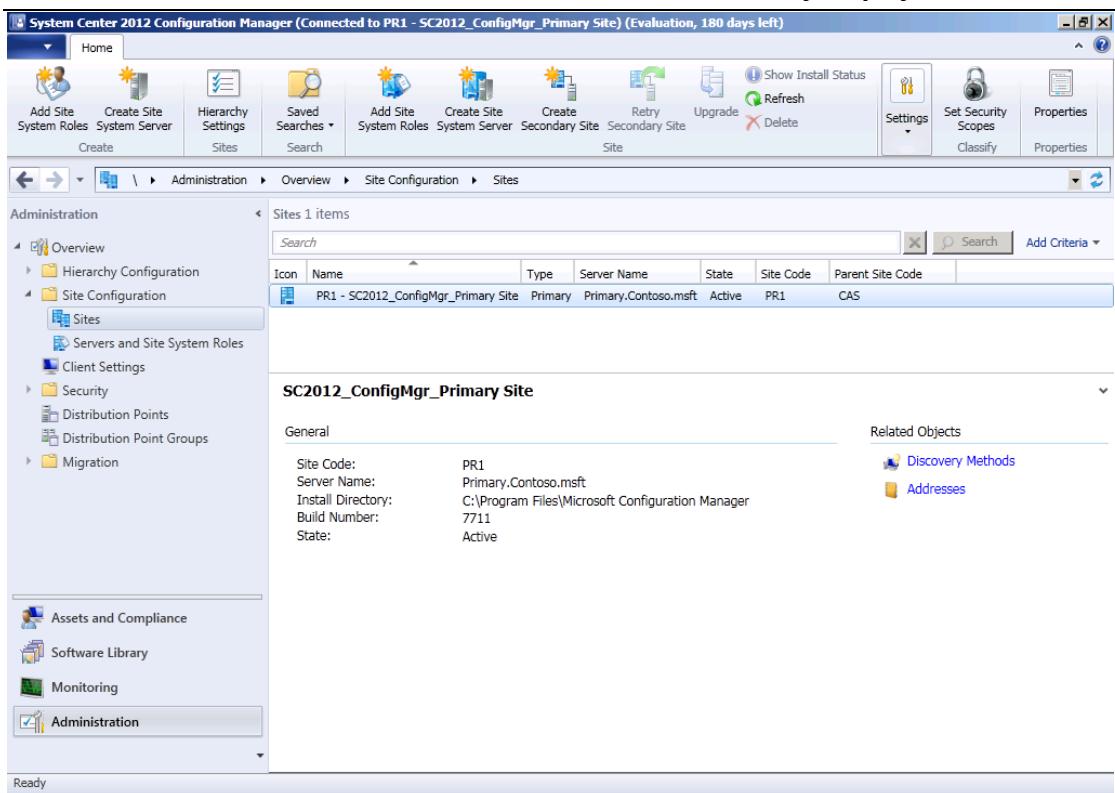
## 11. Installing SC2012 ConfigMgr Secondary Site :

- 1) Logon to **Secondary** server , grant local administrators group permission for the **Primary** site server computer account :

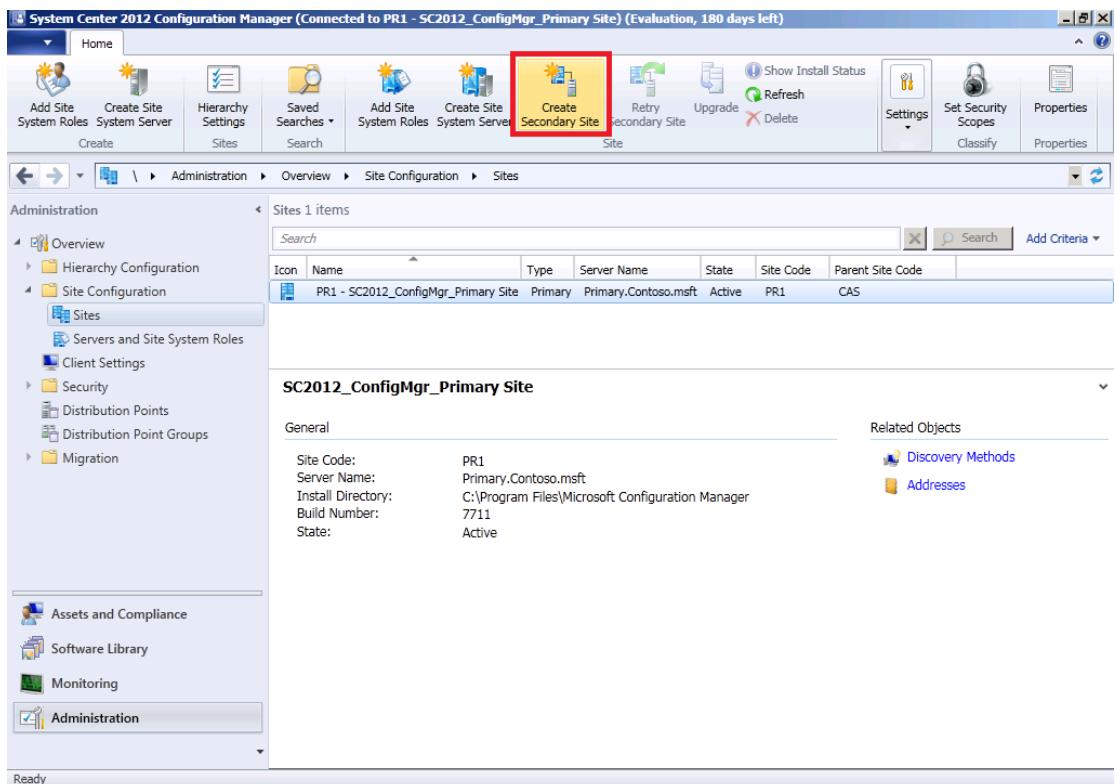


- 2) Click **OK** and switch to **Primary** server . In the **Administration** workspace , expand **Site Configuration** , and then click **Sites** :

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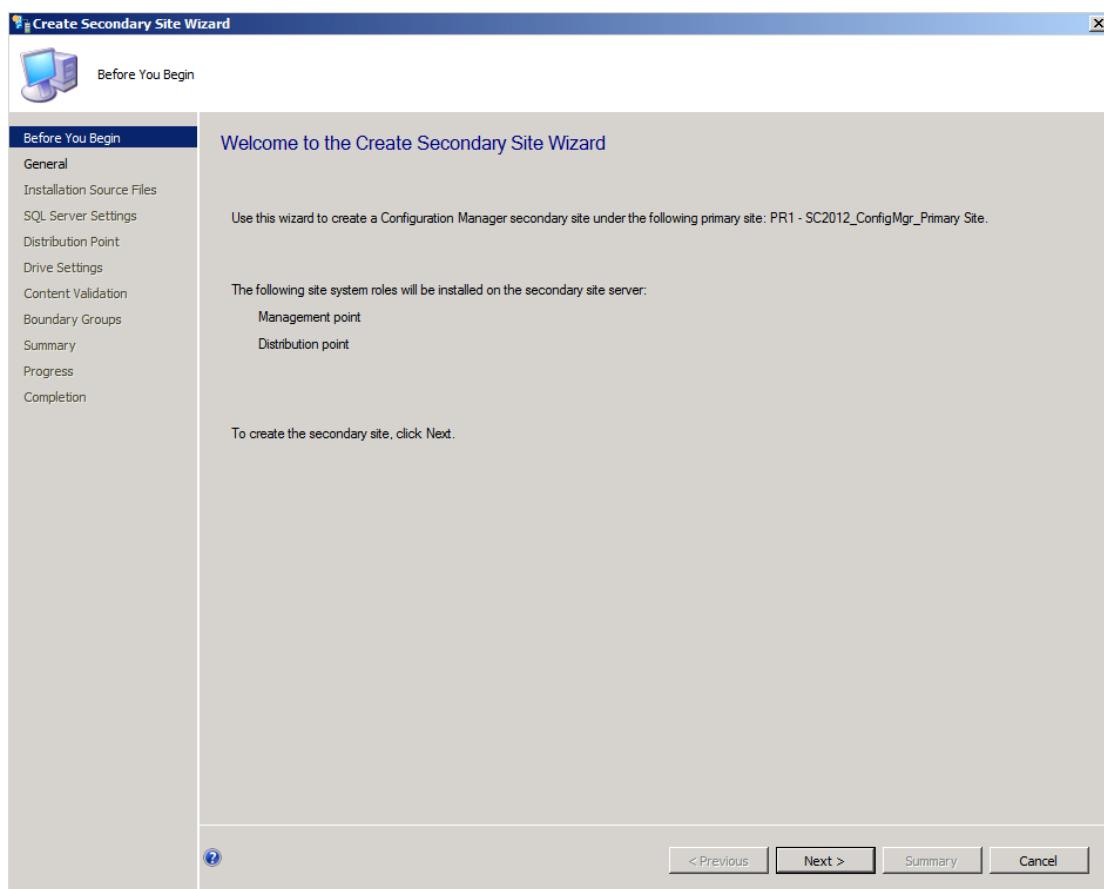
3) Click **PR1** , and then on the Ribbon , click **Create Secondary Site** :



4) The **Create Secondary Site Wizard Before You Begin** dialog box appears :

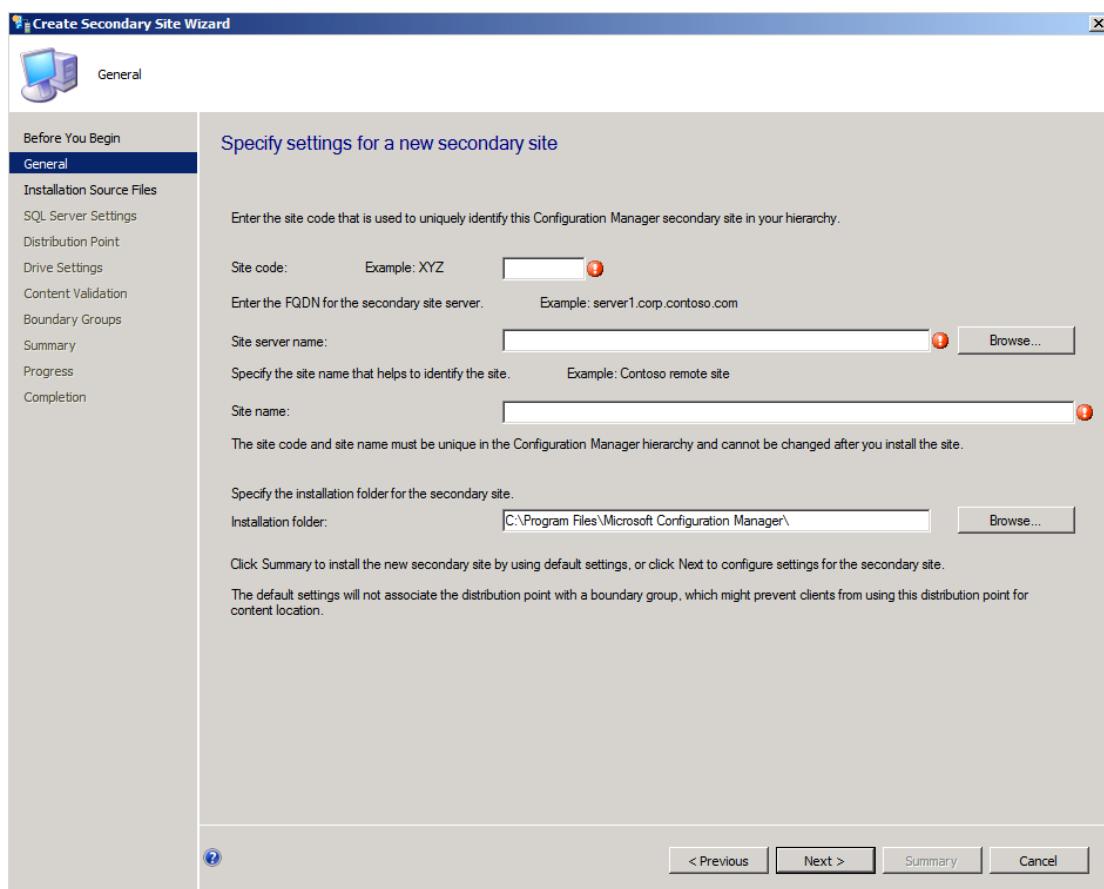
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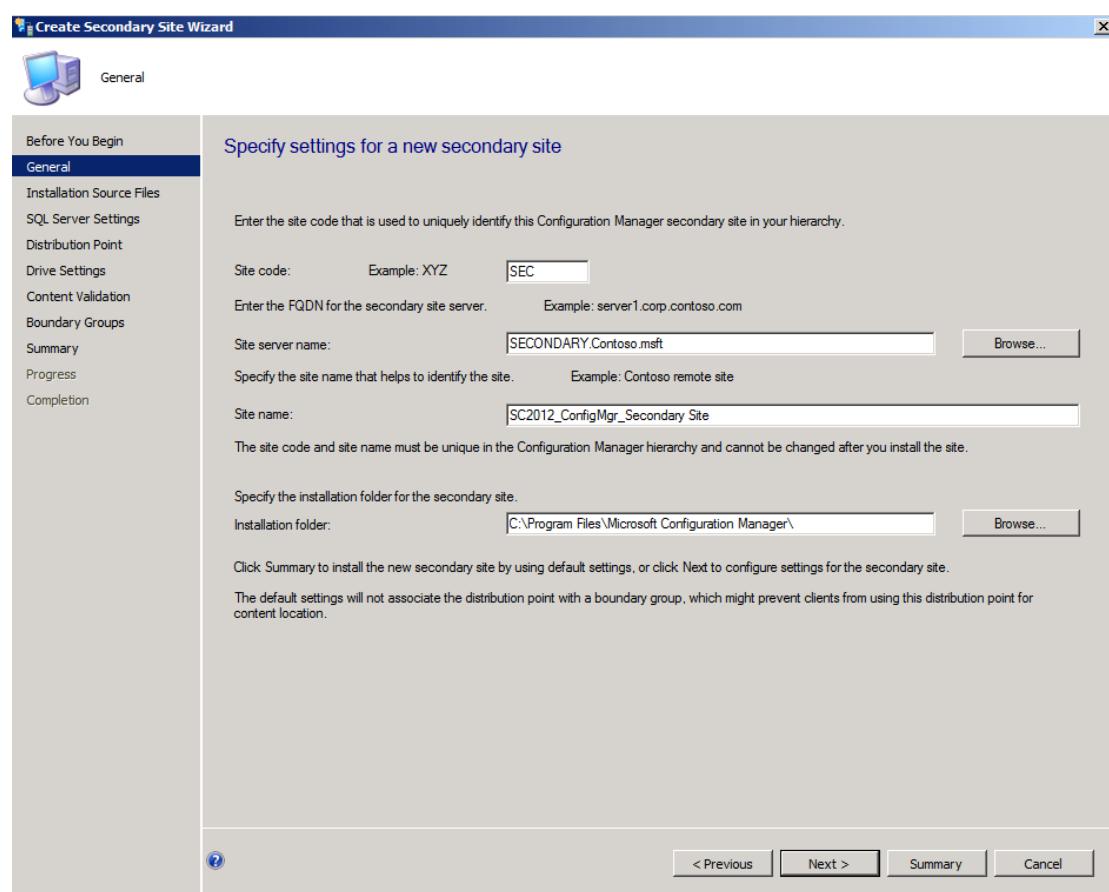
5) Click **Next** , the **General** dialog box appears :

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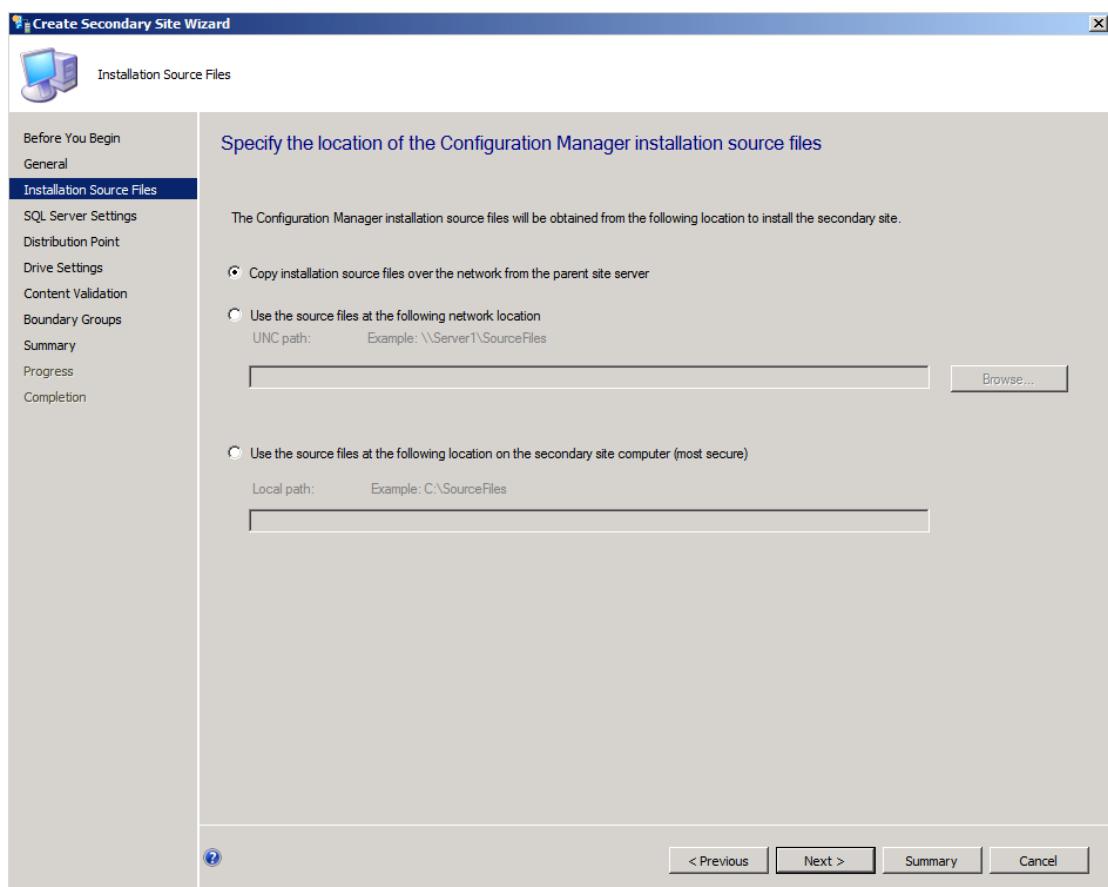
6) Type relate information in the box :

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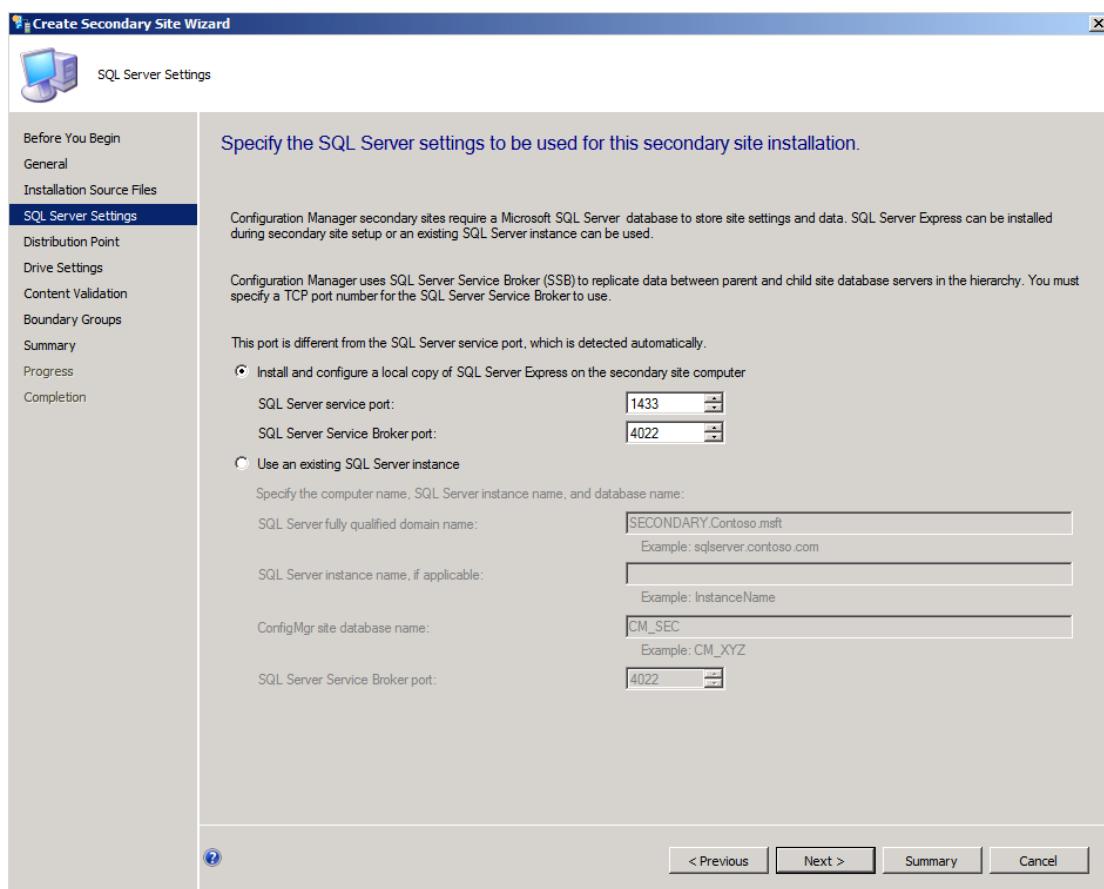
7) Click **Next** , the **Installation Source Files** dialog box appears :

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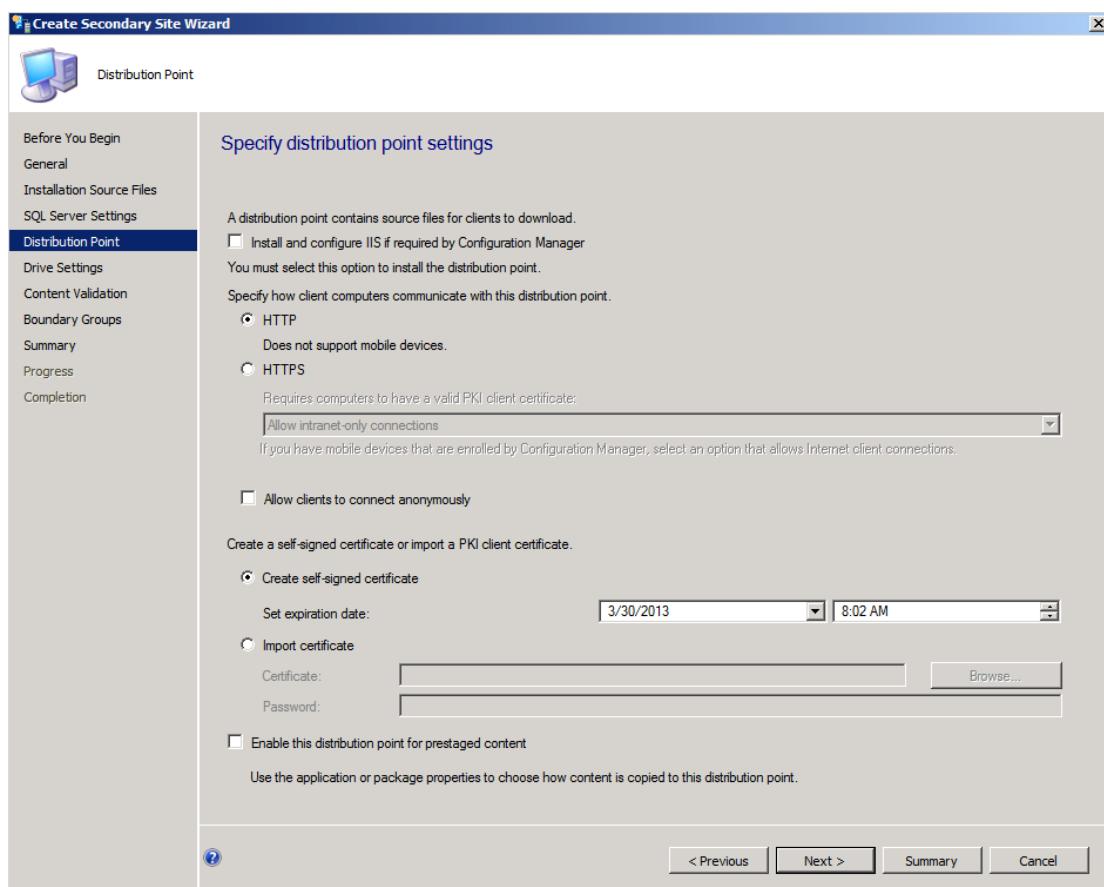
8) Verify that **Copy installation source files over the network from the parent site server** is selected , and then click **Next** , the **SQL Server Settings** dialog box appears :

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9) Verify that **Install and configure a local copy of SQL Server Express on the secondary site computer** is selected , verify that the default ports of **1433** and **4022** are listed , and then click **Next** , the **Distribution Point** dialog box appears :

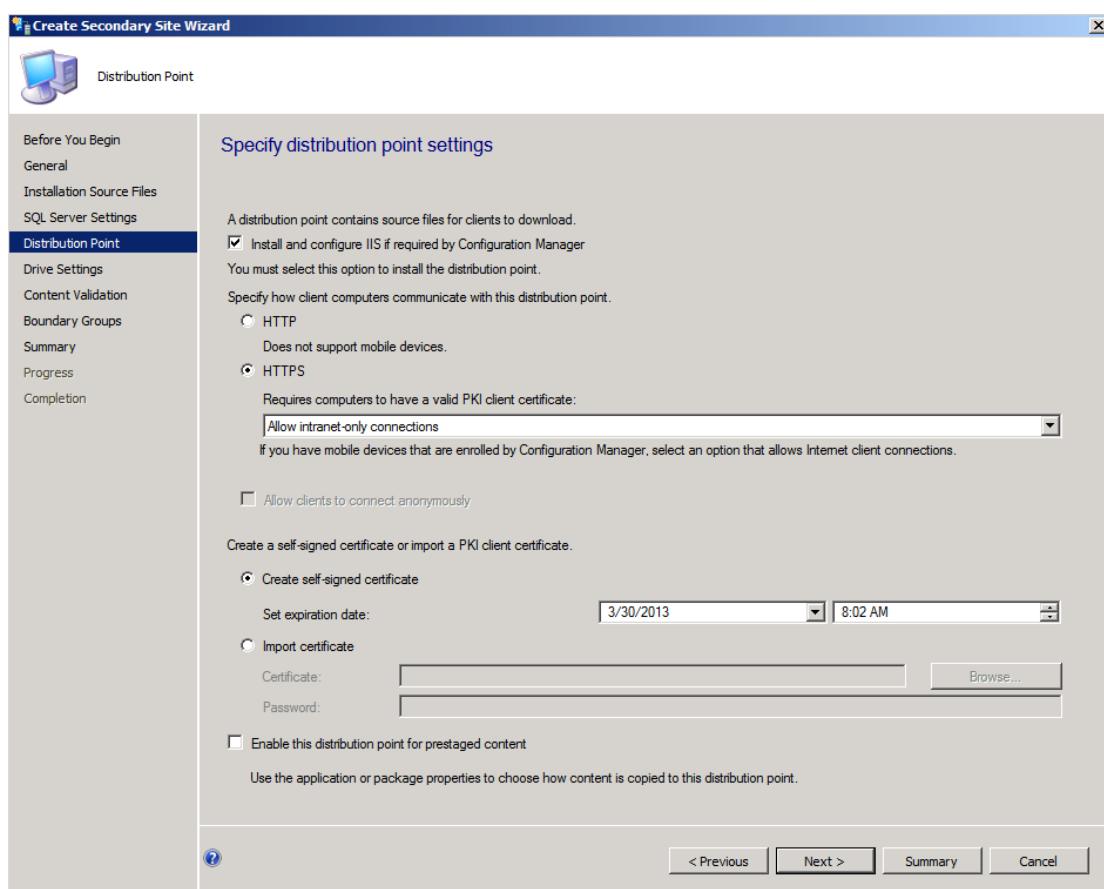
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10) Select **Install and configure IIS if required by Configuration Manager**,

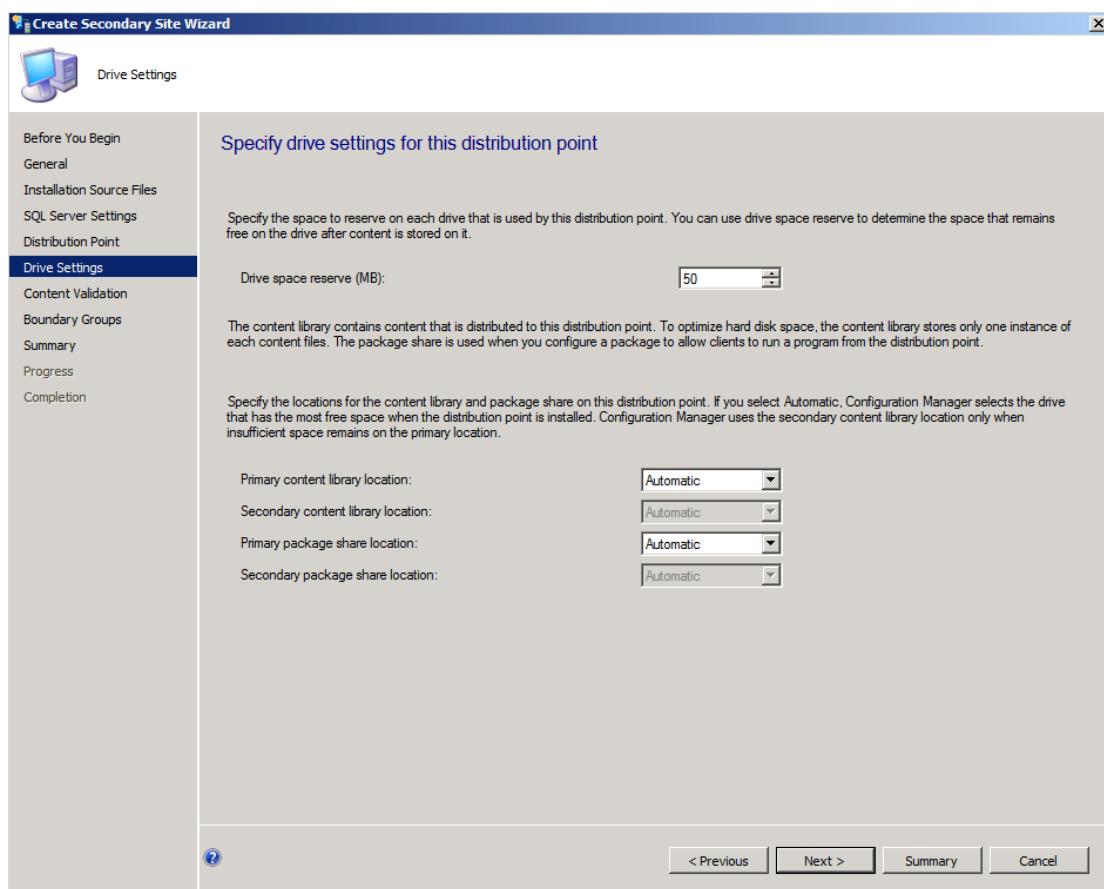
click **HTTPS** :

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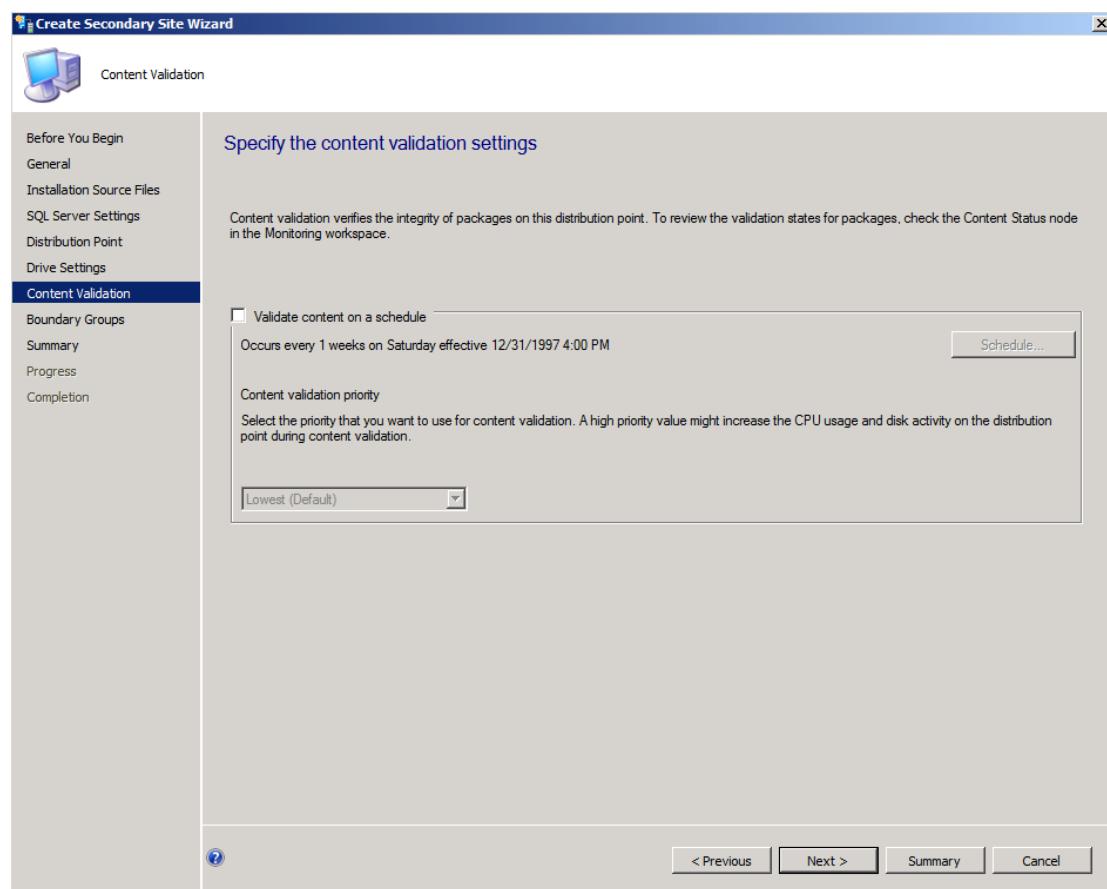
11) Click **Next** , the **Drive Settings** dialog box appears :

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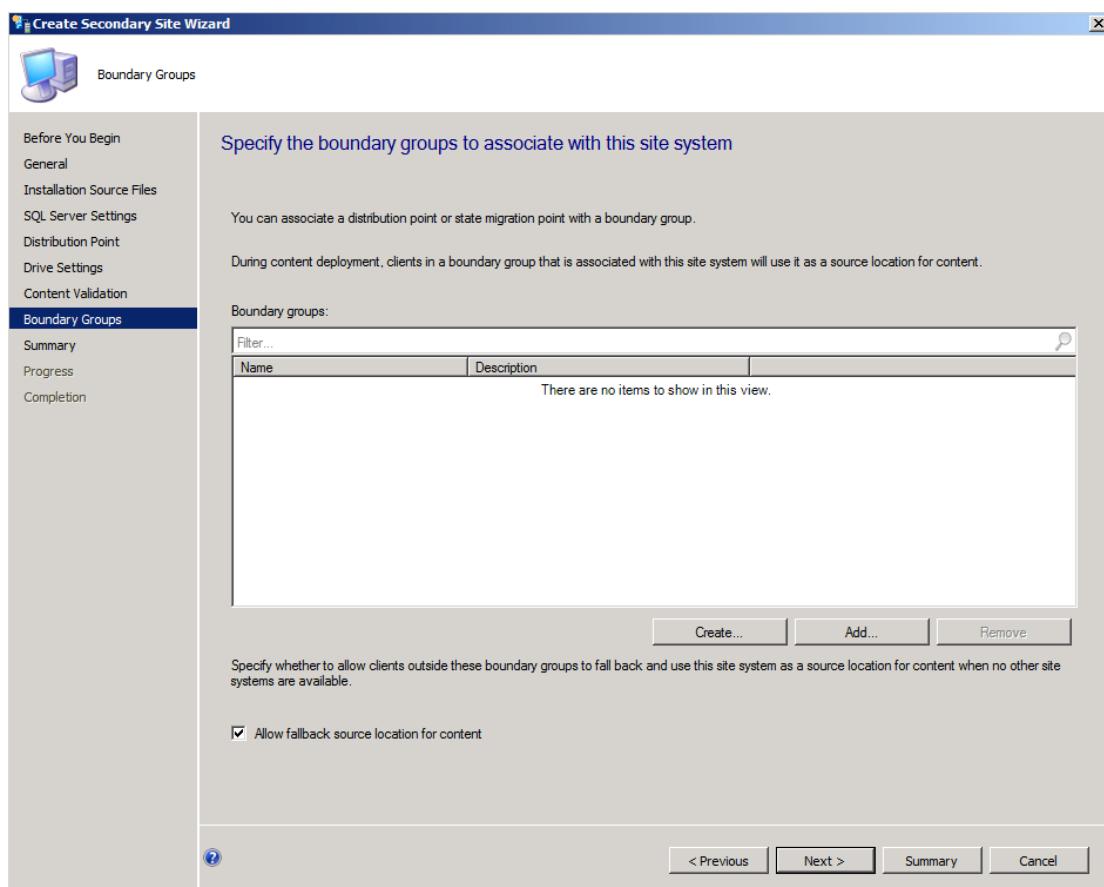
12) Click **Next** , the **Content Validation** dialog box appears :

**System Center 2012**  
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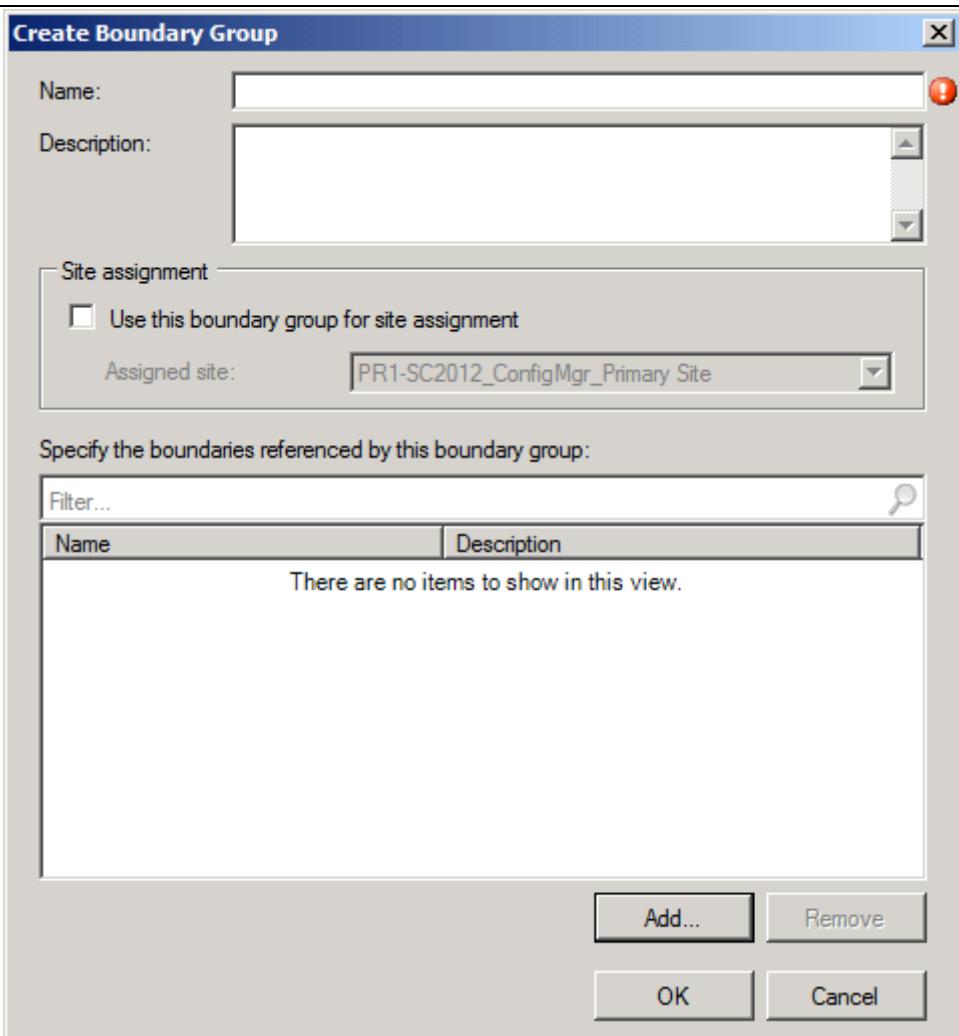
13) Click **Next** , the **Boundary Groups** dialog box appears :

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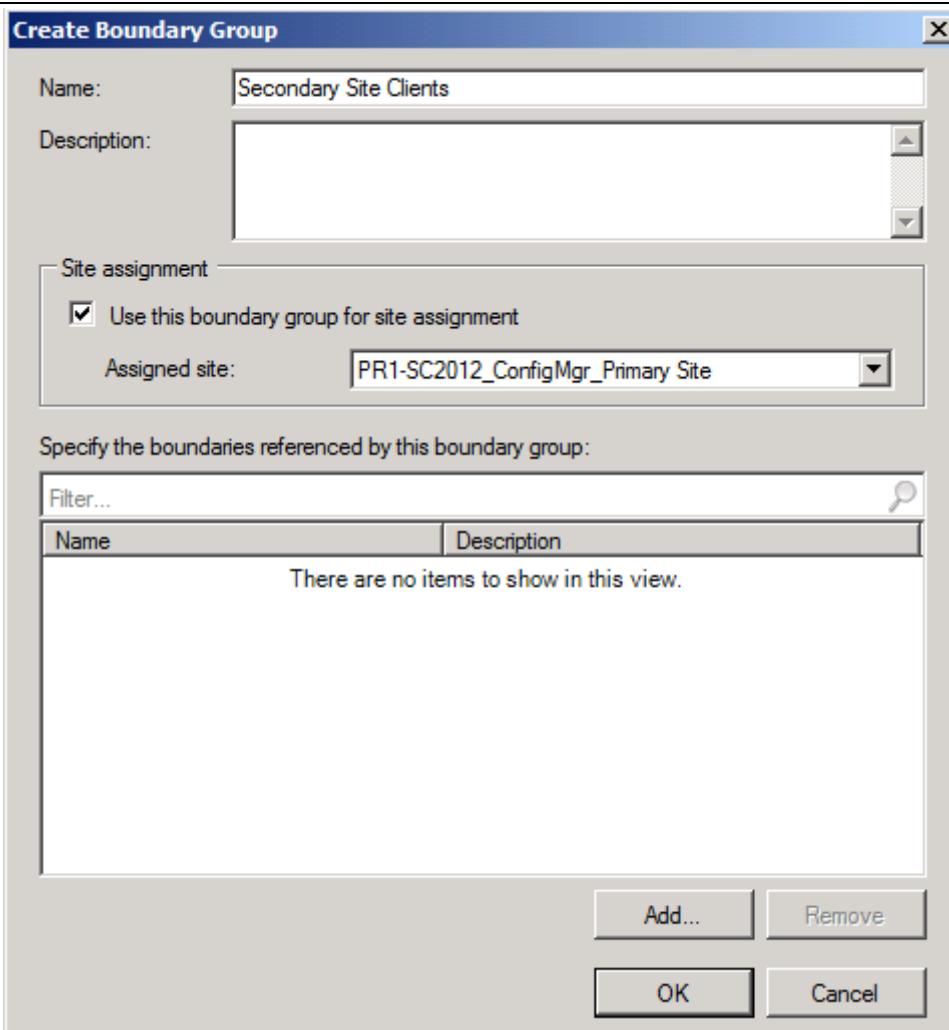
14) Click **Create...** , the **Create Boundary Group** dialog box appears :

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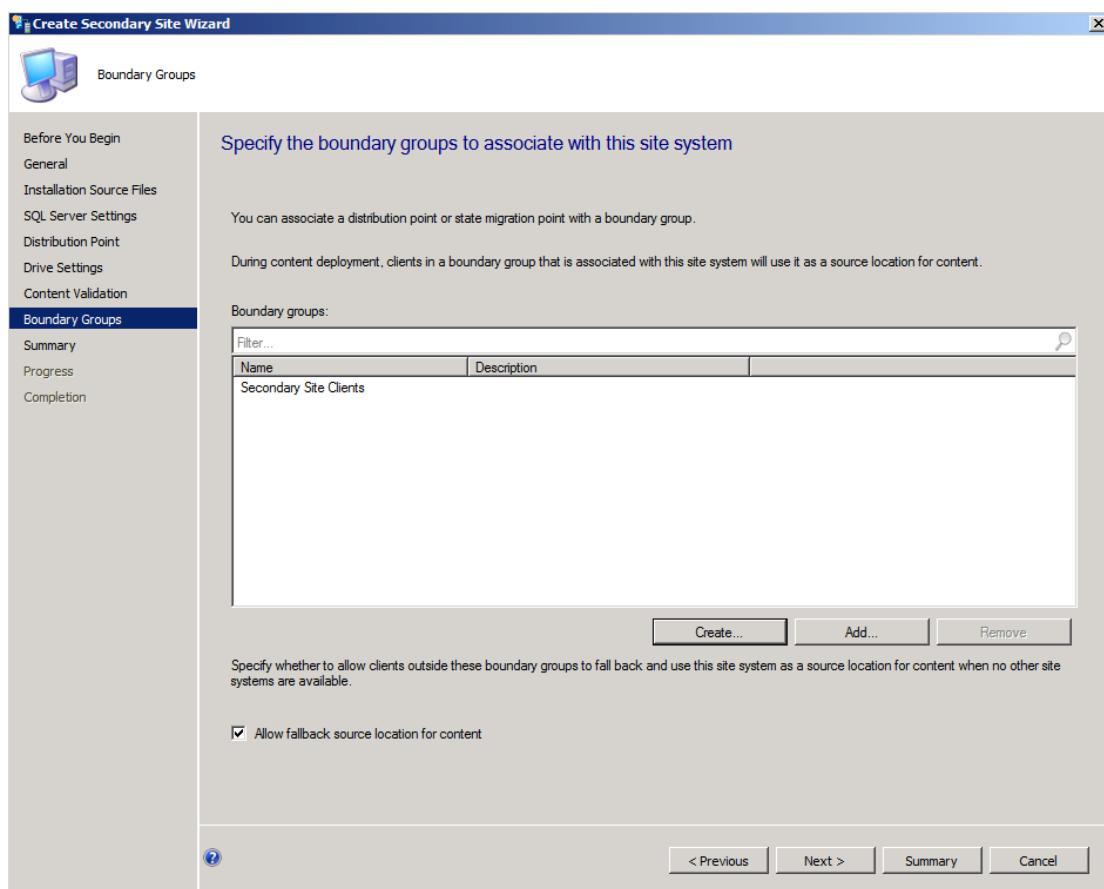
15) Type a name in the **Name** box , select **Use this boundary group for site assignment** , and then in the **Assigned site** box , verify that **PR1-SC2012\_ConfigMgr\_Primary Site** is listed :

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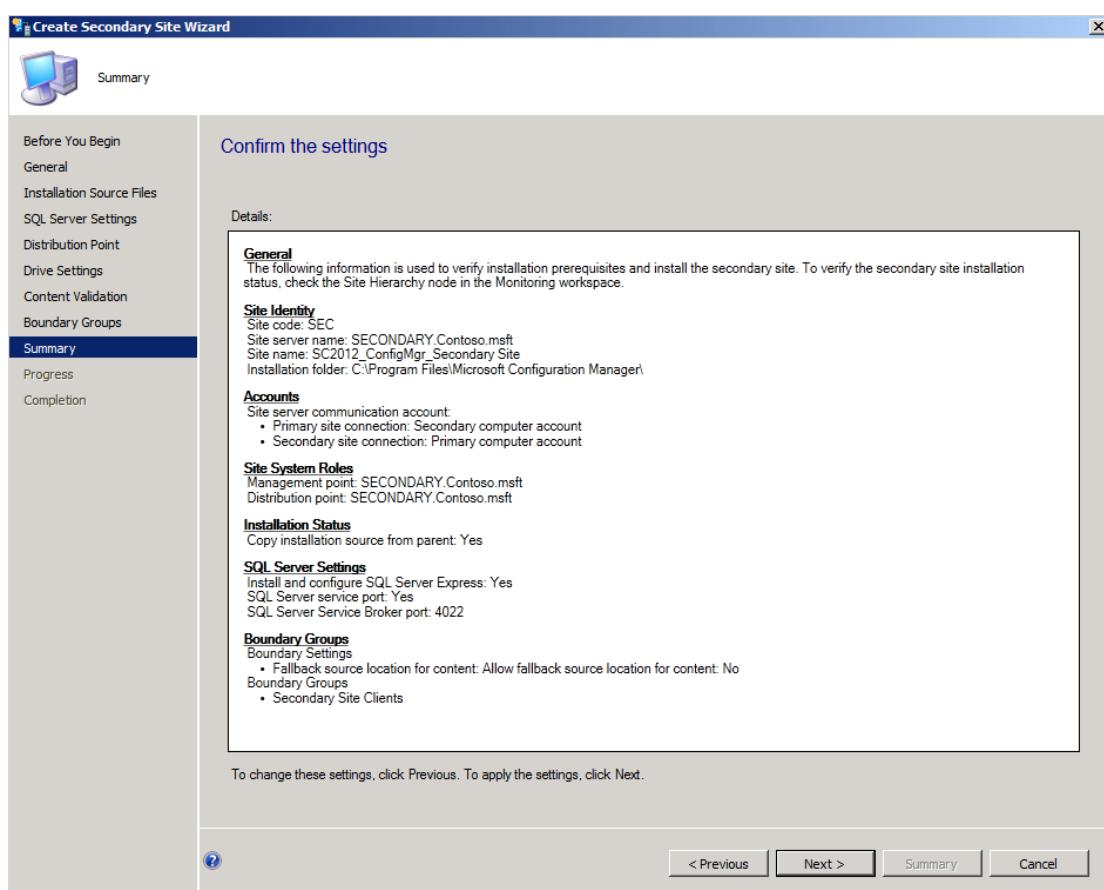
16) Click **OK** , the **Boundary Groups** dialog box appears displaying the new boundary group for the secondary site :

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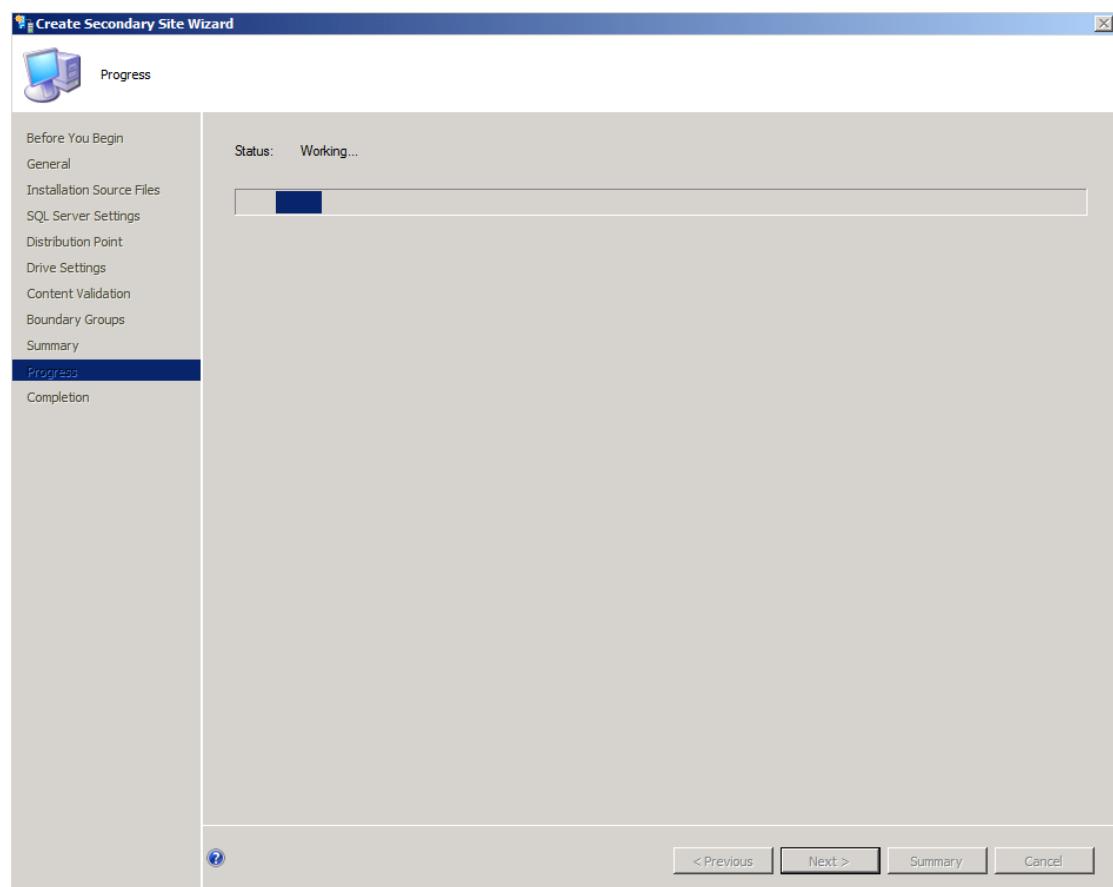
17) Click **Next** , the **Summary** dialog box appears :

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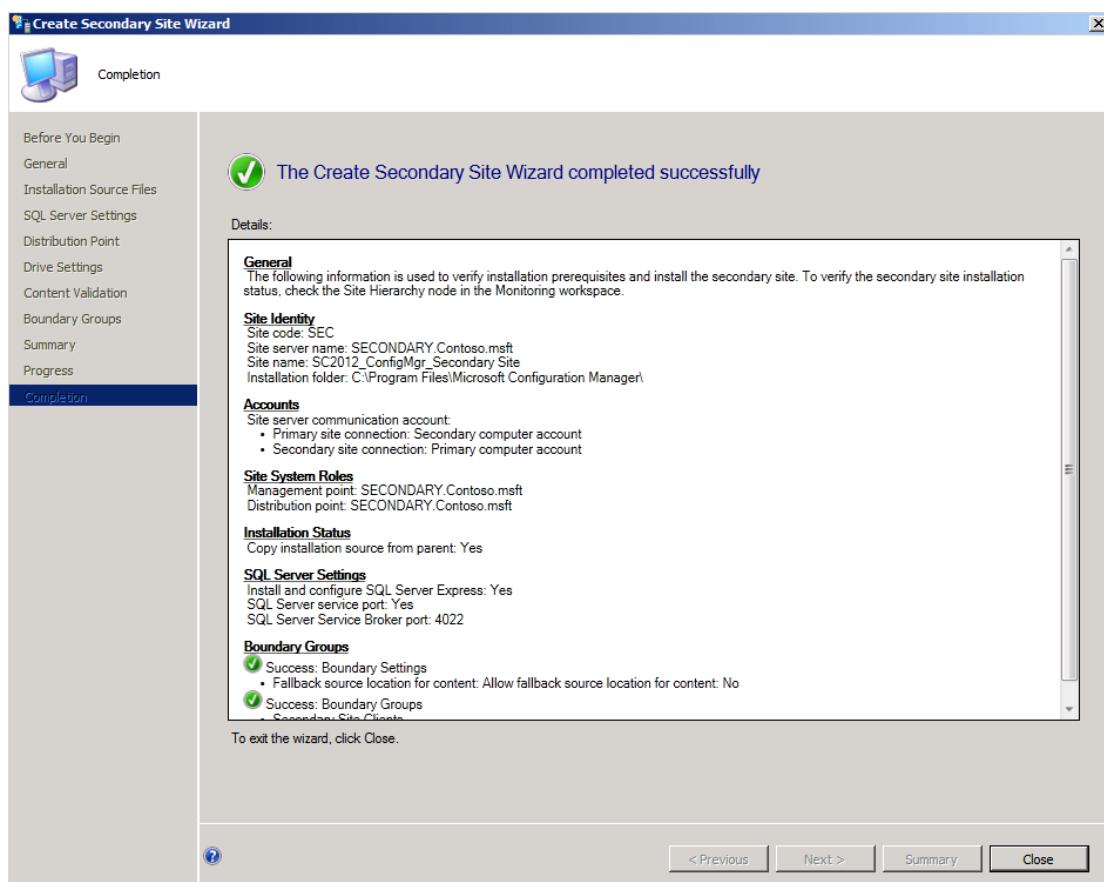
18) Click **Next** , the **Progress** dialog box appears :

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19) Wait a seconds , the **Completion** dialog box appears :

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20) Click **Close** , the list of Configuration Manager sites appear in the results pane . The secondary site appears in the list with a status of **Pending** :

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The screenshot shows the System Center 2012 Configuration Manager interface. The navigation pane on the left is titled 'Administration' and includes sections for Overview, Hierarchy Configuration, Site Configuration (with 'Sites' selected), and Migration. The main content area displays a table titled 'Sites 2 items' with two rows:

Icon	Name	Type	Server Name	State	Site Code	Parent Site Code
PR1 - SC2012_ConfigMgr_Primary Site	Primary	Primary.Contoso.msft	Active	PR1	CAS	
SEC - SC2012_ConfigMgr_Secondary Site	Secondary	SECONDARY.Contoso.msft	Pending	SEC	PR1	

Below the table, a detailed view for the 'SC2012\_ConfigMgr\_Secondary Site' is shown under the 'General' tab. The 'State' field is explicitly highlighted with a red box and contains the value 'Pending'. Other details include:

- Site Code: SEC
- Server Name: SECONDARY.Contoso.msft
- Install Directory: C:\Program Files\Microsoft Configuration Manager\
- Build Number: 7711

21) Depending on the hardware , network and whether or not the secondary site installation may take up to 30 minutes to complete .

22) Refresh the Sites node in the **Administration** workspace navigation pane , the secondary site appears in the results pane of sites :

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The screenshot shows the System Center 2012 Configuration Manager interface. The ribbon has tabs for Home, Administration, Overview, Site Configuration, and Sites. Under Site Configuration, the 'Sites' tab is selected. The main pane displays a table of sites with columns for Icon, Name, Type, Server Name, State, Site Code, and Parent Site Code. Two sites are listed: 'PR1 - SC2012\_ConfigMgr\_Primary Site' (Primary, Active, PR1, CAS) and 'SEC - SC2012\_ConfigMgr\_Secondary Site' (Secondary, Active, SEC, PR1). The secondary site is currently selected. The ribbon at the top has several icons, and the 'Show Install Status' icon is highlighted with a red box.

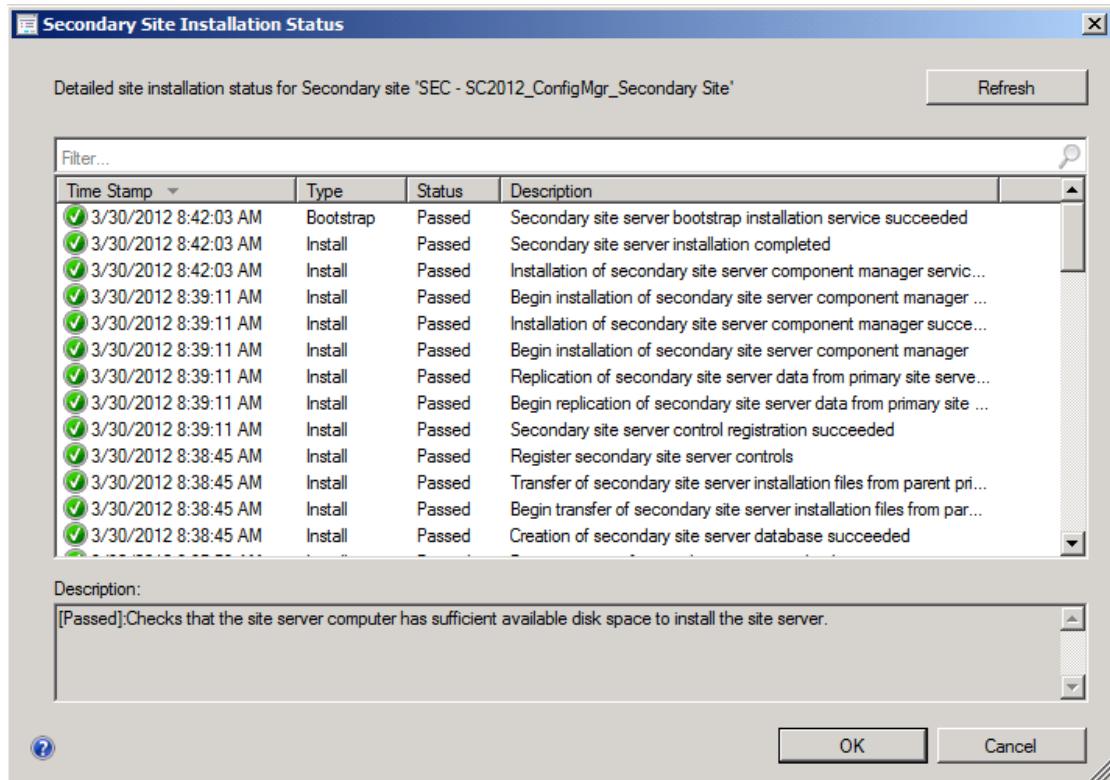
23) In the results pane , click **SEC** , and then on the Ribbon , click **Show Install**

**Status :**

This screenshot is identical to the previous one, showing the System Center 2012 Configuration Manager interface. The 'Show Install Status' button on the ribbon is again highlighted with a red box, indicating the step being performed.

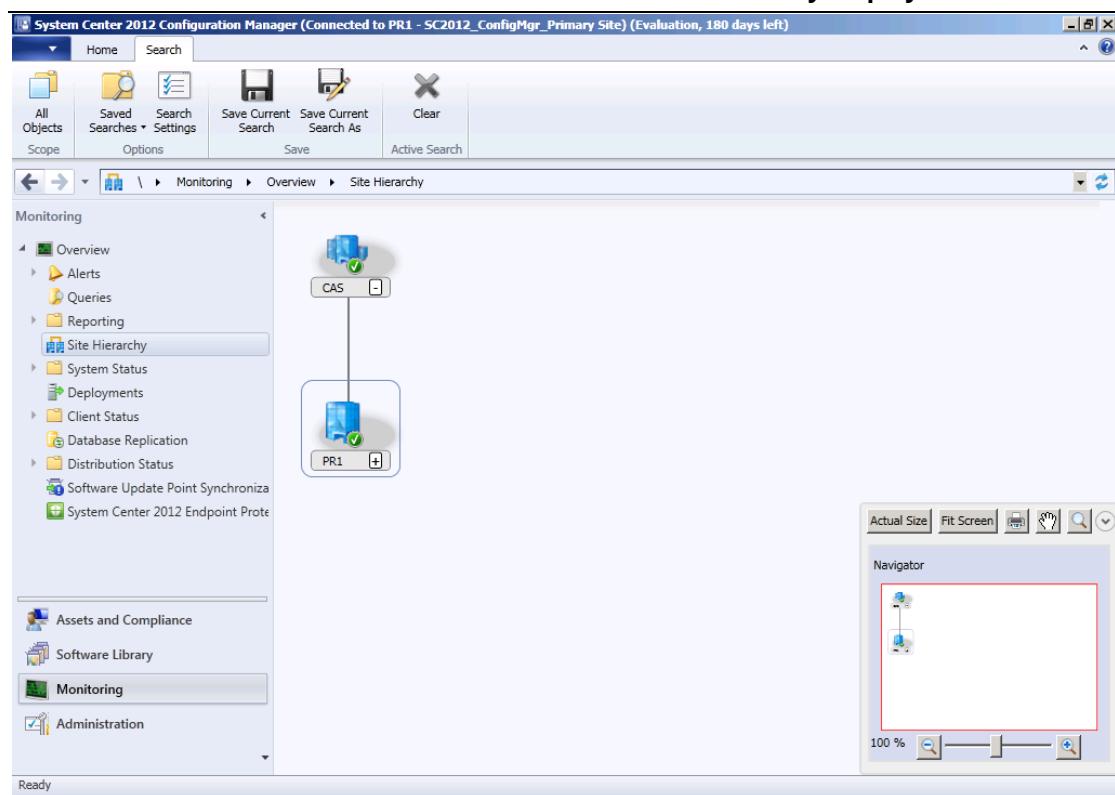
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24) The **Secondary Site Installation Status** message box appears displaying the status of the installation of the secondary site :

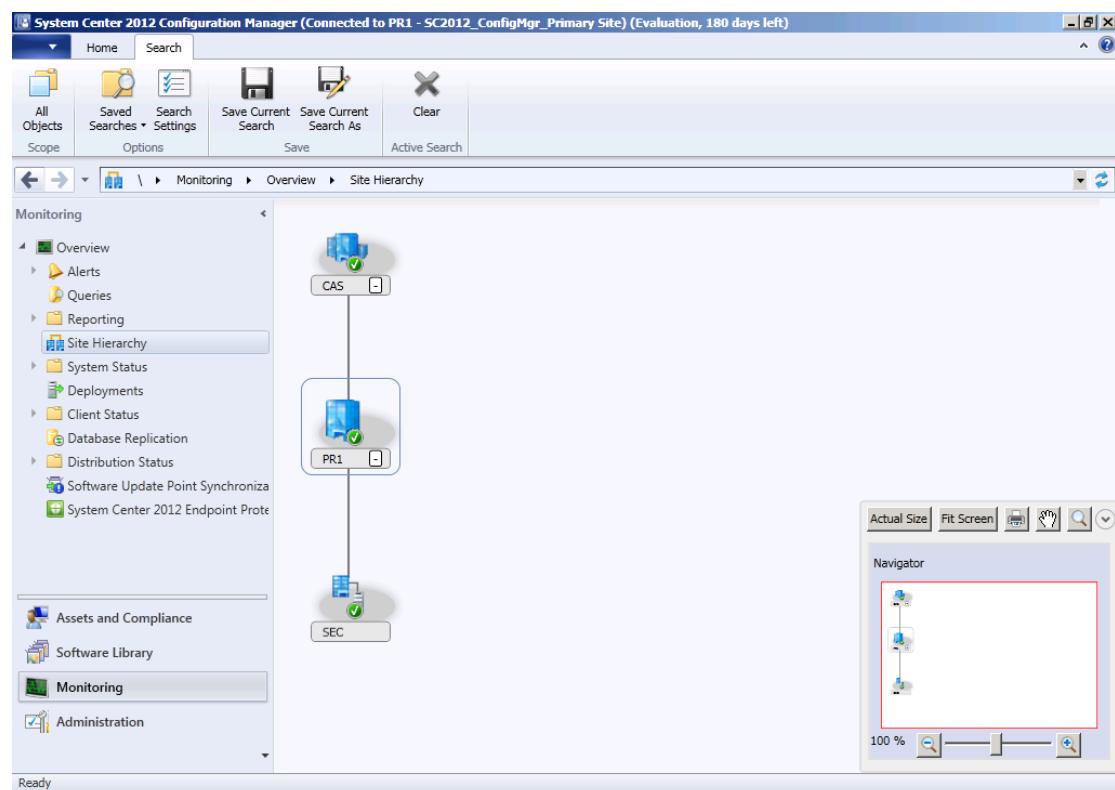


25) Click **OK** , the secondary site appears in the list with a status of **Active** .  
Click the **Monitoring** workspace , in the navigation pane , click **Site Hierarchy** :

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26) In the results pane , expand **PR1** , the hierarchy appears in the Sites view , notice that the secondary site (**SEC**) now appears in the view under **PR1** :



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27) You can use the Site Hierarchy view to display the full hierarchy and all sites.

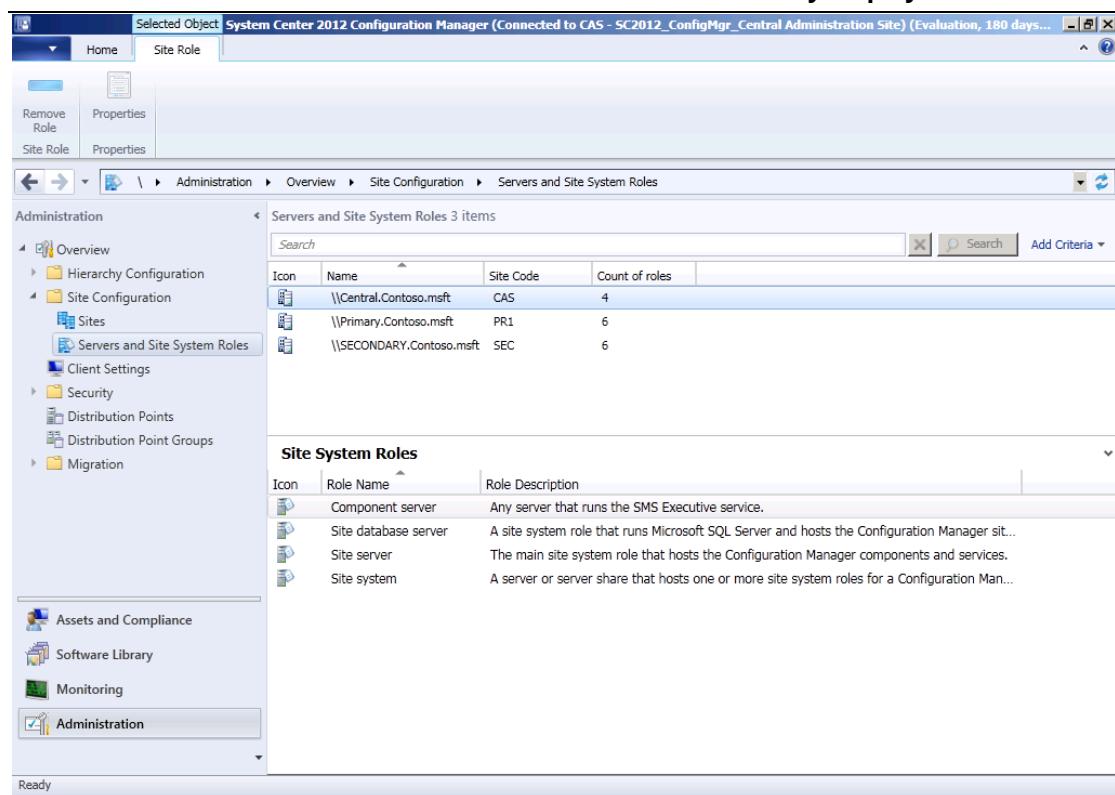
Switch to **Central** server , click the **Administration** workspace , expand **Site Configuration** , click **Sites** , you can see all sites server :

The screenshot shows the System Center 2012 Configuration Manager interface. The title bar reads "System Center 2012 Configuration Manager (Connected to CAS - SC2012\_ConfigMgr\_Central Administration Site) (Evaluation, 180 days left)". The ribbon has tabs for Home, Administration, Overview, Site Configuration, and Sites. The left navigation pane under "Administration" is expanded, showing "Overview", "Hierarchy Configuration", "Site Configuration" (which is selected), "Clients", "Security", "Distribution Points", "Distribution Point Groups", and "Migration". The main content area displays a table titled "Sites 3 items" with the following data:

Icon	Name	Type	Server Name	State	Site Code	Parent Site Code
Blue folder	CAS - SC2012_ConfigMgr_Central Administration Site	CAS	Central.Contoso.msft	Active	CAS	
Blue folder	PR1 - SC2012_ConfigMgr_Primary Site	Primary	Primary.Contoso.msft	Active	PR1	CAS
Blue folder	SEC - SC2012_ConfigMgr_Secondary Site	Secondary	SECONDARY.Contoso.msft	Active	SEC	PR1

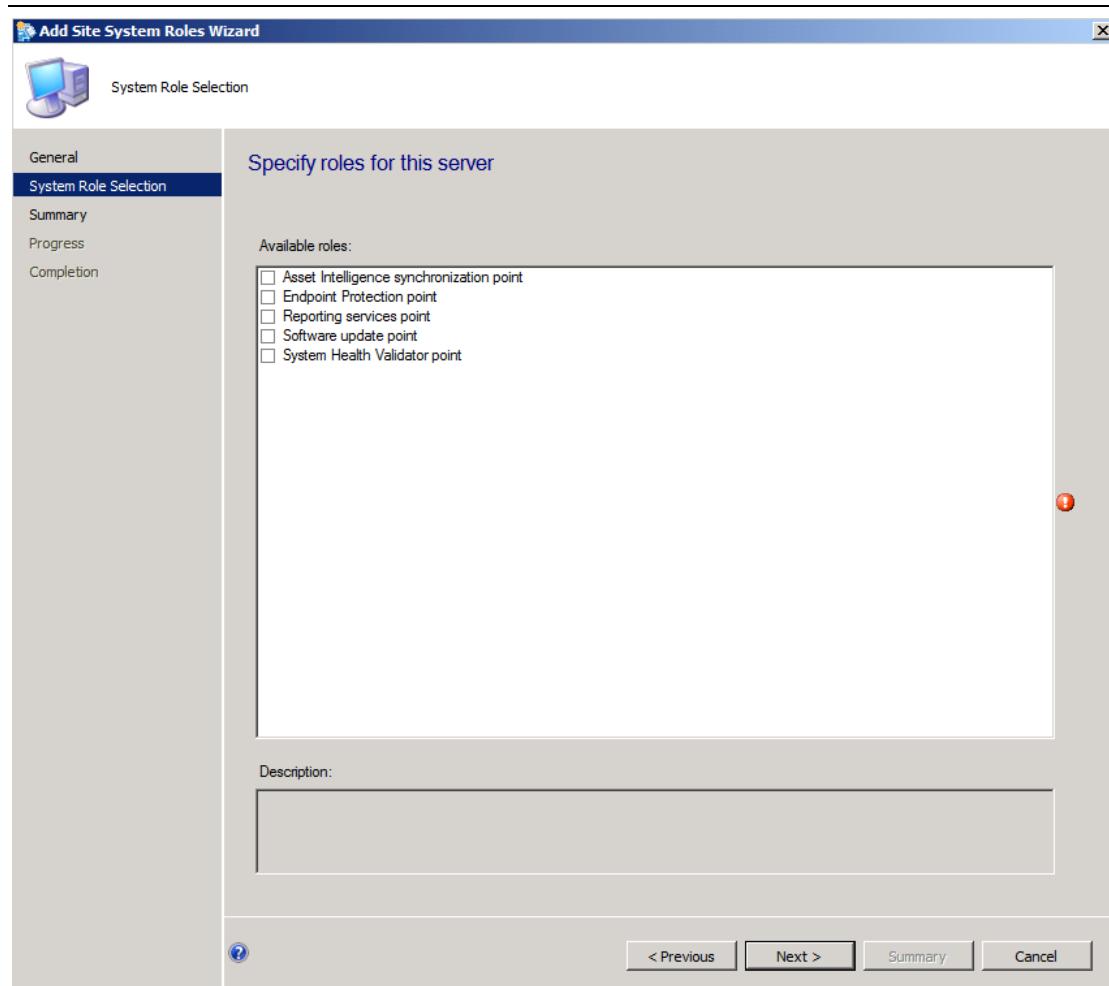
28) Click **Servers and Site System Roles** , you can see all site server system roles , the **Central** server default roles :

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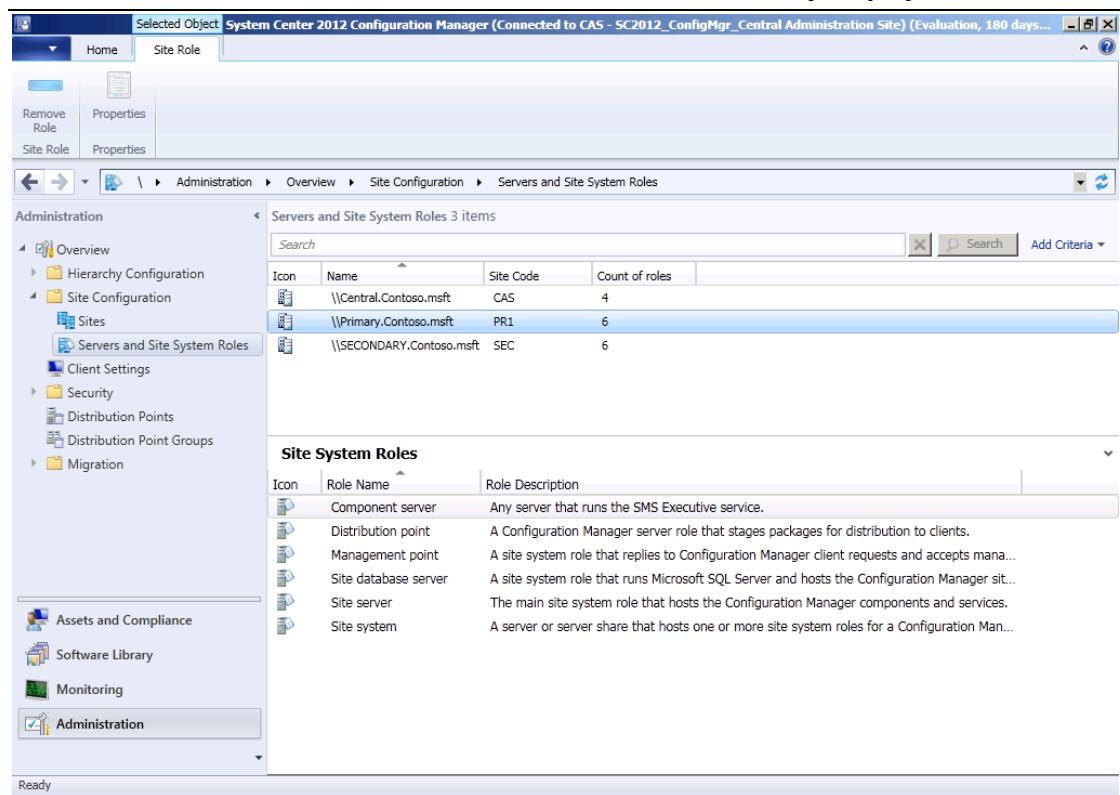
29) This dialog box displaying the central server available roles :

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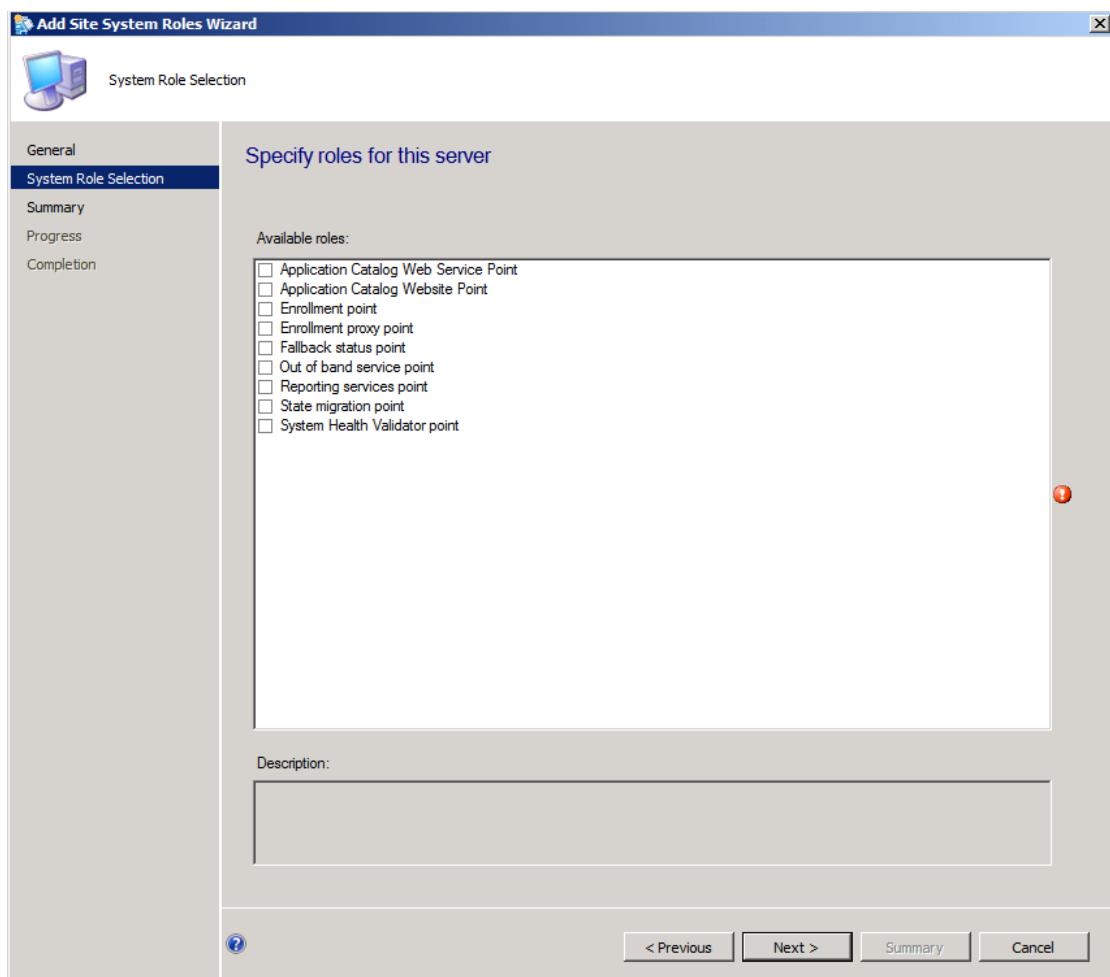
30) The **Primary** server default roles :

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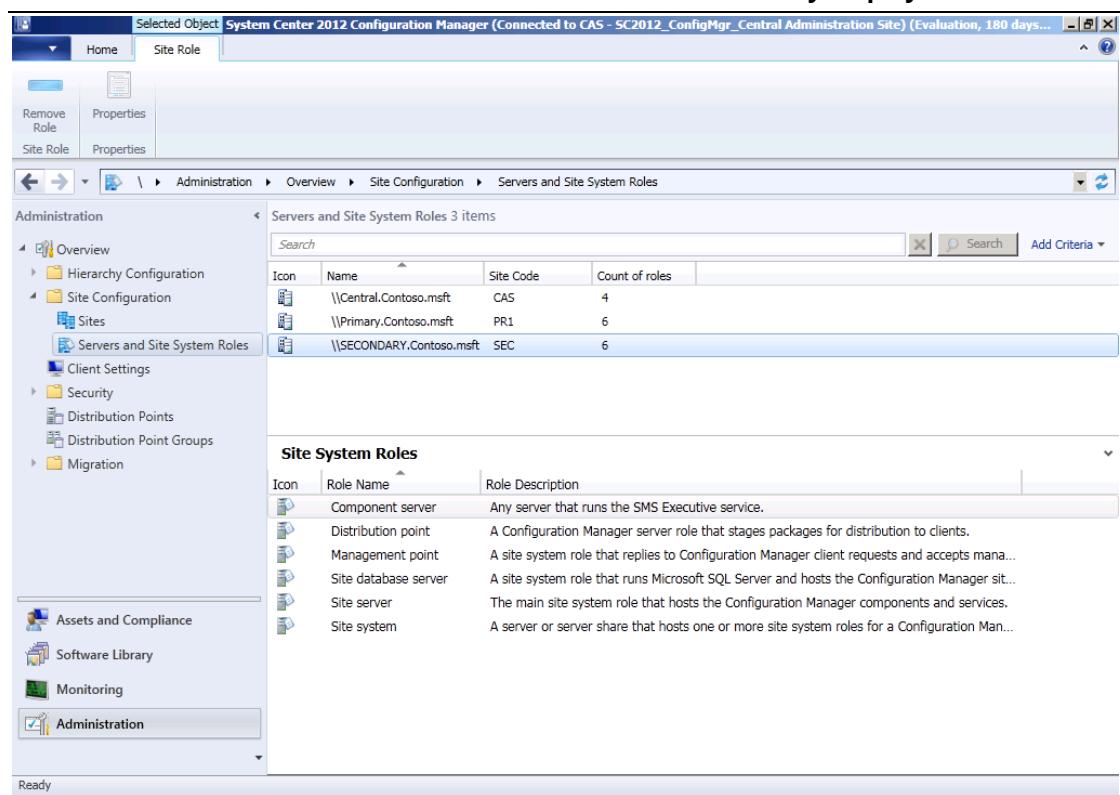
31) This dialog box displaying the primary server available roles :

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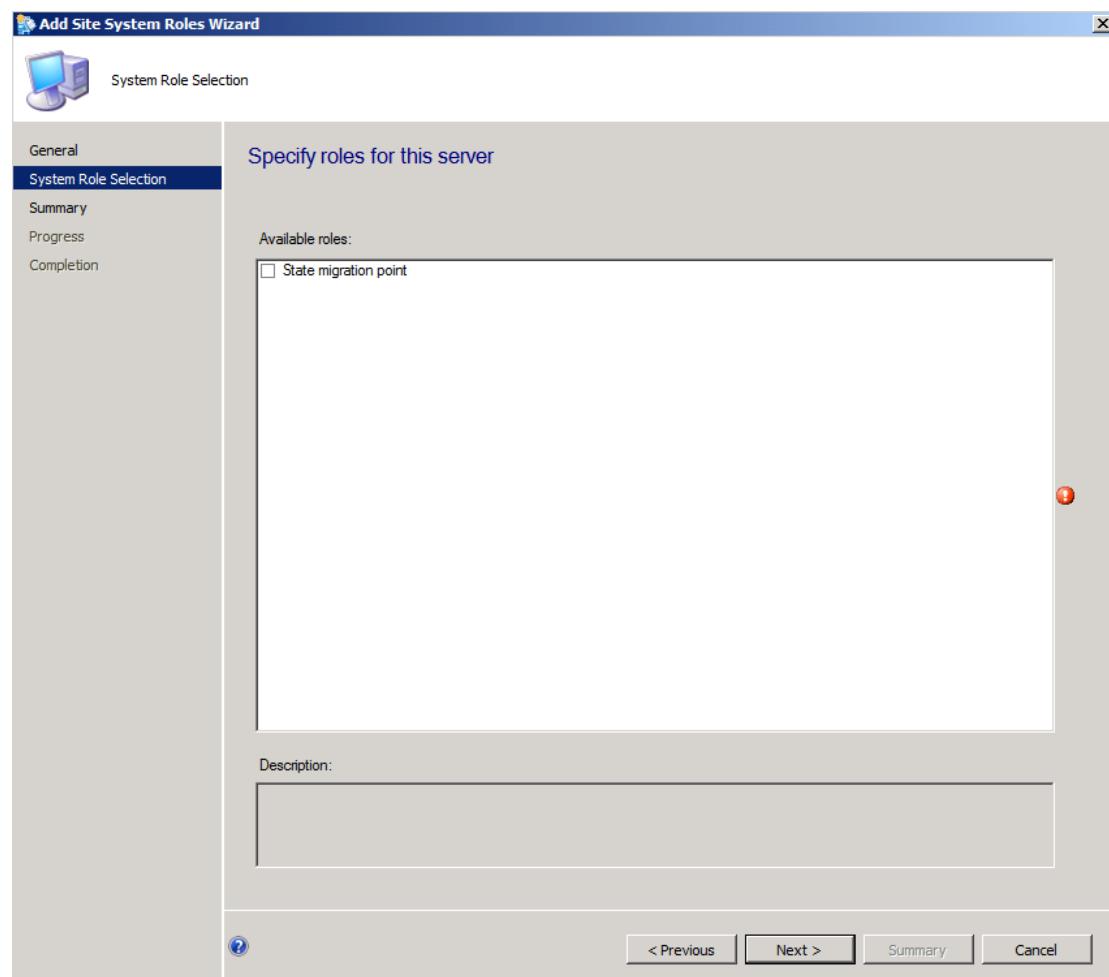
32) The **Secondary** server default roles :

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33) This dialog box displaying the secondary server available roles :

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34) In the **Monitoring** workspace , click **Database Replication** , you can see each with sites **Link State** is **Link Active** :

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The screenshot shows the System Center 2012 Configuration Manager console. The left navigation pane is expanded, showing 'Monitoring' and 'Database Replication' under 'Site Hierarchy'. The main content area displays 'Database Replication 2 items' in a table:

Icon	Parent Site	Child Site	Link State	Description
	CAS	PR1	Link Active	Link is active
	PR1	SEC	Link Active	Link is active

Below this, the 'Replication Status' section provides detailed information:

Site Replication Status		Global Data Replication Status	
Parent Site:	PR1	Parent Site to Child Site	Link Active
Parent Site State:	Replication Active	Global State:	
Child Site:	SEC	Parent Site to Child Site	
Child Site State:	Replication Active	Global Synchronization Time:	3/30/2012 9:34 AM
		Child Site to Parent Site	
		Global State:	Link Active
		Last Synchronization Time:	3/30/2012 9:33 AM
		Global Data Initialization Percentage:	

At the bottom, there are tabs for 'Summary', 'Parent Site', and 'Child Site', with 'Ready' selected.

35) Logon to DC server , in ADUC snap-in console , you can see all site code

and mp had created in **System Management** container :

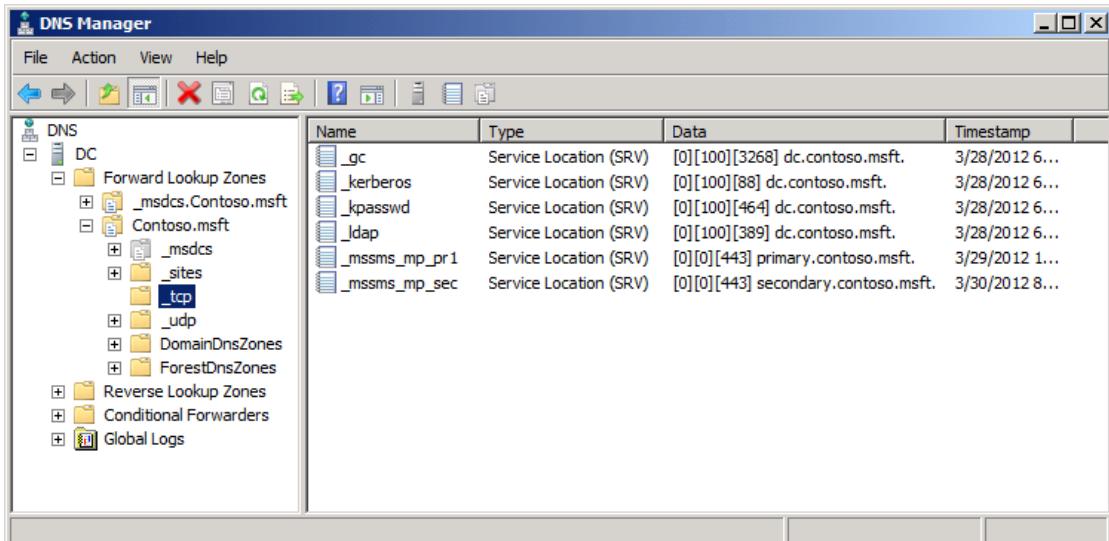
The screenshot shows the Active Directory Users and Computers (ADUC) snap-in. The left navigation pane shows the tree structure of the 'Contoso.msft' domain, including 'Saved Queries', 'Builtin', 'Computers', 'ConfigMgr Users', 'Domain Controllers', 'ForeignSecurityPrincipals', 'LostAndFound', 'Managed Service Accounts', 'Program Data', 'System', and 'System Management'. The 'System Management' container is expanded, showing two management points: 'SMS-MP-PR1-PRIMARY.CONTOSO.MSFT' and 'SMS-MP-SEC-SECONDARY.CONTOSO.MSFT'. The right pane displays a table of objects in the 'System Management' container:

Name	Type	Description
SMS-MP-PR1-PRIMARY.CONTOSO.MSFT	mSSMSManagementPoint	
SMS-MP-SEC-SECONDARY.CONTOSO.MSFT	mSSMSManagementPoint	
SMS-Site-CAS	mSSMSite	
SMS-Site-PR1	mSSMSite	
SMS-Site-SEC	mSSMSite	

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36) Open the **DNS Manager** snap-in console , in **\_tcp** container , you can see

**Primary** server and **Secondary** server MP SRV record :



37) You have now successfully deployed a System Center 2012 Configuration Manager RTM hierarchy consisting of a central administration site , a primary site , and a secondary site .