

# Microsoft System Center 2012 Configuration Manager RTM Advanced Security Deployment Document

Mar.13 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. DB :

Role : Domain Member and SC2012 ConfigMgr RTM 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. ConfigMgr2012 :

Role : SC2012 ConfigMgr RTM

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. Console :

Role : Domain Member and SC2012 ConfigMgr RTM Remote Console

OS : Windows 7 Enterprise Edition with SP1 x64

IE : IE 9.0

IP : 192.168.0.103/24

DNS : 192.168.0.100

## 2. System Requirements :

About System Center 2012 Configuration Manager RTM system requirements ,  
you can access this link to reference :

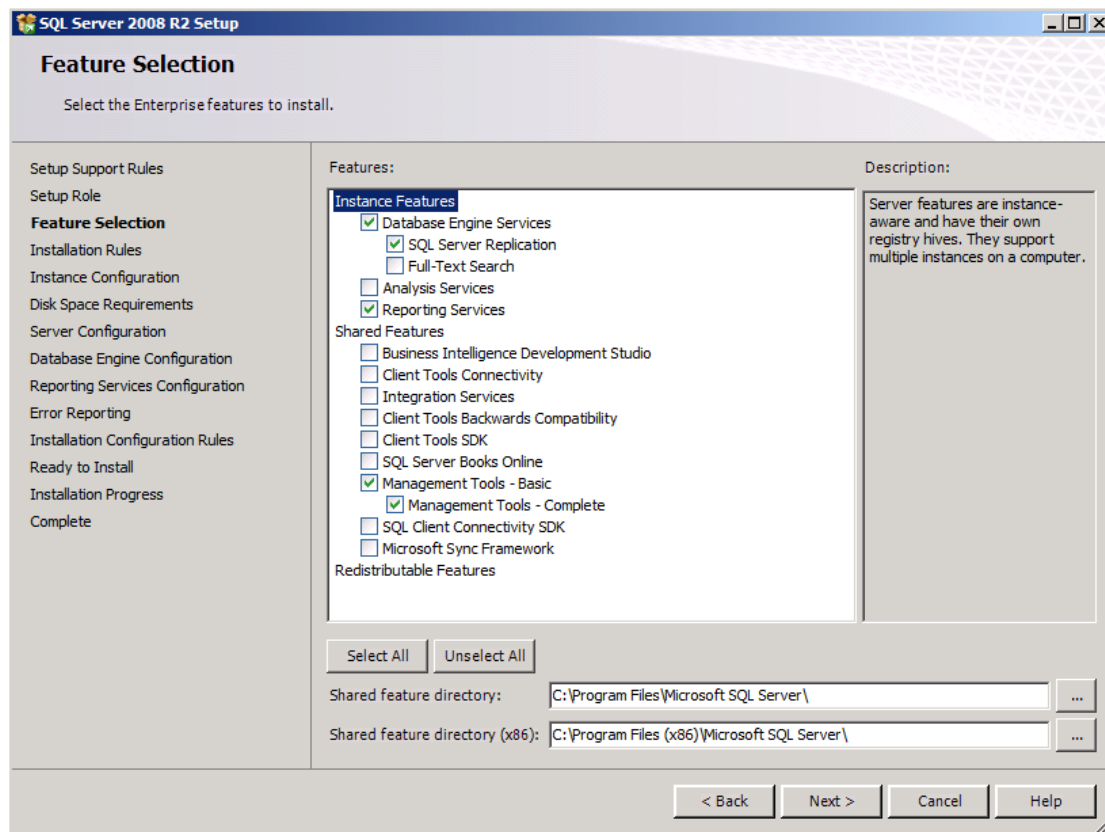
<http://technet.microsoft.com/en-us/library/gg682077.aspx>

### 3. Deploy Active Directory :

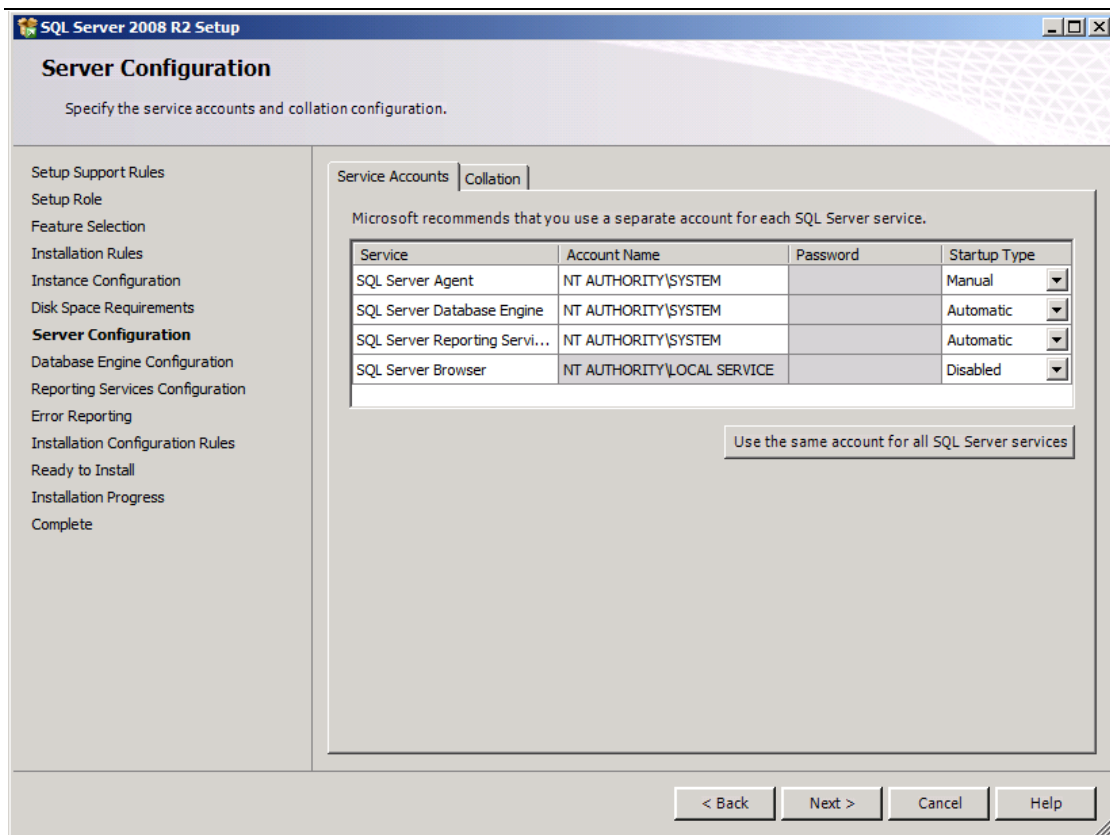
- 1) Logon to **DC** server , installing **ADDS** and **ADCS** . Domain name is **Contoso.msft** . Active Directory forest functional level is **Windows Server 2008 R2**.  
  
This process is no longer described in this part.

## 4. Deploy SC2012 ConfigMgr RTM Database :

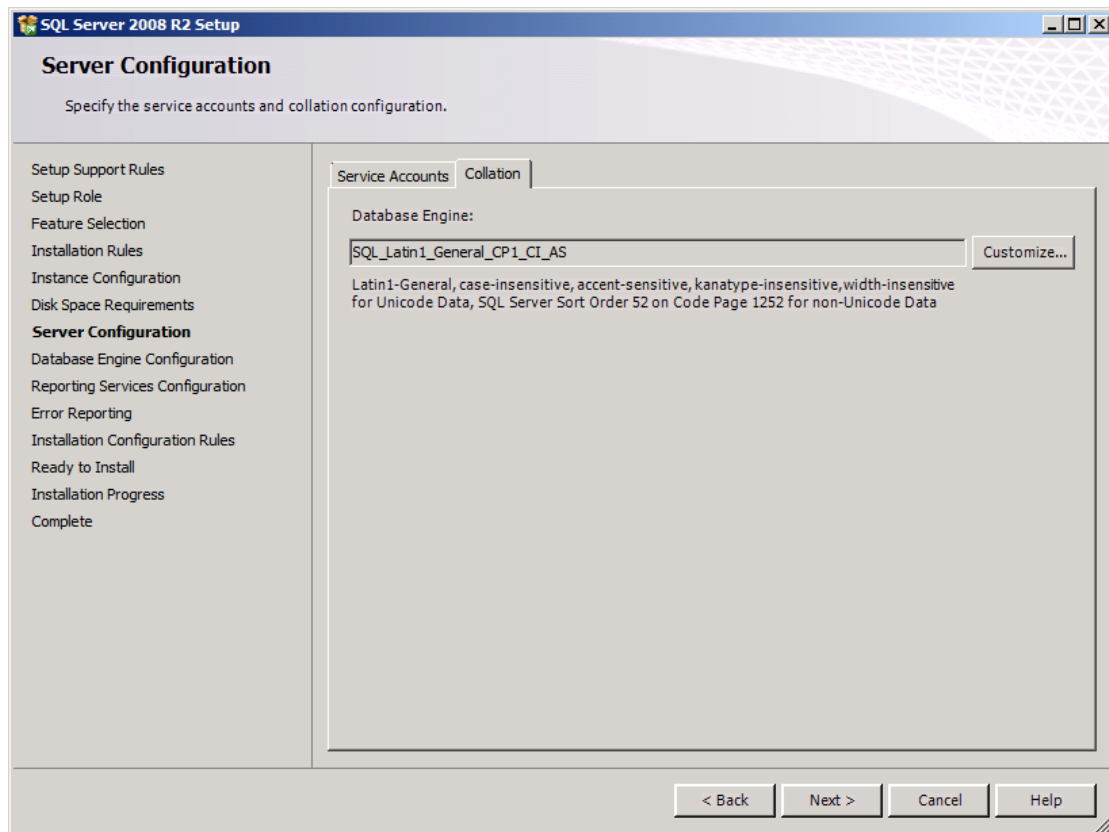
1) Logon to **DB** server , installing SQL Server 2008 R2 enterprise edition with SP1. Because SC2012 ConfigMgr RTM site system need to replication data through **SQL Server Replication** , so in **Feature Selection** step when you install SQL Server phase , you need to select **SQL Server Replication, Reporting Services** and **Management Tools – Basic** :



2) In **Server Configuration** step , You must configure all SQL Server services(engine , agent , etc.) to run under the **LOCAL SYSTEM** account . If you use another account (e.g. **NETWORK SERVICE** or a domain user account) , database replication will fail with certificate issues :

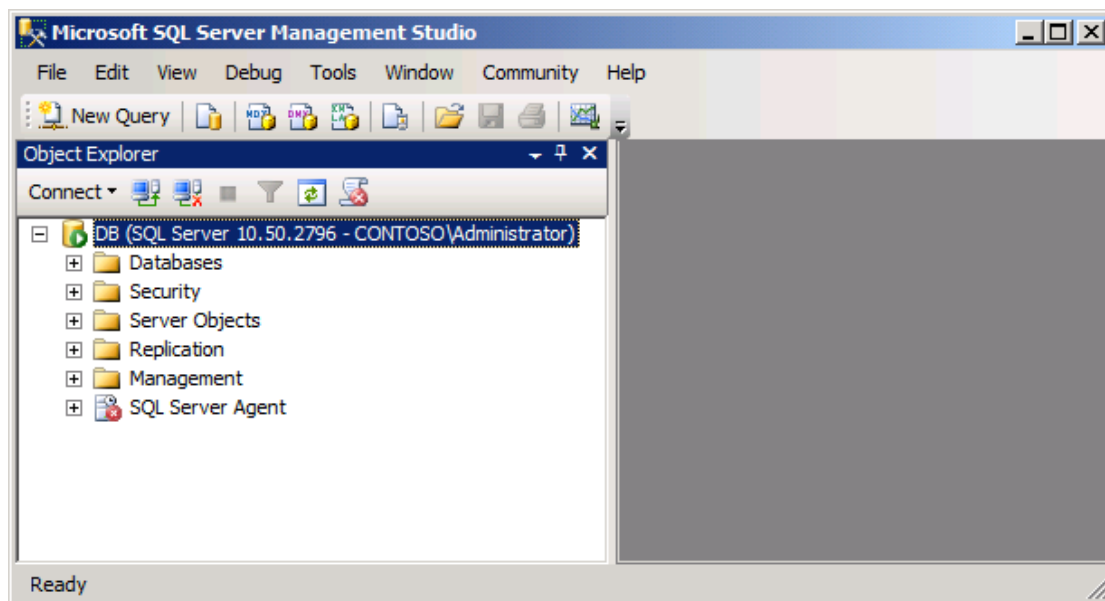


3) In **Collation** step , You must use a case-insensitive collation(e.g. **SQL\_Latin1\_General\_CP1\_CI\_AS**) and it must be consistent throughout your hierarchy :



4) Other steps you can based on your requirements to setting, and finished to install . After setup , don' t forget installing **SQL Server 2008 R2 SP1** and **Cumulative update package 4 for SQL Server 2008 R2 Service Pack 1** .

5) Updated Version is **10.50.2796** :



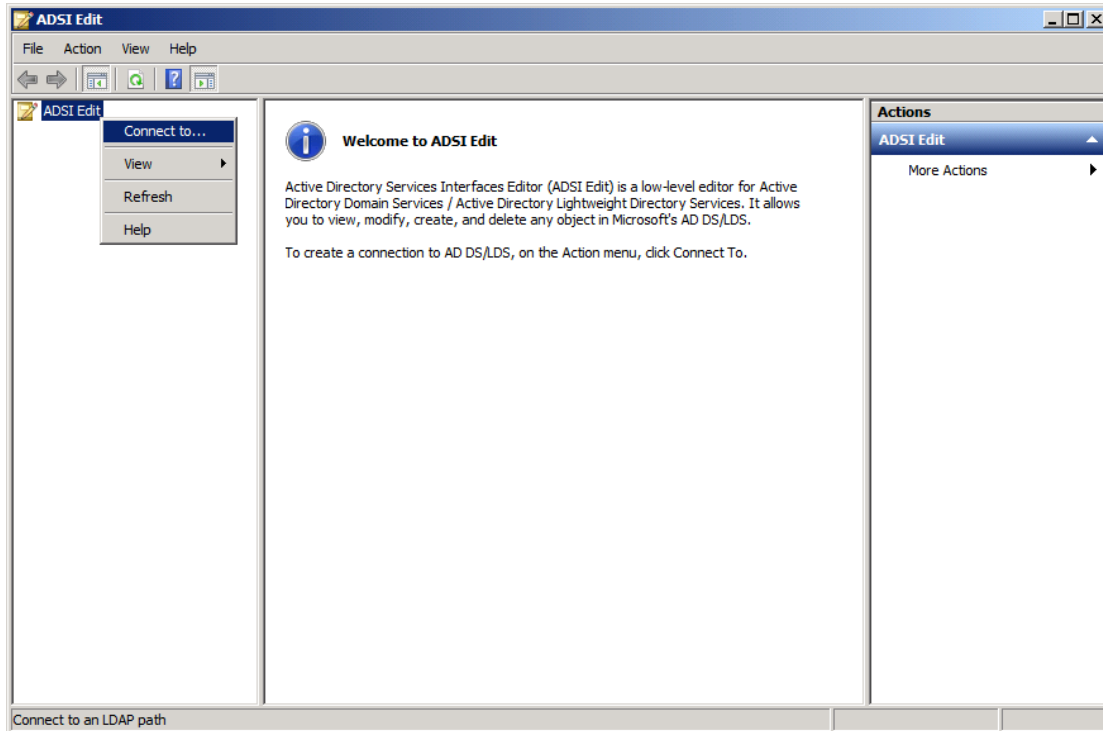
**Cumulative update package 4 for SQL Server 2008 R2 Service Pack 1 download**

link : <http://support.microsoft.com/kb/2633146/en-us>

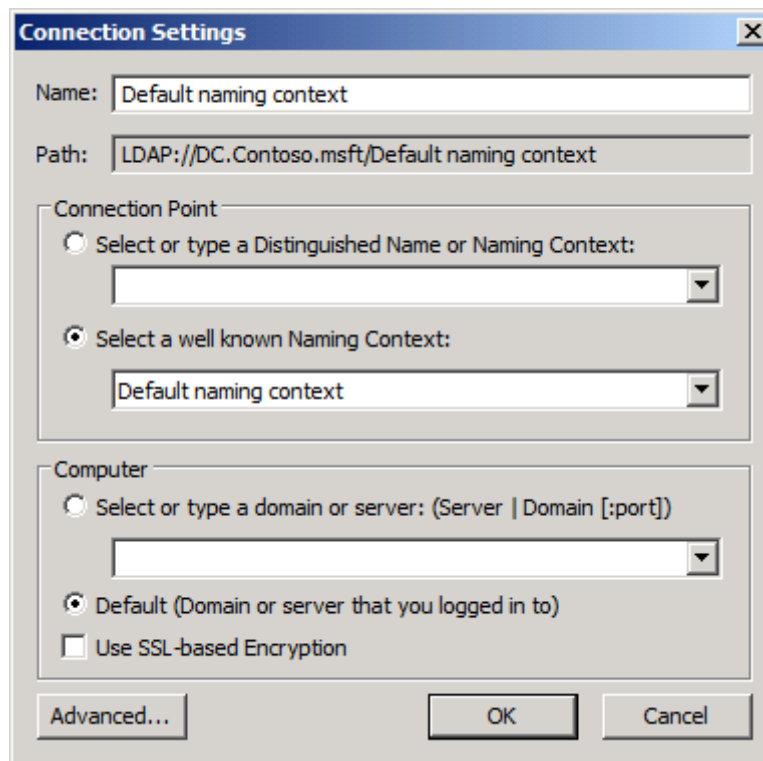
## 5. Configure Active Directory Permissions :

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

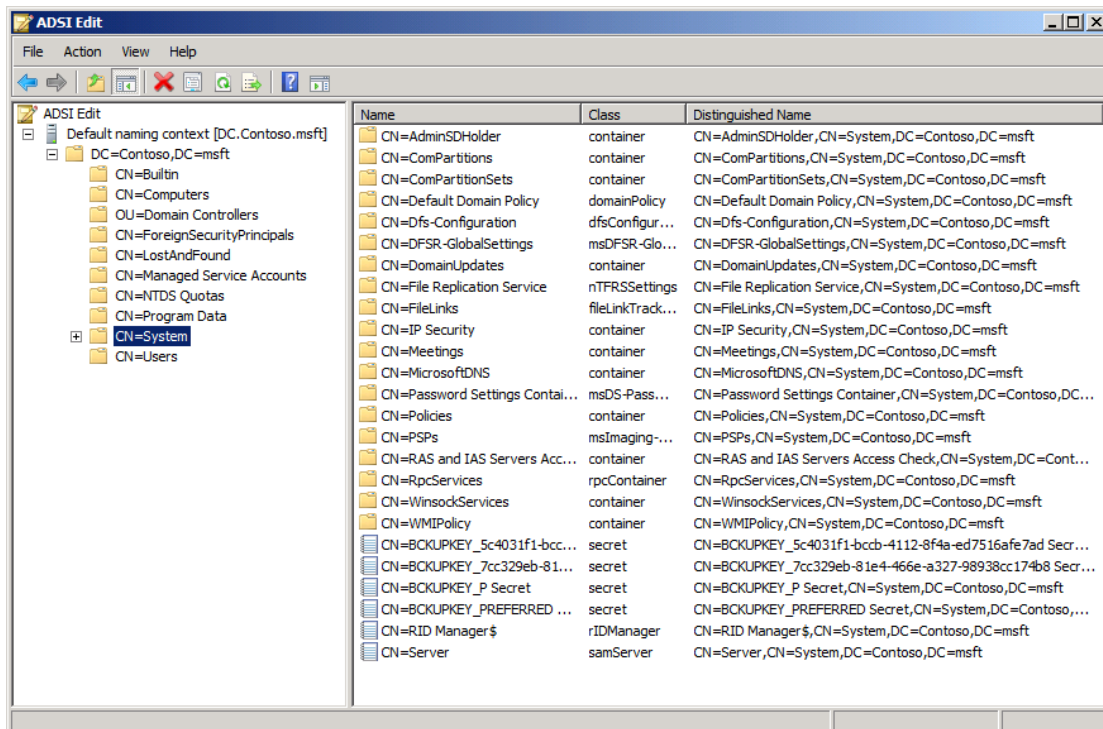
**ADSI Edit** and click **Connect to ...** :



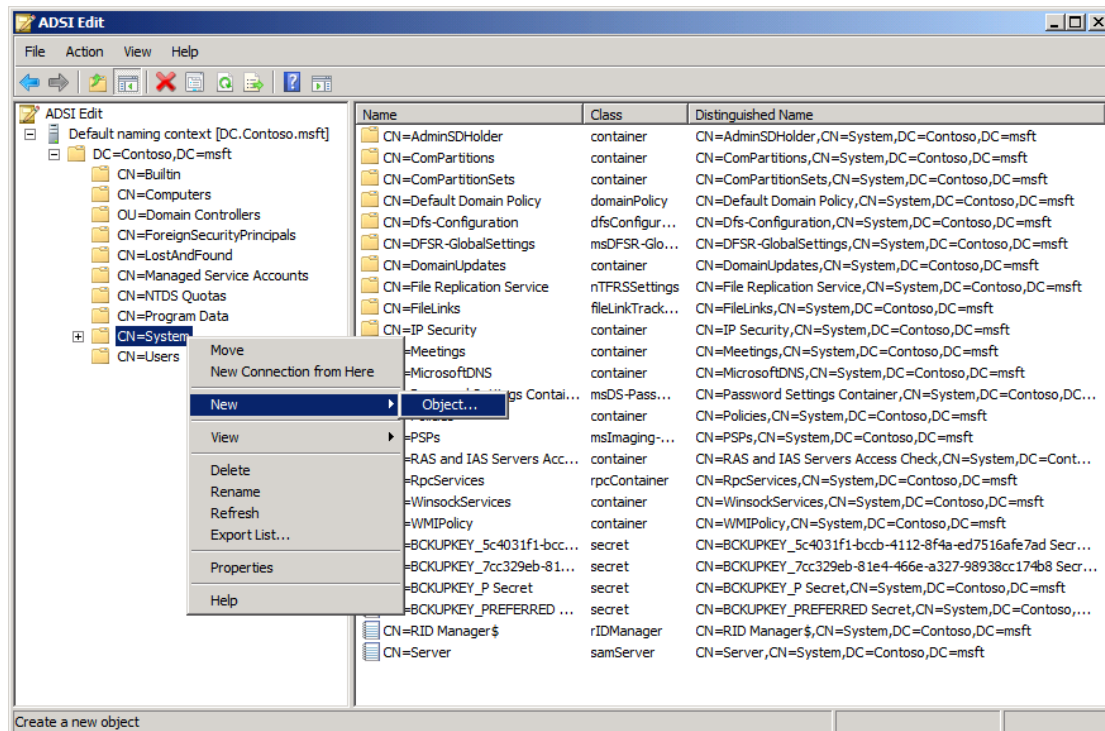
- 2) Display **Connection Settings** :



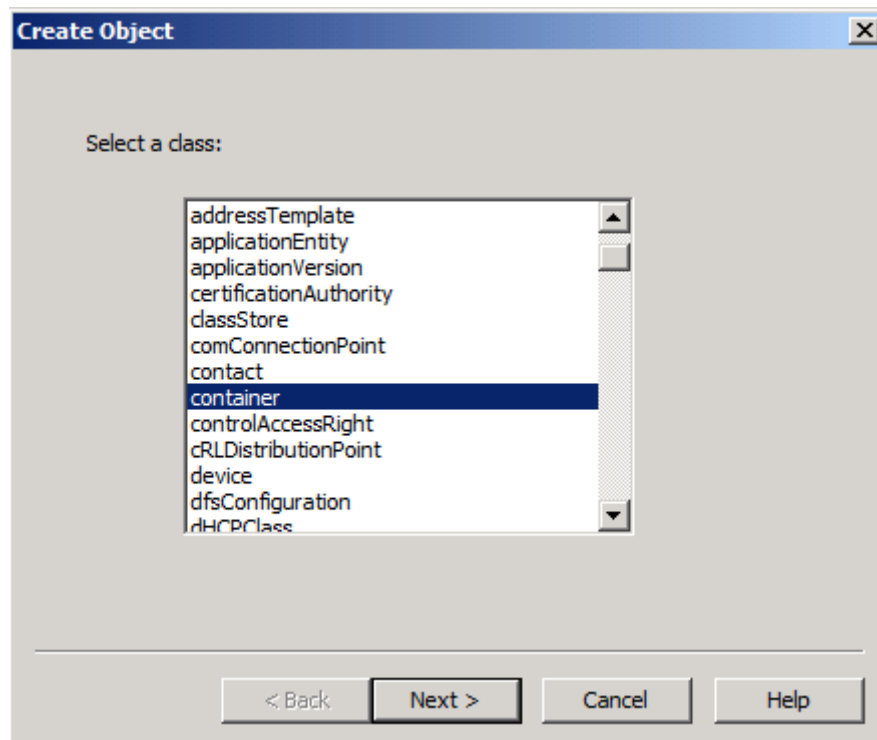
3) Click **OK** , Expand **Domain** <computer fully qualified domain name>,  
expand <distinguished name>, click **CN=System** :



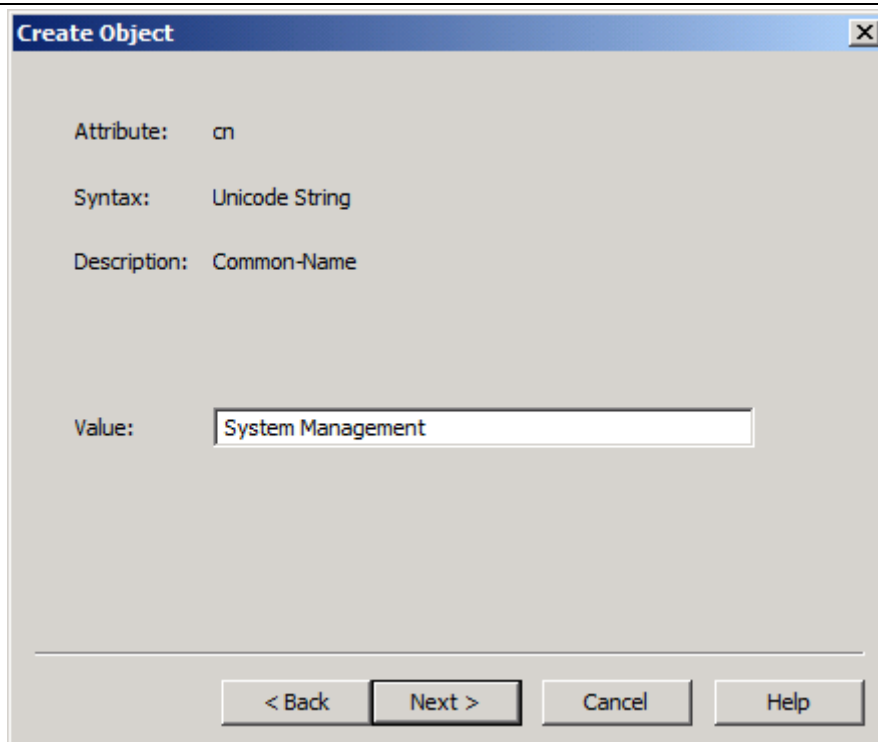
- 4) Right-click **CN=System**, click **New**, and then click **Object...** :



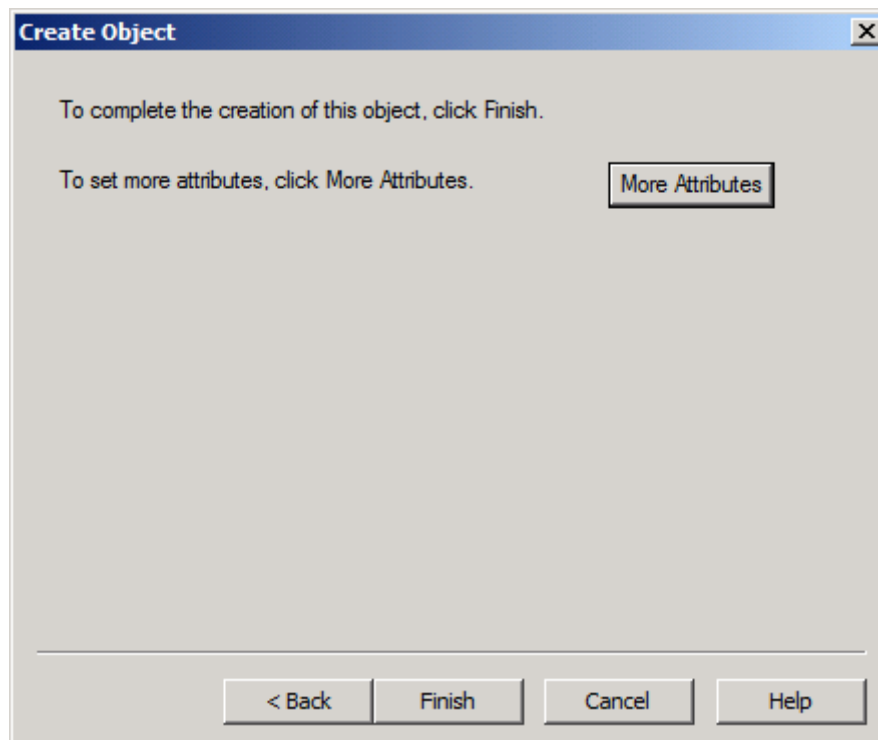
- 5) In the **Create Object** dialog box, select **container** :



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

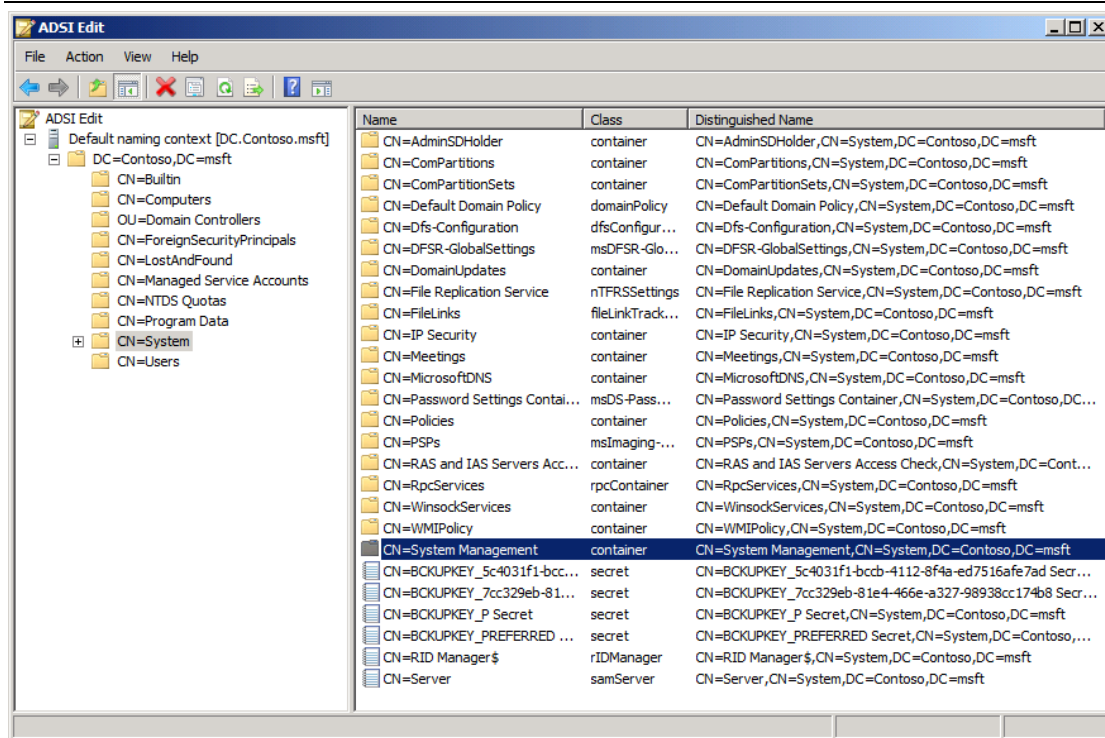


- 7) Click **Next** , display finish phase :



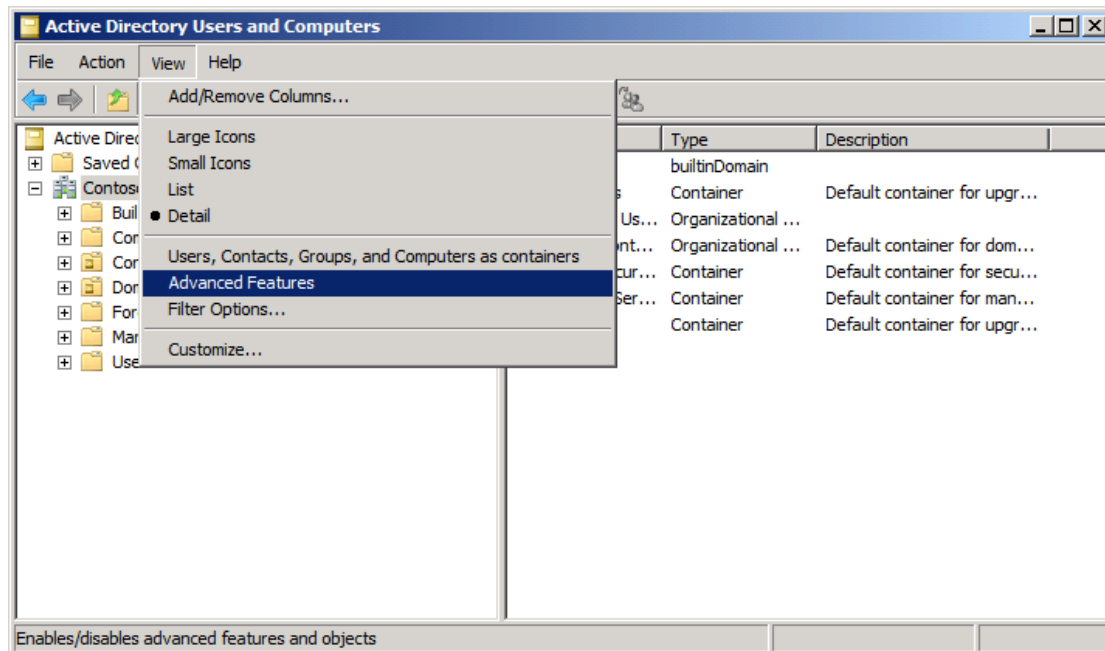
- 8) Click **Finish** , you can see created new container :

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**Configuration Manager RTM**  
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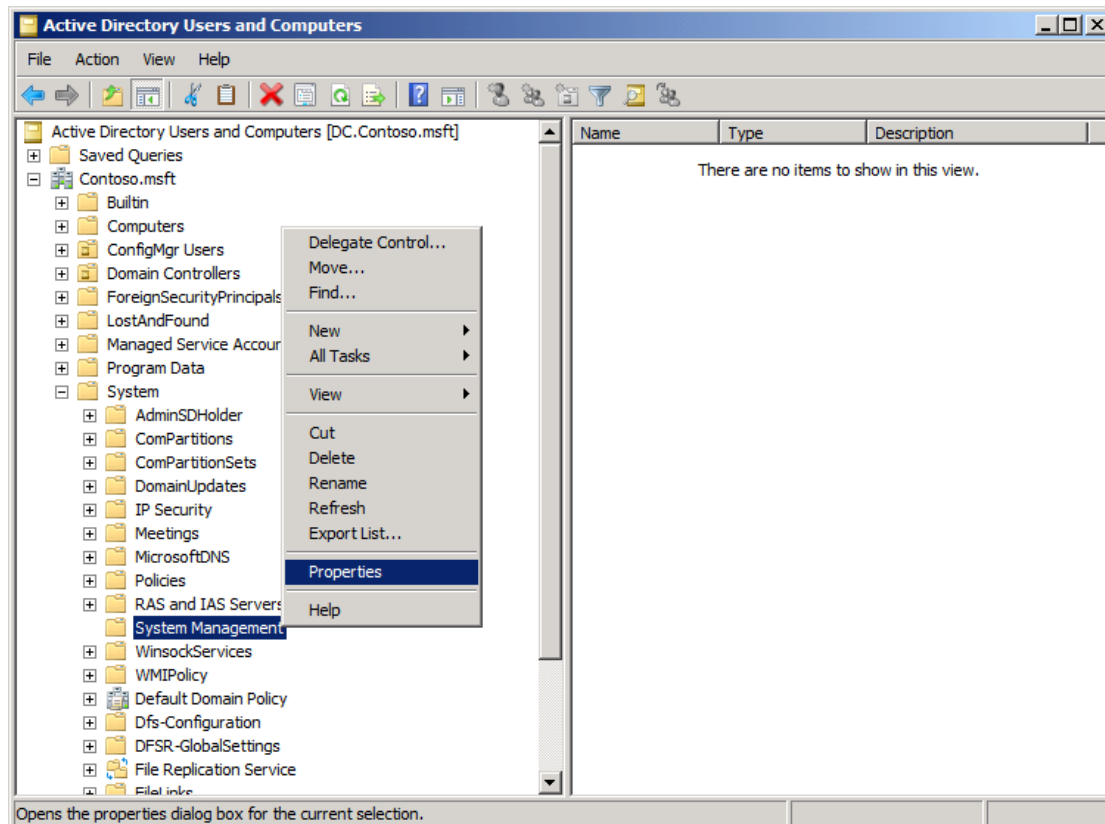
9) Close **ADSI Edit** mmc snap-in console .

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

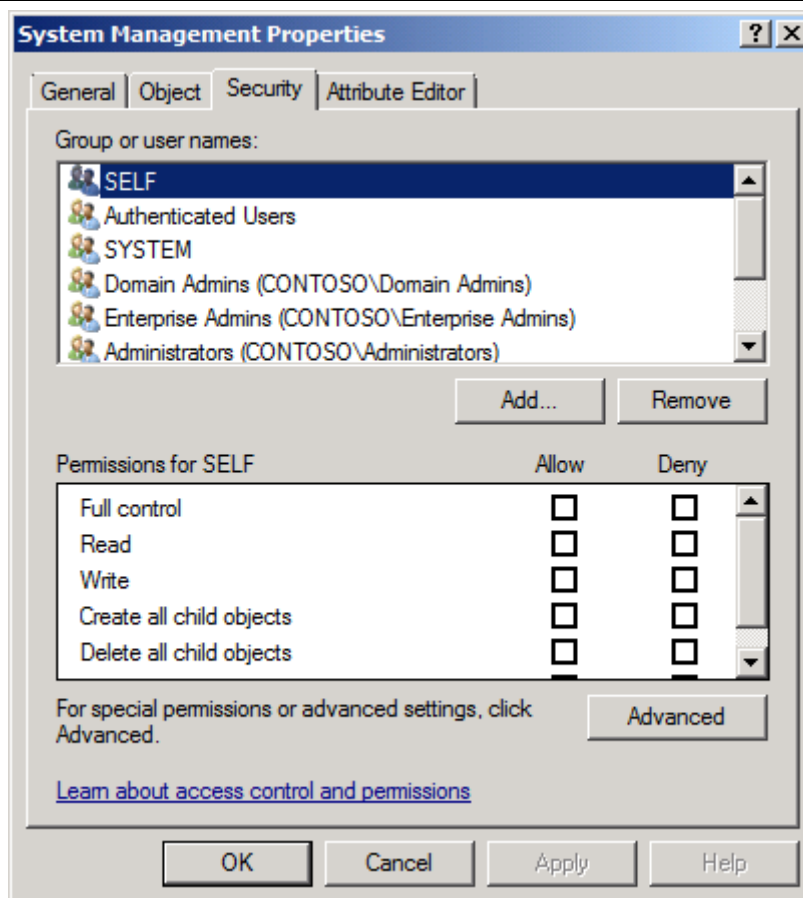


11) Expand the **System** container, right-click **System Management**, and then

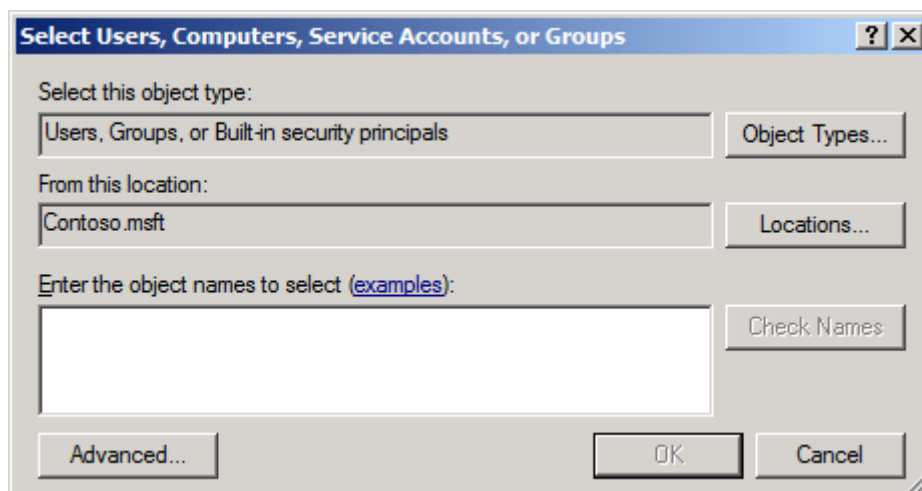
click **Properties**:



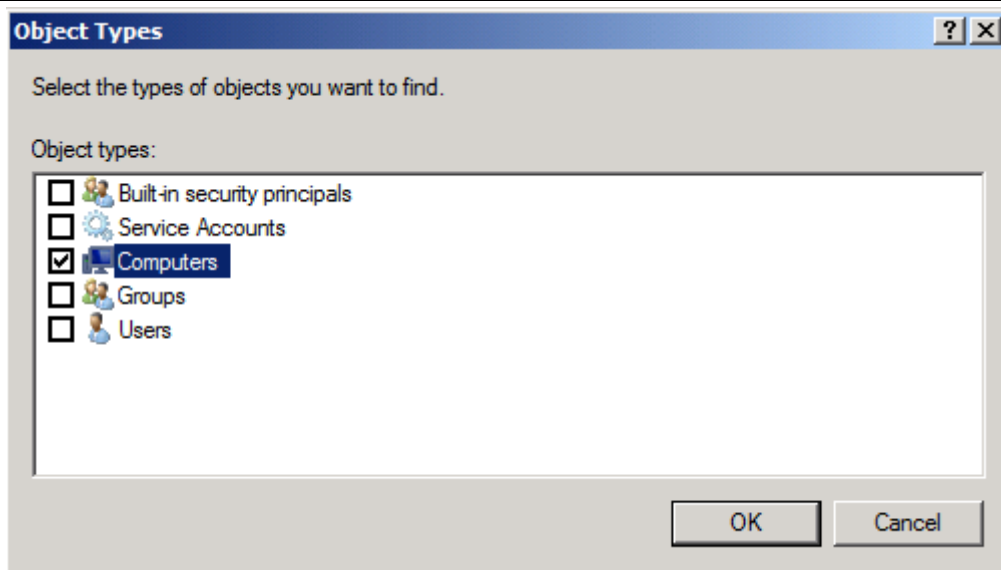
12) **System Properties** is display , click **Security** page :



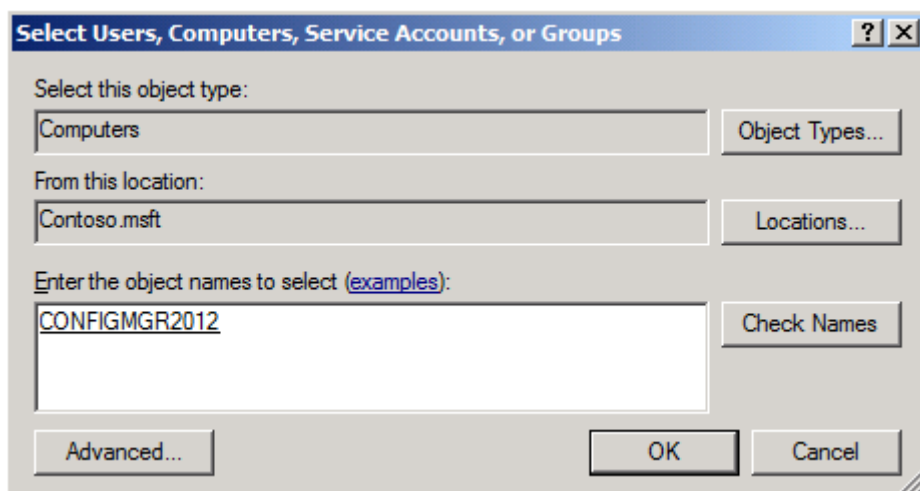
- 13) Click **Add...** , Display **Select Users , Computers ,Service Accounts , or Groups** box :



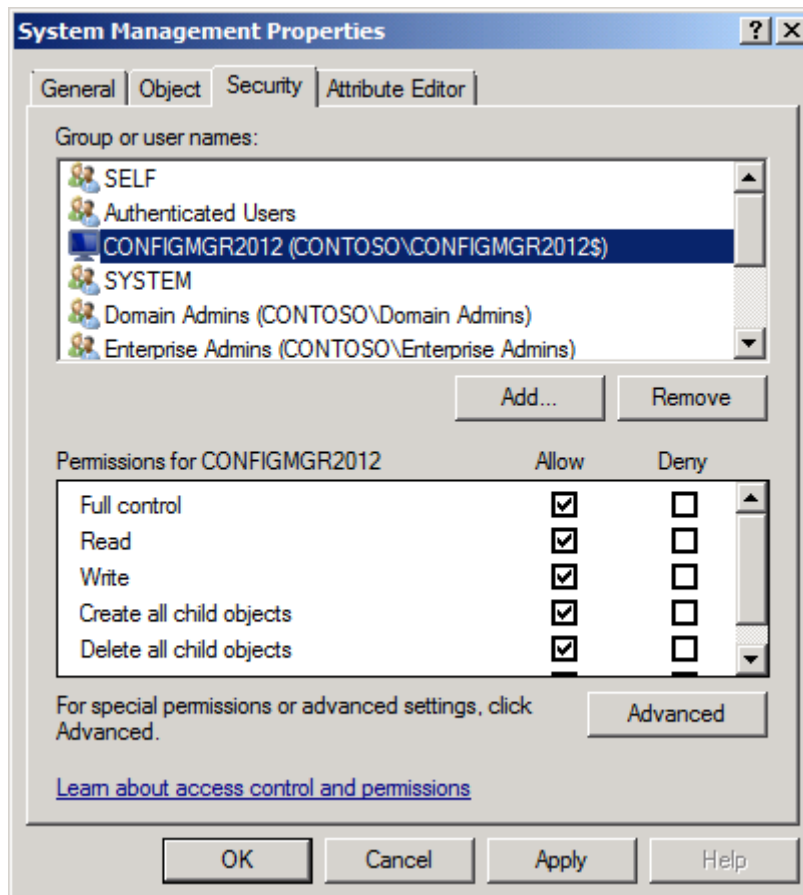
- 14) Click **Object Types...**item , just choose **Computers** in **Object Types** box :



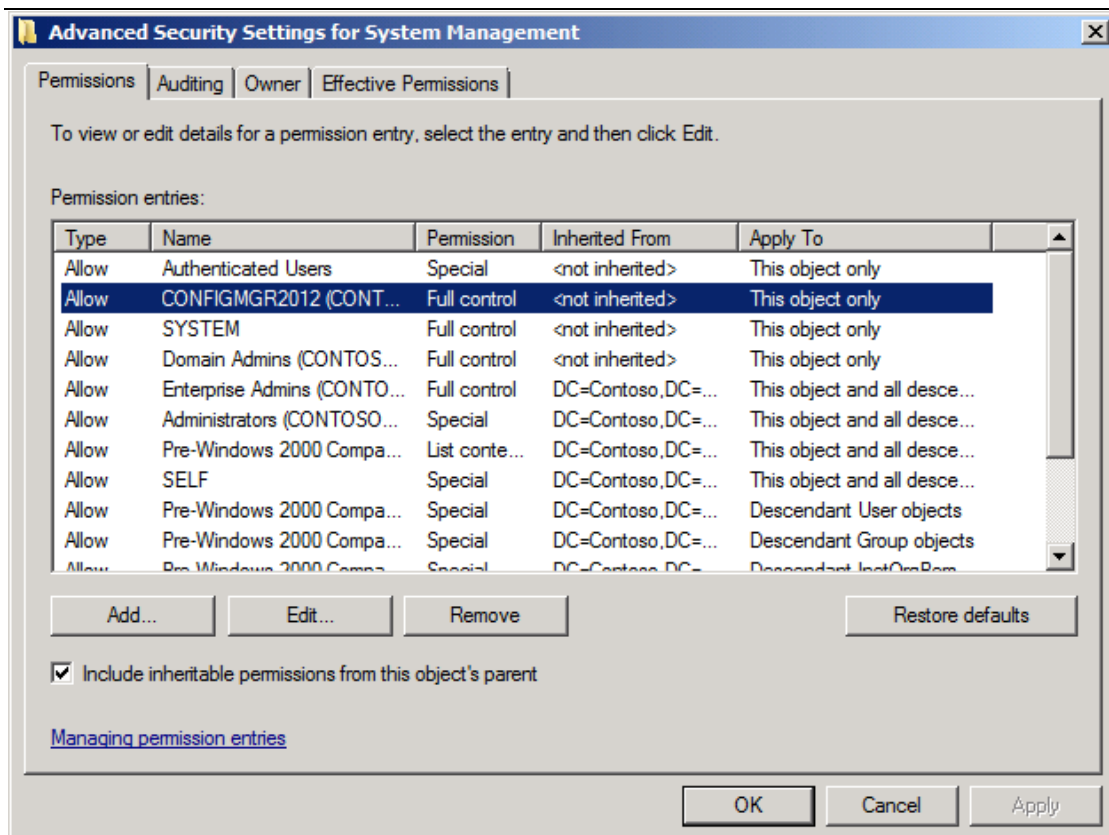
15) Click **OK** and fill SC2012 ConfigMgr site server **NetBIOS** name :



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 :

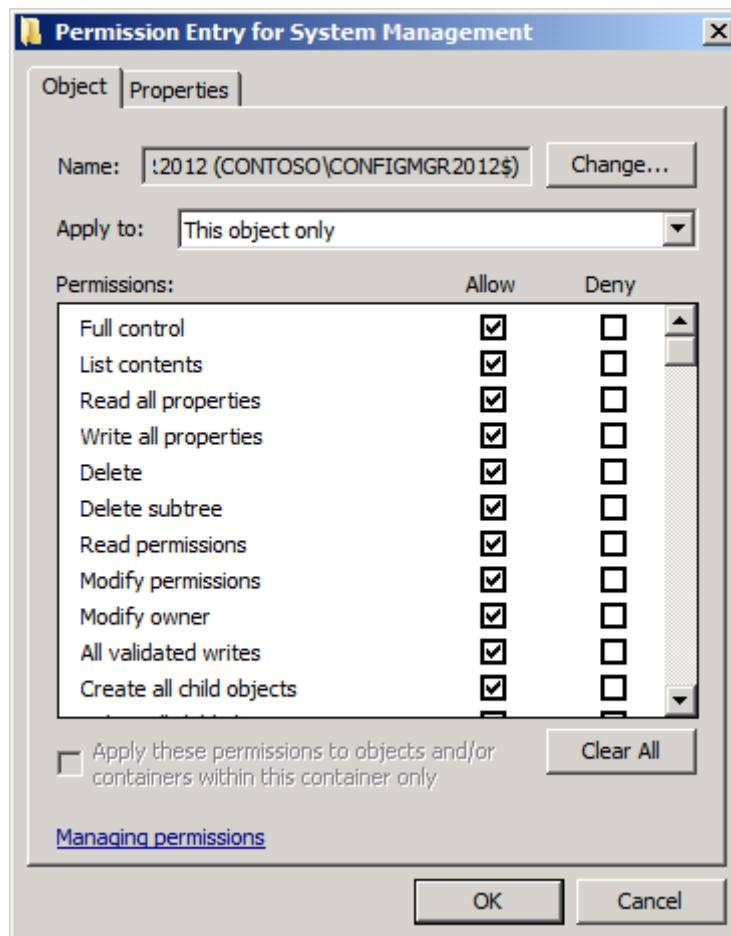


17) Click **Advanced** will display **Advanced Security Settings for System** box :

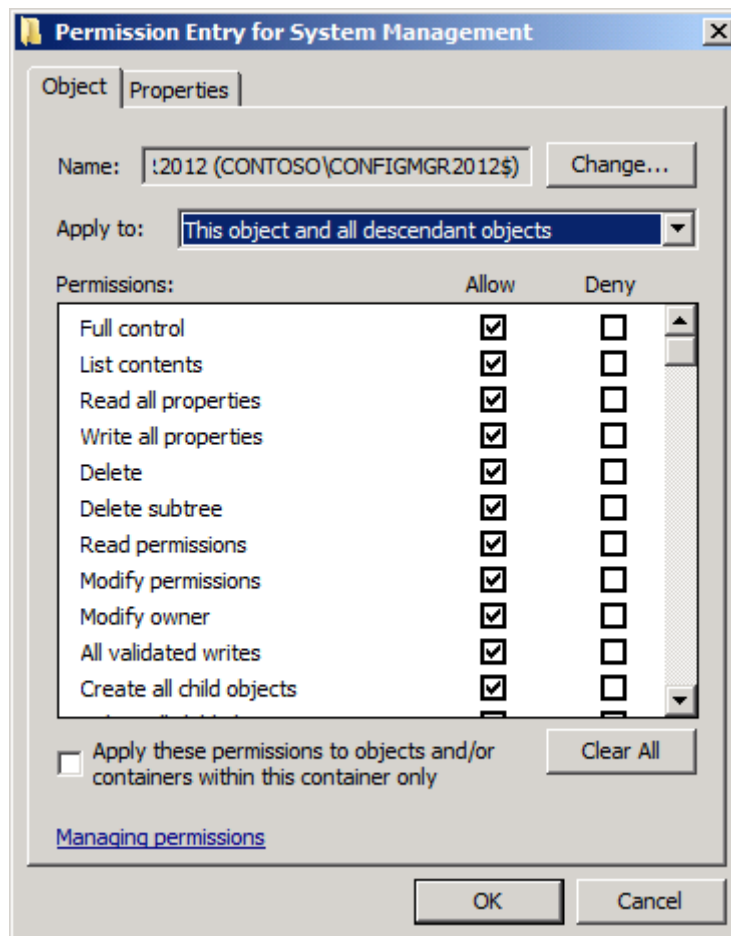


18) Double-click SC2012 ConfigMgr site server name , will display **Permission**

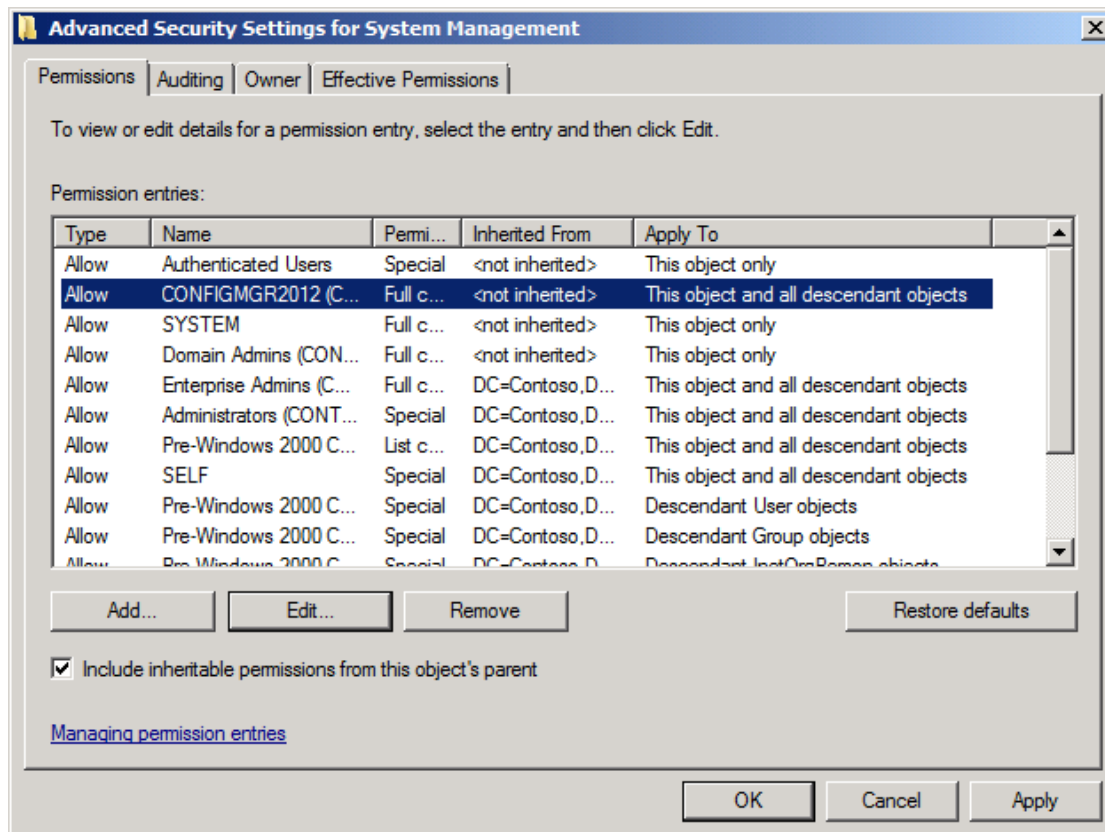
**Entry for System :**



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



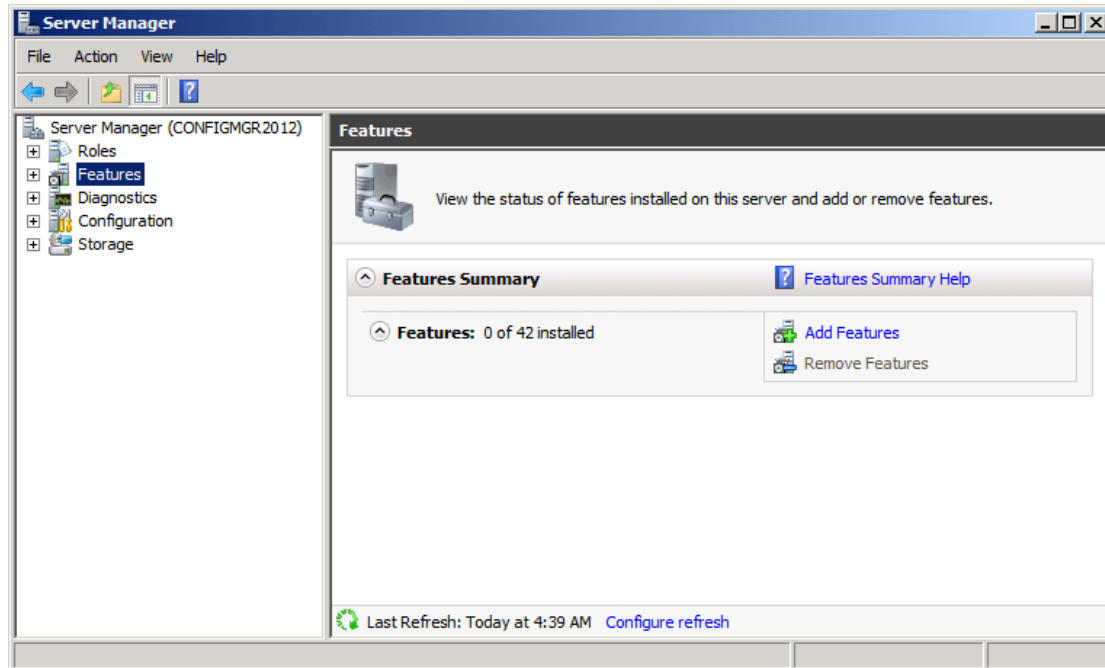
20) Click **OK** and back to **Advanced Security Settings for System** box :



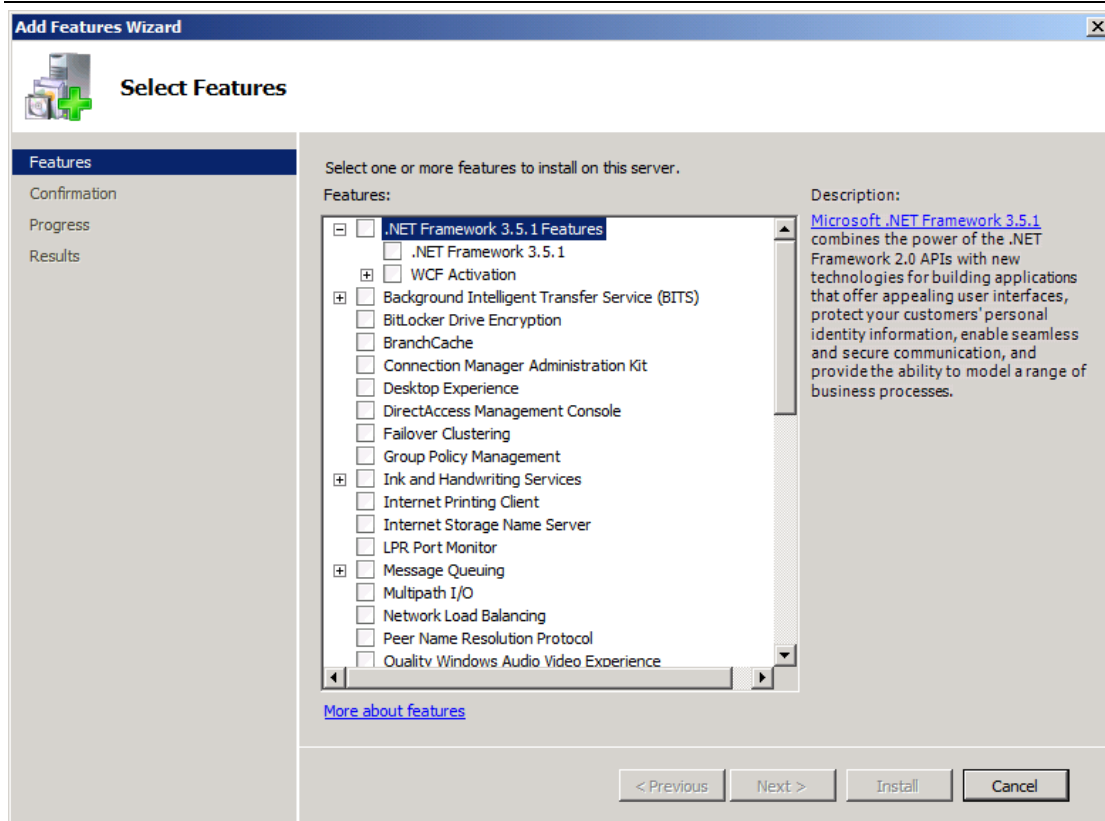
21) Two consecutive hits **OK** will finish setting AD permission , close ADUC mmc snap-in console.

## 6. Installing SC2012 ConfigMgr RTM requirement Windows components :

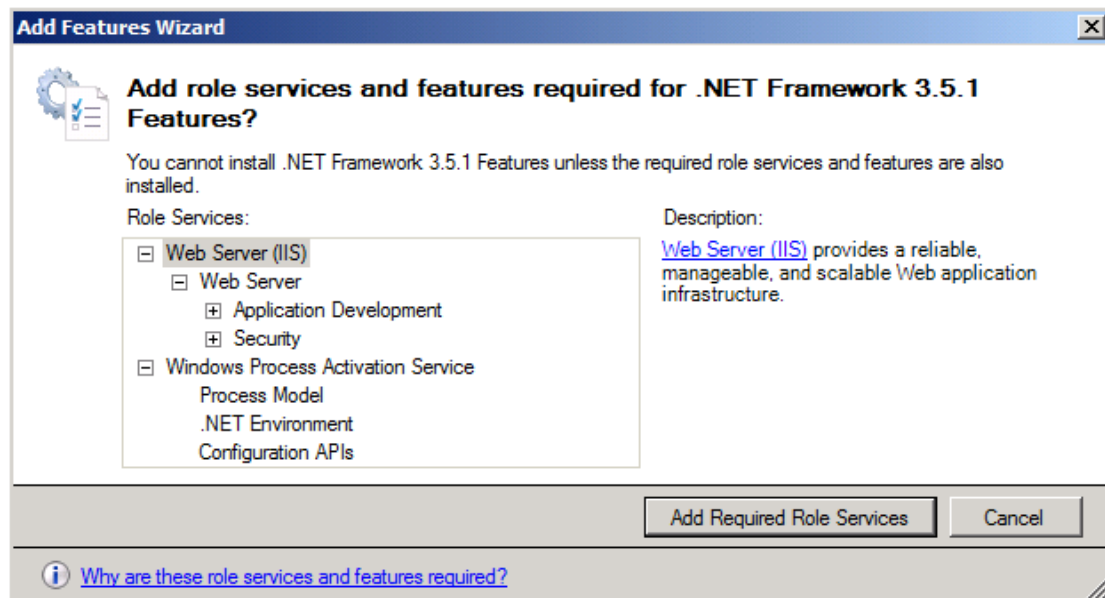
- 1) Logon to **ConfigMgr2012** Server , Open **Server Manager** , Click **Features** :



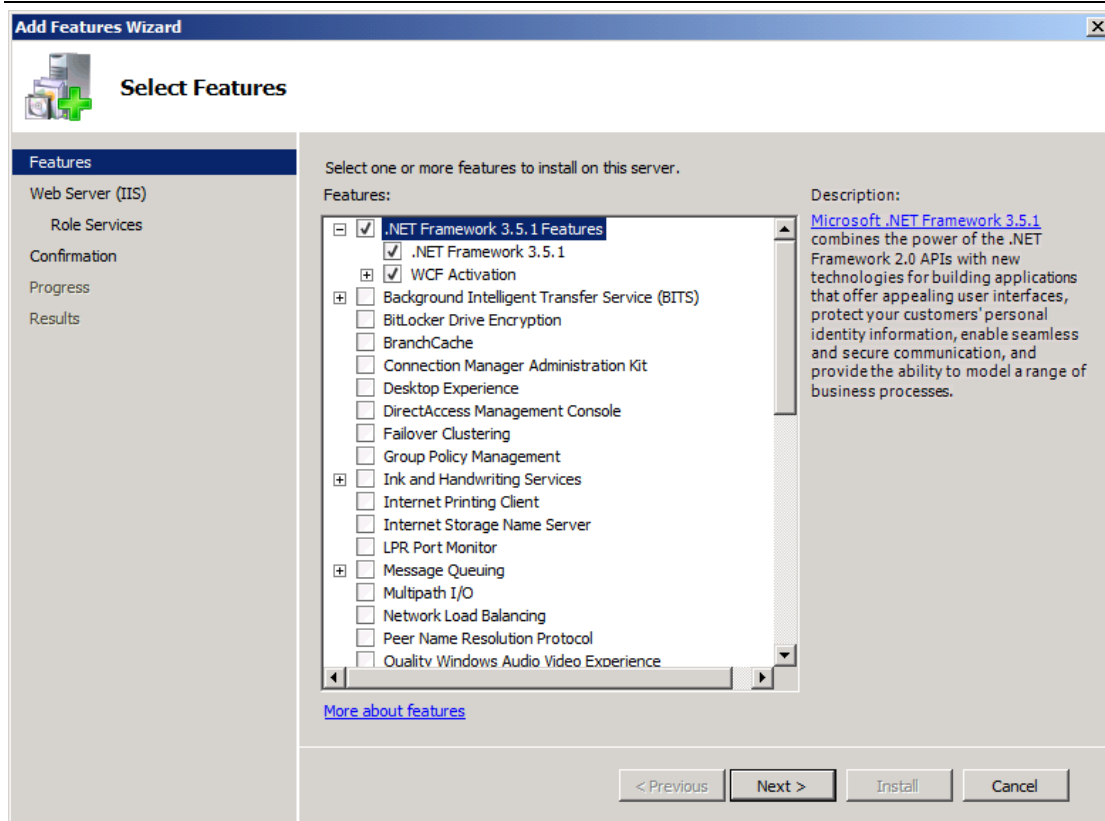
- 2) Click **Add Features** , display **Select Features** page :



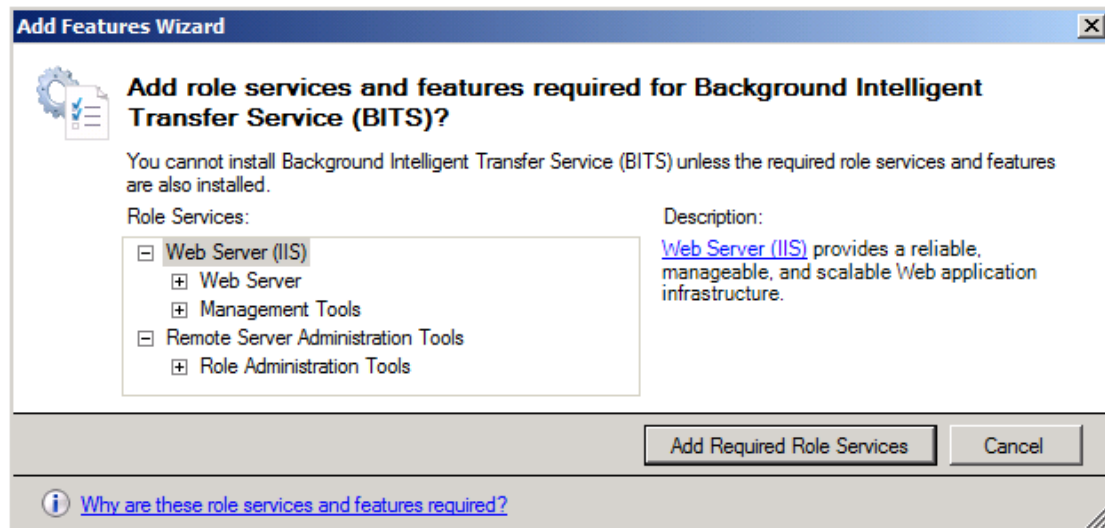
3) Choose **.Net Framework 3.5.1** and **WCF Activation** , will display related components needed prompt box :



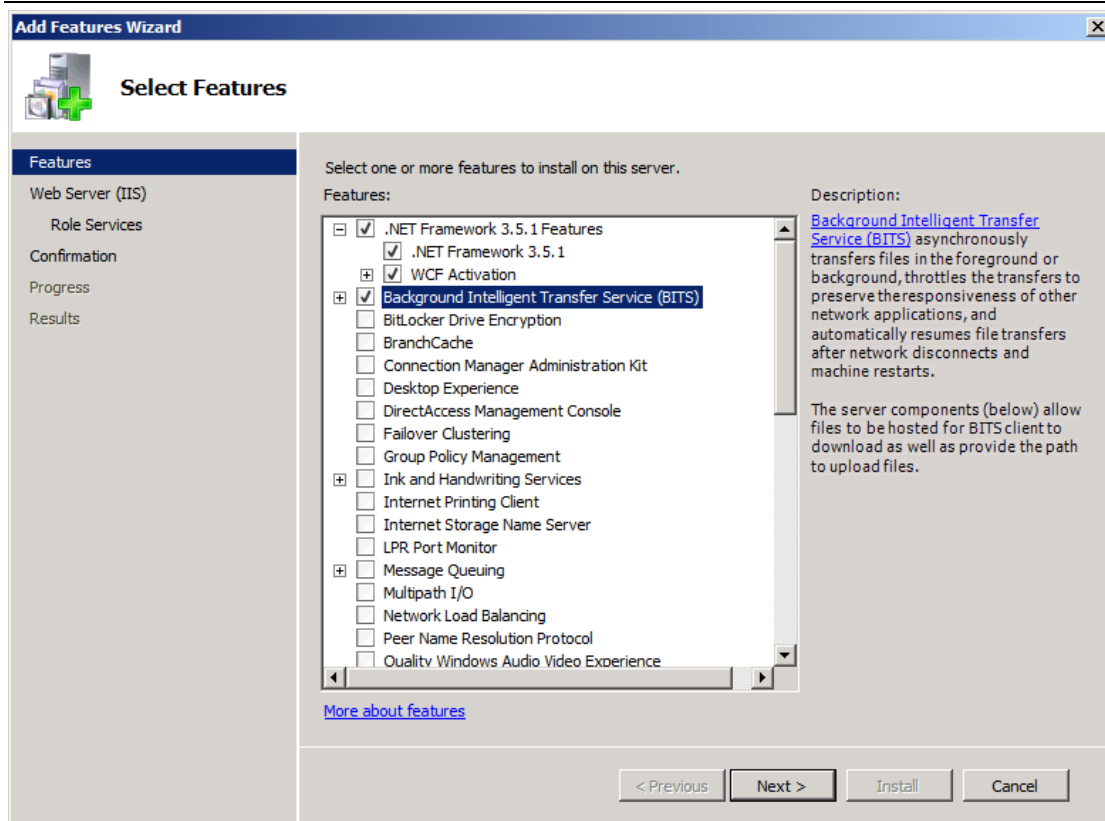
4) Click **Add Required Role Services** and return to **Select Features** :



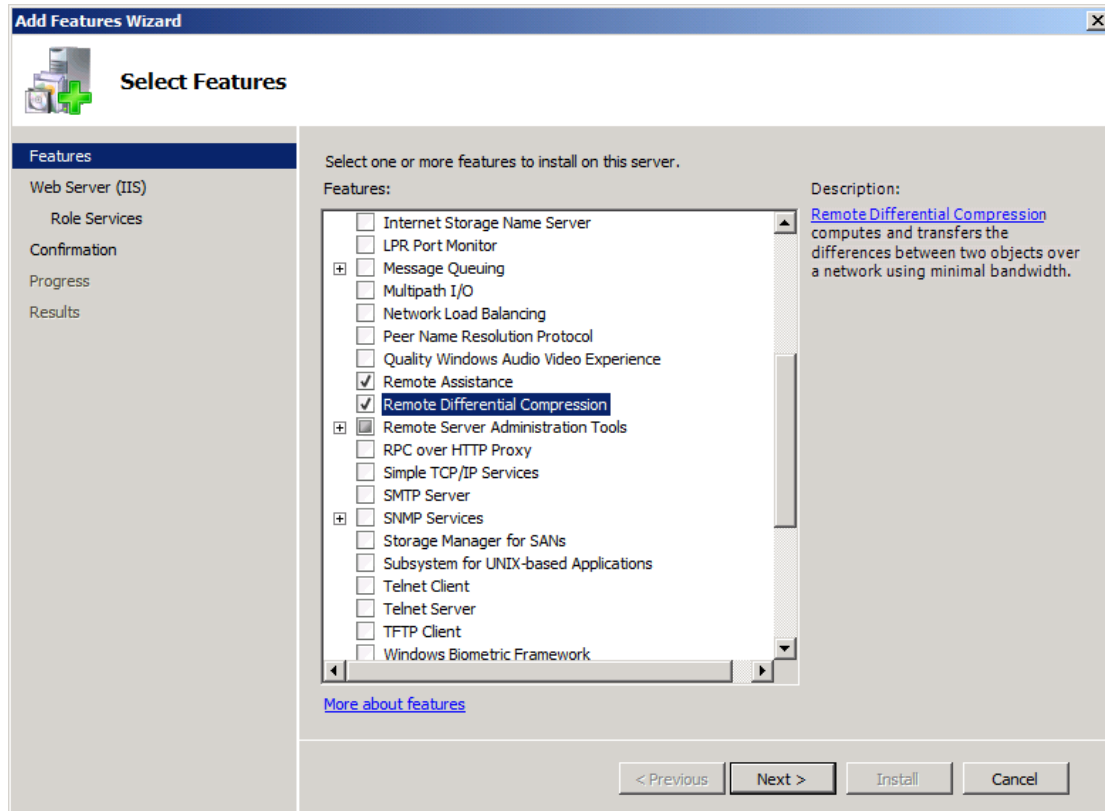
5) Choose **Background Intelligent Transfer Service(BITS)**, will display related components needed prompt box :



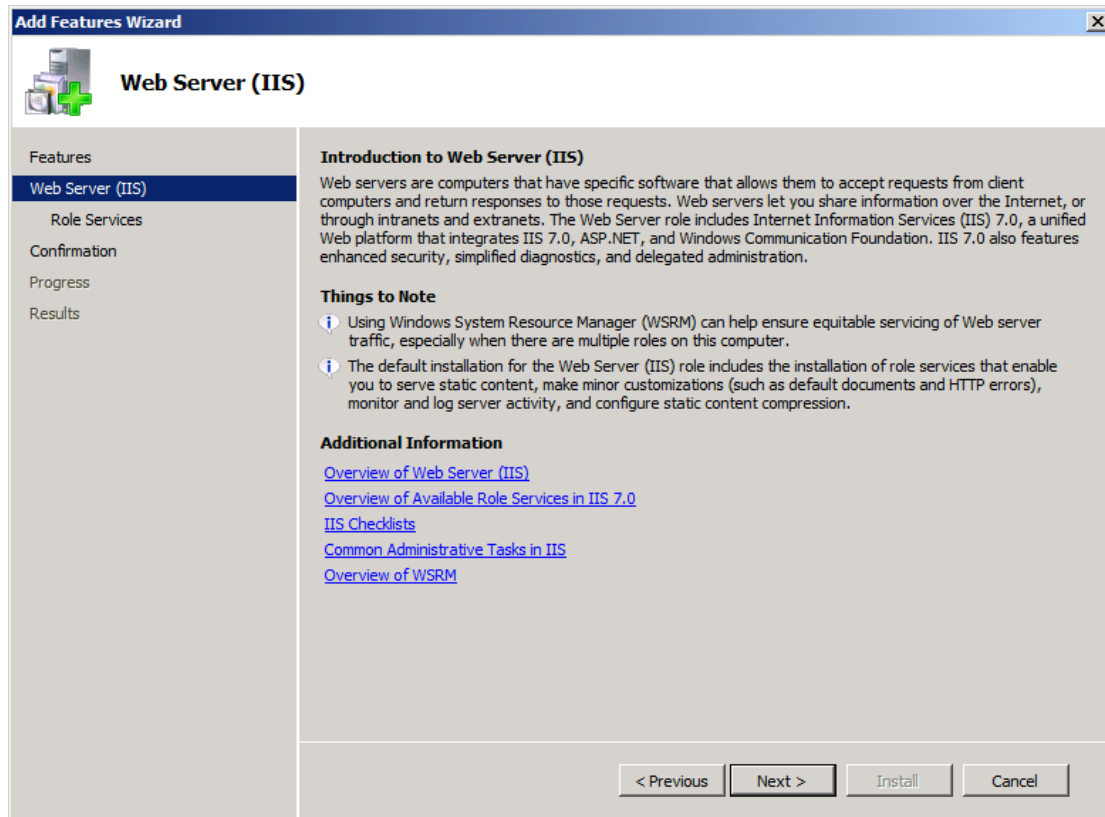
6) Click **Add Required Role Services** and will return to **Select Features** page :



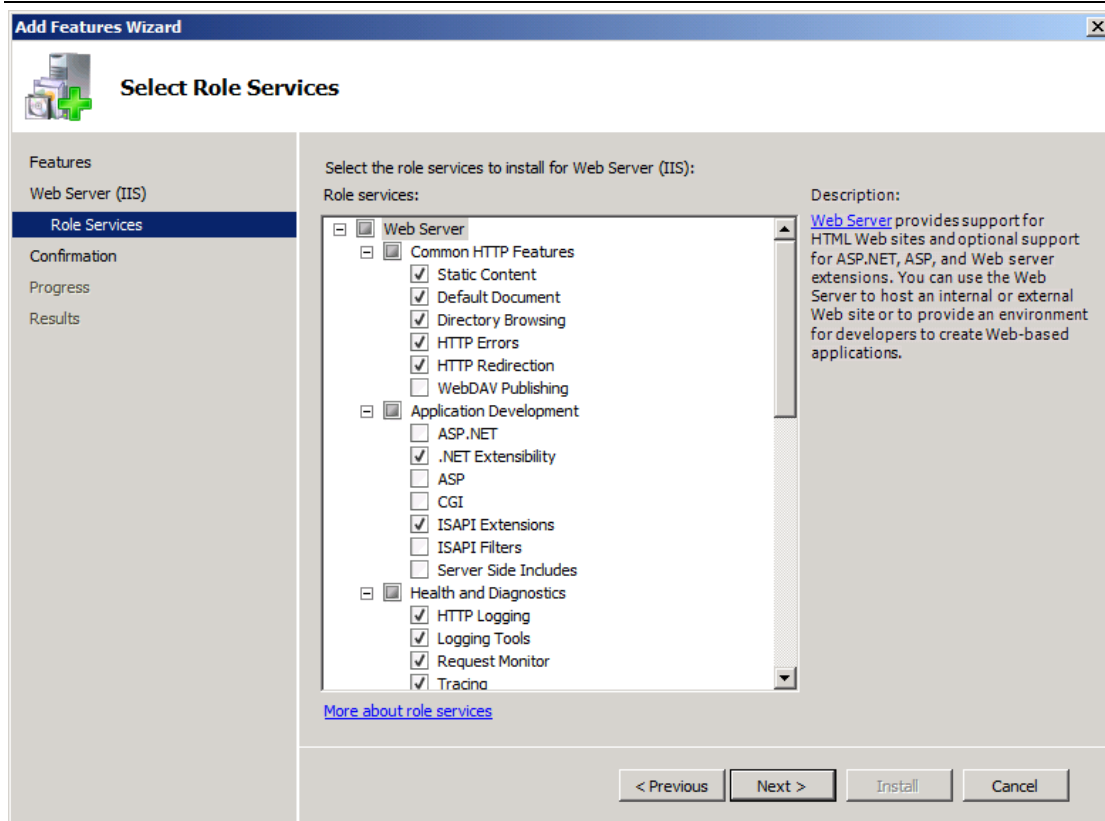
7) Choose **Remote Assistance** and **Remote Differential Compression** :



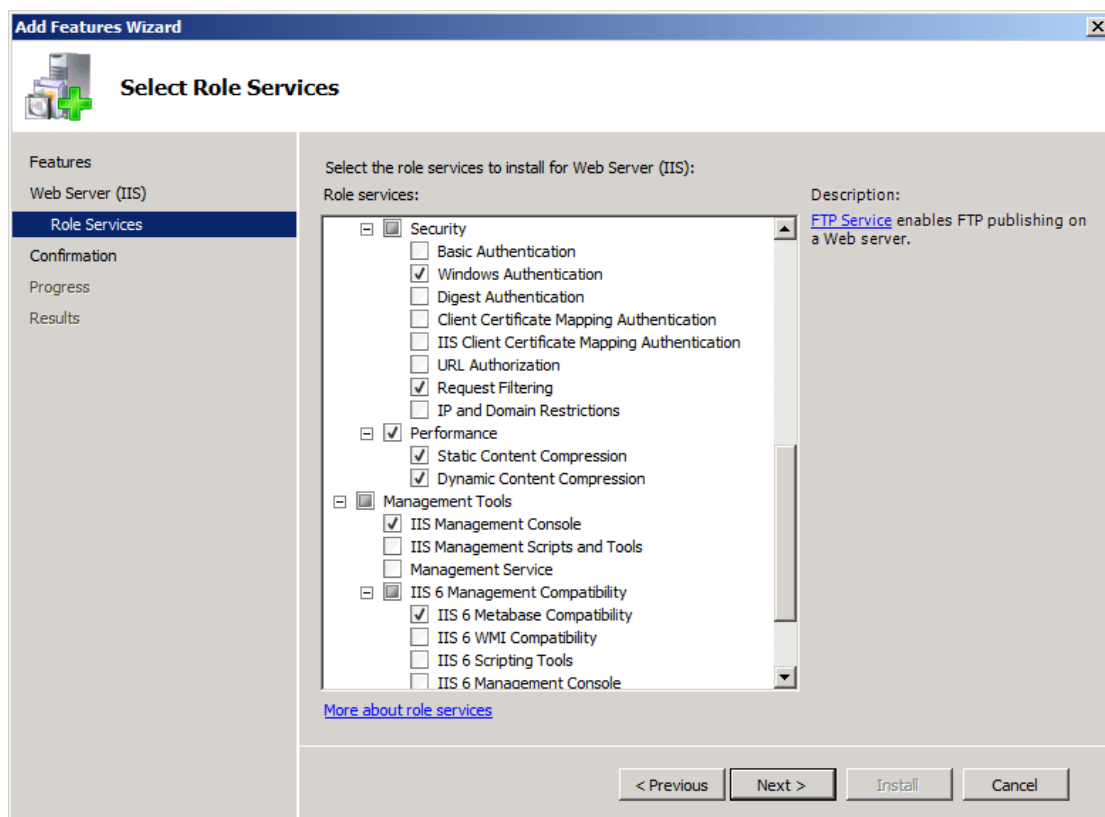
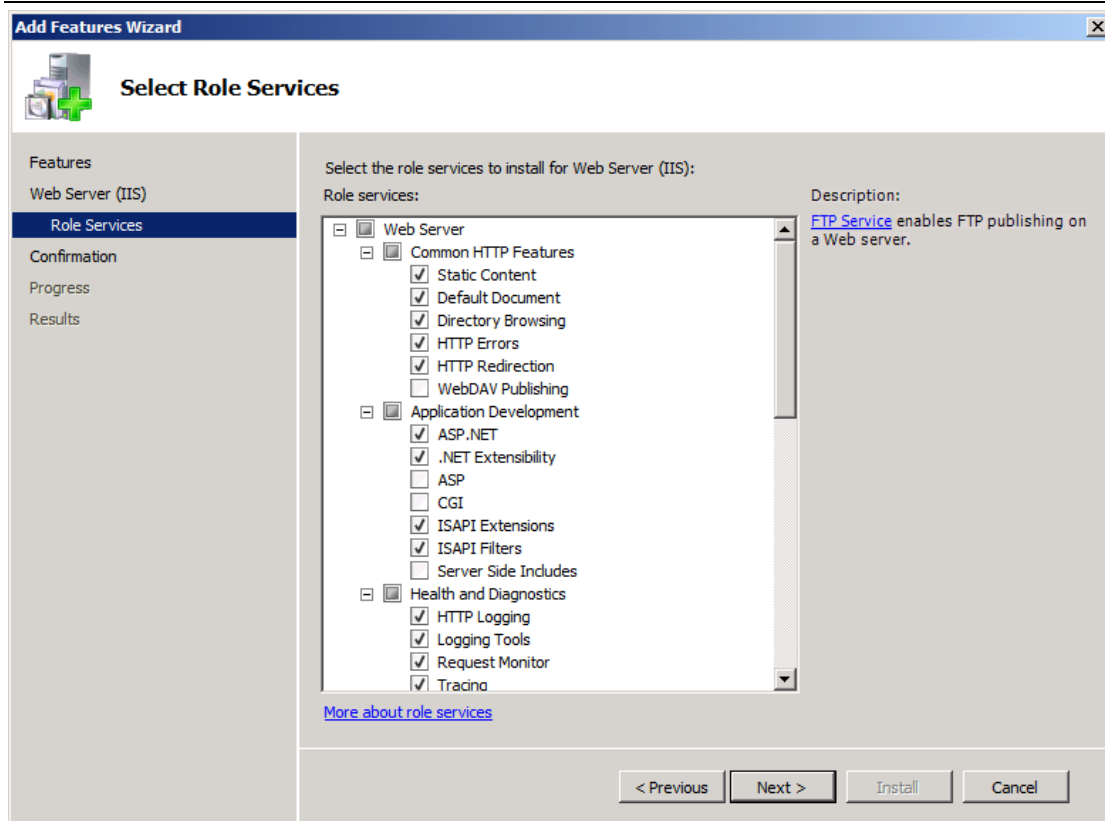
8) Click **Next** , go to **Web Server ( IIS )** step :



9) Click **Next** will display **Select Role Services** step :

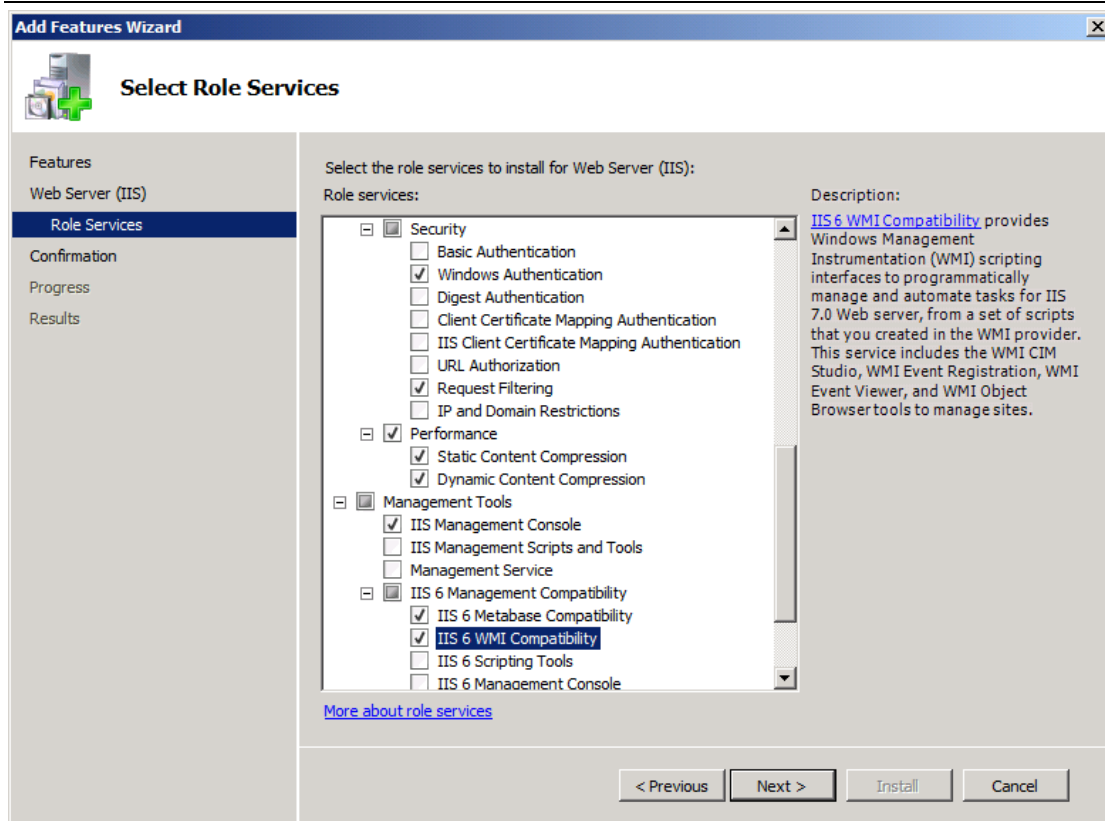


10) Choose **ASP.NET** 、 **Windows Authentication** 、 **Dynamic Content Compression** and **IIS 6 Metabase Compatibility** items for WSUS 3.0 SP2 :

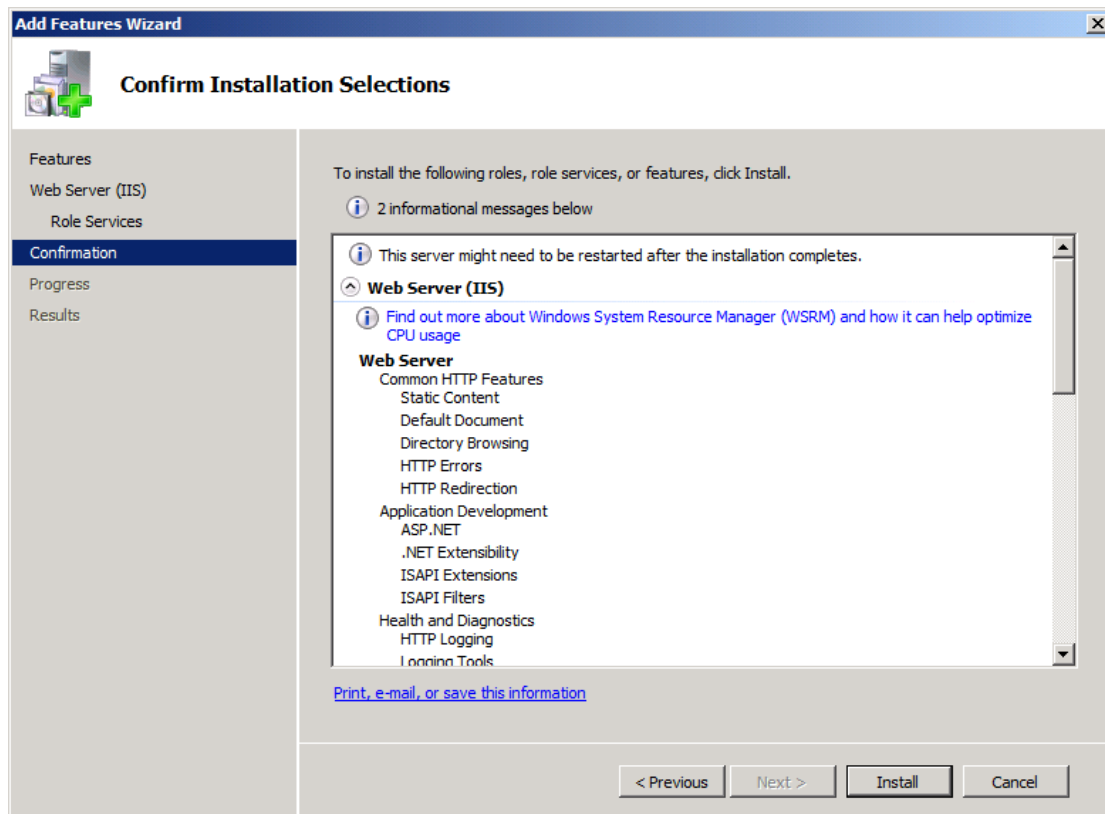


11) Choose **IIS6 WMI Compatibility** items for SC2012 ConfigMgr RTM :

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

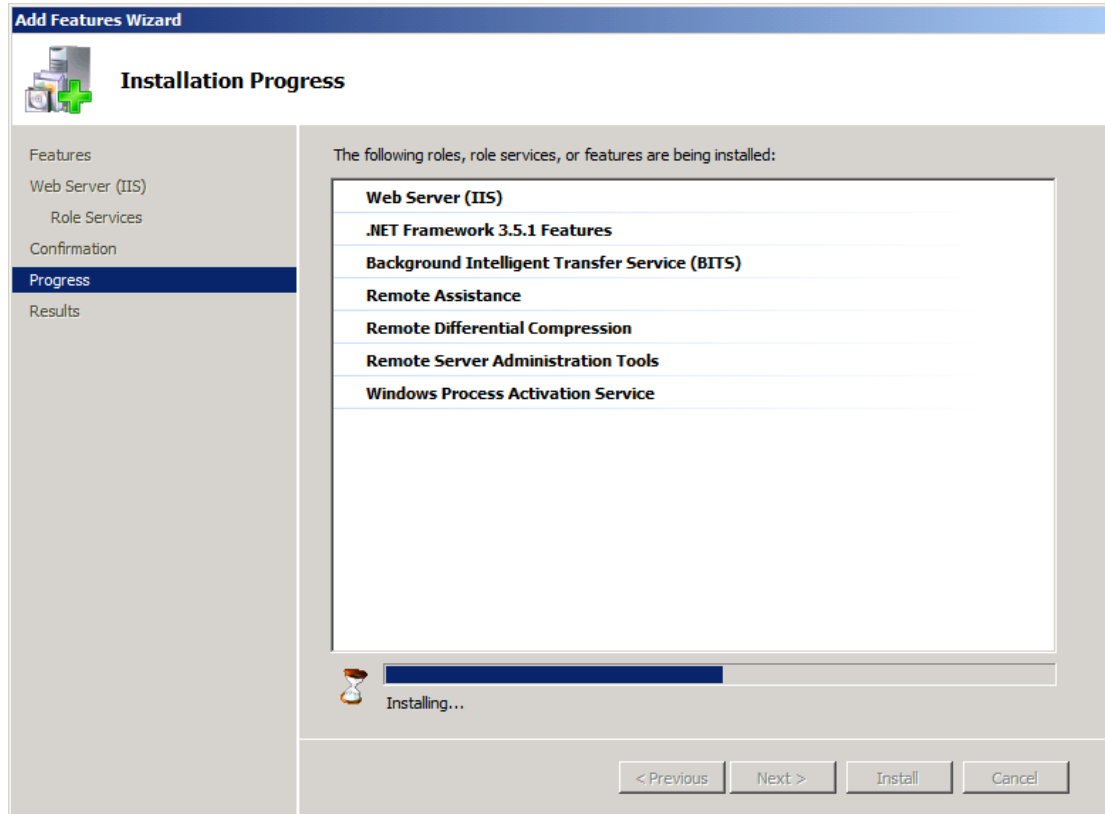


12) Click **Next** , display **Confirm Installation Selections** step :



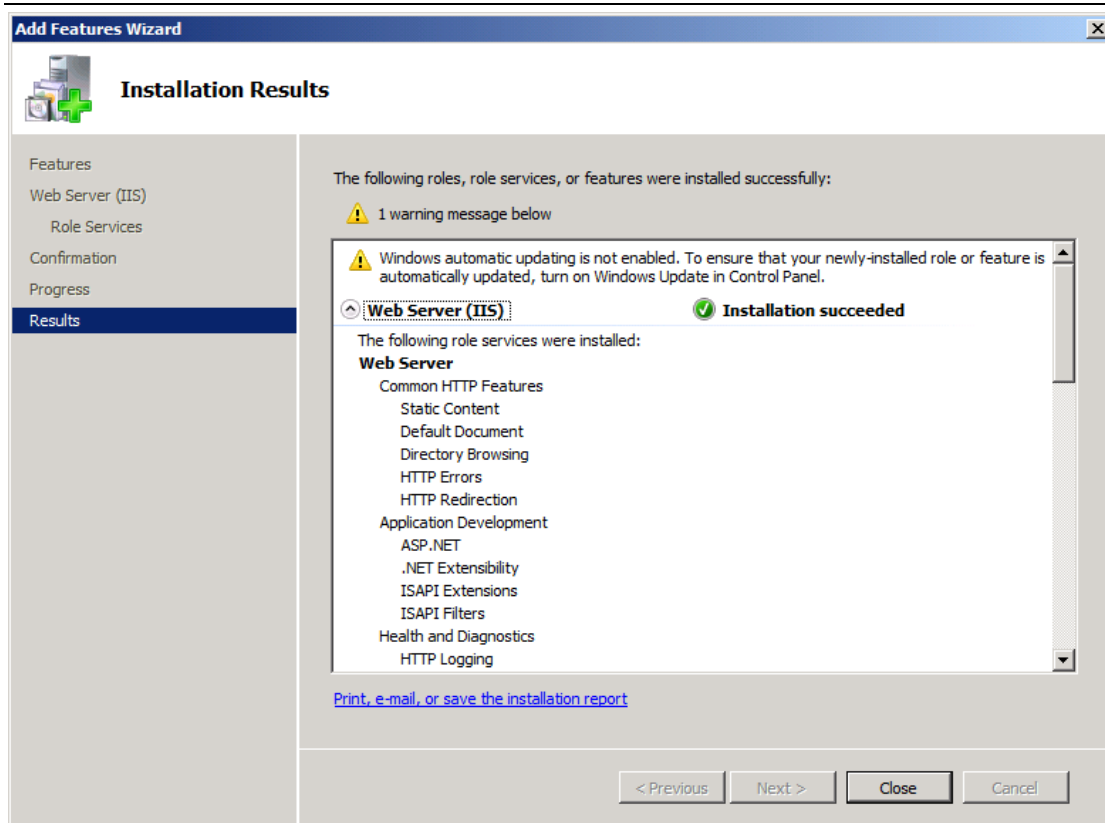
13) Make sure that all components have been selected to complete , click

**Install** , go to **Installation Progress** page :



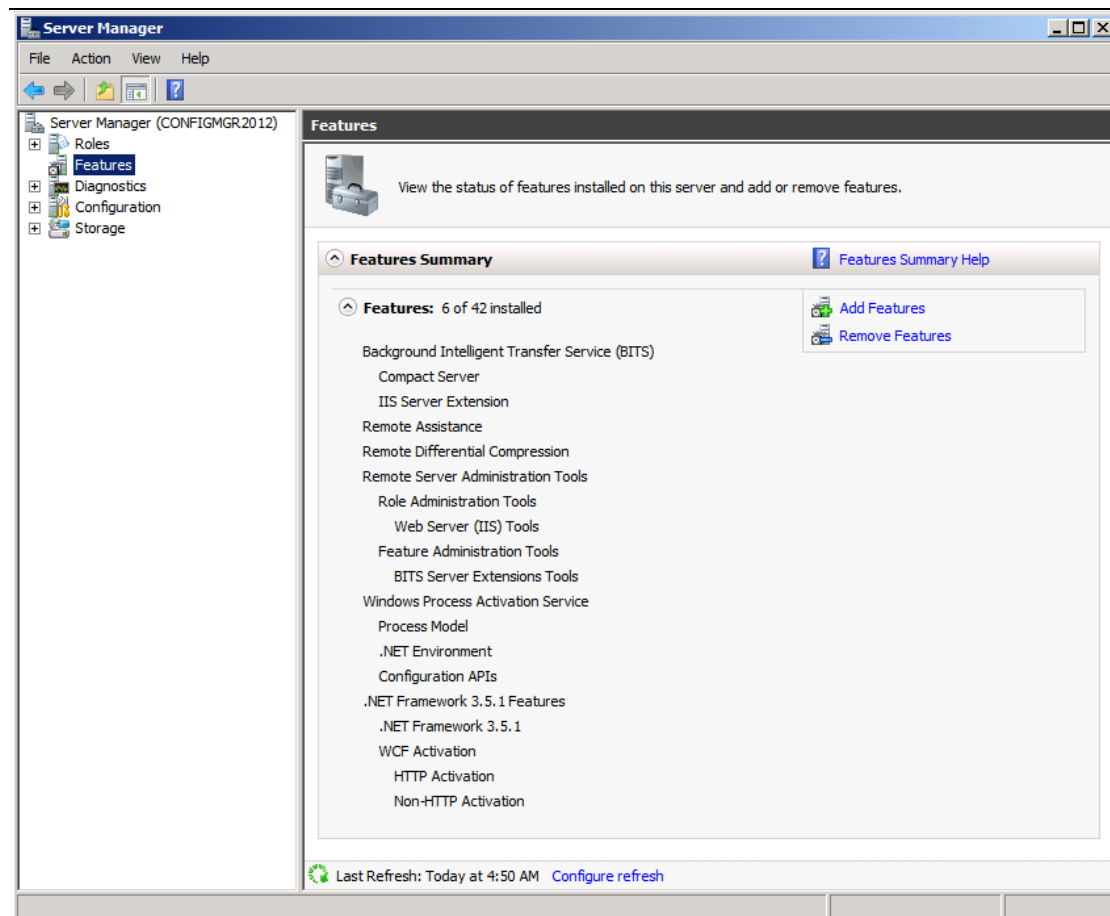
14) Please wait some minutes , display **Installation results** page :

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Configuration Manager RTM  
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15) Click **Close** will go to **Server Manager** homepage :

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16) Last don' t forget install **.Net framework 4.0** tool.

17) By default, IIS blocks several file extensions and folder locations from access by HTTP or HTTPS communication. If your package source files contain extensions that are blocked in IIS, you must configure the **requestFiltering** section in the **applicationHost.config** file on distribution point computers. The following file extensions are used by Configuration Manager for packages and applications. Allow the following file extensions on distribution points:

➤ .PCK

➤ .PKG

➤ .STA

➤ .TAR

1. Open the **applicationHost.config** file located in

the **%Windir%\System32\Inetsrv\Config\** directory , Search for the **<requestFiltering>** section , determine the file name extensions and folder names that you will have in the packages on this distribution point. For each extension and folder name that you require, perform the following steps:

- If it is listed as a **fileExtension** element, set the value for **allowed** to **true**.

For example, if your content contains a file with an **.mdb** extension, change the line **<add fileExtension=".mdb" allowed="false" />** to **<add fileExtension=".mdb" allowed="true" />**.

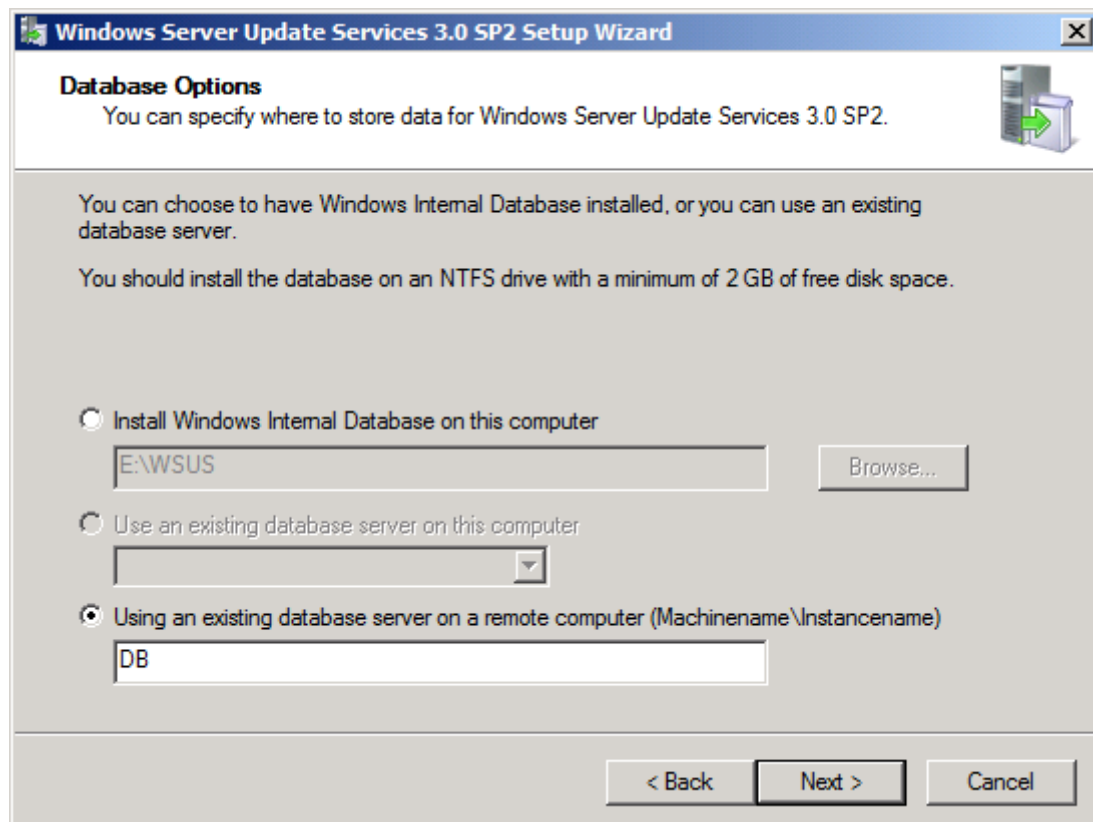
Allow only the file name extensions required for your content.

- If it is listed as a **<hiddenSegments>** element, delete the entry that matches the file name extension or folder name from the file.

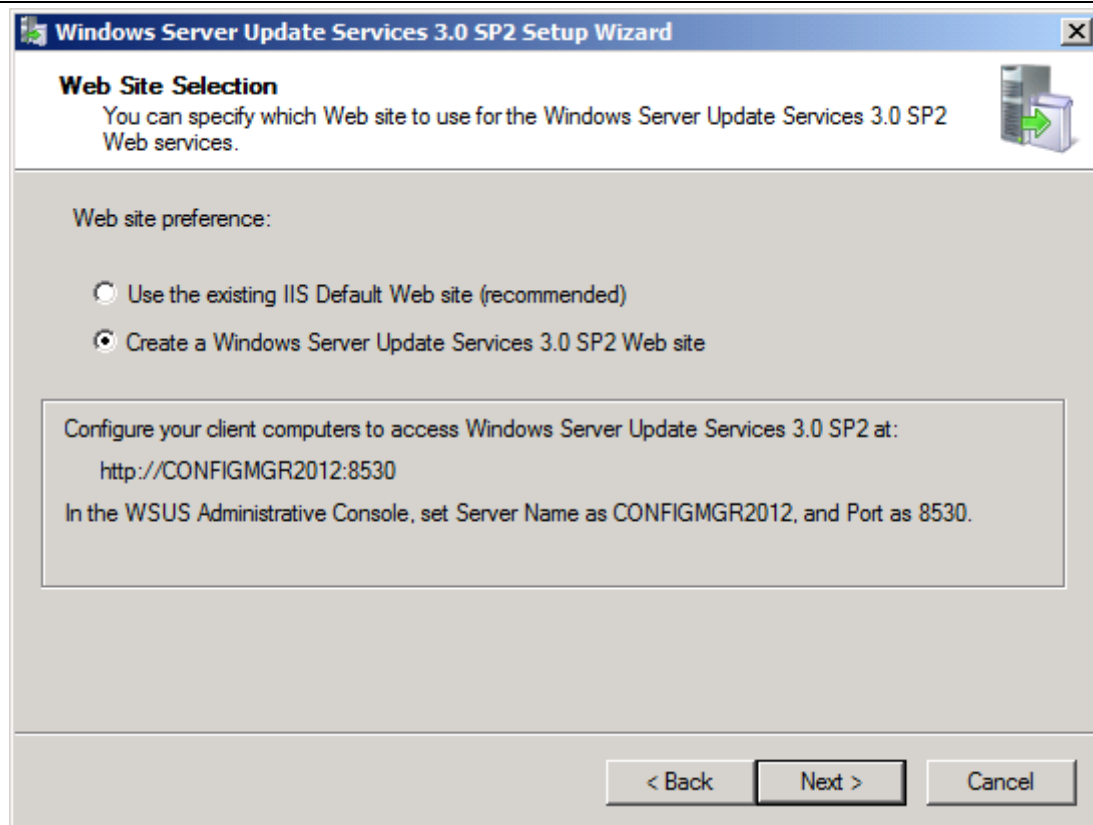
For example, if your content contains a folder with the label of **bin**, remove the line **<add segment=" bin" />** from the file.

## 7. Installing WSUS 3.0 SP2 :

1) Logon to **ConfigMgr2012** server ,installing WSUS 3.0 SP2. Because already installed Database on **DB** , So you can using this database for WSUS 3.0 SP2. In **Database Options** step , you can choose **Using an existing database server on a remote computer** and fill in database server name :



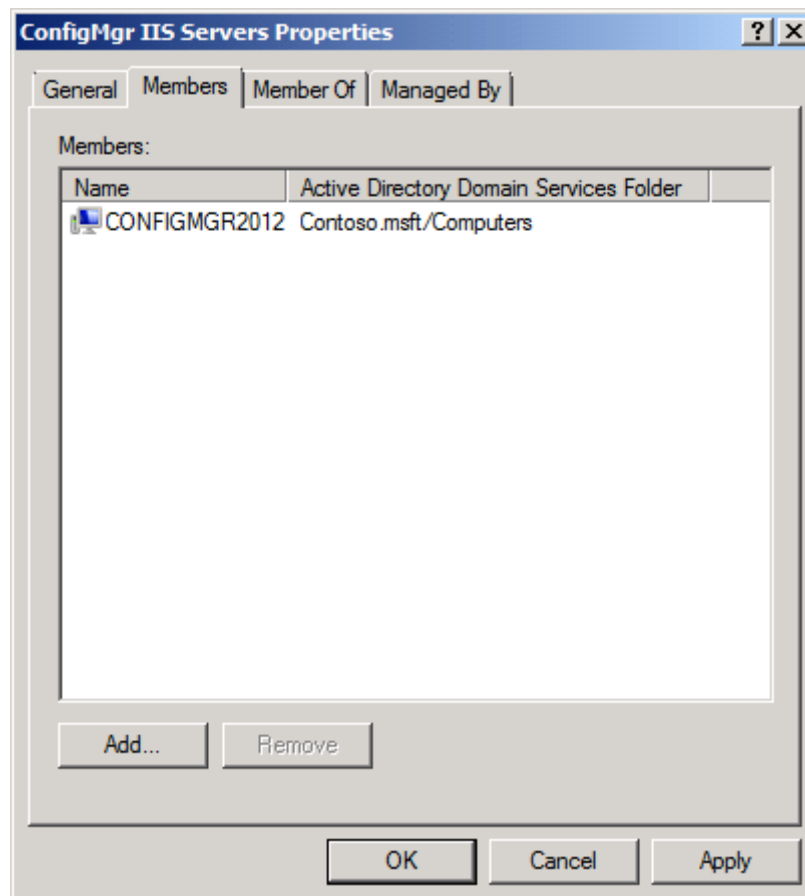
2) In **Web Site Selection** step you can base on your requirement to choose , In this deployment , I will choose **Create a Windows Server Update Services 3.0 SP2 Web site** :



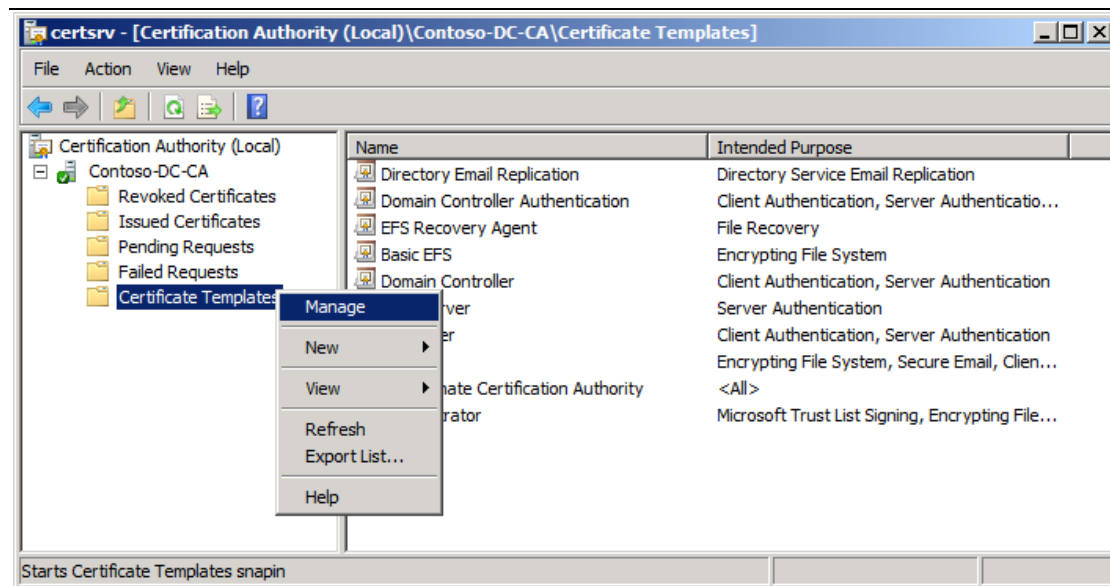
- 3) Click **Next** and complete the installation.

## 8. Configure SC2012 ConfigMgr RTM Certificates :

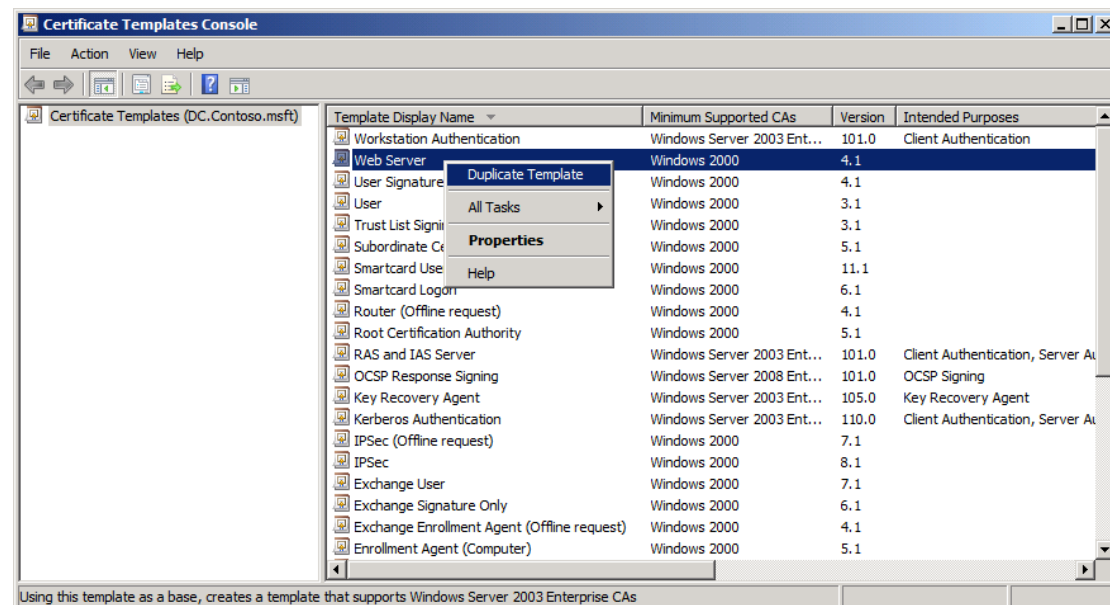
- 1) This procedure I will create two certificates. One is **Web Server Certificate**, one is **client certificate**.
- 2) Logon to **DC** server , create a security group that contains the member servers to install SC2012 Configuration Manager site systems that will run IIS.



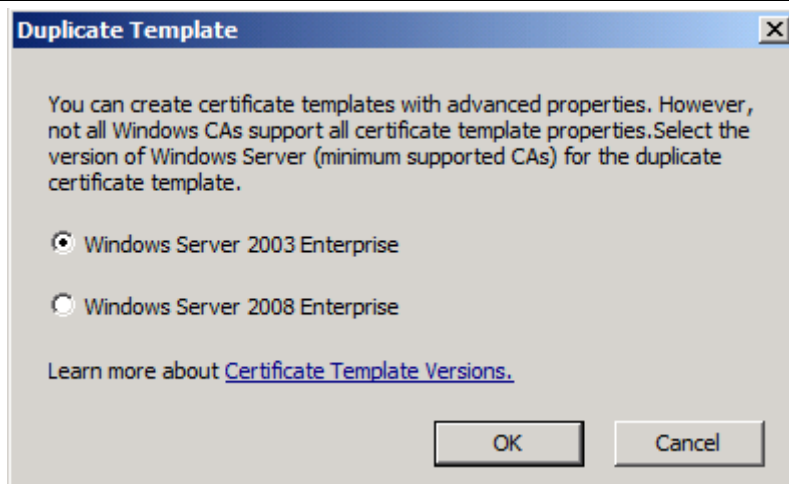
- 3) Open **Certification Authority** mmc snap-in console, right-click **Certificate Templates** choose **Manage** :



4) **Certificate Templates Console** will opened , right-click **Web Server** template , and then click **Duplicate Template** :



5) Display **Duplicate Template** dialog box :



6) Ensure that **Windows Server 2003 Enterprise** is selected , and then click **OK**. In the **Properties of New Template** dialog box , on the **General** tab, enter a template name to generate the Web certificates that will be used on Configuration Manager site systems , such as **ConfigMgr Web Server Certificate** :

**Properties of New Template**

Issuance Requirements | Superseded Templates | Extensions | Security

General | Request Handling | Subject Name | Server

Template display name:  
ConfigMgr Web Server Certificate

Minimum Supported CAs: Windows Server 2003 Enterprise

Template name:  
ConfigMgrWebServerCertificate

Validity period: 2 years      Renewal period: 6 weeks

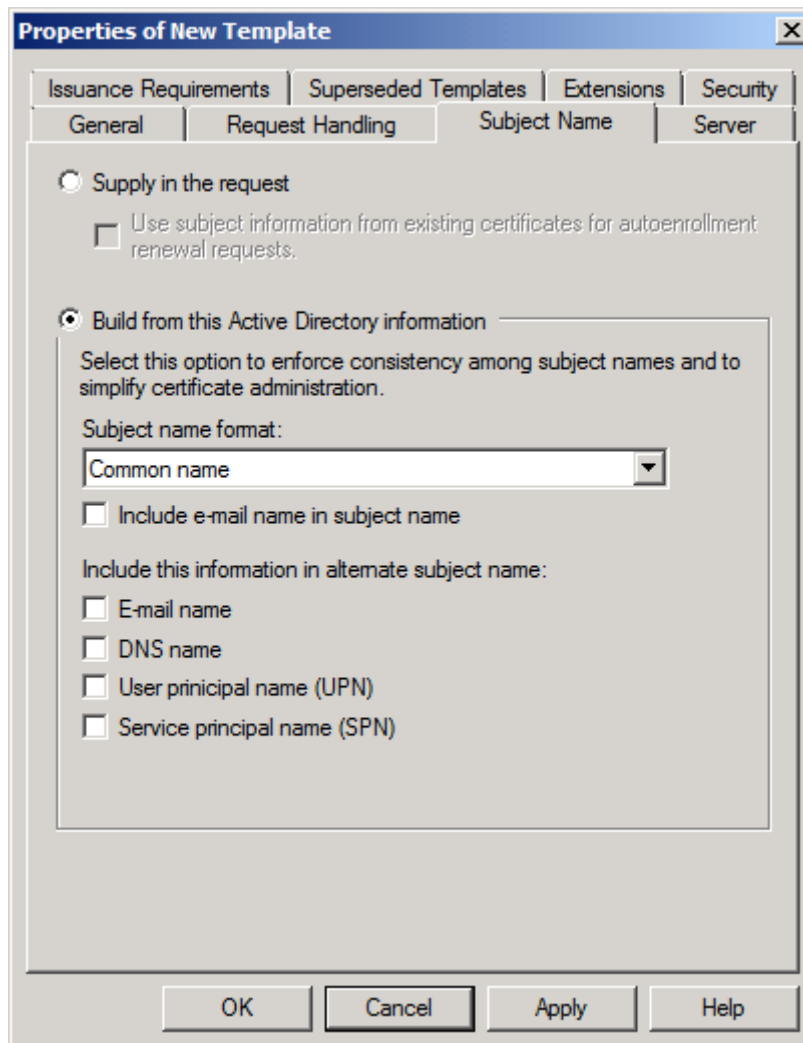
☐ Publish certificate in Active Directory

☐ Do not automatically reenroll if a duplicate certificate exists in Active Directory

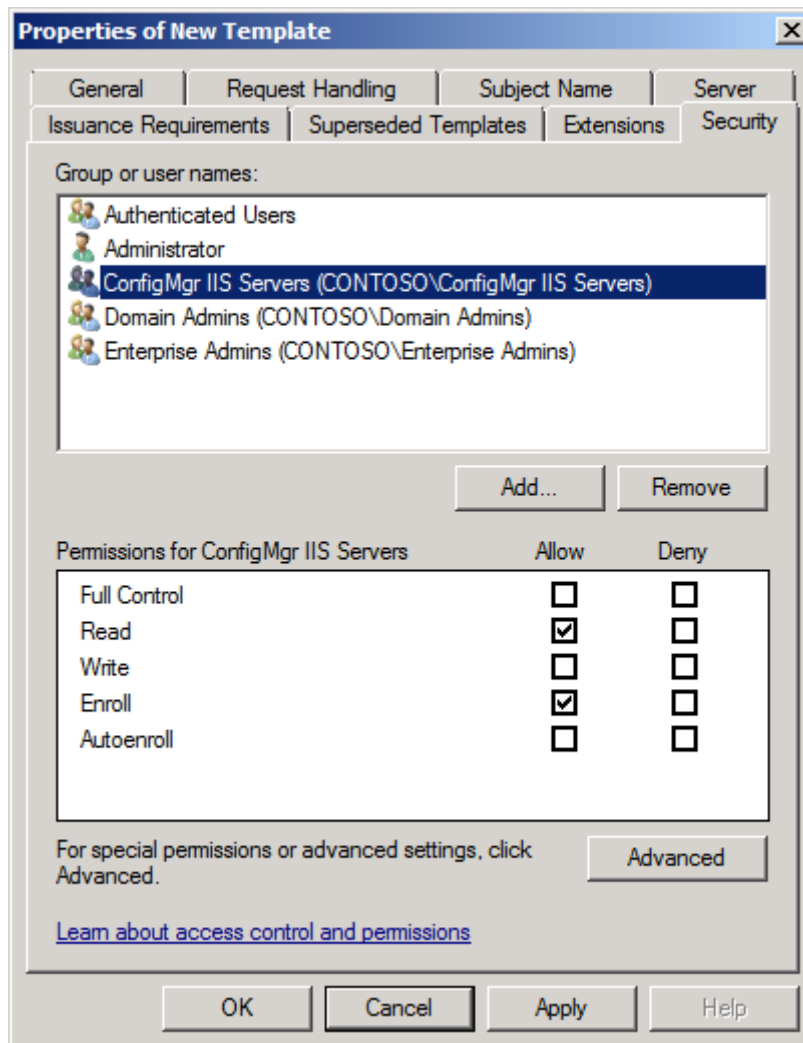
☐ For automatic renewal of smart card certificates, use the existing key if a new key cannot be created

OK Cancel Apply Help

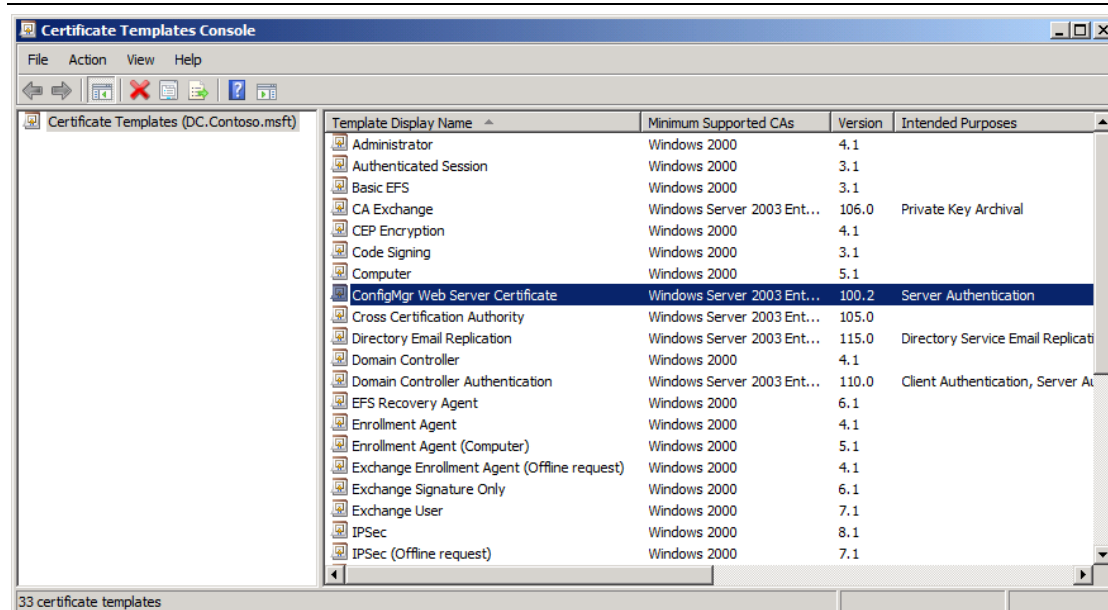
7) Click the **Subject Name** tab , Click **Build from this Active Directory Information** is selected , and then select one of the following for the **Subject name format** , **Common name** or **Fully distinguished name** , if you select **Common name** , you need to unselect **User Principal name(UPN)** :



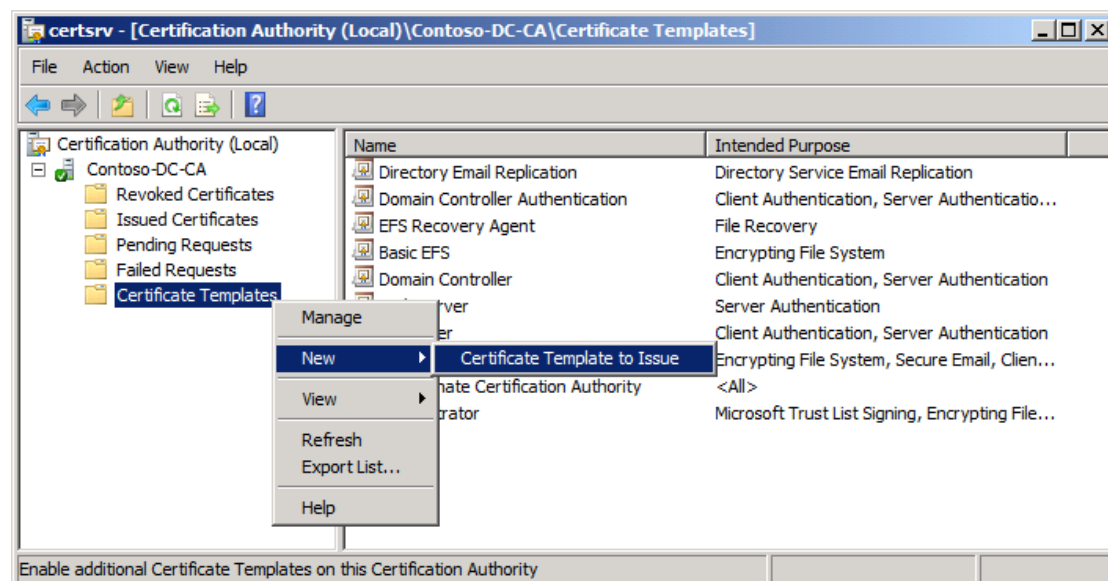
8) In the **Security** tab , remove the **Enroll** permission from the security groups **Domain Admins** and **Enterprise Admins**, click **Add** ,enter **ConfigMgr IIS Servers** in the text box , select the **Enroll** permission for this group , and do not clear the **Read** permission:



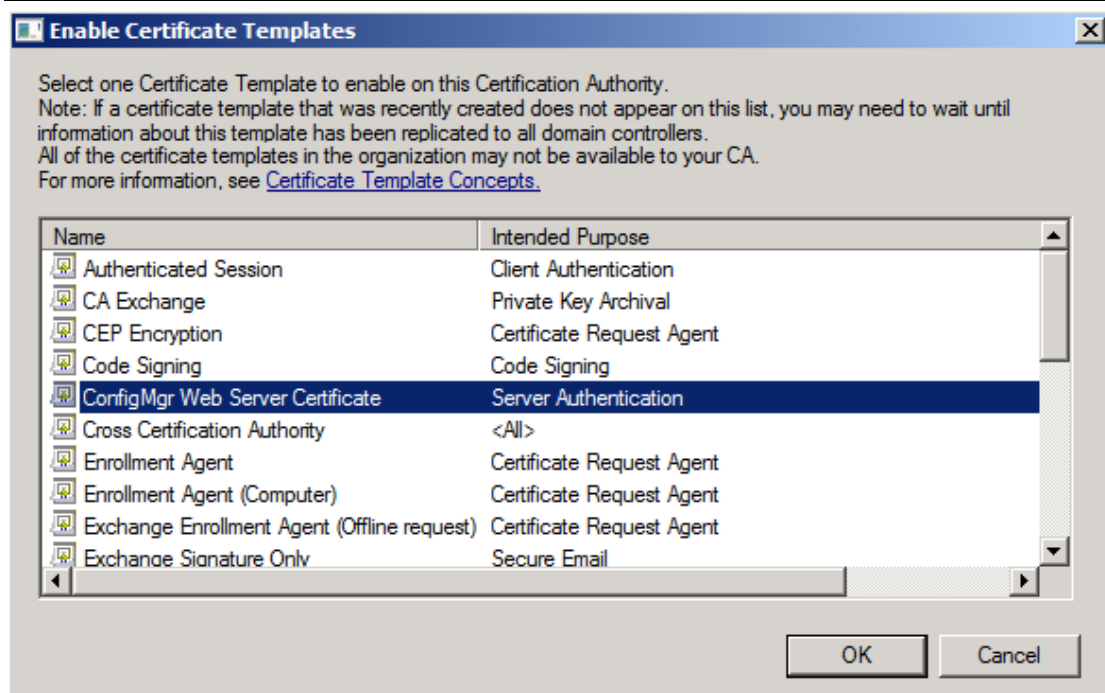
9) Click **OK** , return to **Certificate Templates Console** , you can see your just created template :



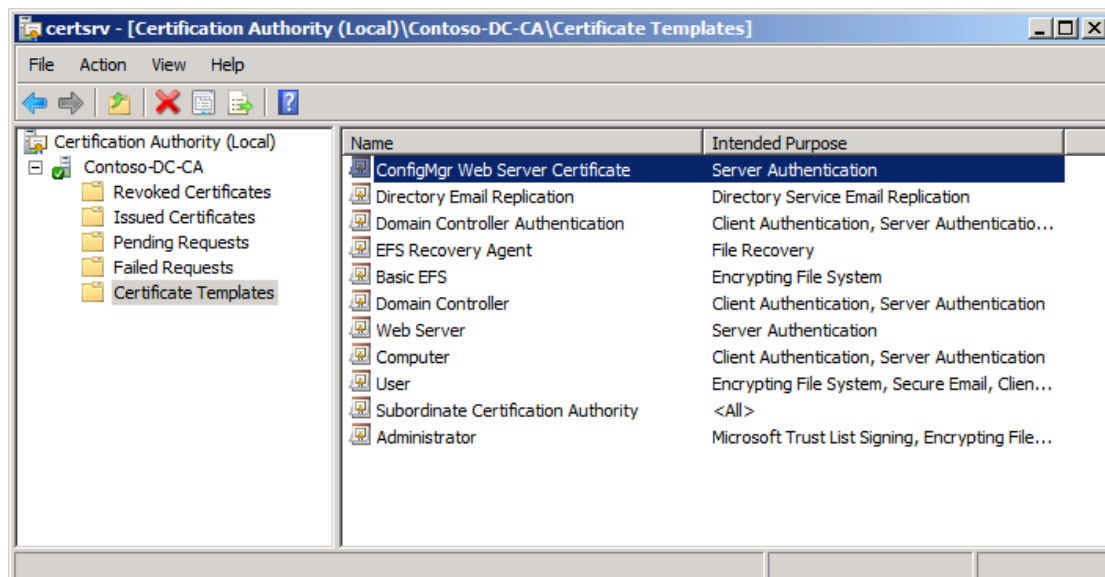
10) Close the **Certificate Templates Console**. In the **Certification Authority** console , right-click **Certificate Templates** , click **New** , and then click **Certificate Template to Issue** :



11) In the **Enable Certificate Templates** dialog box , select the new template you have just created, **ConfigMgr Web Server Certificate** :

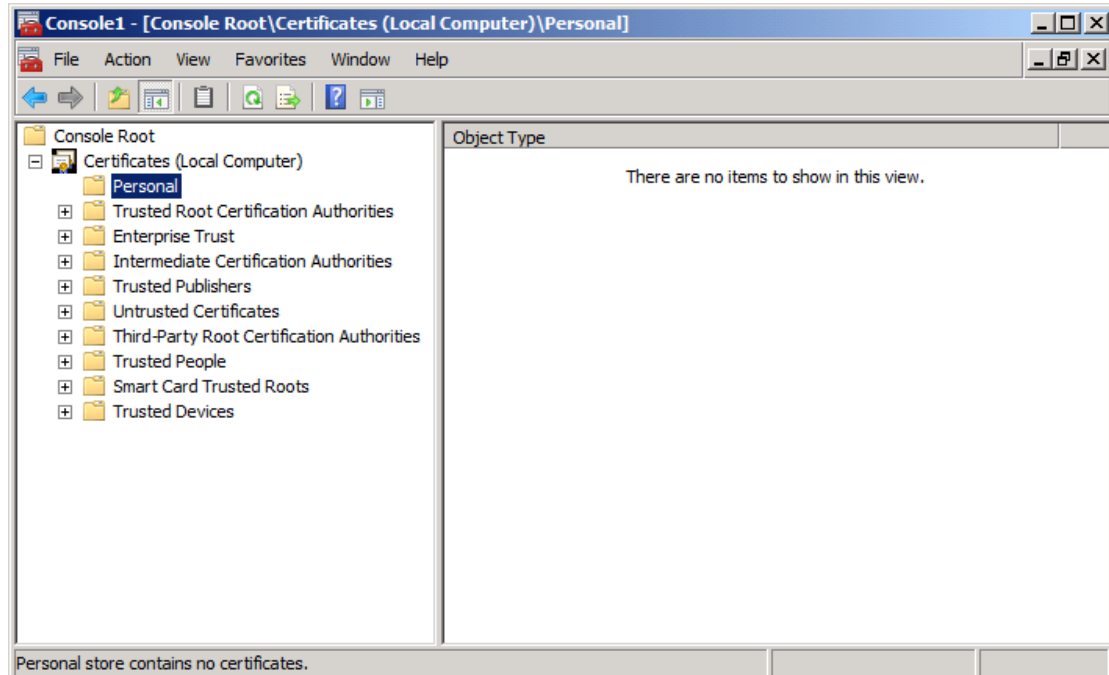


12) Click **OK** , you can see this template already added :

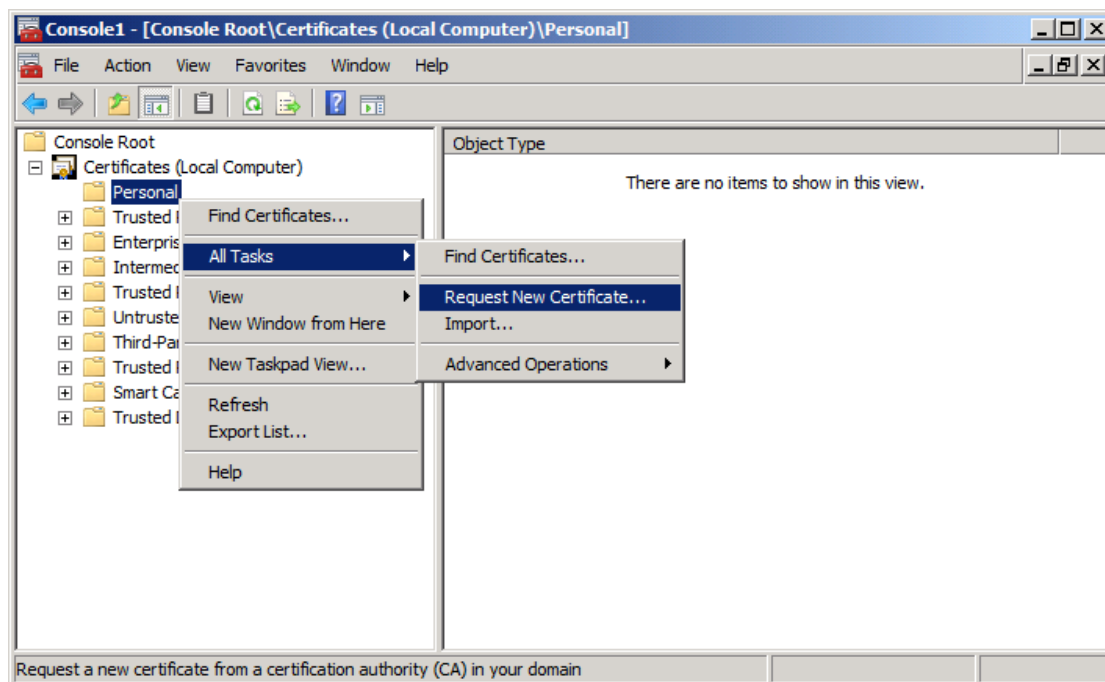


13) If you do not need to create and issue any more certificate , close **Certification Authority** . Restart the member server that runs IIS (**ConfigMgr2012** server), to ensure it can access the certificate template with the configured permission.

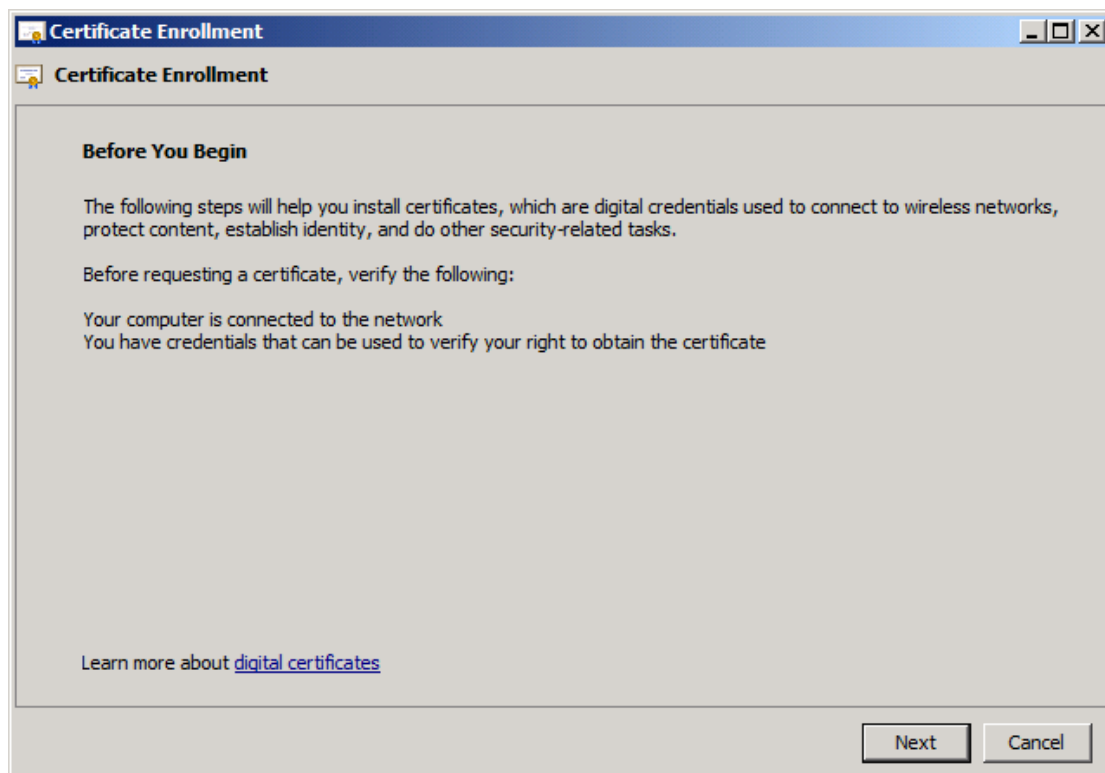
14) Logon to **ConfigMgr2012** server , in the **Certificate** snap-in dialog box, select **Computer account** , In the console , expand **Certificates(Local Computer)**, and then click **Personal** :



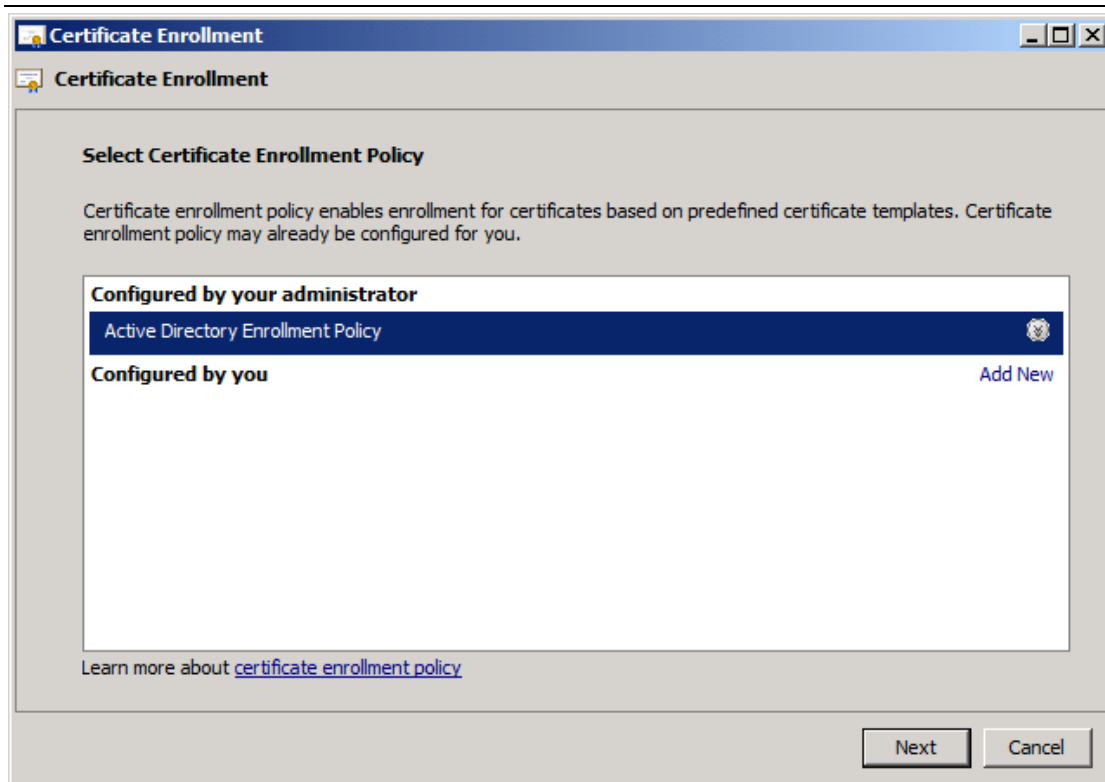
15) Right-click **Personal**, click **All Tasks** , and then click **Request New Certificate...** :



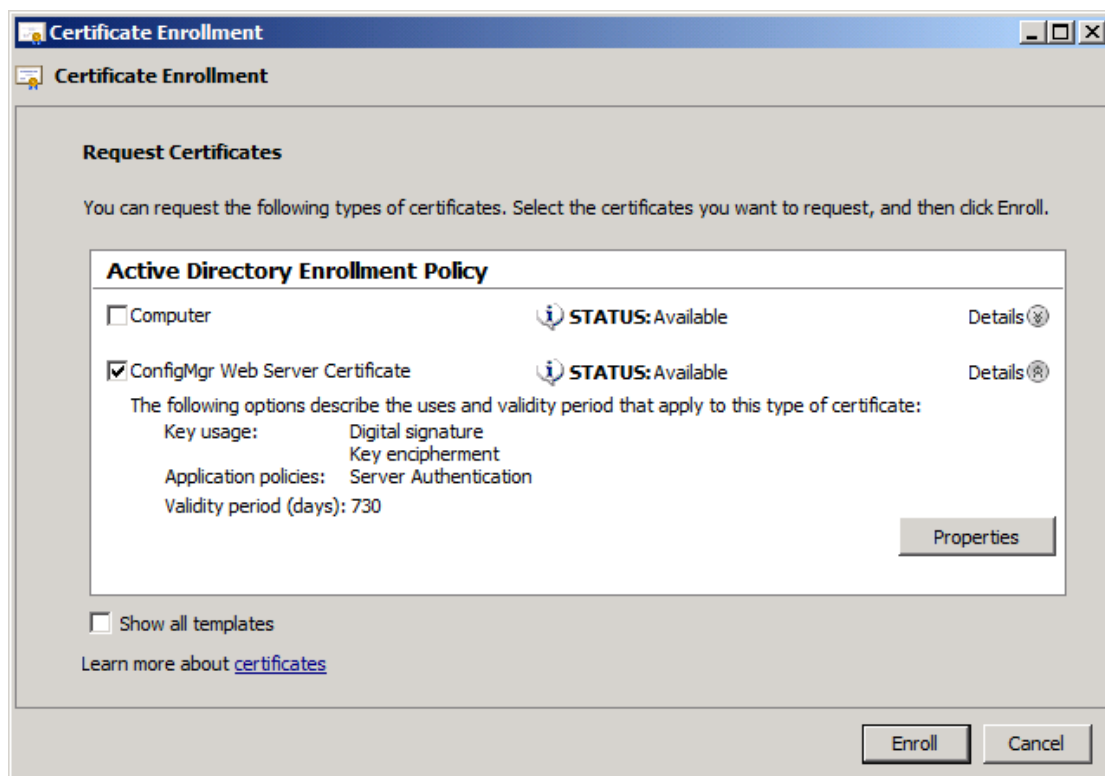
16) Display **Certificate Enrollment** wizard :



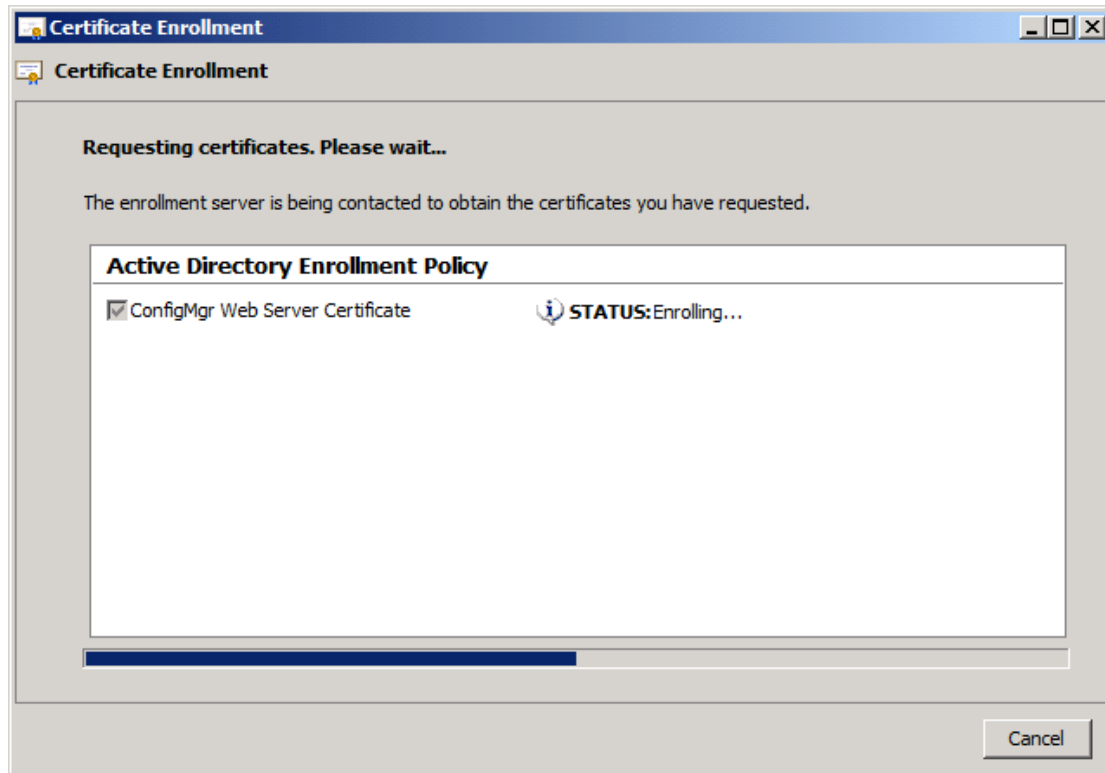
17) On the **Before You Begin** page , click **Next** , you can see **Select Certificate Enrollment Policy** page :



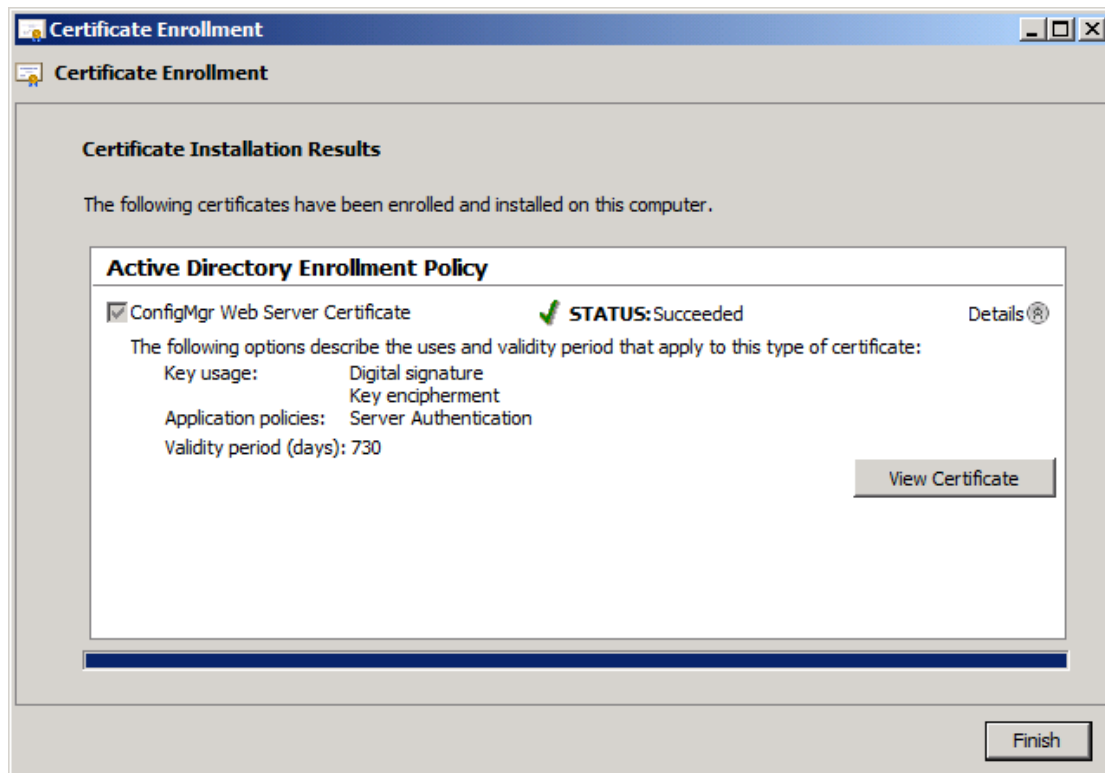
18) Click **Next** , On the **Request Certificates** page , select **ConfigMgr Web Server Certificate** from the list of displayed certificates :



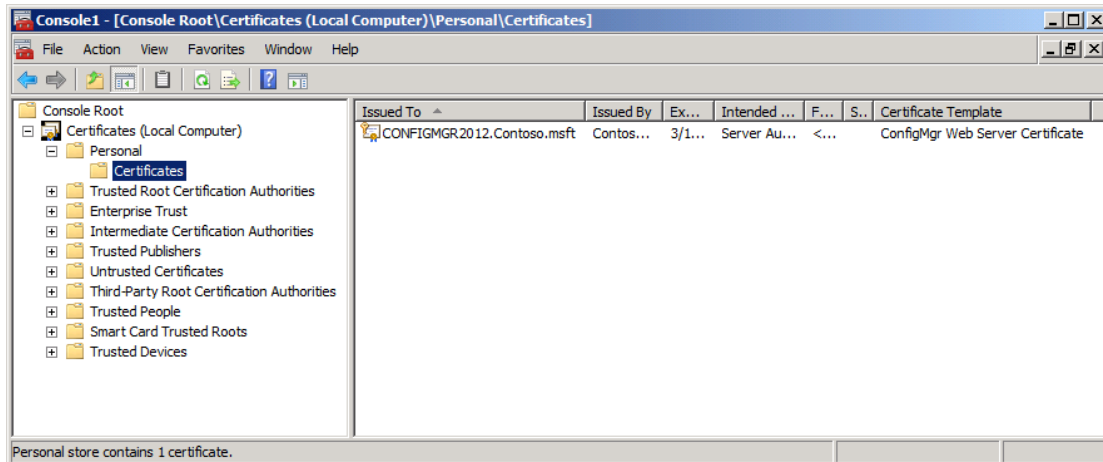
19) Click **Enroll** , on the **Requesting certificates** page:



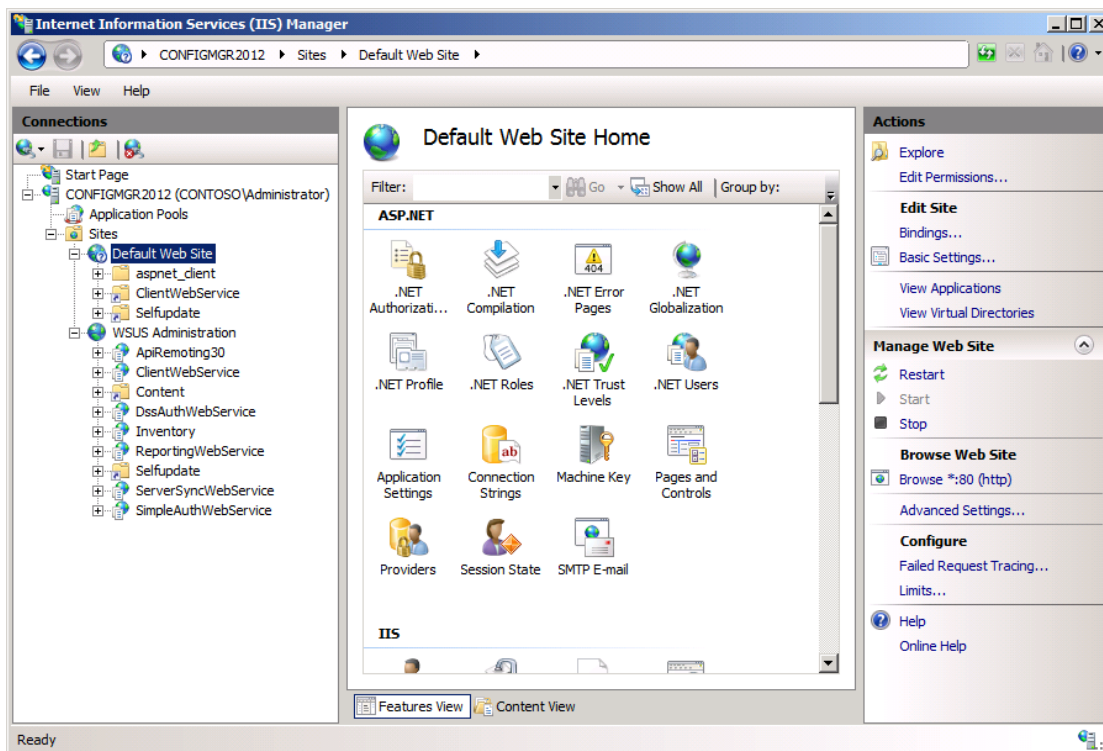
20) Wait until the certificate is installed :



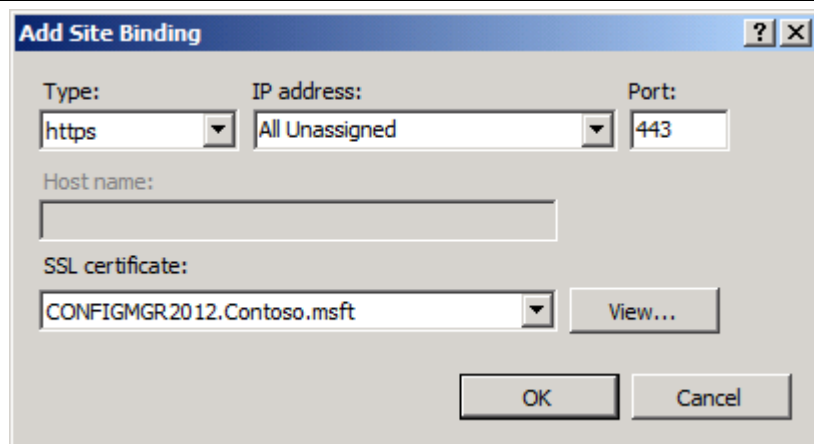
21) Click **Finish** , you can see a new certificate :



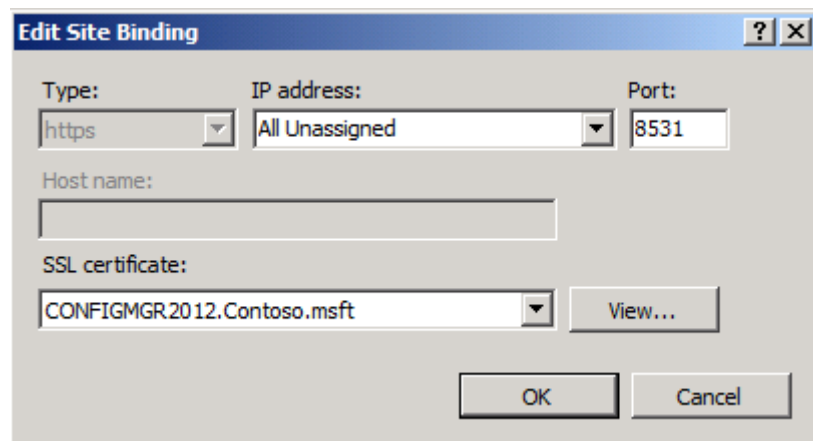
22) Close **Certificates(Local Computer)**. Open **Internet Information Services(IIS) Manager** , Right-click **Default Web Site** and then select **Bindings** :



23) In the **Add Site Binding** box , click the **https** entry , and then select the certificate that you requested by using the ConfigMgr Web Server Certificates template certificate:



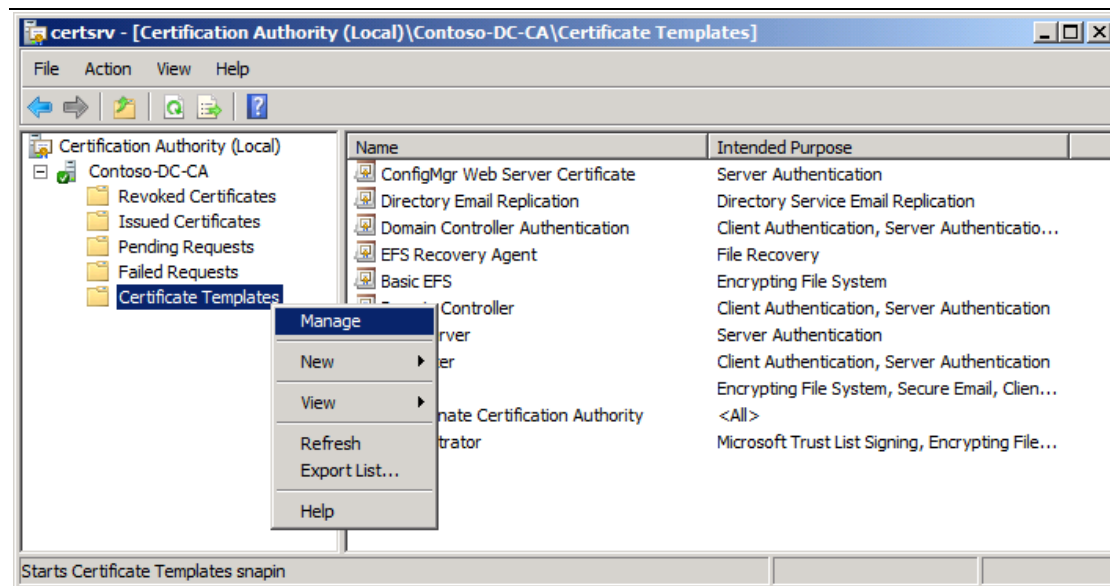
24) Click **OK**. You need to use the same step to binding this certificate to WSUS virtual directory :



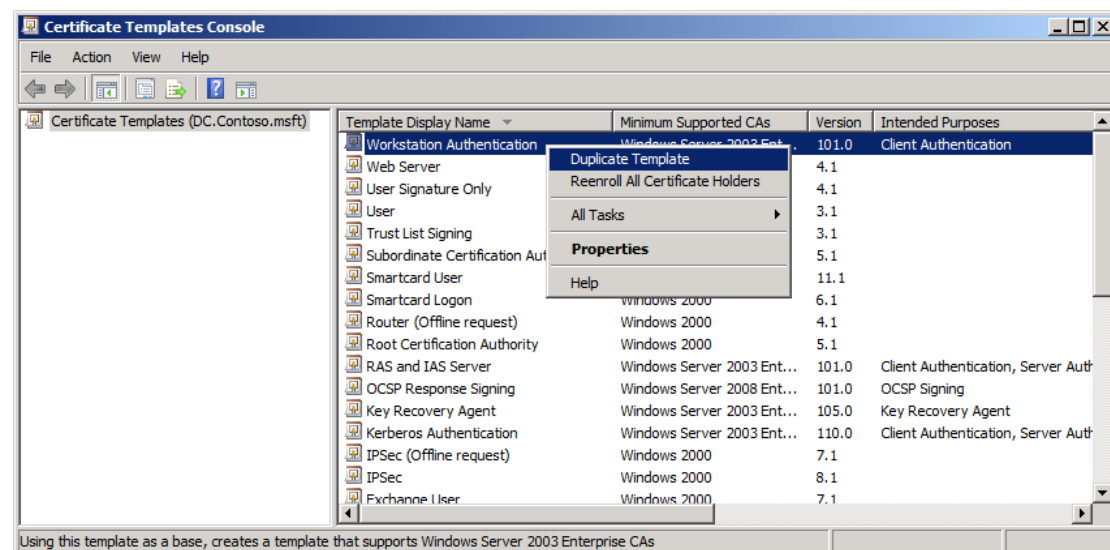
25) Click **OK** and close to IIS Manager.

26) Web certificate request finished . We will go to setting certificate for Client.

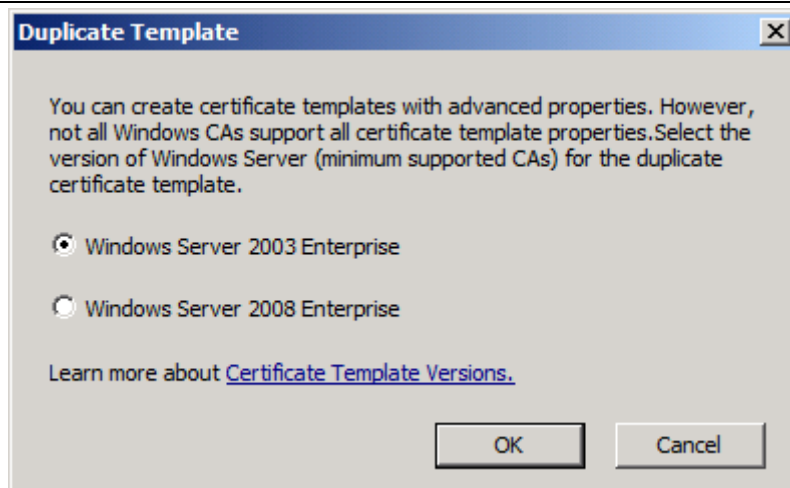
Logon to **DC** server. Open **Certification Authority** console, right-click **Certificate Template** , and then click **Manage** to load the **Certificate Templates** management console :



27) In the **Certificate Templates Console** , right-click the entry that displays **Workstation Authentication** in the column **Template Display Name**, and then click **Duplicate Template** :



28) In the **Duplicate Template** dialog box , ensure that **Windows Server 2003 Enterprise** is selected:



29) Click **OK** , in the **Properties of New Template** dialog box , On **General** tab , enter a template name to generate the client certificates that will be used on Configuration Manager client computers , such as **ConfigMgr Client Certificate** :

**Properties of New Template**

Issuance Requirements | Superseded Templates | Extensions | Security  
General | Request Handling | Subject Name | Server

Template display name:  
ConfigMgr Client Certificate

Minimum Supported CAs: Windows Server 2003 Enterprise

Template name:  
ConfigMgrClientCertificate

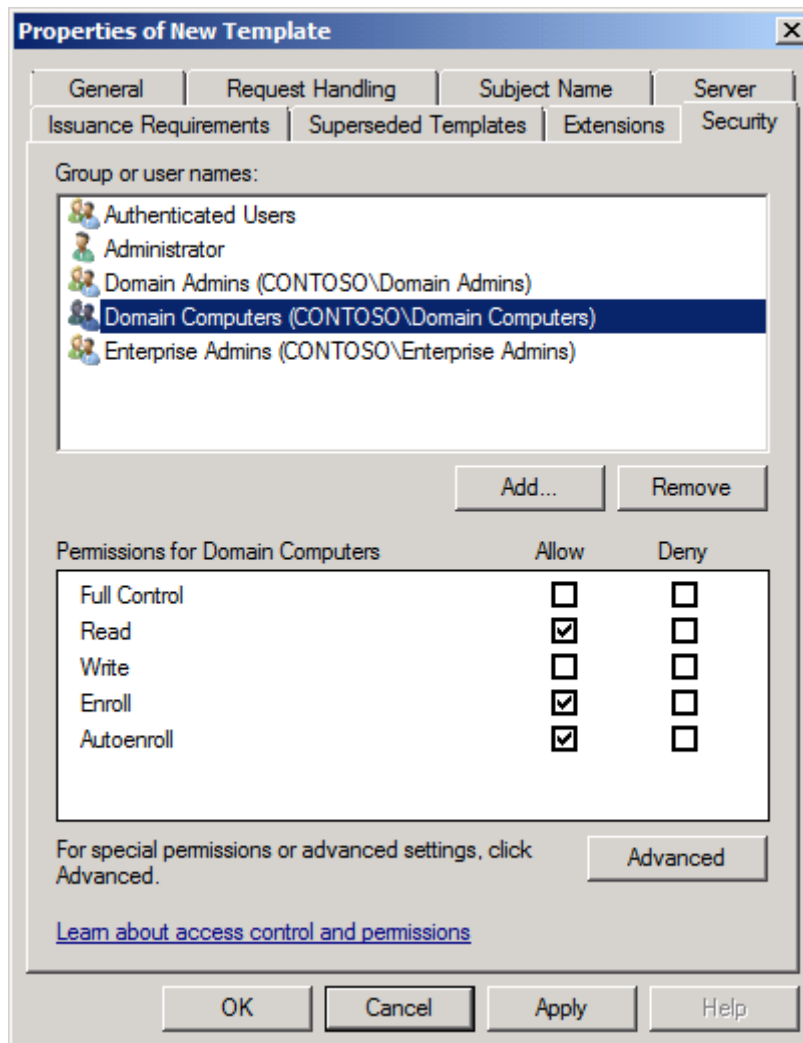
Validity period: 1 years      Renewal period: 6 weeks

☐ Publish certificate in Active Directory  
    ☐ Do not automatically reenroll if a duplicate certificate exists in Active Directory

☐ For automatic renewal of smart card certificates, use the existing key if a new key cannot be created

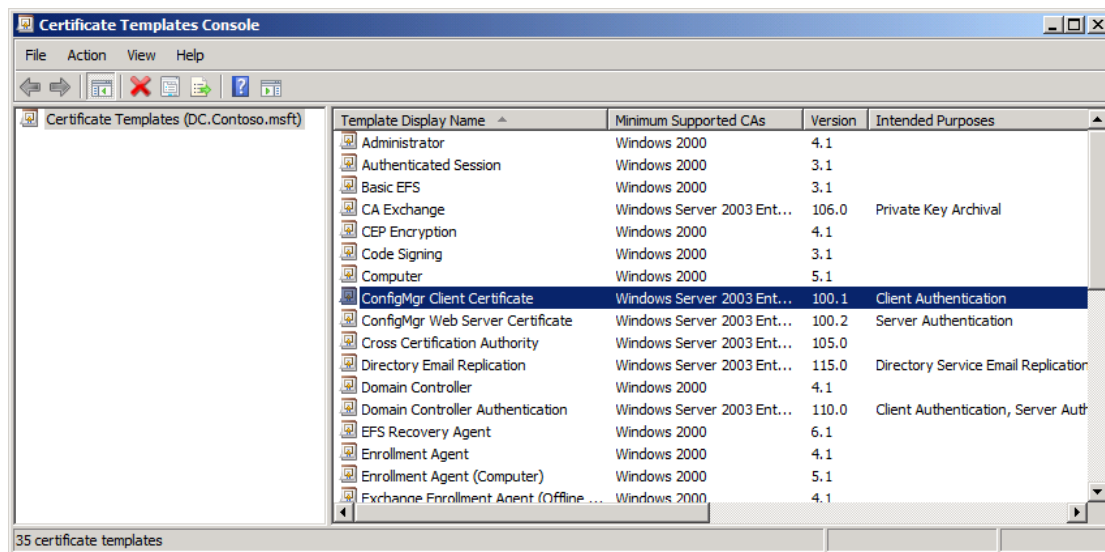
OK   Cancel   Apply   Help

30) Click the **Security** tab , select the **Domain Computers** group, and select the additional permissions of **Read** and **Autoenroll** . Do not clear **Enroll** :

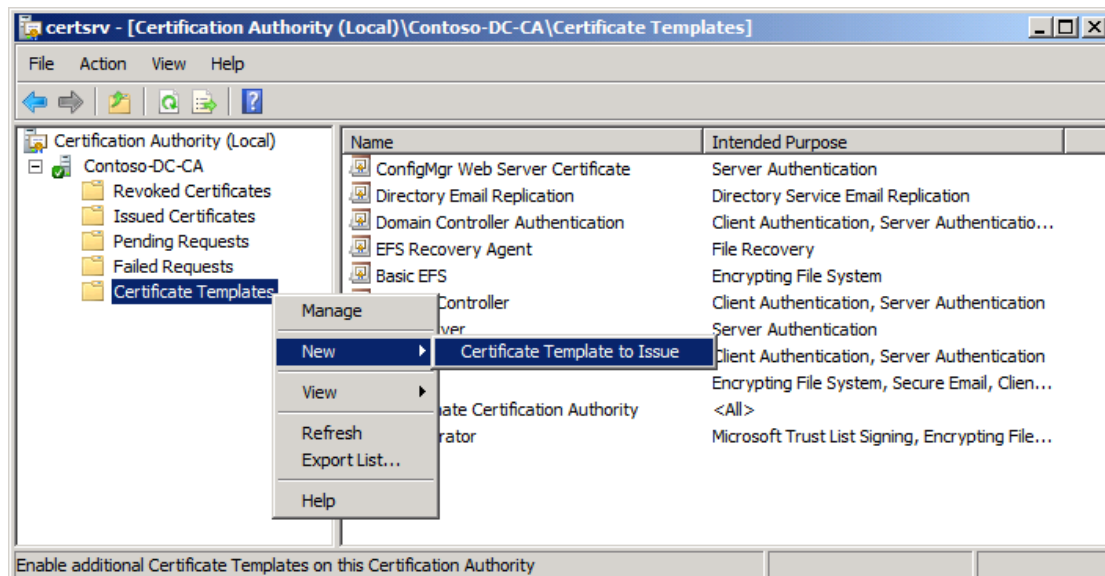


31) Click **Apply** and **OK** , you can see this new template in **Certificate**

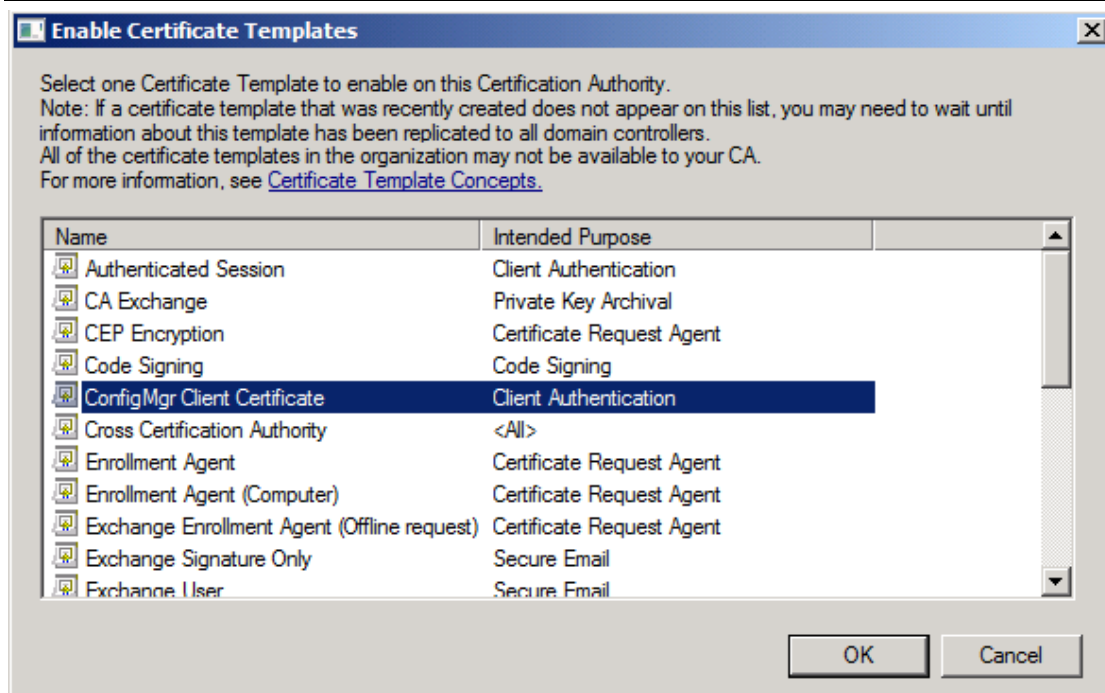
**Templates Console :**



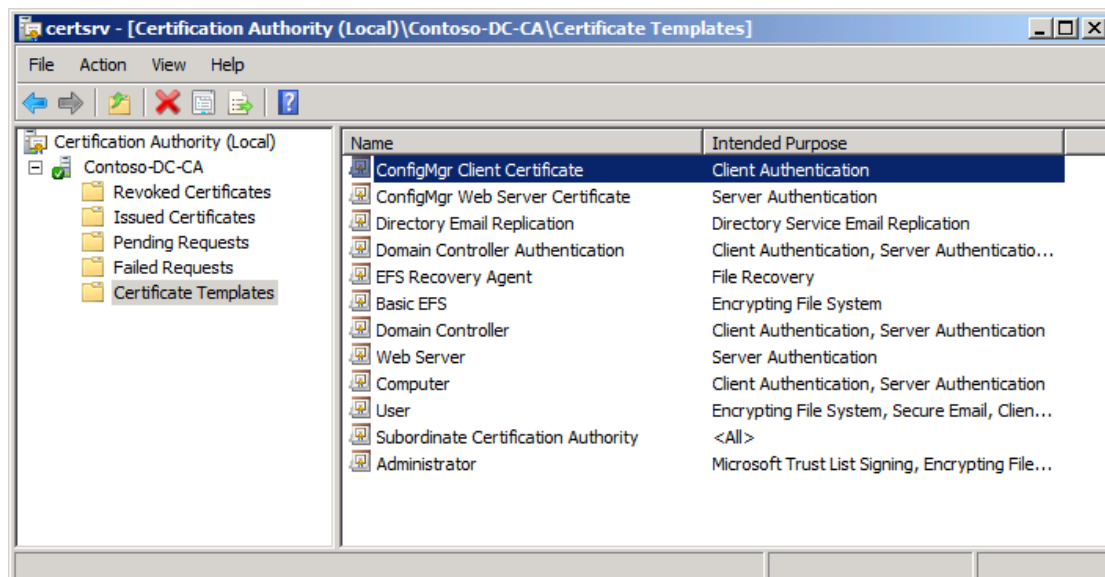
32) Close **Certificate Templates Console** , in the **Certification Authority** Console , right-click **Certificate Templates**, click **New** , and then click **Certificate Template to Issue** :



33) In the **Enable Certificate Templates** dialog box , select the new template you have just created , **ConfigMgr Client Certificate** :

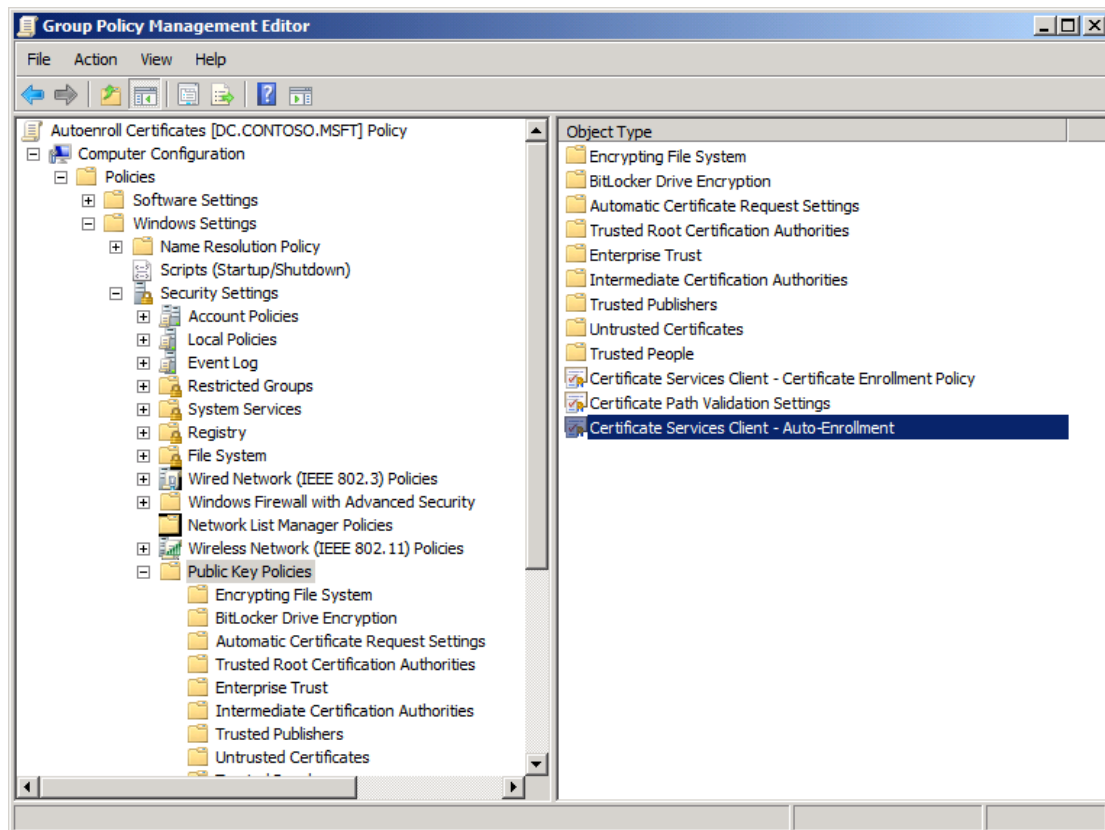


34) Click **OK** , you can see this template has already added :

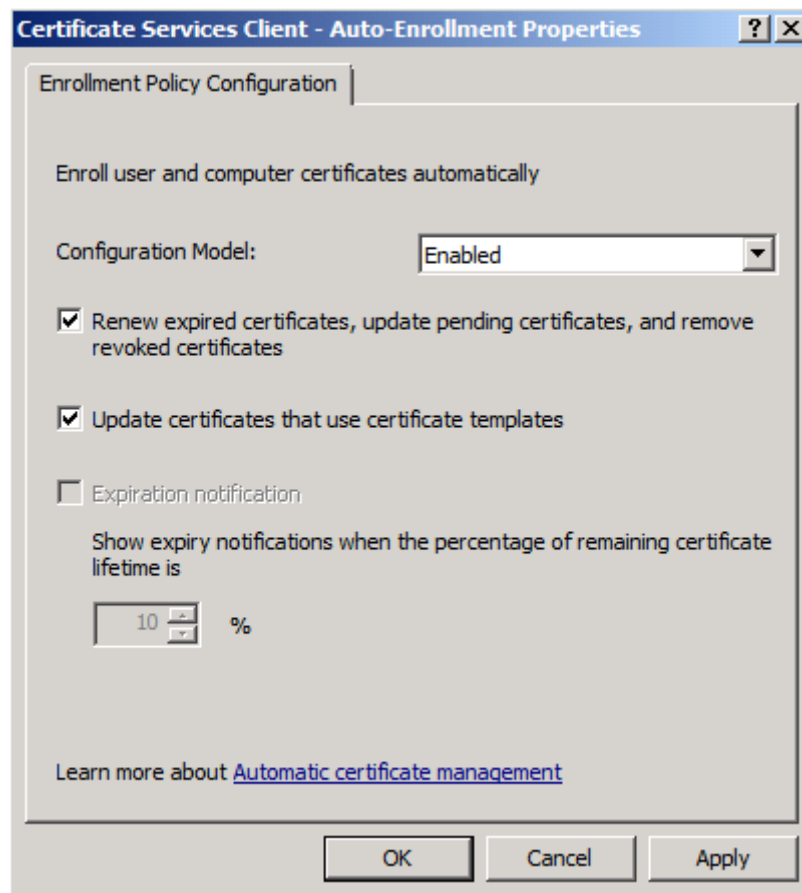


35) On the **DC** server ,Open **Group Policy Management** , Navigate to your domain , right-click the domain , and then select **Cteate a GPO in this domain** , and **Link it here**. In the **New GPO** dialog box , enter a name for the new Group Policy , such as **Autoenroll Certificates** , and click **OK**. In the results pane , on the

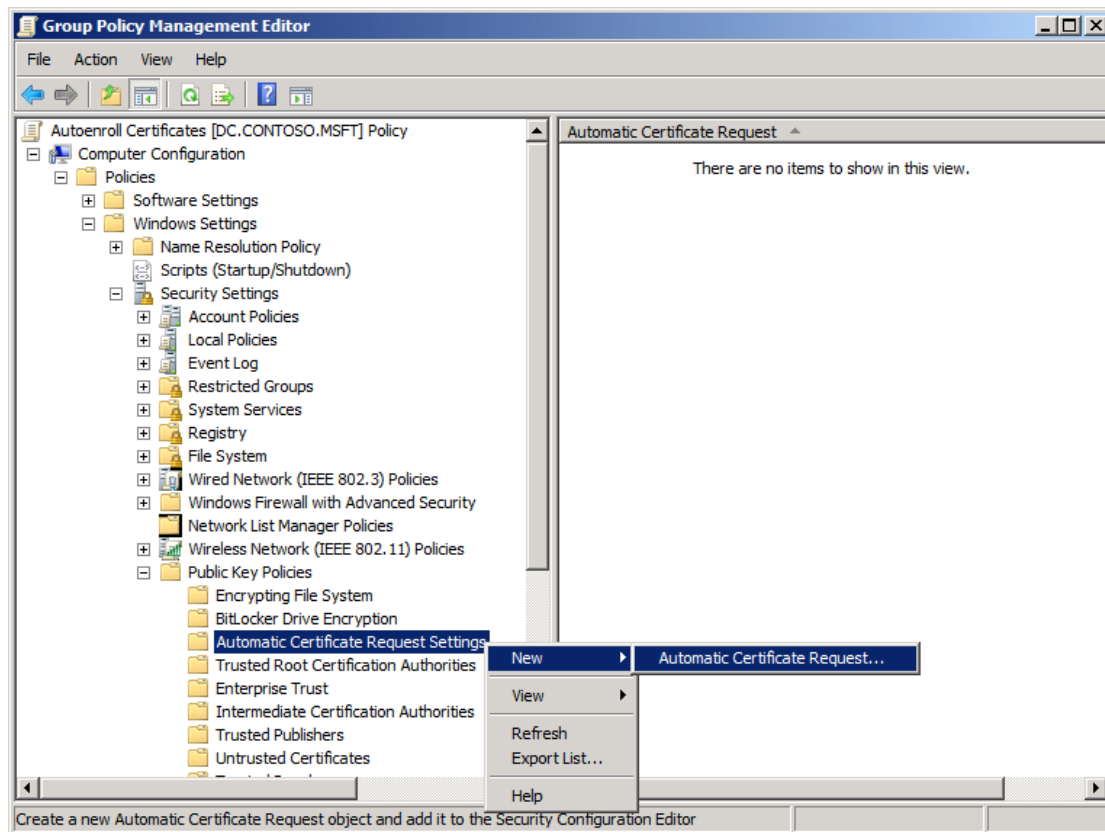
**Linked Group Policy Objects** tab , right- click the new Group Policy , and then click **Edit** . In the **Group Policy Management Editor**, expand **Polices** under **Computer Configuration** , and then navigate to **Windows Settings---Security Settings---Public Key Polices** , double-click **Certificate Services Client – Auto – Enrollment** :



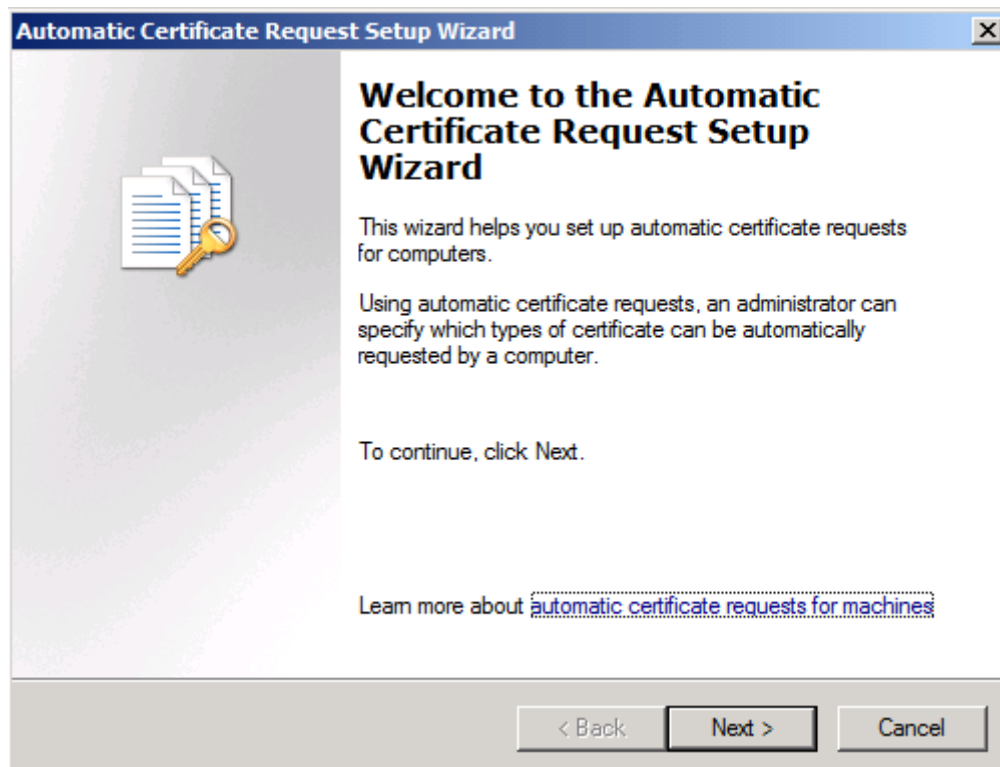
36) Display **Certificate Services Client – Auto-Enrollment Properties** , from the **Configuration Model** drop-down list , select **Enabled** , and select **Renew expired certificates** , **update pending certificates** ,and **remove revoked certificates** and **Update certificates that use certificate templates**:



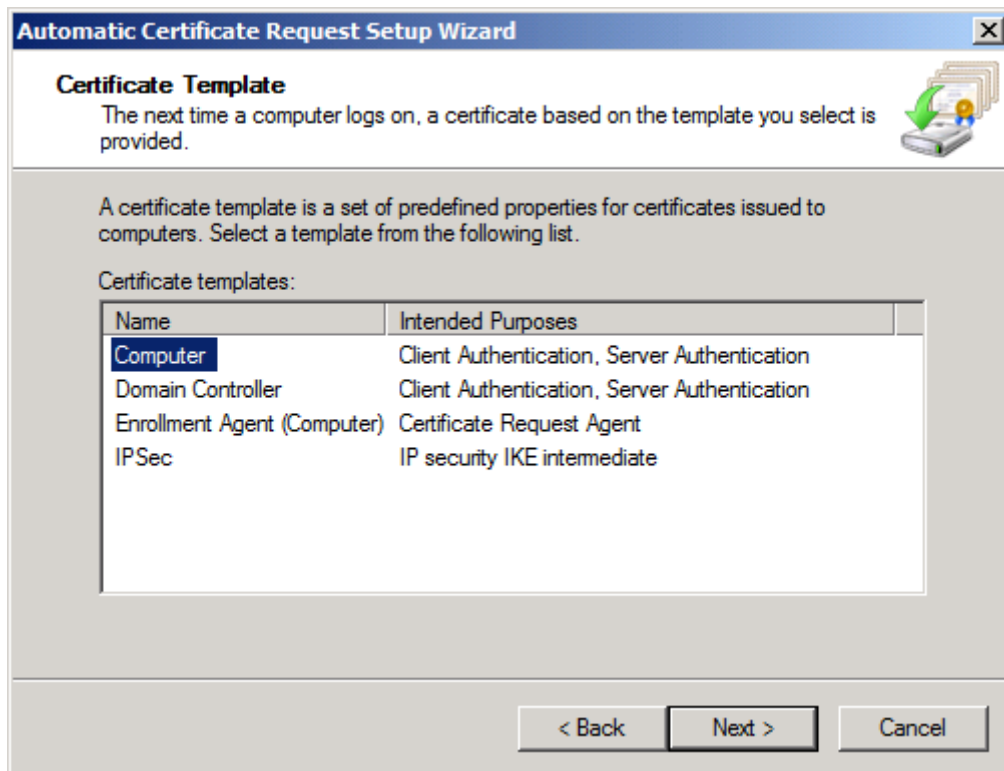
- 37) Click **OK**. Right-Click **Automatic Certificate Request Settings** , click **New** and then click **Automatic Certificate Request...** :



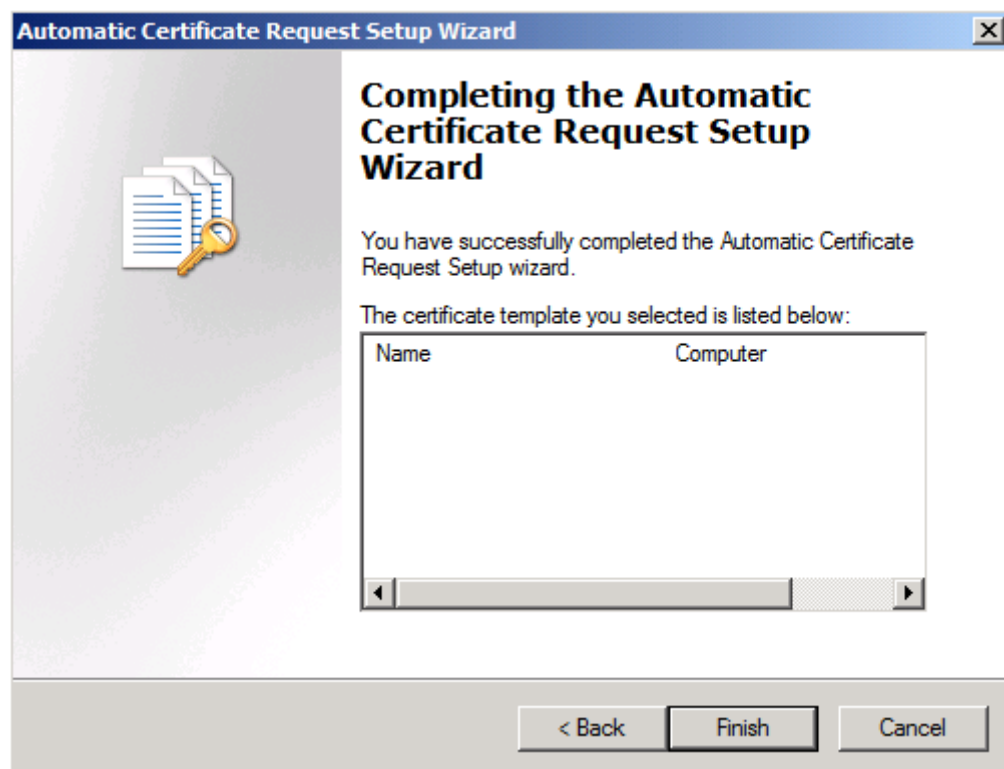
38) Display **Automatic Certificate Request Setup Wizard** :



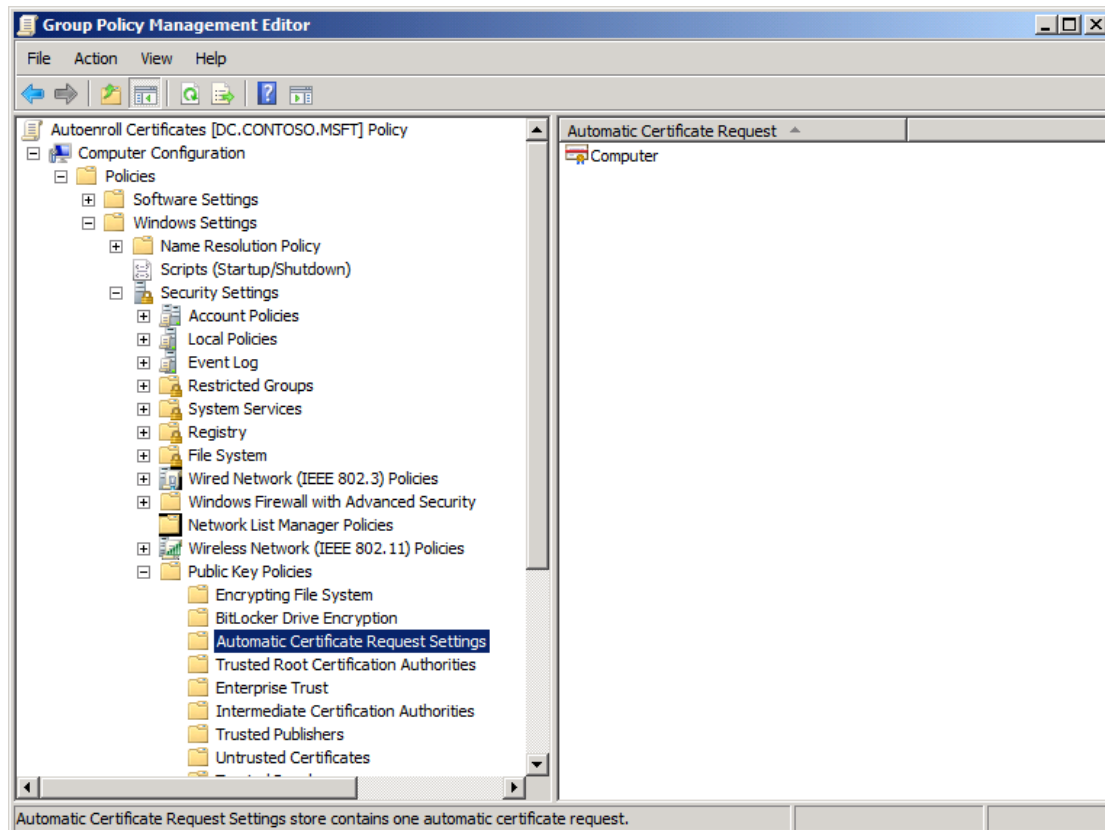
39) Click **Next** , in the **Certificate Template** page :



40) Select **Computer** and click **Next** until Complete :

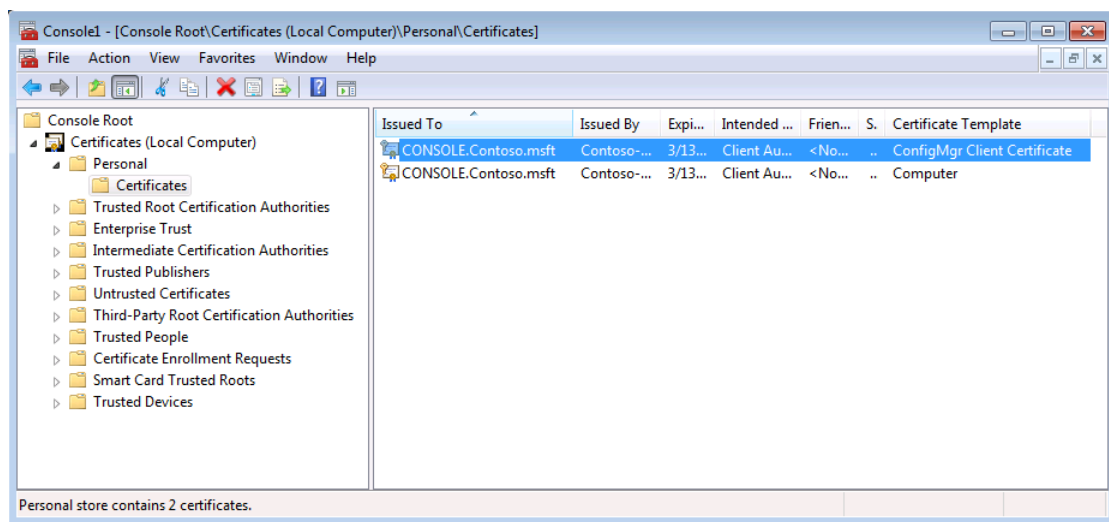


41) Click **Finish** :



42) Close **Group Policy Management**. To automatically enroll the workstation authentication certificate and verify its installation on the client computer. Restart the **Client** computer , and wait a few minutes before logging on. Logon with an account that has administrative privileges. Open Certificate snap-in mmc, select **Computer account** . In the console , expand **Certificates(Local Computer)** , expand **Personal** , and then click **Certificates** , in the results pane , confirm that a certificate is displayed that has Client Authentication displayed in the **Intended Purpose** column , and that **Configmgr Client Certificate** is displayed in the **Certificate Template** column :

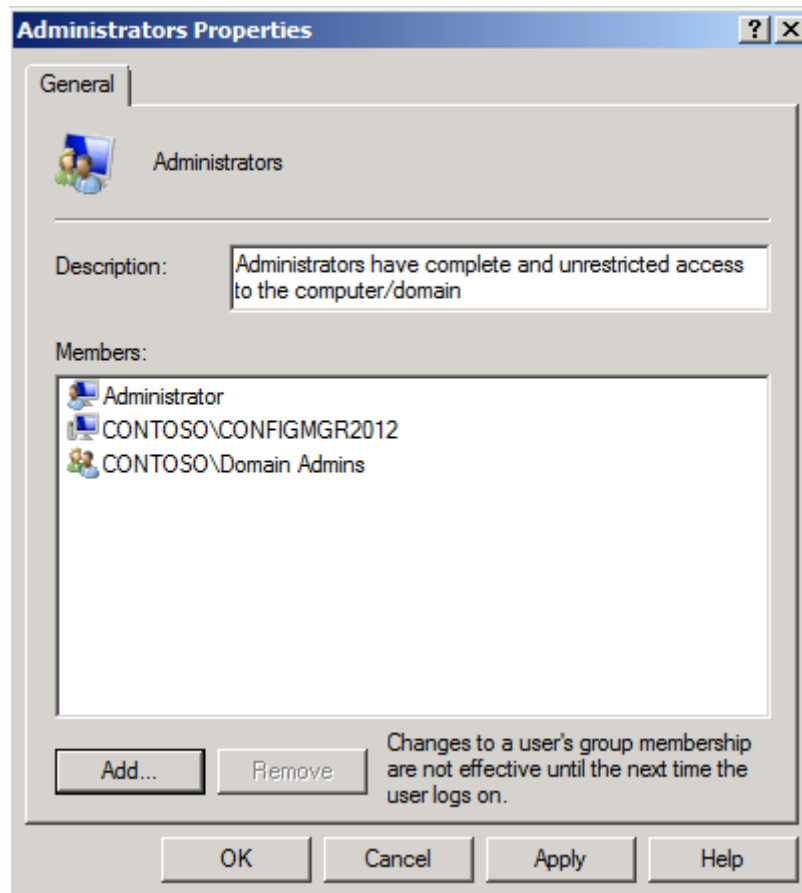
**System Center 2012  
Configuration Manager RTM  
Advanced Security Deployment Document**



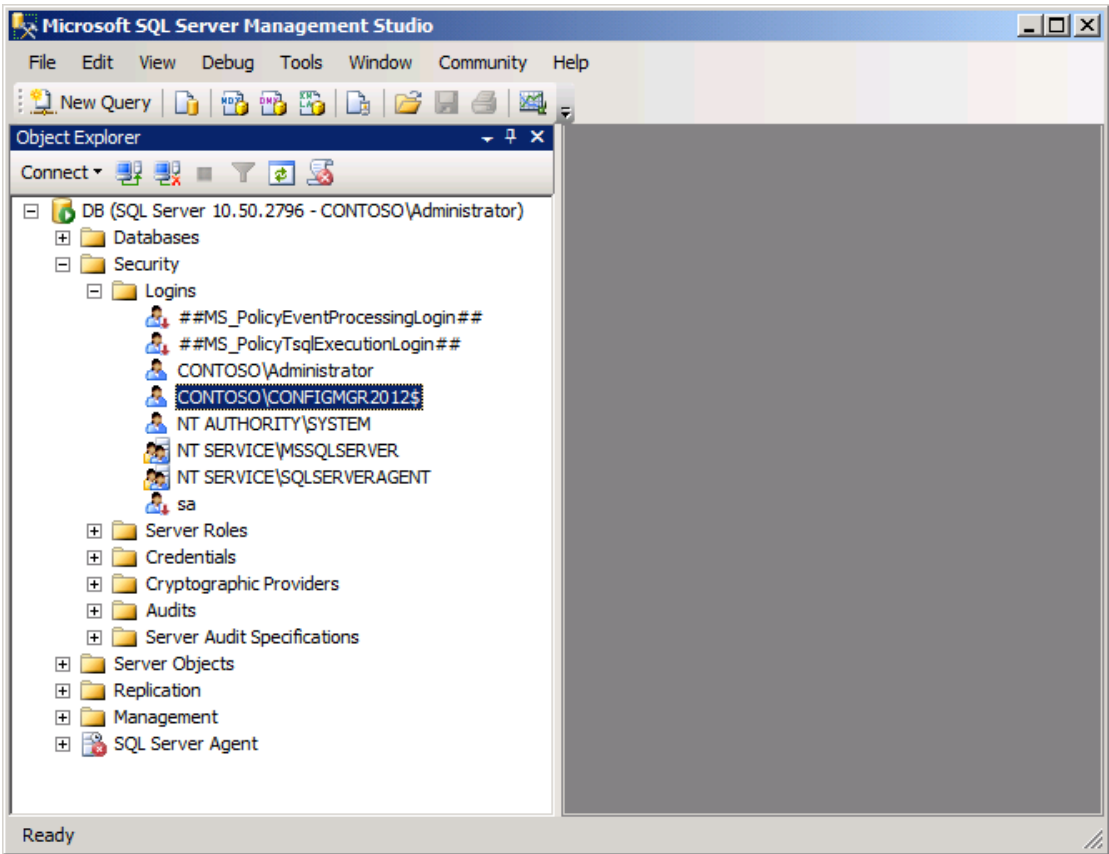
43) Close **Certificates(Local Computer)**. You can repeat these steps to verify that the server that will be configured as the management point also has a client certificate.

## 9. Install SC2012 ConfigMgr RTM Primary Site Server :

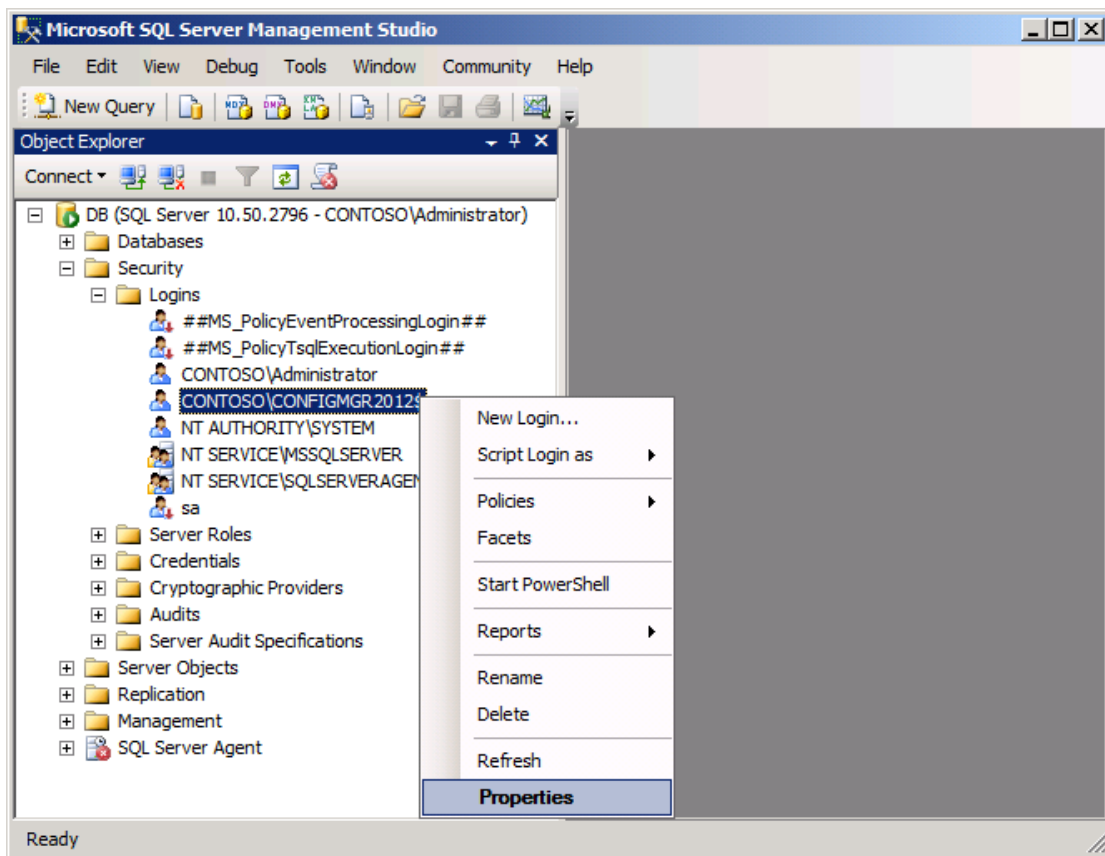
1) First , logon to **DB** server , add **ConfigMgr2012** computer account to local administrators group :



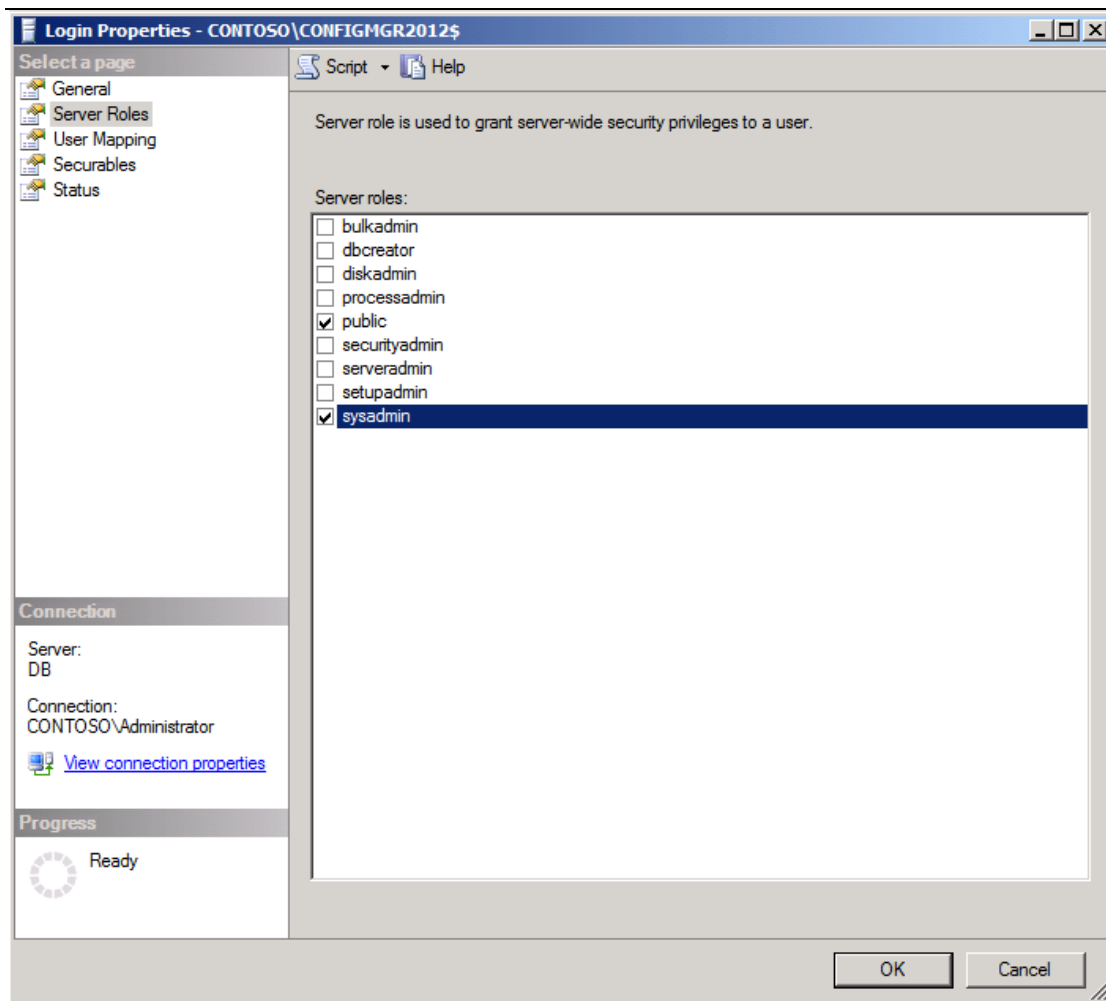
2) open **Microsoft SQL Server Management Studio** , click **Logins** node , you can see **CONFIGMGR2012\$** account :



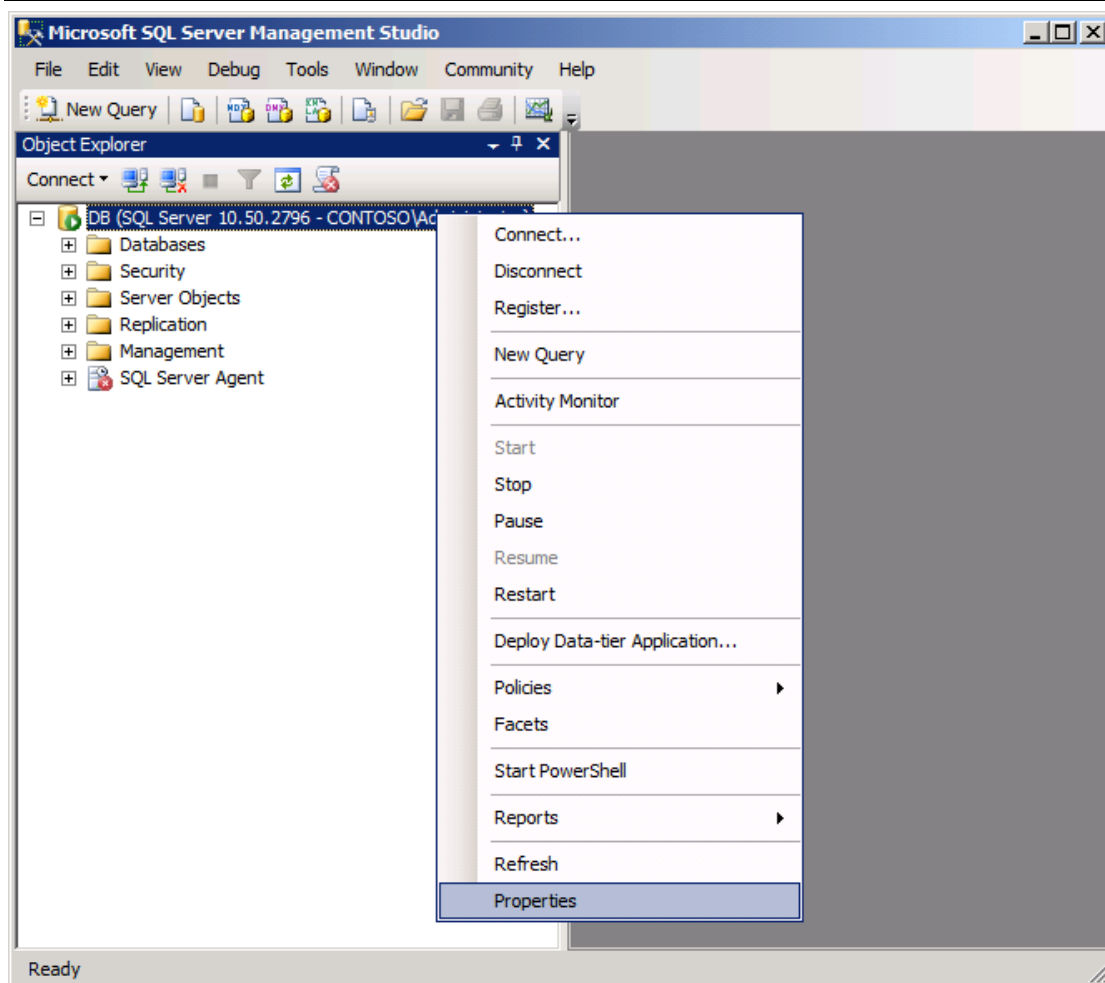
3) Right-click this account and click **Properties** :



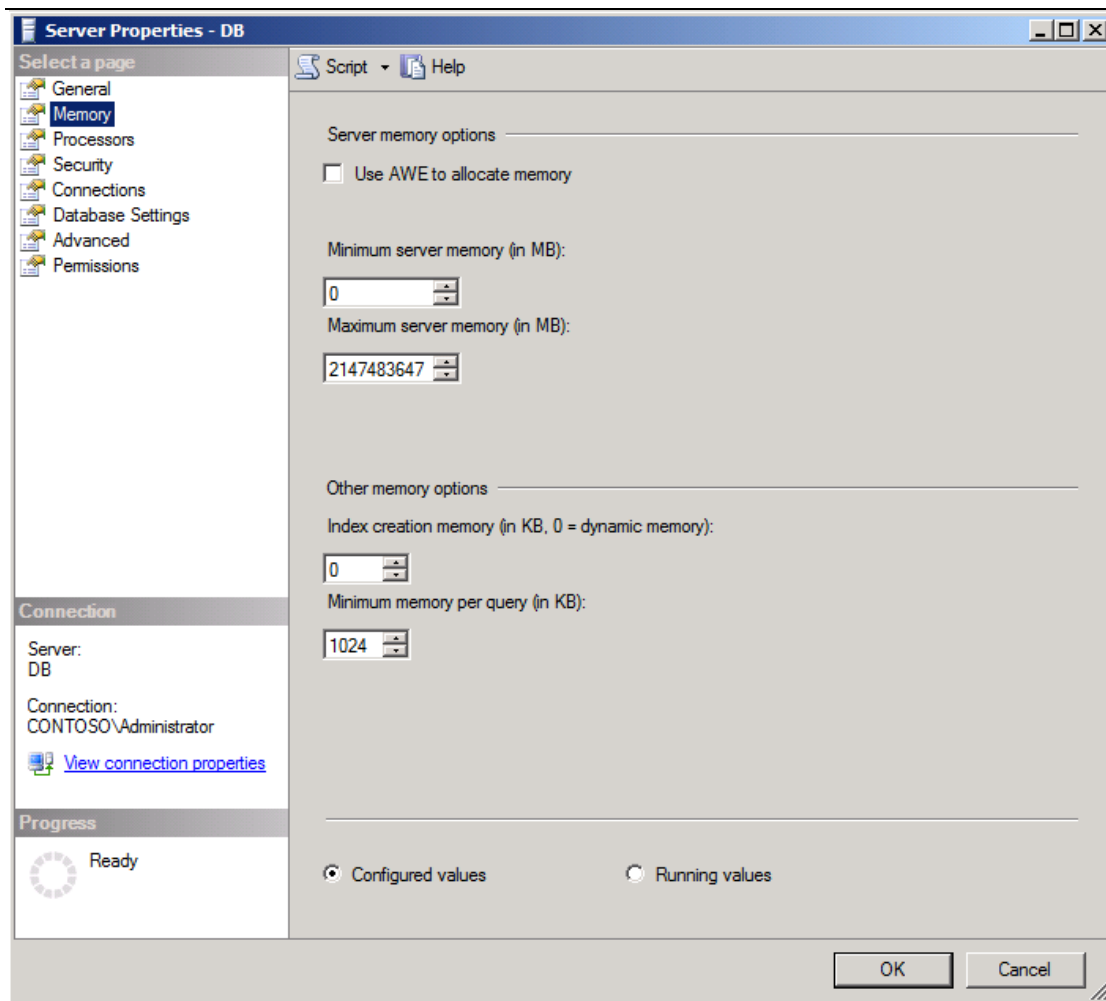
4) The Login Properties will display , click **Server Roles** item and select appropriate privilege can create database in the future , like **sysadmin**:



5) Click **OK** to finish . Right-click root node and click **Properties** :

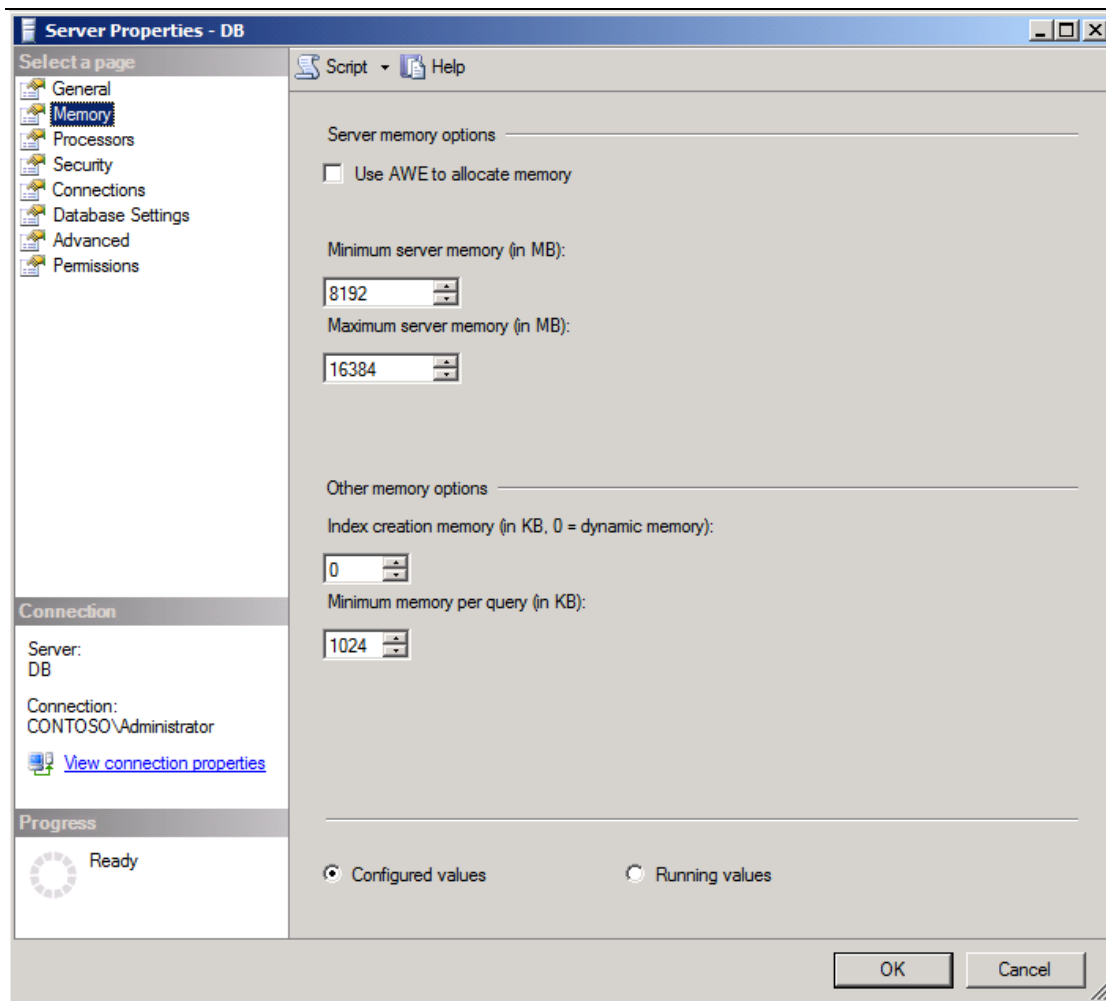


6) Click **Memory** page :



7) Fix **Minimum server memory** and **Maximum server memory** items to appropriate capacity :

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Configuration Manager RTM  
Advanced Security Deployment Document

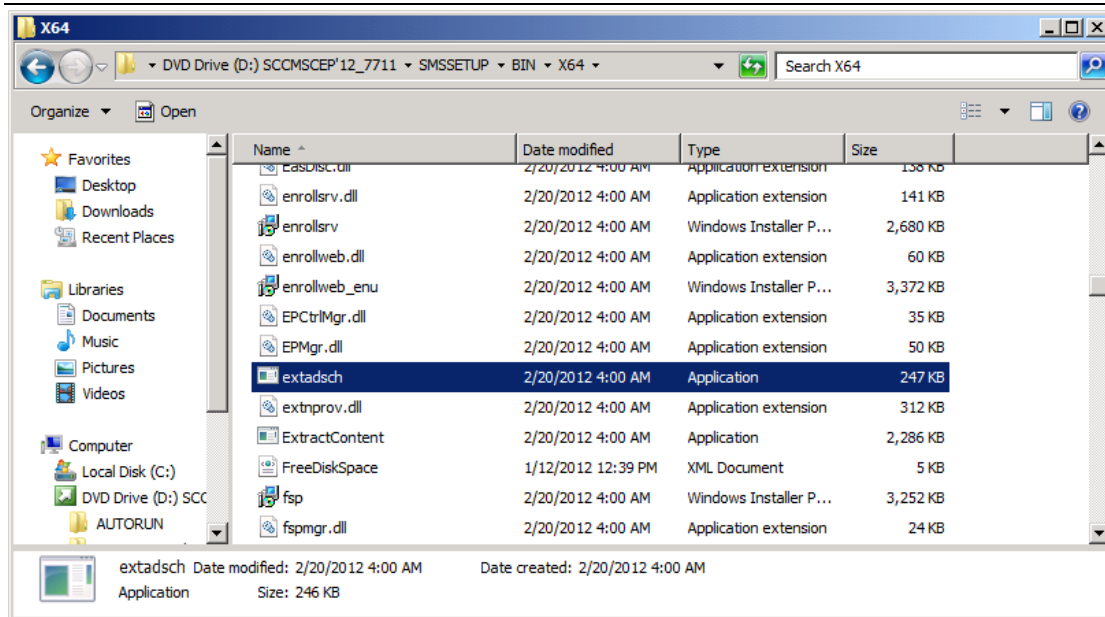


8) Click **OK** and close this console.

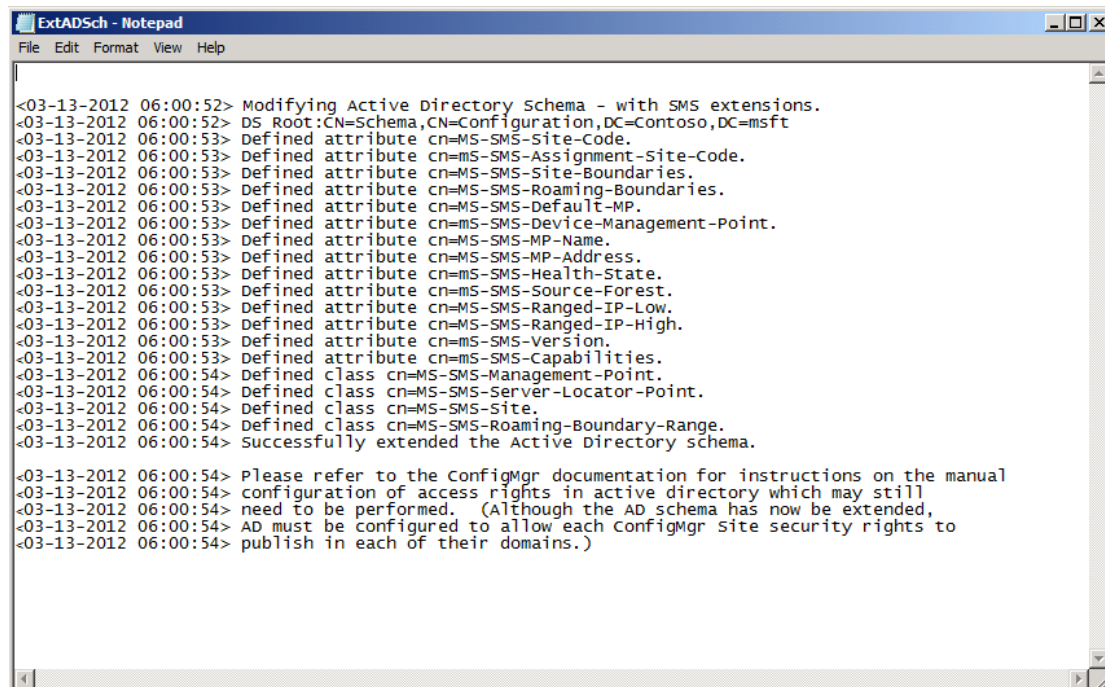
9) Logon to **DC** server , I will need to extend AD schema before install SC2012

ConfigMgr RTM. Insert SC2012 ConfigMgr RTM image , find **extadsch.exe** tool :

**System Center 2012**  
**Configuration Manager RTM**  
**Advanced Security Deployment Document**

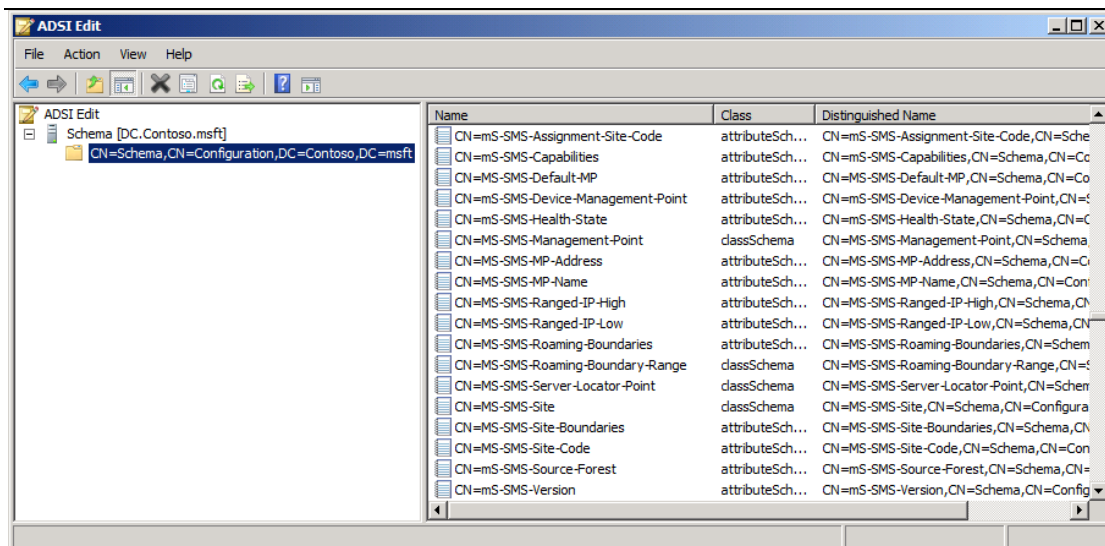


10) Double-click to run this tool , and you can check the **ExtADSch.txt log** file to verify operation successes :

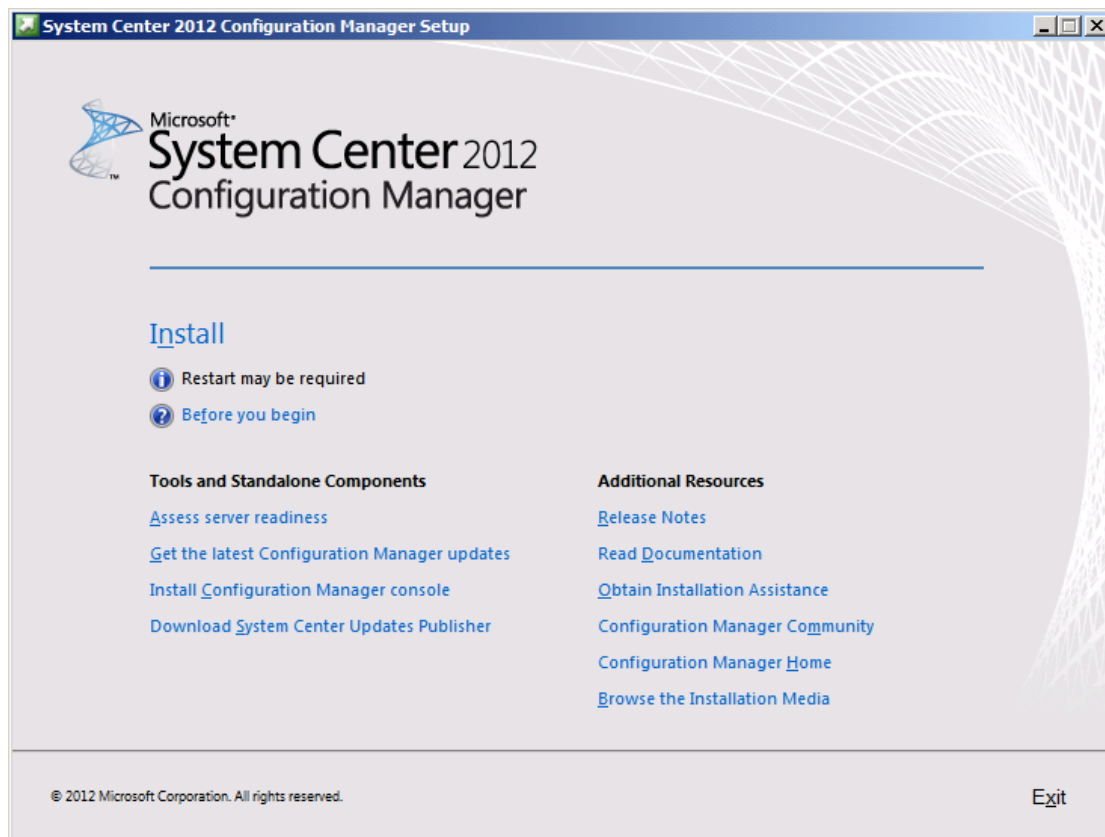


11) Open **ADSIEdit.msc** , you can see all SC2012 ConfigMgr RTM create attributes and classes :

**System Center 2012**  
**Configuration Manager RTM**  
**Advanced Security Deployment Document**



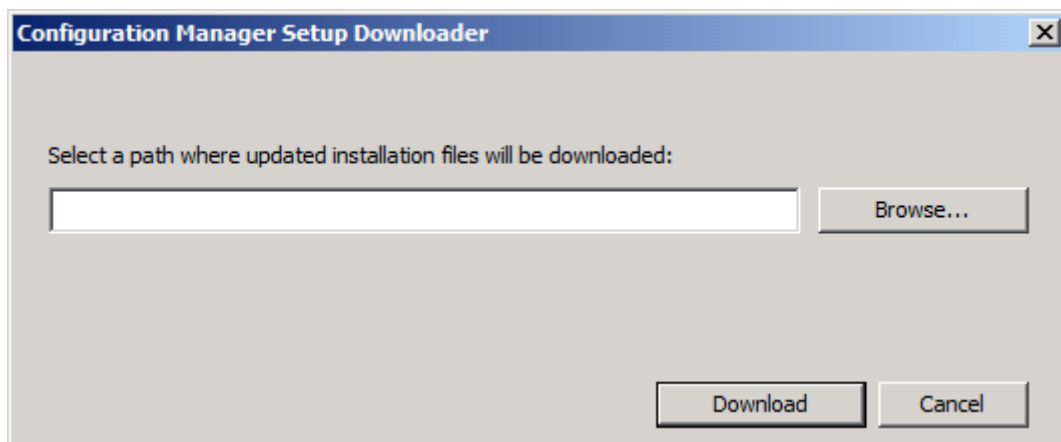
12) Logon to **ConfigMgr2012** server , insert SC2012 ConfigMgr RTM image ,  
auto-run and display install page :



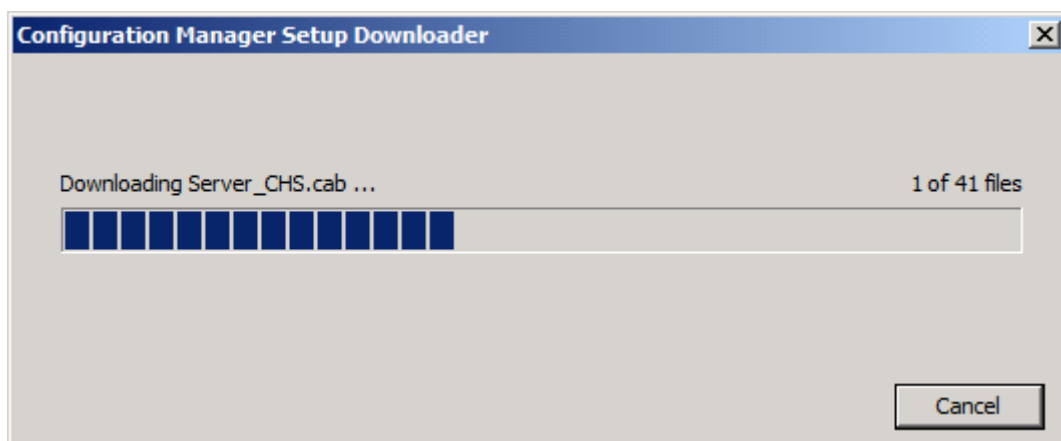
13) First , I will click **Get the latest Configuration Manager updates** to  
download SC2012 ConfigMgr RTM needed updates , **Configuration Manager**

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**Product Updater** box will display :

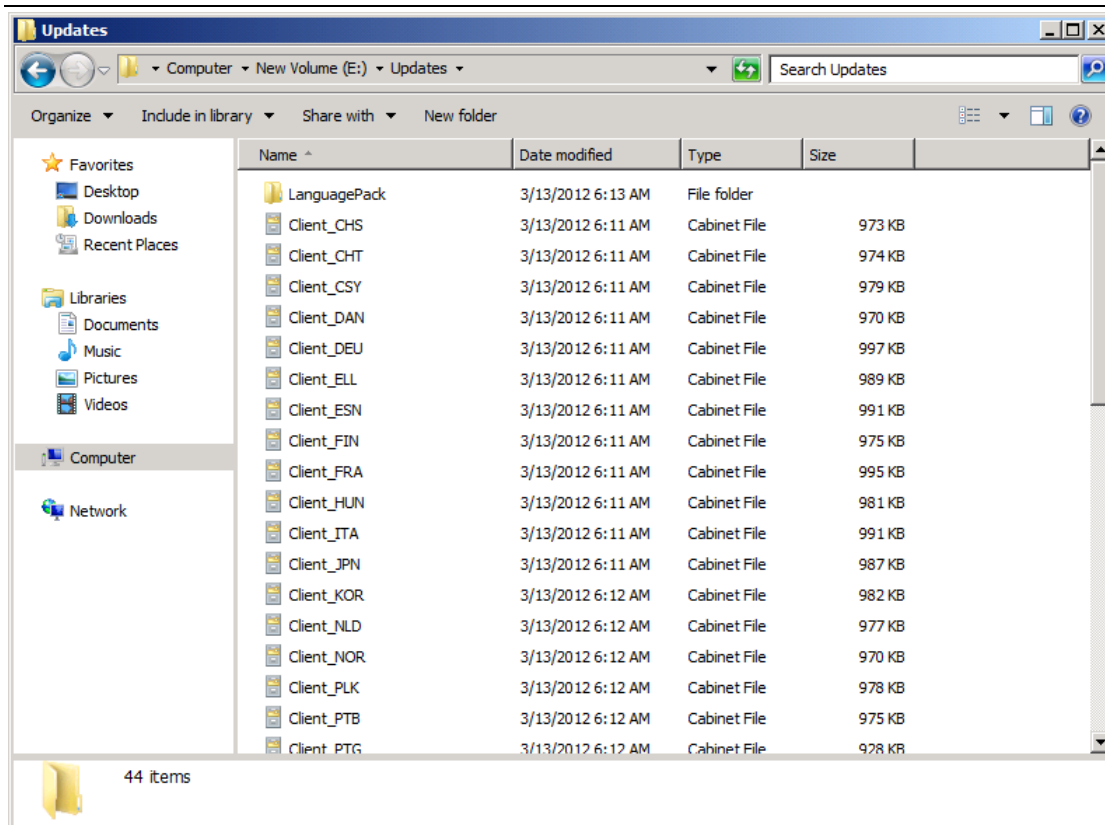


14) Click **Browse...** to define path , click **Download** will downloading all needed updates :

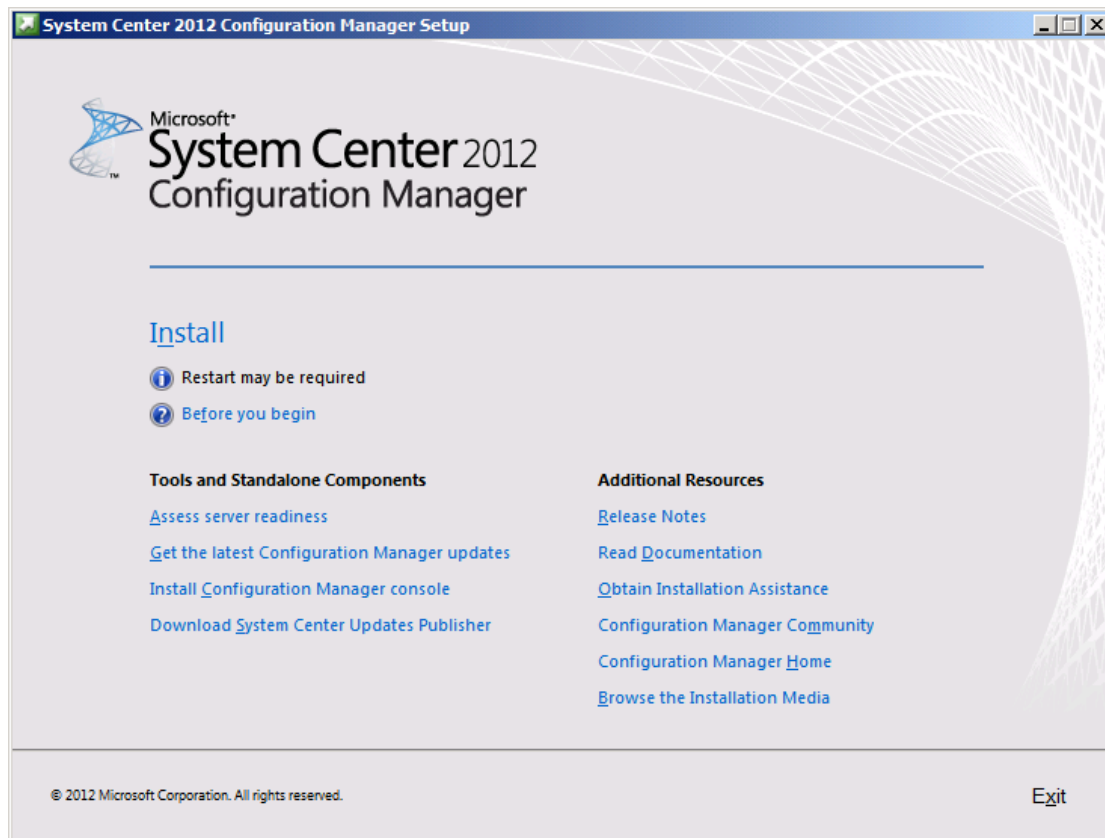


15) Please wait some minutes , you can see all downloaded updates in define path :

**System Center 2012**  
**Configuration Manager RTM**  
**Advanced Security Deployment Document**

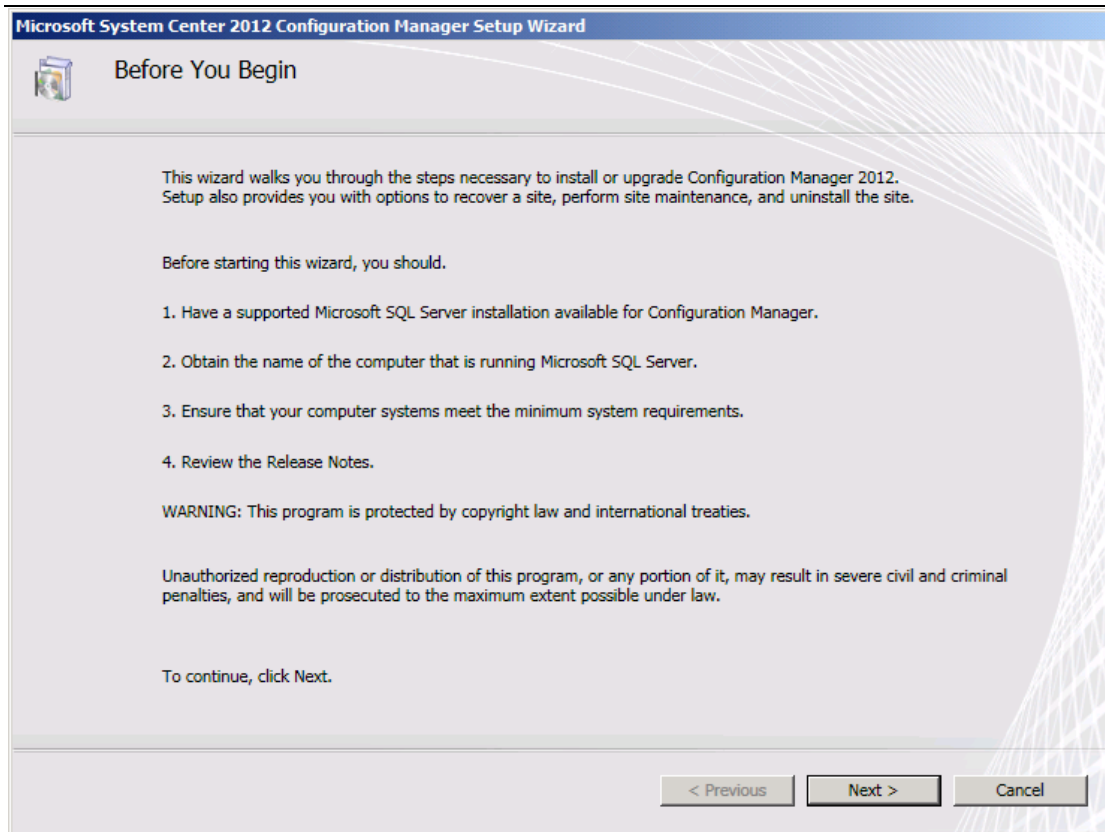


16) Now, I will officially begin installing SC2012 ConfigMgr RTM :

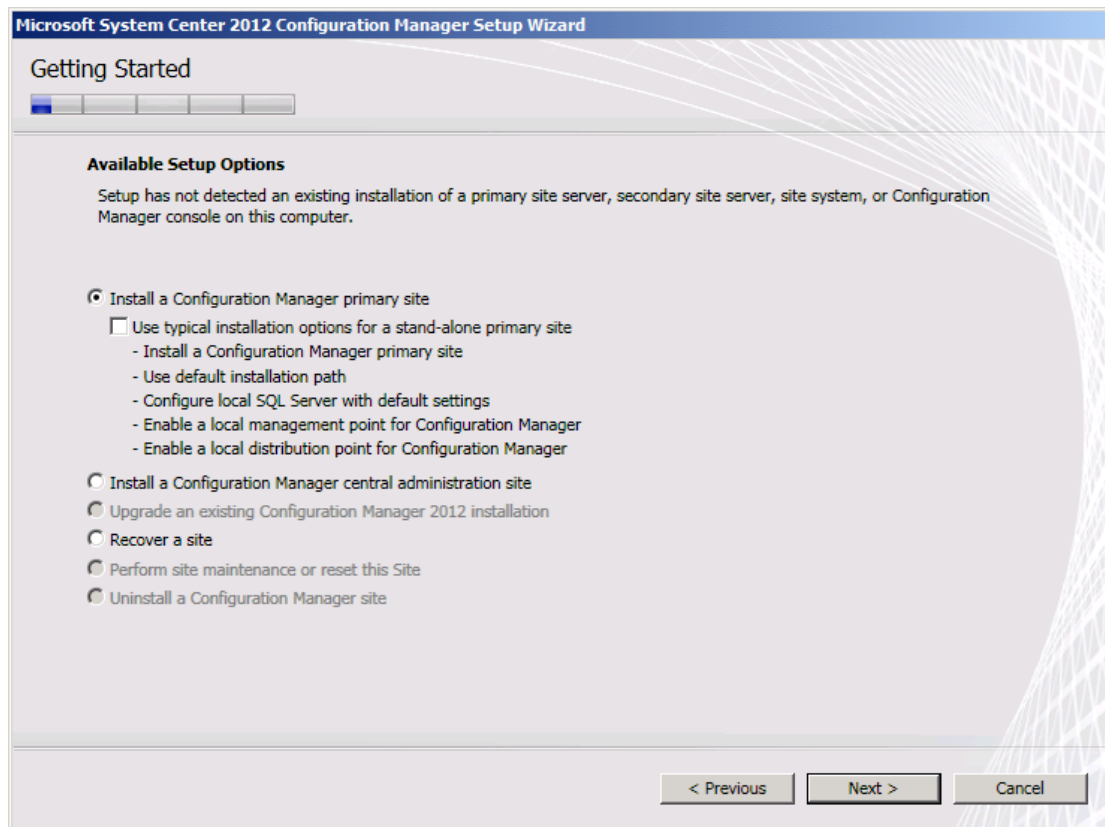


17) Click **Install** will display welcome page :

**System Center 2012  
Configuration Manager RTM  
Advanced Security Deployment Document**

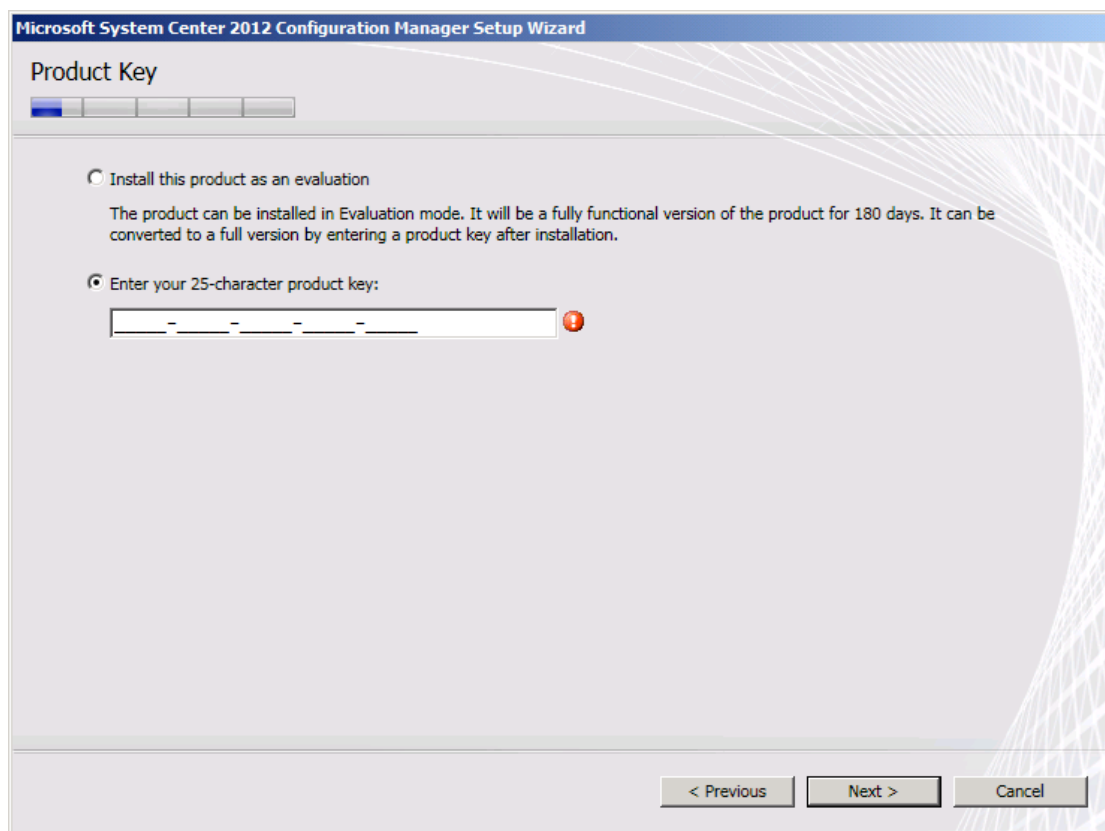


18) Click **Next** , into **Getting started** page :

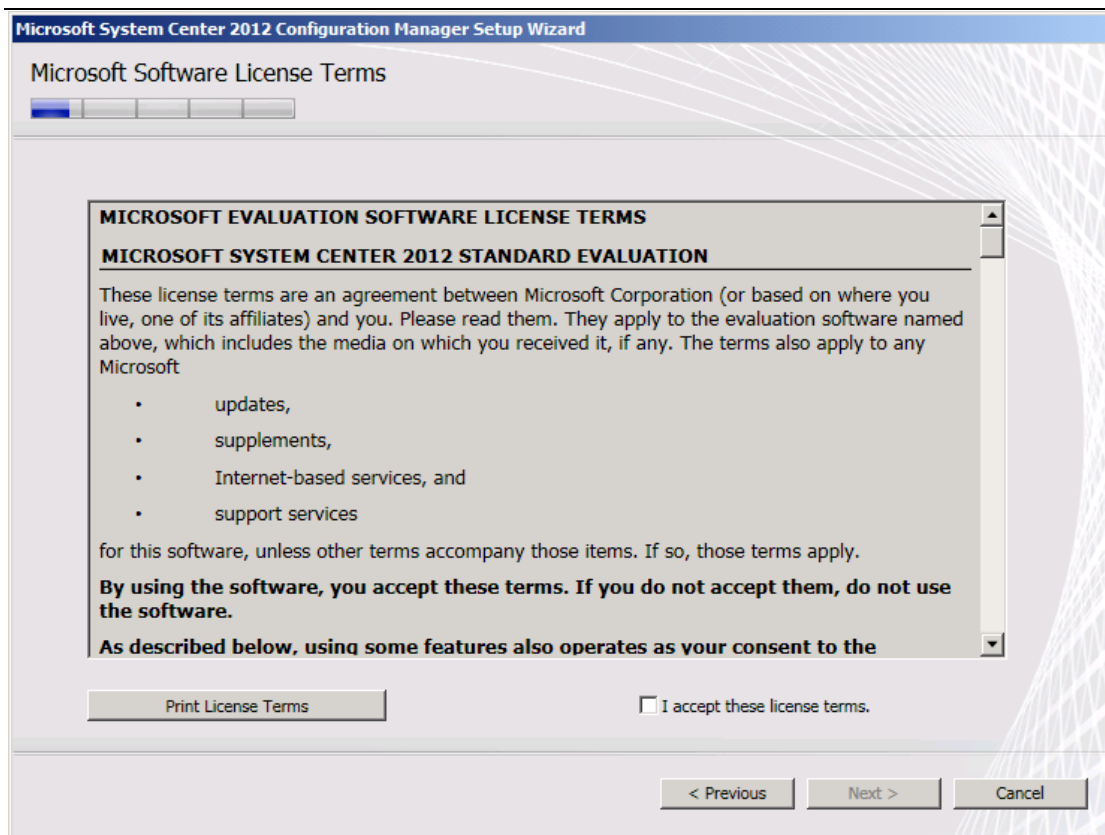


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19) You can choose **Install a Configuration Manager Primary Site server** or **Install a Configuration Manager Central Administration Site** based-on your needed . Now I will install SC2012 ConfigMgr RTM Primary Site server , so I will select **Install a Configuration Manager Primary Site server** , and unselect **Use typical installation options for a single server installation**, click **Next** , display **Product Key** page :



20) You can input product key or select **Install this product as an evaluation** to evaluate this product , click **Next** , display **Microsoft Software License Terms** page :



21) Select **I accept these license terms** , and click **Next** , into **Prerequisite**

**Licenses** page :

**System Center 2012  
Configuration Manager RTM  
Advanced Security Deployment Document**

**Microsoft System Center 2012 Configuration Manager Setup Wizard**

**Prerequisite Licenses**

During Setup, Configuration Manager will download and store the following software on the site server and then automatically install the software on the site systems or client computers as required. See the [Configuration Manager Privacy Statement](#) for more information.

**Microsoft SQL Server 2008 R2 Express**  
[View the Microsoft SQL Server 2008 R2 Express License Terms](#)  
☐ I accept these License Terms

**Microsoft SQL Server 2008 Native Client**  
[View the Microsoft SQL Server 2008 Native Client License Terms](#)  
☐ I accept these License Terms

**Microsoft Silverlight 4**  
This software will automatically update after installation.  
[View the Microsoft Silverlight 4 License Terms online](#)  
[View the Microsoft Silverlight 4 Privacy Statement online](#)  
☐ I accept these License Terms and automatic updates of Silverlight

< Previous    Next >    Cancel

22) Select all items :

**Microsoft System Center 2012 Configuration Manager Setup Wizard**

**Prerequisite Licenses**

During Setup, Configuration Manager will download and store the following software on the site server and then automatically install the software on the site systems or client computers as required. See the [Configuration Manager Privacy Statement](#) for more information.

**Microsoft SQL Server 2008 R2 Express**  
[View the Microsoft SQL Server 2008 R2 Express License Terms](#)  
☒ I accept these License Terms

**Microsoft SQL Server 2008 Native Client**  
[View the Microsoft SQL Server 2008 Native Client License Terms](#)  
☒ I accept these License Terms

**Microsoft Silverlight 4**  
This software will automatically update after installation.  
[View the Microsoft Silverlight 4 License Terms online](#)  
[View the Microsoft Silverlight 4 Privacy Statement online](#)  
☒ I accept these License Terms and automatic updates of Silverlight

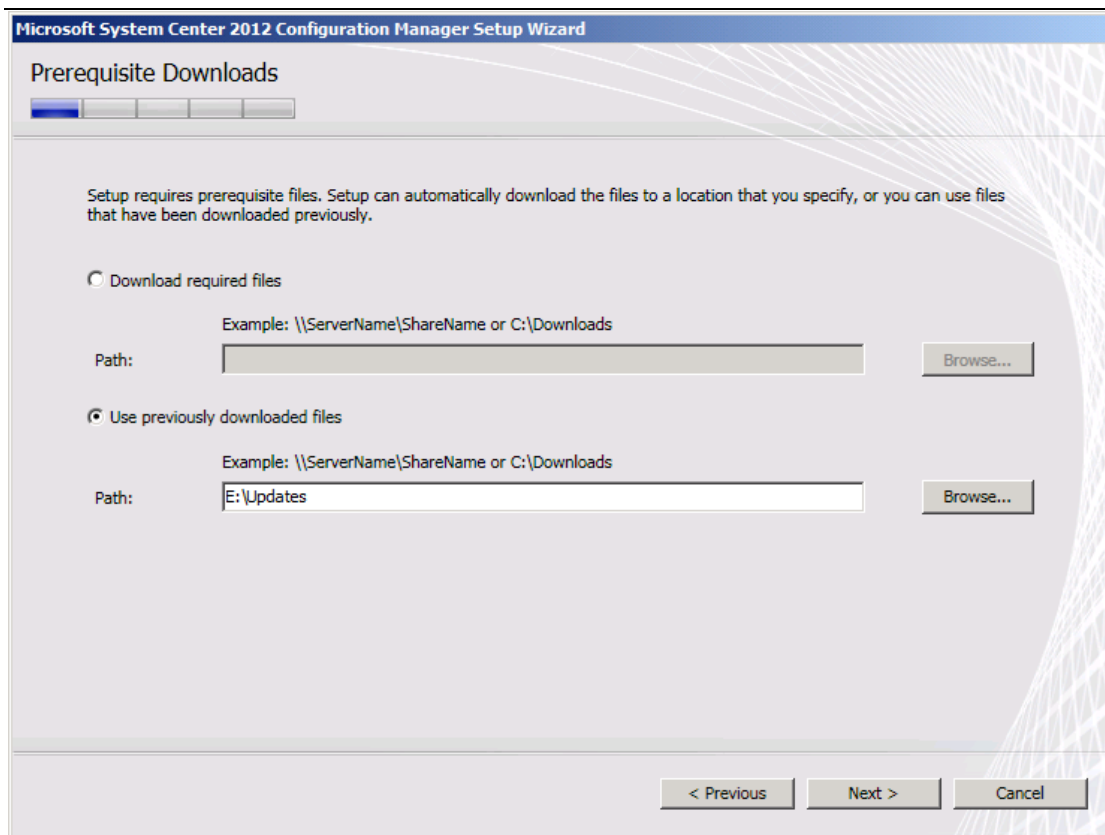
< Previous    Next >    Cancel

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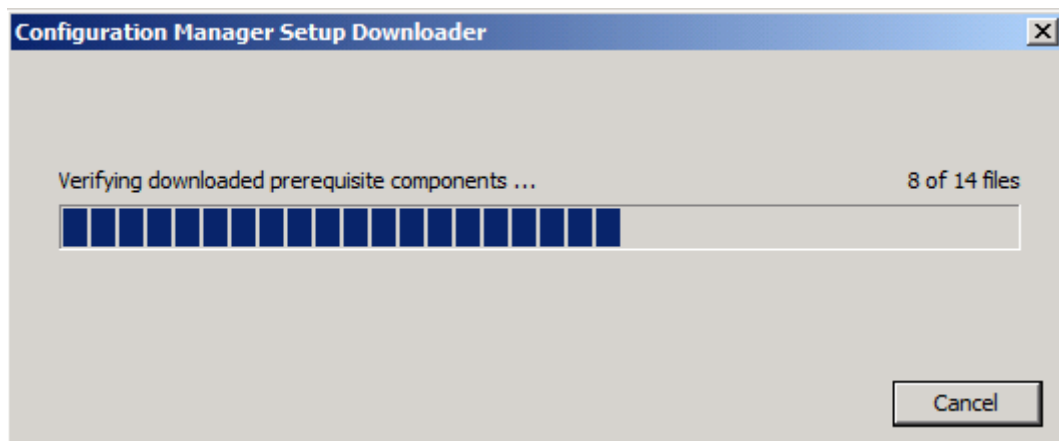
23) Click **Next** , into **Prerequisite Downloads** page :

The screenshot shows the 'Prerequisite Downloads' window of the Microsoft System Center 2012 Configuration Manager Setup Wizard. The window has a title bar and a progress indicator at the top. The main content area contains instructions: 'Setup requires prerequisite files. Setup can automatically download the files to a location that you specify, or you can use files that have been downloaded previously.' There are two radio button options: 'Download required files' (selected) and 'Use previously downloaded files'. Each option has a 'Path:' label, an example text 'Example: \\ServerName\ShareName or C:\Downloads', a text input field, and a 'Browse...' button. At the bottom, there are three buttons: '< Previous', 'Next >', and 'Cancel'.

24) Because we already downloaded all updates , so we can select **Use previously downloaded files** and click **Browse...**to specify path :



25) Click **Next** , start to verifying updates:



26) Wait some minutes , into **Server Language Selection** page :

Microsoft System Center 2012 Configuration Manager Setup Wizard

### Server Language Selection

Select the server languages that Configuration Manager displays in the Configuration Manager console and reports.

Configuration Manager installs support for the languages that you select and uses the display language of the server that runs the Configuration Manager console or reports. English is the default language and it is used when Configuration Manager does not support the display language.

You can modify the server languages if you run setup again and select the Site Maintenance option.

Currently Supported Languages:

	Name	Availability	State
<input checked="" type="checkbox"/>	English	Not Downloaded	Installed
<input type="checkbox"/>	French	Downloaded	Not Installed
<input type="checkbox"/>	German	Downloaded	Not Installed
<input type="checkbox"/>	Chinese Simplified	Downloaded	Not Installed
<input type="checkbox"/>	Japanese	Downloaded	Not Installed
<input type="checkbox"/>	Russian	Downloaded	Not Installed

< Previous      Next >      Cancel

27) You can choose your needed language :

Microsoft System Center 2012 Configuration Manager Setup Wizard

### Server Language Selection

Select the server languages that Configuration Manager displays in the Configuration Manager console and reports.

Configuration Manager installs support for the languages that you select and uses the display language of the server that runs the Configuration Manager console or reports. English is the default language and it is used when Configuration Manager does not support the display language.

You can modify the server languages if you run setup again and select the Site Maintenance option.

Currently Supported Languages:

	Name	Availability	State
<input checked="" type="checkbox"/>	English	Not Downloaded	Installed
<input type="checkbox"/>	French	Downloaded	Not Installed
<input type="checkbox"/>	German	Downloaded	Not Installed
<input checked="" type="checkbox"/>	Chinese Simplified	Downloaded	Pending Install
<input type="checkbox"/>	Japanese	Downloaded	Not Installed
<input type="checkbox"/>	Russian	Downloaded	Not Installed

< Previous      Next >      Cancel

28) Click **Next** , into **Client Language Selection** page :

The screenshot shows the 'Client Language Selection' window of the Microsoft System Center 2012 Configuration Manager Setup Wizard. The window has a title bar and a progress bar at the top. Below the title bar, the text reads: 'Select the client languages for Configuration Manager to support. When you select a client language and it matches the display language of a client computer, the Configuration Manager client displays that language. English is the default language and it is used when Configuration Manager does not support the display language. You can modify the client languages if you run setup again and select the Site Maintenance option.' Below this text, there is a section titled 'Currently Supported Languages:' followed by a table. The table has four columns: 'Name', 'Availability', and 'State'. The 'Name' column lists various languages with checkboxes. The 'Availability' column shows the status of each language (e.g., 'Not Downloaded', 'Downloaded'). The 'State' column shows the installation status (e.g., 'Installed', 'Not Installed'). At the bottom of the table, there is a checkbox labeled 'Enable all languages for mobile device clients'. At the bottom of the window, there are three buttons: '< Previous', 'Next >', and 'Cancel'.

	Name	Availability	State
<input checked="" type="checkbox"/>	English	Not Downloaded	Installed
<input type="checkbox"/>	French	Downloaded	Not Installed
<input type="checkbox"/>	German	Downloaded	Not Installed
<input type="checkbox"/>	Chinese Simplified	Downloaded	Not Installed
<input type="checkbox"/>	Japanese	Downloaded	Not Installed
<input type="checkbox"/>	Russian	Downloaded	Not Installed
<input type="checkbox"/>	Chinese Traditional	Downloaded	Not Installed
<input type="checkbox"/>	Czech	Downloaded	Not Installed
<input type="checkbox"/>	Danish	Downloaded	Not Installed
<input type="checkbox"/>	Greek	Downloaded	Not Installed
<input type="checkbox"/>	Spanish	Downloaded	Not Installed

☐ Enable all languages for mobile device clients

< Previous    Next >    Cancel

29) You can choose language that your managed client :

Microsoft System Center 2012 Configuration Manager Setup Wizard

### Client Language Selection

Select the client languages for Configuration Manager to support.

When you select a client language and it matches the display language of a client computer, the Configuration Manager client displays that language. English is the default language and it is used when Configuration Manager does not support the display language.

You can modify the client languages if you run setup again and select the Site Maintenance option.

Currently Supported Languages:

	Name	Availability	State
<input checked="" type="checkbox"/>	English	Not Downloaded	Installed
<input type="checkbox"/>	French	Downloaded	Not Installed
<input type="checkbox"/>	German	Downloaded	Not Installed
<input checked="" type="checkbox"/>	Chinese Simplified	Downloaded	Pending Install
<input type="checkbox"/>	Japanese	Downloaded	Not Installed
<input type="checkbox"/>	Russian	Downloaded	Not Installed
<input type="checkbox"/>	Chinese Traditional	Downloaded	Not Installed
<input type="checkbox"/>	Czech	Downloaded	Not Installed
<input type="checkbox"/>	Danish	Downloaded	Not Installed
<input type="checkbox"/>	Greek	Downloaded	Not Installed
<input type="checkbox"/>	Spanish	Downloaded	Not Installed

☐ Enable all languages for mobile device clients


< Previous      Next >      Cancel

30) Click **Next** , into **Site and Installation Settings** page :


Microsoft System Center 2012 Configuration Manager Setup Wizard

### Site and Installation Settings

The site code will be used to uniquely identify this Configuration Manager site in your hierarchy.

Site code:  

Specify a site name that helps to identify the site. (Example: Contoso Headquarters Site)

Site name:  

Note:  
The site code must be unique in the Configuration Manager hierarchy and cannot be changed after you install the site.

Installation folder:

Specify whether to install the Configuration Manager console to manage the Configuration Manager site from this computer. You can remotely manage the site when you do not install the configuration Manager console.

☒ Install the Configuration Manager console

< Previous      Next >      Cancel

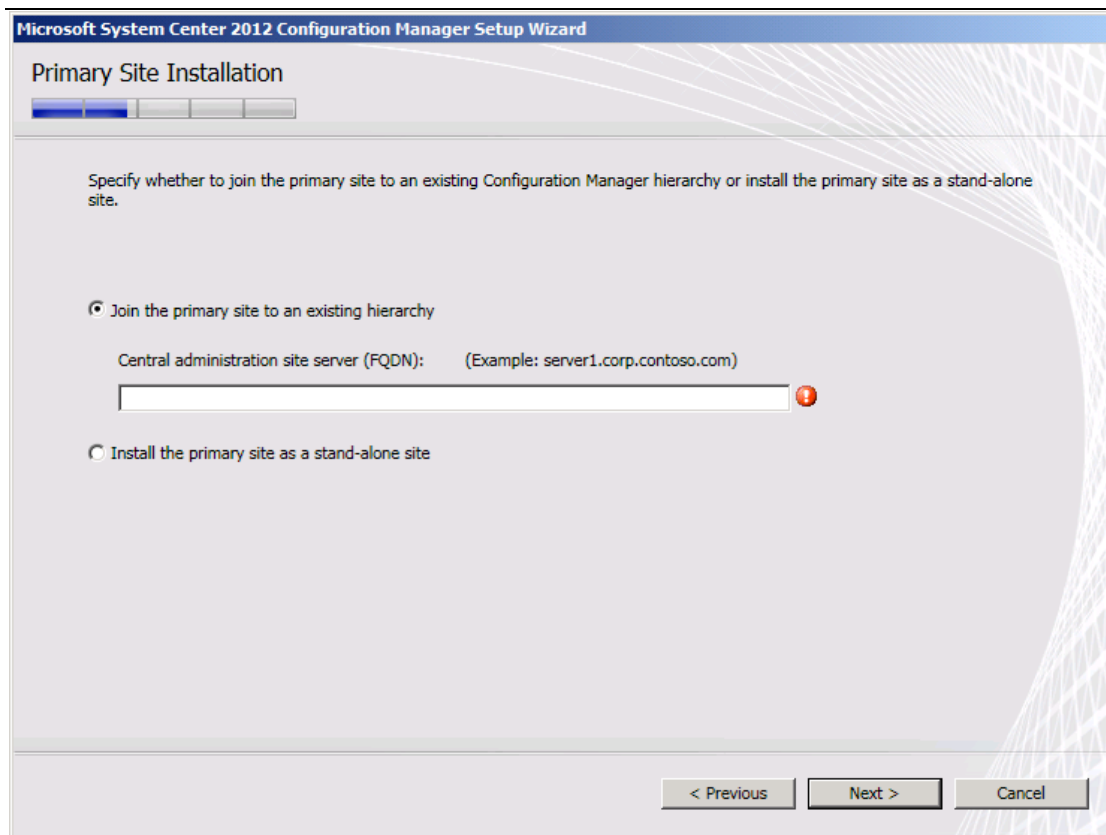
31) In **Site code** box, you need to assign site code, and setting site name in the

**Site name** box , in **Installation folder** box , you need to setting install path :

The screenshot shows the 'Microsoft System Center 2012 Configuration Manager Setup Wizard' window, specifically the 'Site and Installation Settings' page. The window has a blue title bar and a progress bar at the top. The main content area is light gray with a subtle grid pattern. It contains the following elements:

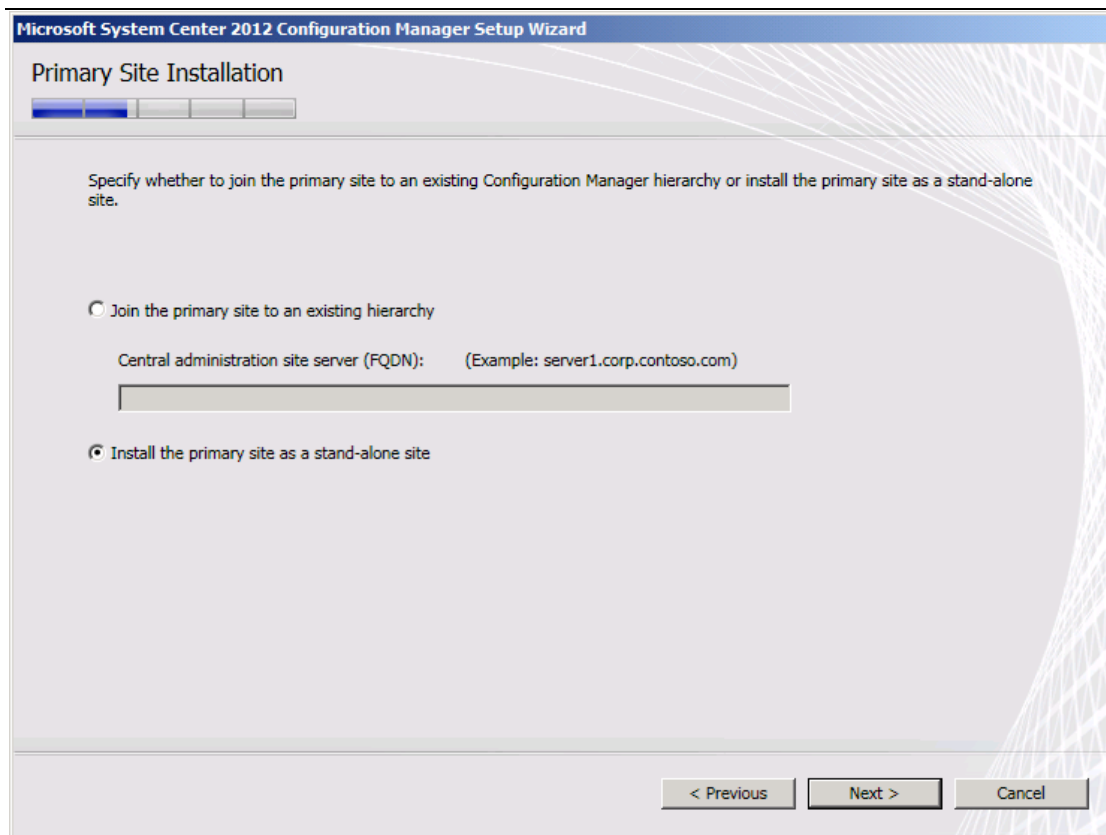
- A progress bar with five steps, the first of which is highlighted.
- A text box for 'Site code' containing the value 'MCM'.
- A text box for 'Site name' containing the value 'SC2012\_ConfigMgr\_Primary\_Site'.
- A 'Note' section stating: 'The site code must be unique in the Configuration Manager hierarchy and cannot be changed after you install the site.'
- A text box for 'Installation folder' containing the path 'E:\Program Files\Microsoft Configuration Manager', with a 'Browse...' button to its right.
- A checkbox labeled 'Install the Configuration Manager console' which is checked.
- Navigation buttons at the bottom: '< Previous', 'Next >', and 'Cancel'.

32) Click **Next** , into **Primary Site Installation** page :

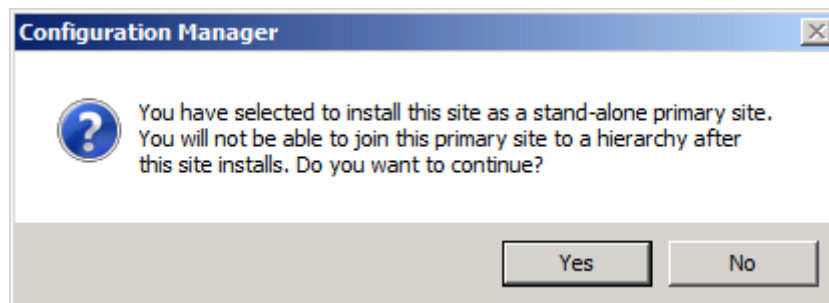


33) Because this deployment just have standalone Primary site , so I will select

**Install the primary site as a stand-alone site :**



34) Click **Next** , will display this information box :



35) Click **Yes** , into **Database Information** page :

**System Center 2012  
Configuration Manager RTM  
Advanced Security Deployment Document**

**Microsoft System Center 2012 Configuration Manager Setup Wizard**

### Database Information

Configuration Manager primary sites require a Microsoft SQL Server database to store site settings and data.

Specify the database server's fully qualified domain name, the instance name, and the database name. Make sure the instance you specify is configured to use a static TCP port. Dynamic ports are not supported.

Server name: (Example: Server1.contoso.com)

Instance name (leave blank for default): (Example: MyInstance)

Database name: (Example: CM\_XYZ)

Configuration Manager uses SQL Server Service Broker (SSB) to replicate data between parent and child site database servers in the hierarchy. You must specify a TCP port number for the SQL Server Service Broker to use. This port is different from the SQL Server service port, which is detected automatically.

SSB Port:

< Previous    > Next    > Cancel

36) You can setting based on your requirement :

**Microsoft System Center 2012 Configuration Manager Setup Wizard**

### Database Information

Configuration Manager primary sites require a Microsoft SQL Server database to store site settings and data.

Specify the database server's fully qualified domain name, the instance name, and the database name. Make sure the instance you specify is configured to use a static TCP port. Dynamic ports are not supported.

Server name: (Example: Server1.contoso.com)

Instance name (leave blank for default): (Example: MyInstance)

Database name: (Example: CM\_XYZ)

Configuration Manager uses SQL Server Service Broker (SSB) to replicate data between parent and child site database servers in the hierarchy. You must specify a TCP port number for the SQL Server Service Broker to use. This port is different from the SQL Server service port, which is detected automatically.

SSB Port:

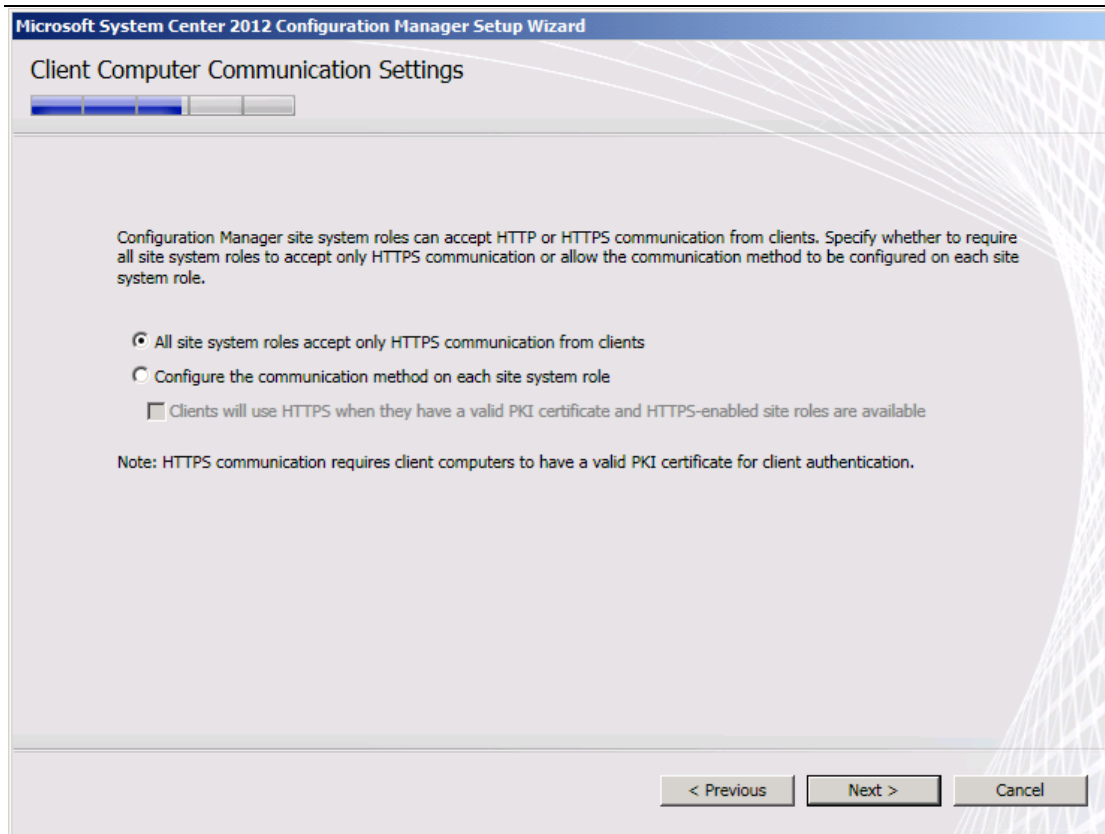
< Previous    > Next    > Cancel

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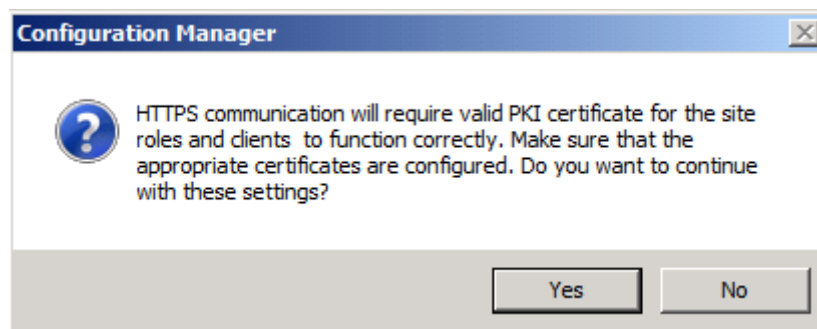
37) click **Next** , into **SMS Provider Settings** page :

The screenshot shows the 'SMS Provider Settings' page of the 'Microsoft System Center 2012 Configuration Manager Setup Wizard'. The page has a blue header bar with the title. Below the header, there is a progress bar with five steps, the second of which is highlighted. The main content area contains the following text: 'The SMS Provider is used by the Configuration Manager console to communicate with the site database.' followed by 'Enter the FQDN of the server where the SMS Provider is to be installed:'. An example 'Example: Server1.corp.contoso.com' is provided. Below this is a text input field containing 'ConfigMgr2012.Contoso.msft'. A note states: 'Note: The SMS Provider cannot be installed on a server configured for SQL Server clustering.' At the bottom right, there are three buttons: '< Previous', 'Next >', and 'Cancel'.

38) Click **Next** , into **Client Computer Communication Settings** page :



39) Because I already configured all certificates for SC2012 ConfigMgr RTM , so please confirm select **All site system roles accept only HTTPS communication from clients** , and click **Next** , display this information box:

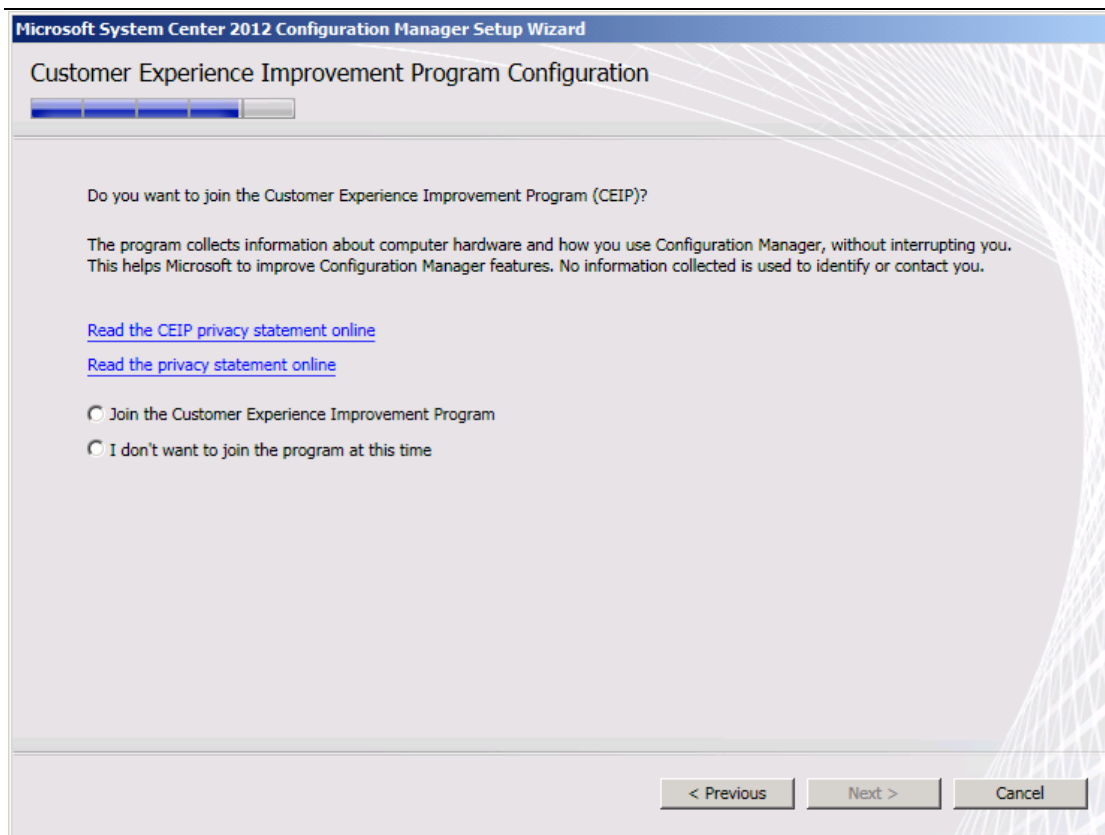


40) Click **Yes** into **Site System Roles** page :

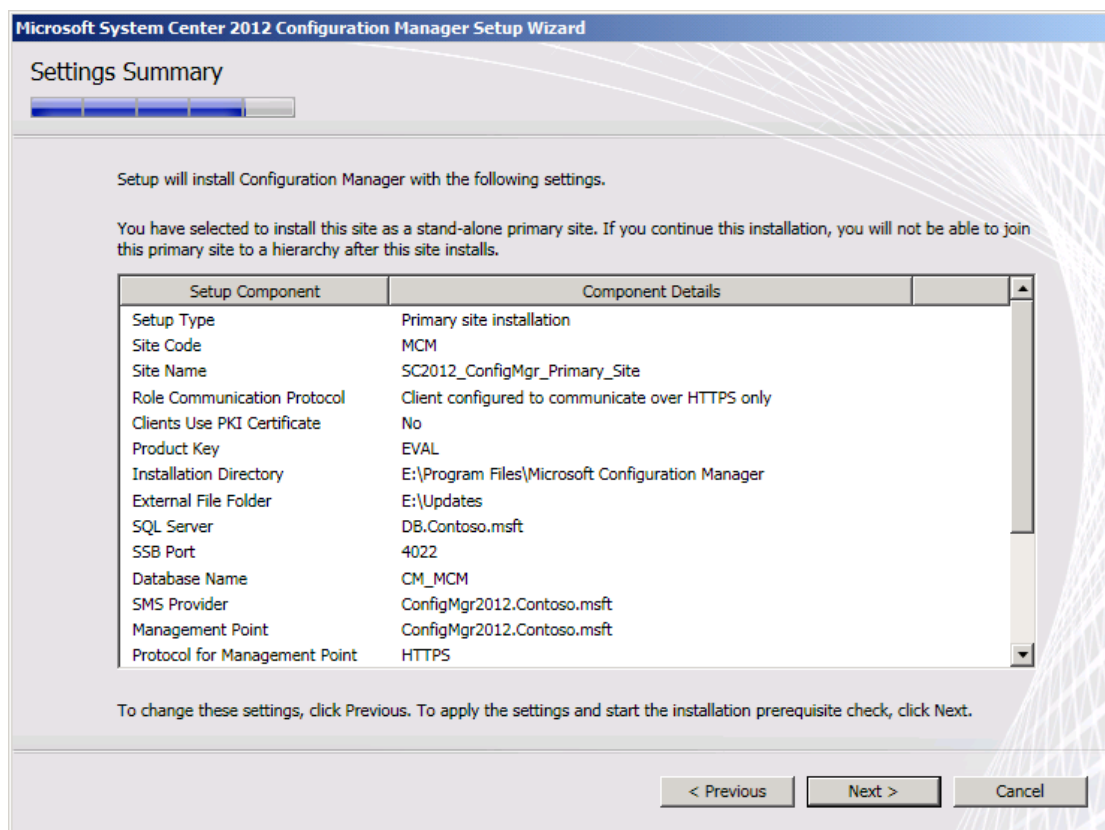
The screenshot shows the 'Site System Roles' page of the Microsoft System Center 2012 Configuration Manager Setup Wizard. The page has a blue header bar with the title 'Microsoft System Center 2012 Configuration Manager Setup Wizard'. Below the header, there is a progress bar with four steps, the second of which is highlighted. The main content area is titled 'Site System Roles' and contains the following text: 'Specify whether to have Setup install a management point or distribution point. A management point provides clients with policy and content location information. It also receives configuration data from clients.' Below this, there is a checkbox labeled 'Install a management point.' which is checked. To the right of the checkbox, there are two input fields: 'FQDN:' with the value 'ConfigMgr2012.Contoso.msft' and 'Client connection:' with a dropdown menu set to 'HTTPS'. Below this, there is another checkbox labeled 'Install a distribution point.' which is also checked. To the right of this checkbox, there are two input fields: 'FQDN:' with the value 'ConfigMgr2012.Contoso.msft' and 'Client connection:' with a dropdown menu set to 'HTTPS'. Below these fields, there is a paragraph of text: 'The site server's computer account is used to install the selected site system roles. Ensure that this account is a member of the local administrators group for the specified servers. You can install additional site system roles from the Configuration Manager console after Setup finishes. Site system roles configured to use HTTPS must have a valid PKI server certificate.' At the bottom of the page, there are three buttons: '< Previous', 'Next >', and 'Cancel'.

41) Click **Next** , into **Customer Experience Improvement Program**

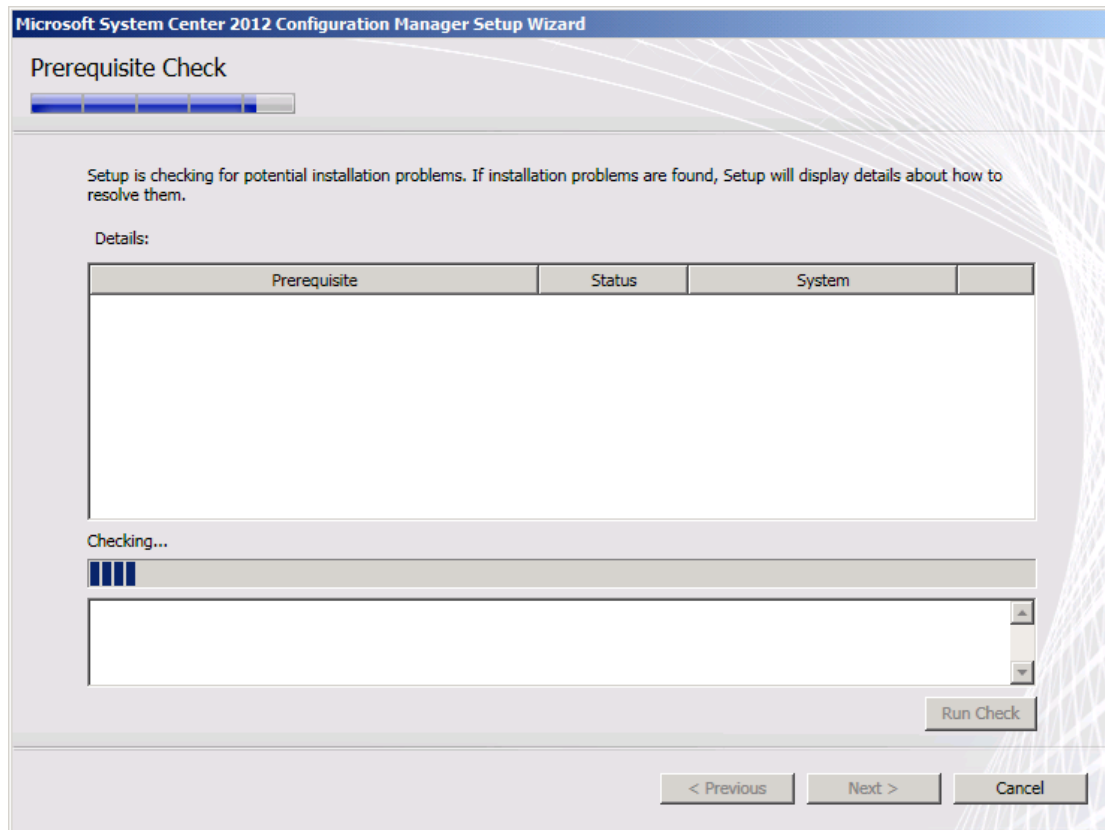
**Configuration** page :



42) Select your needed item and click **Next** , into **Settings Summary** page :

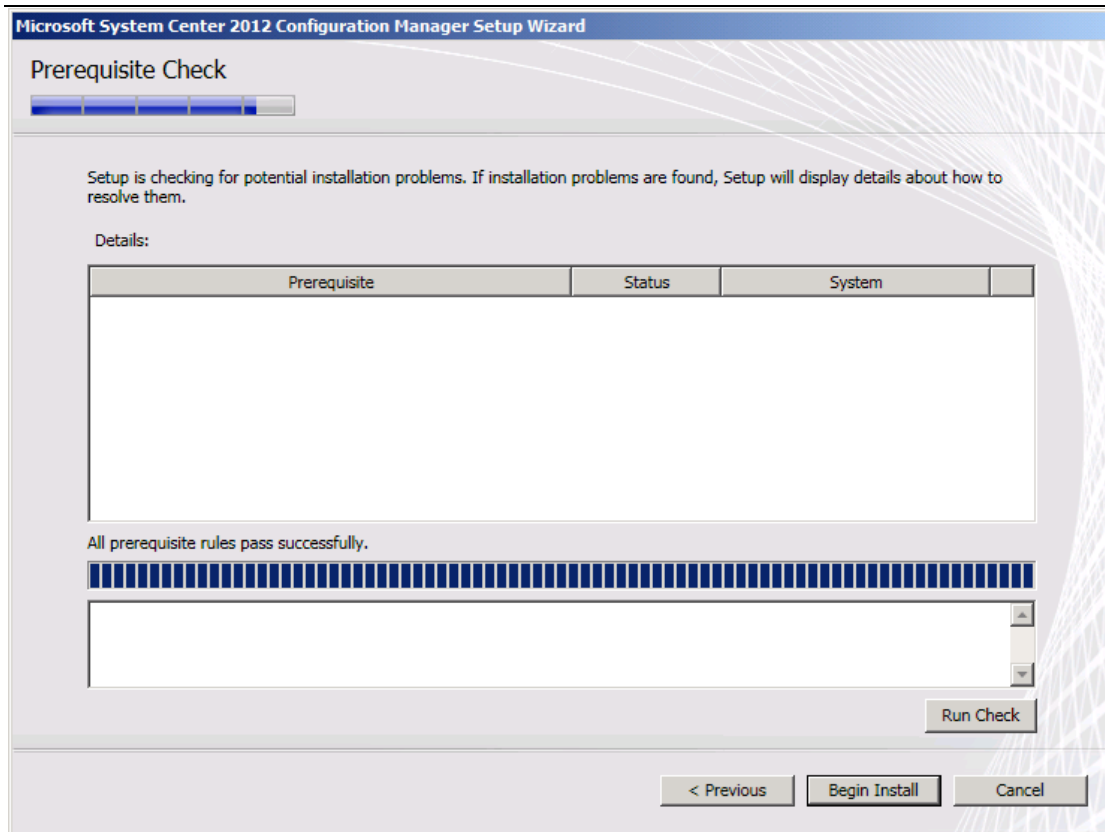


43) You can verify again and click **Next** , into **Prerequisite Check** progress :



44) Please wait some minutes check completed :

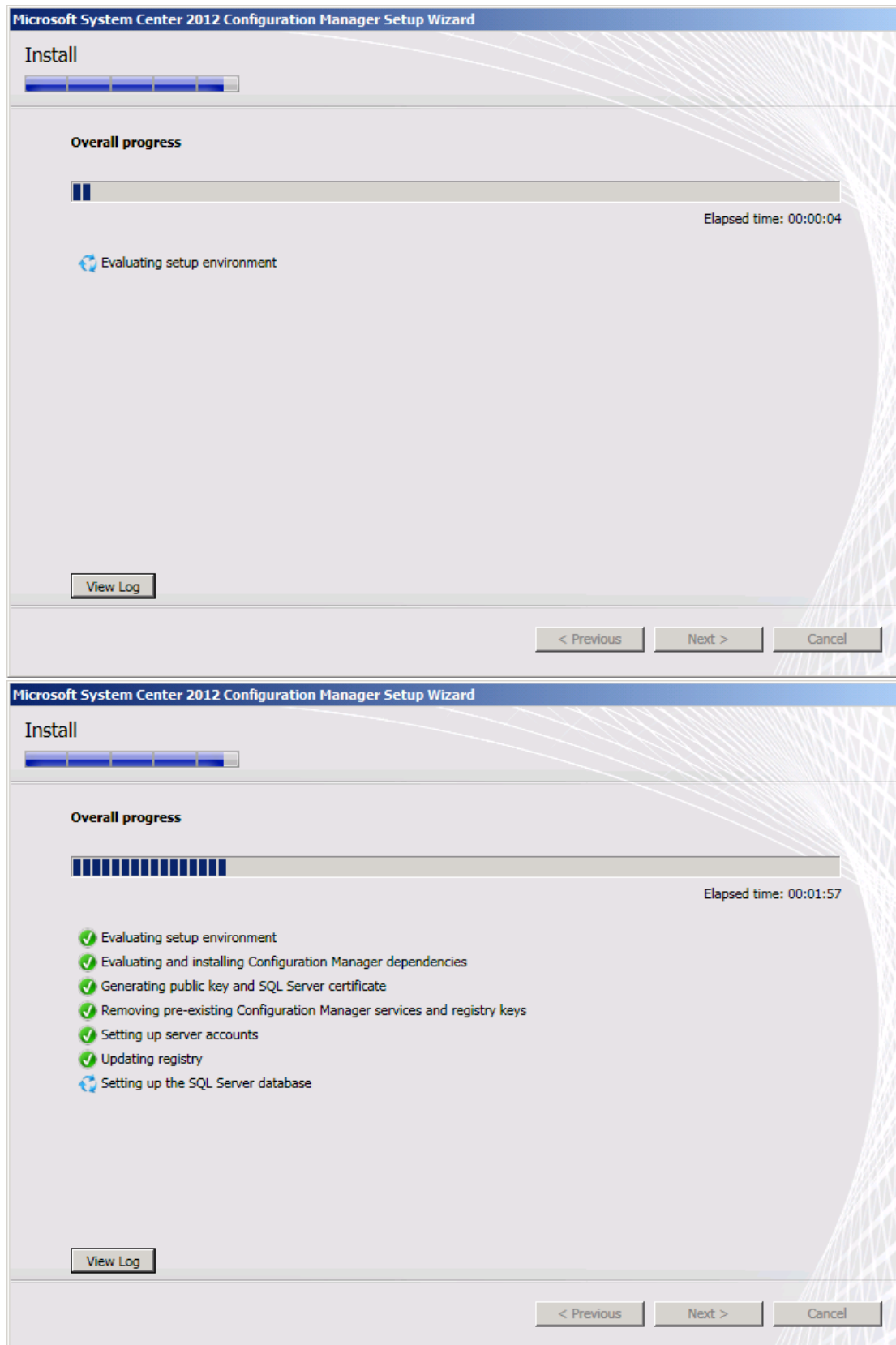
System Center 2012  
Configuration Manager RTM  
Advanced Security Deployment Document

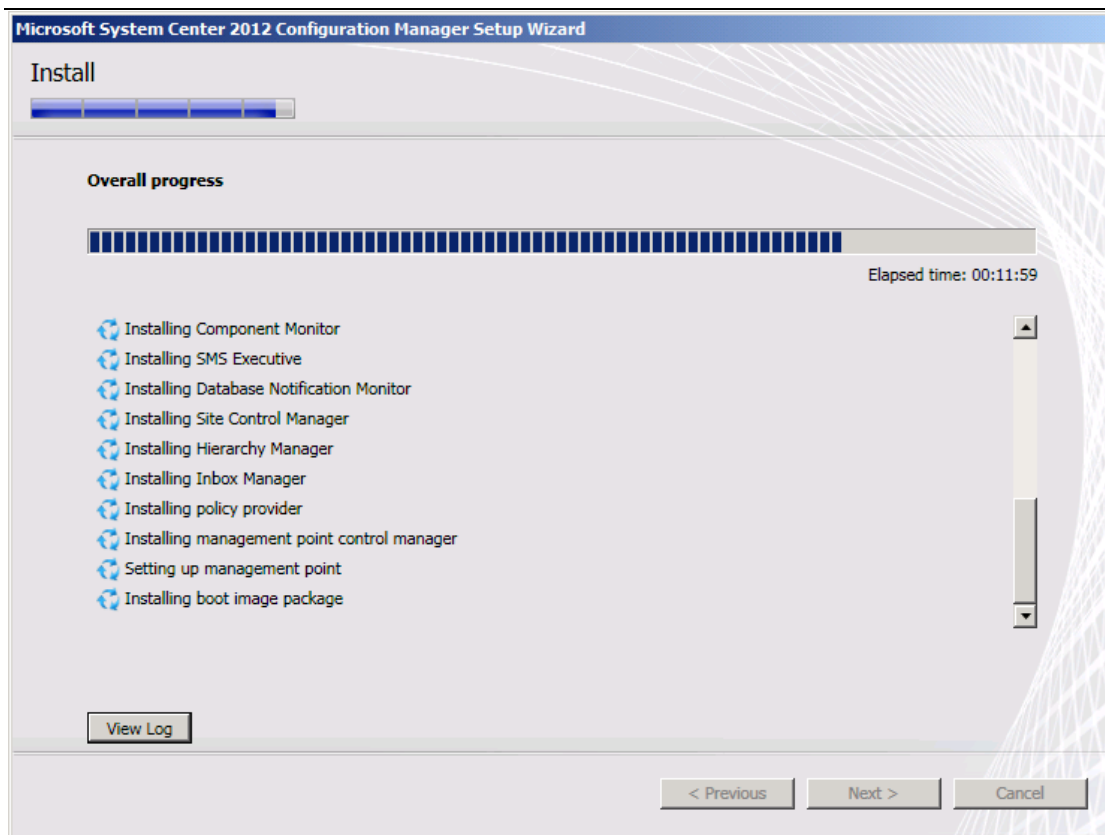


45) No warning and No error , you can check **ConfigMgrPrereq.txt** log file :

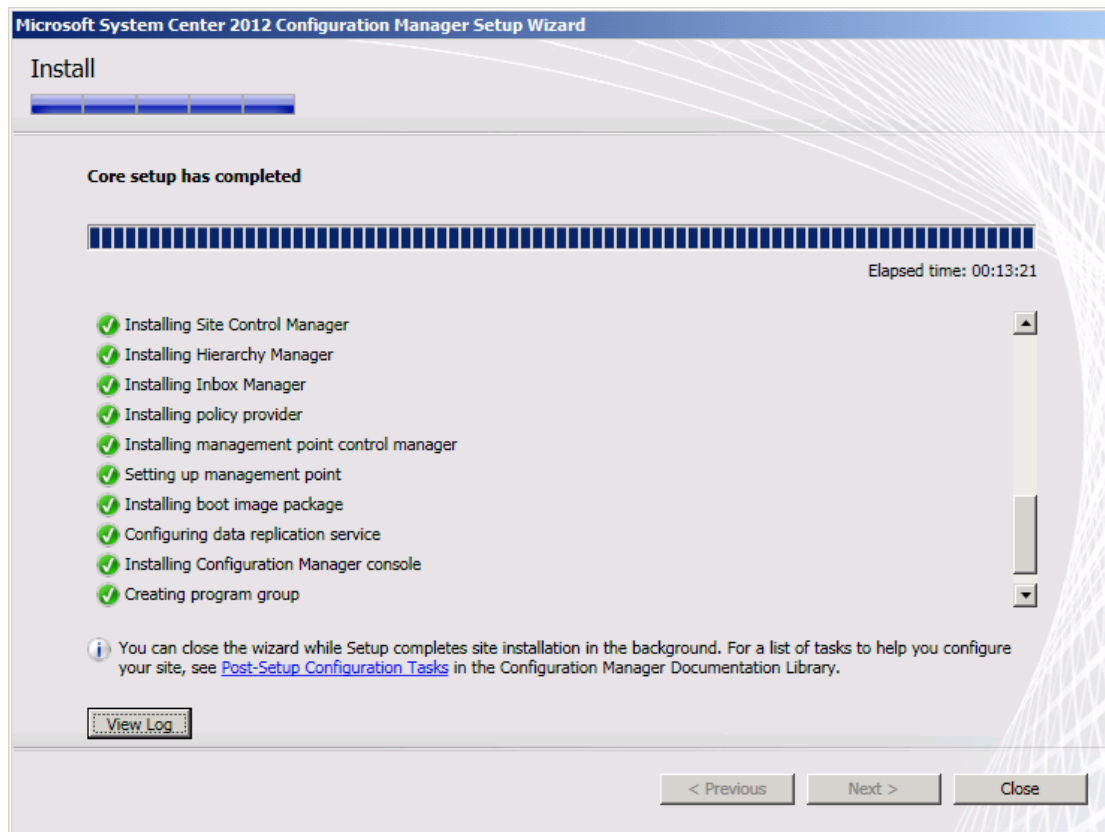
```
File Edit Format View Help
<03-13-2012 06:56:32> <<<RuleCategory: Access Permissions>>>
<03-13-2012 06:56:32> <<<CategoryDesc: Checking access permissions...>>>
<03-13-2012 06:56:32> <<<RuleCategory: System Requirements>>>
<03-13-2012 06:56:32> <<<CategoryDesc: Checking system requirements for ConfigMgr...>>>
<03-13-2012 06:56:32> INFO: The rule 'Unsupported site server operating system version for S
<03-13-2012 06:56:32> INFO: The rule 'Domain membership' has been run on server 'ConfigMgr201
<03-13-2012 06:56:32> INFO: The rule 'Pending system restart' has been run on server 'Config
<03-13-2012 06:56:32> <<<RuleCategory: Dependent Components>>>
<03-13-2012 06:56:32> <<<CategoryDesc: Checking dependent components for ConfigMgr...>>>
<03-13-2012 06:56:32> INFO: The rule 'Microsoft XML Core Services 6.0 (MSXML60)' has been run
<03-13-2012 06:56:32> INFO: The rule 'IIS service running' has been run on server 'ConfigMgr2
<03-13-2012 06:56:32> INFO: The rule 'IIS HTTPS Configuration' has been run on server 'Config
<03-13-2012 06:56:32> INFO: The rule 'Primary FQDN' has been run on server 'ConfigMgr2012.co
<03-13-2012 06:56:32> ===== INFO: Prerequisite Type & Server: UI:ConfigMgr2012.Contoso.msft =
<03-13-2012 06:56:32> <<<RuleCategory: Access Permissions>>>
<03-13-2012 06:56:32> <<<CategoryDesc: Checking access permissions...>>>
<03-13-2012 06:56:32> <<<RuleCategory: System Requirements>>>
<03-13-2012 06:56:32> <<<CategoryDesc: Checking system requirements for ConfigMgr...>>>
<03-13-2012 06:56:32> ConfigMgr2012.Contoso.msft;  Unsupported Configuration Manager conso
<03-13-2012 06:56:32> INFO: The rule 'Domain membership' has been run on server 'ConfigMgr201
<03-13-2012 06:56:32> INFO: The rule 'Pending system restart' has been run on server 'Config
<03-13-2012 06:56:32> <<<RuleCategory: Dependent Components>>>
<03-13-2012 06:56:32> <<<CategoryDesc: Checking dependent components for ConfigMgr...>>>
<03-13-2012 06:56:32> INFO: Checking .NET framework versions 4.0...
<03-13-2012 06:56:32> INFO: .NET is installed
<03-13-2012 06:56:32> ConfigMgr2012.Contoso.msft;  Minimum .NET Framework version for Confi
<03-13-2012 06:56:32> INFO: The rule 'Microsoft XML Core Services 6.0 (MSXML60)' has been run
<03-13-2012 06:56:32> INFO: The rule 'Windows Remote Management (winRM) v1.1' has been run on
<03-13-2012 06:56:32> ***** Prerequisite checking is completed. *****
<03-13-2012 06:56:32> *****
<03-13-2012 06:56:32> INFO: Updating Prerequisite checking result into the registry
<03-13-2012 06:56:32> INFO: Connecting to ConfigMgr2012.Contoso.msft registry
<03-13-2012 06:56:32> INFO: Setting registry values
```

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

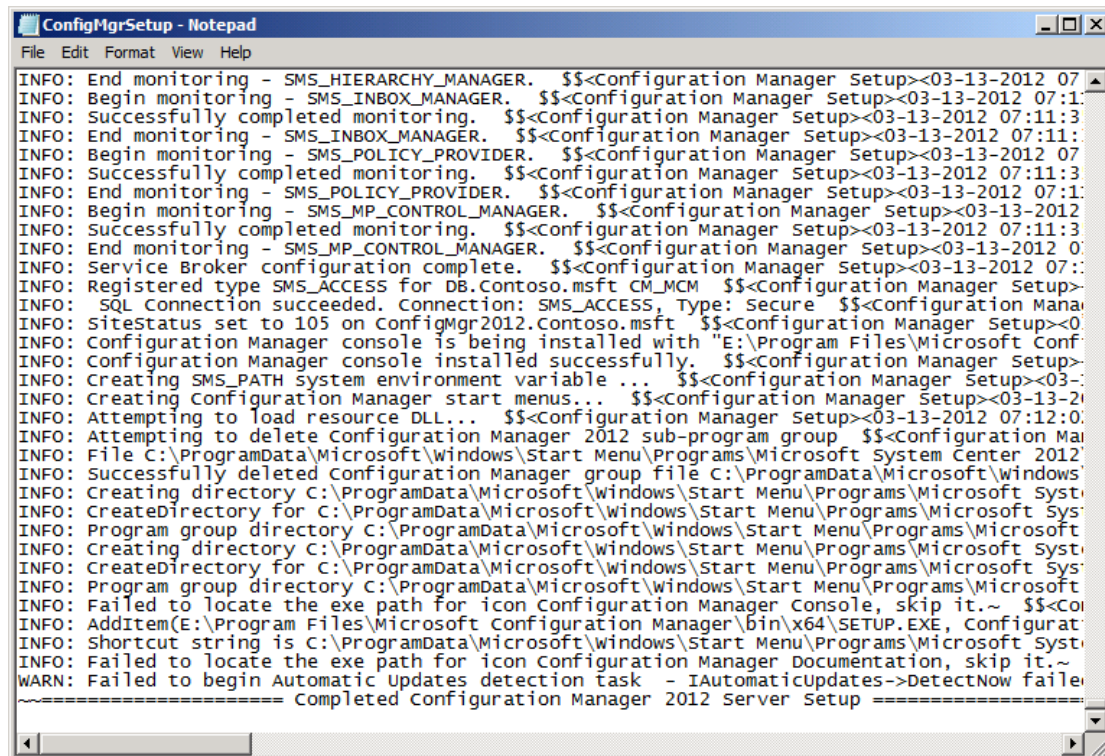




47) Wait 10-20 minutes , setup completed :

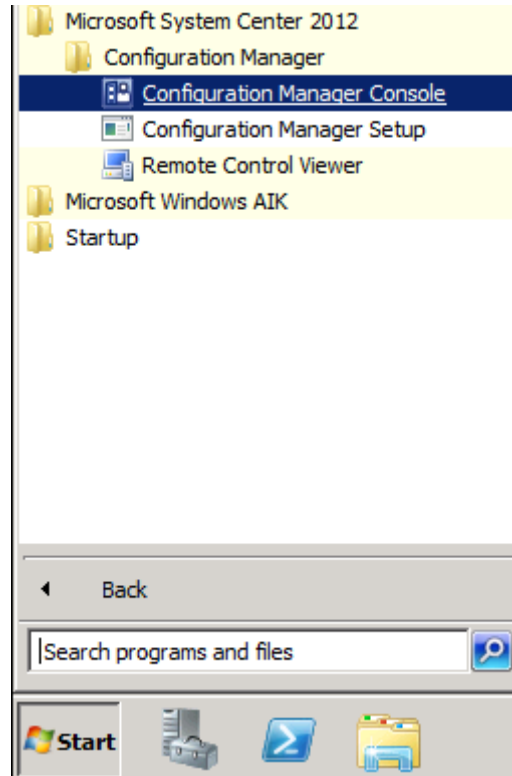


48) Click **View Log** can open **ConfigMgrSetup.log** file :



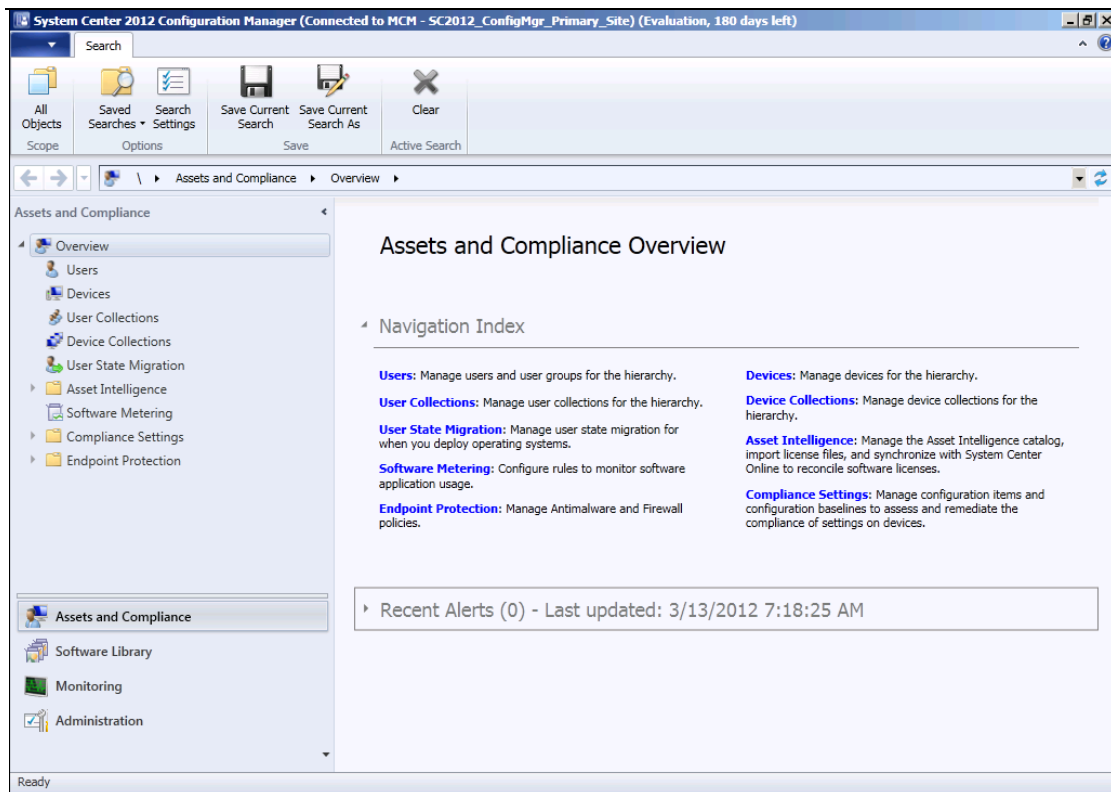
49) Click **Close** and click **Start** , click **Configuration Manager Console**

shortcut :

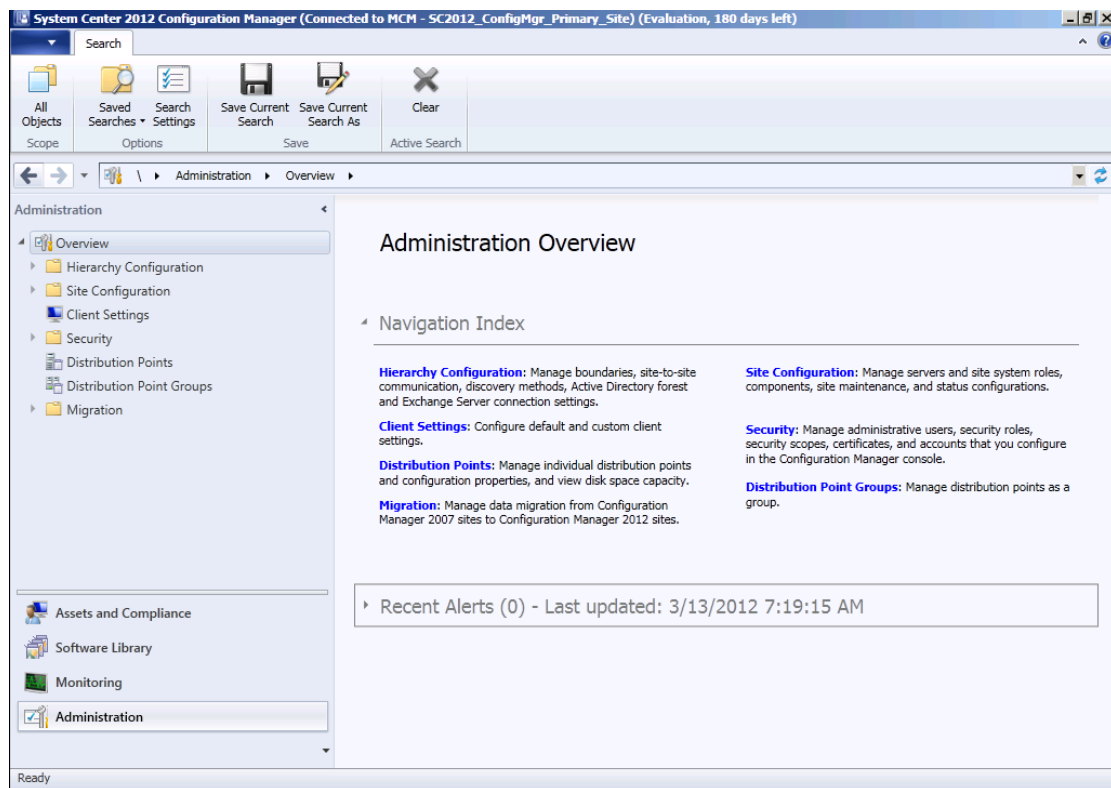


50) **System Center Configuration Manager** management console opened ,  
will display **Assets and Compliance** tab :

**System Center 2012**  
**Configuration Manager RTM**  
**Advanced Security Deployment Document**



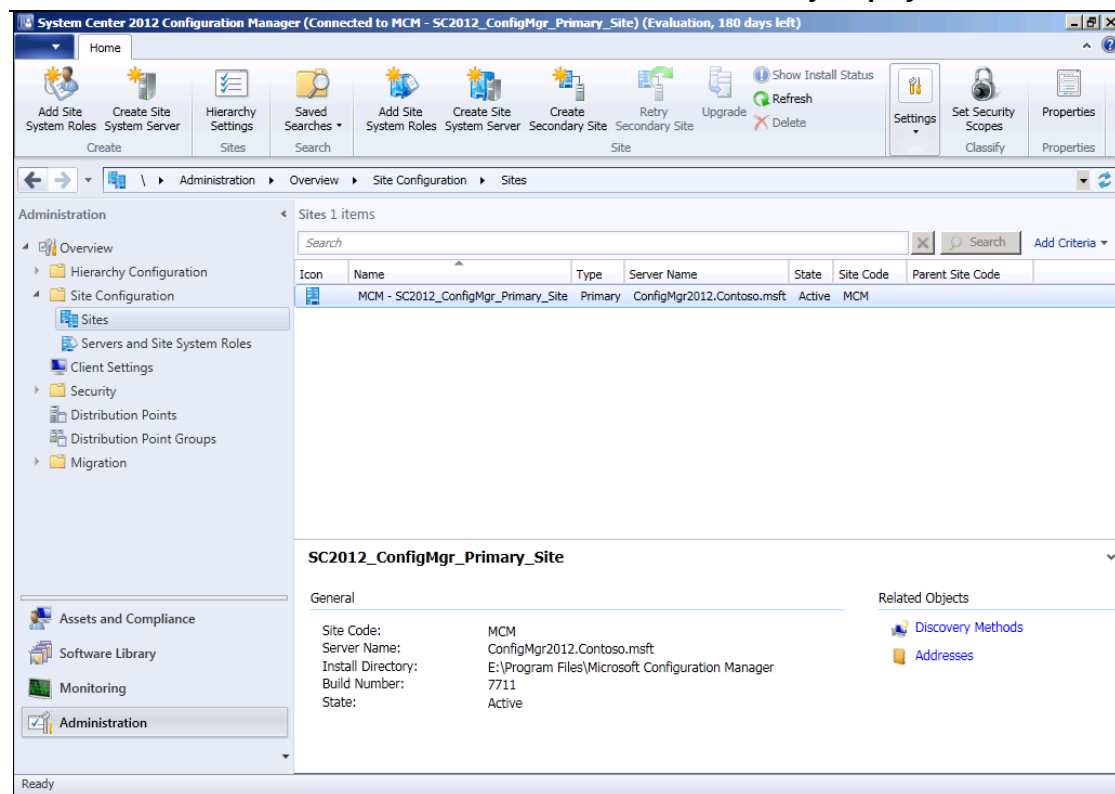
51) Click **Administration** tab :



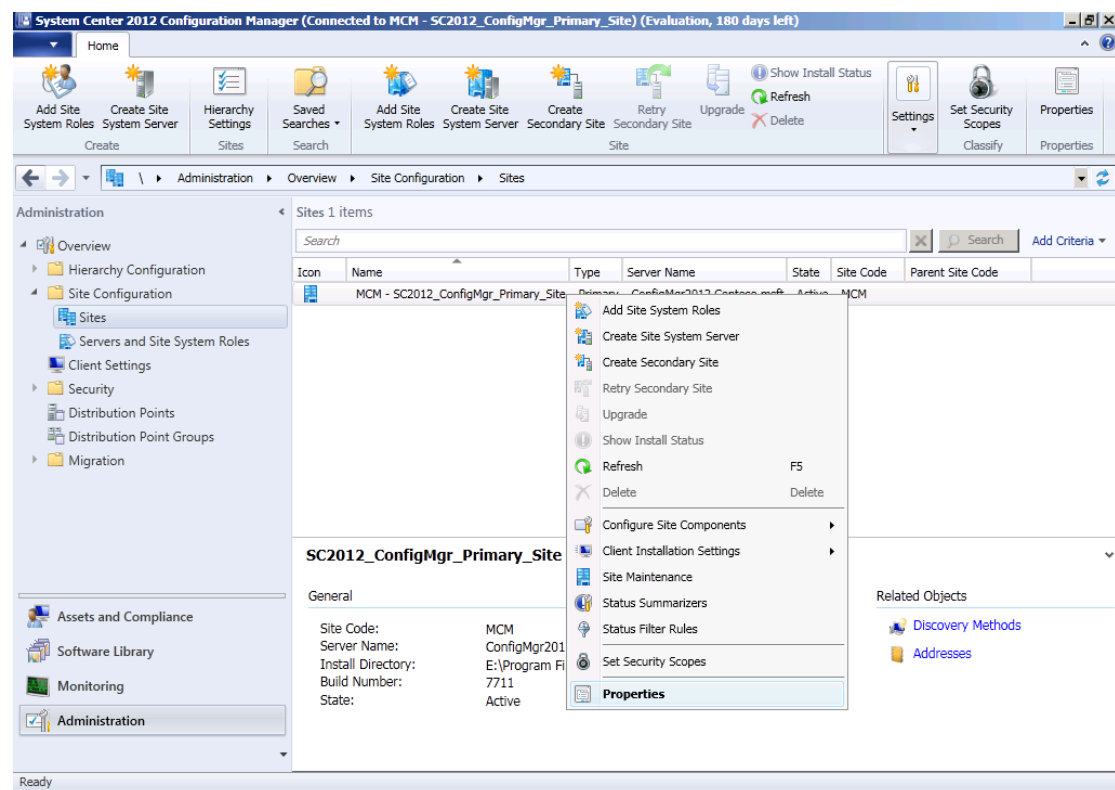
52) Click **Site Configuration --- Sites** :

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**System Center 2012  
Configuration Manager RTM  
Advanced Security Deployment Document**

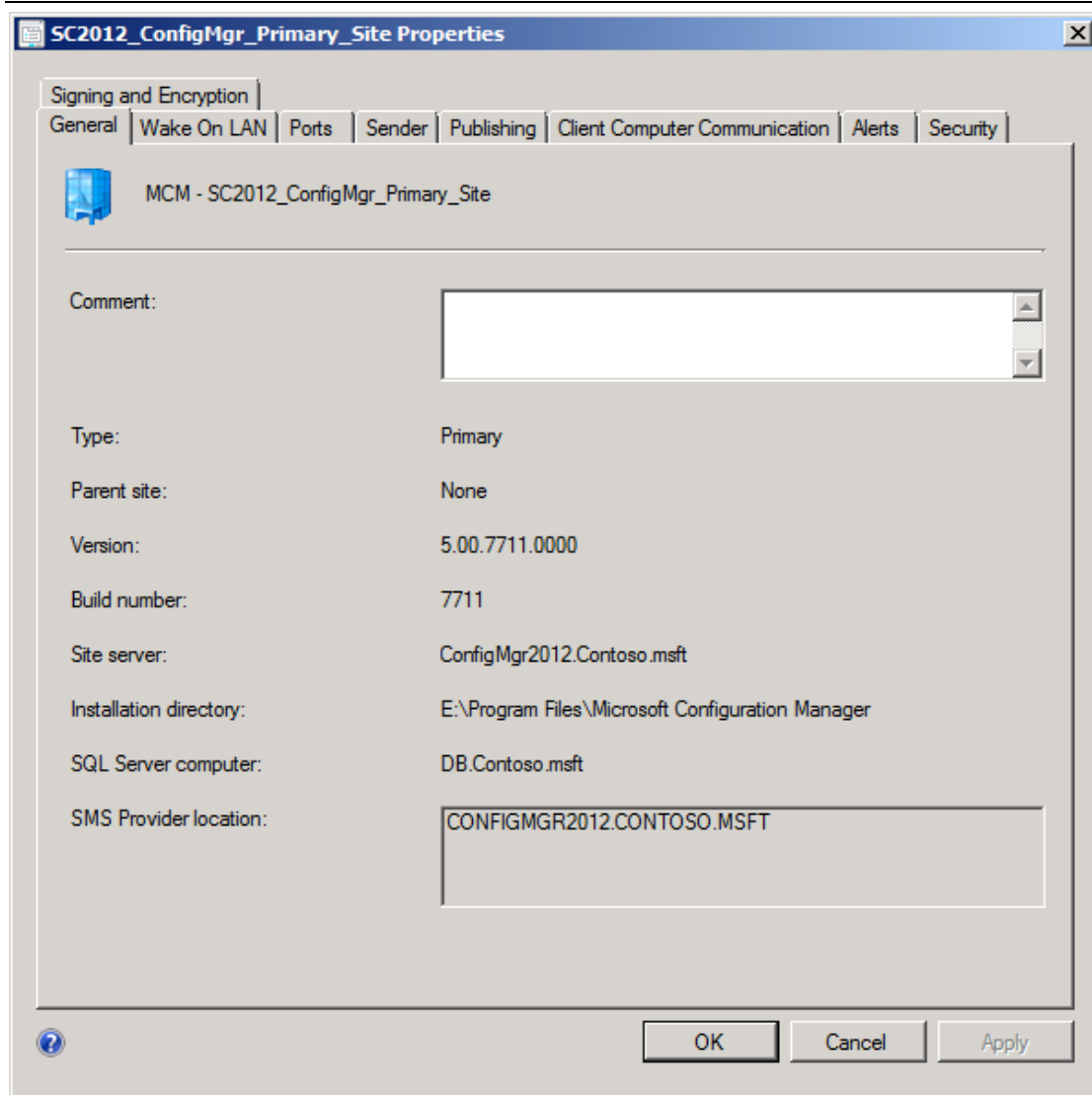


53) Right-click site name select **Properties** :

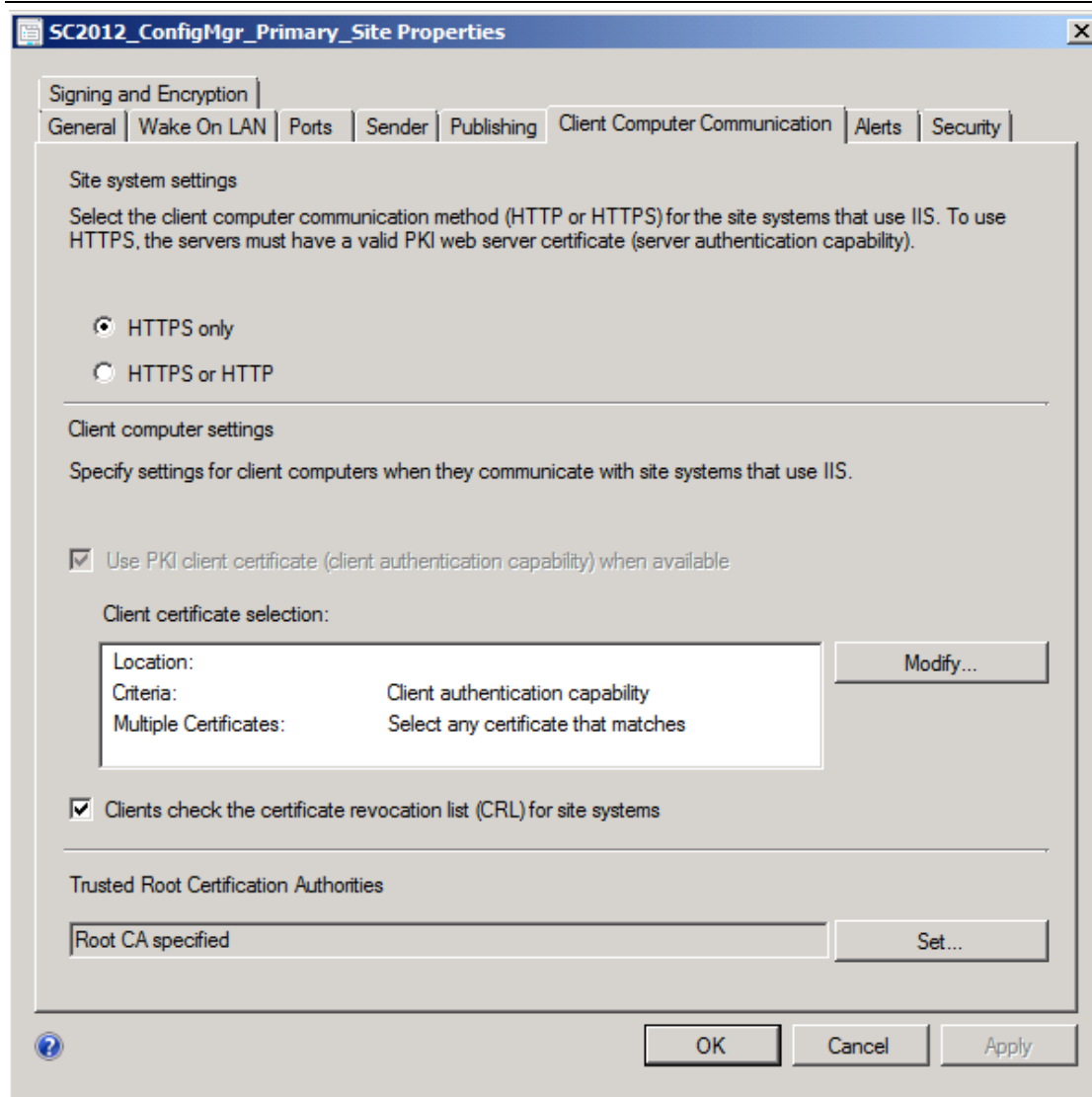


54) Display **SC2012\_ConfigMgr\_Primary\_Site** Properties :

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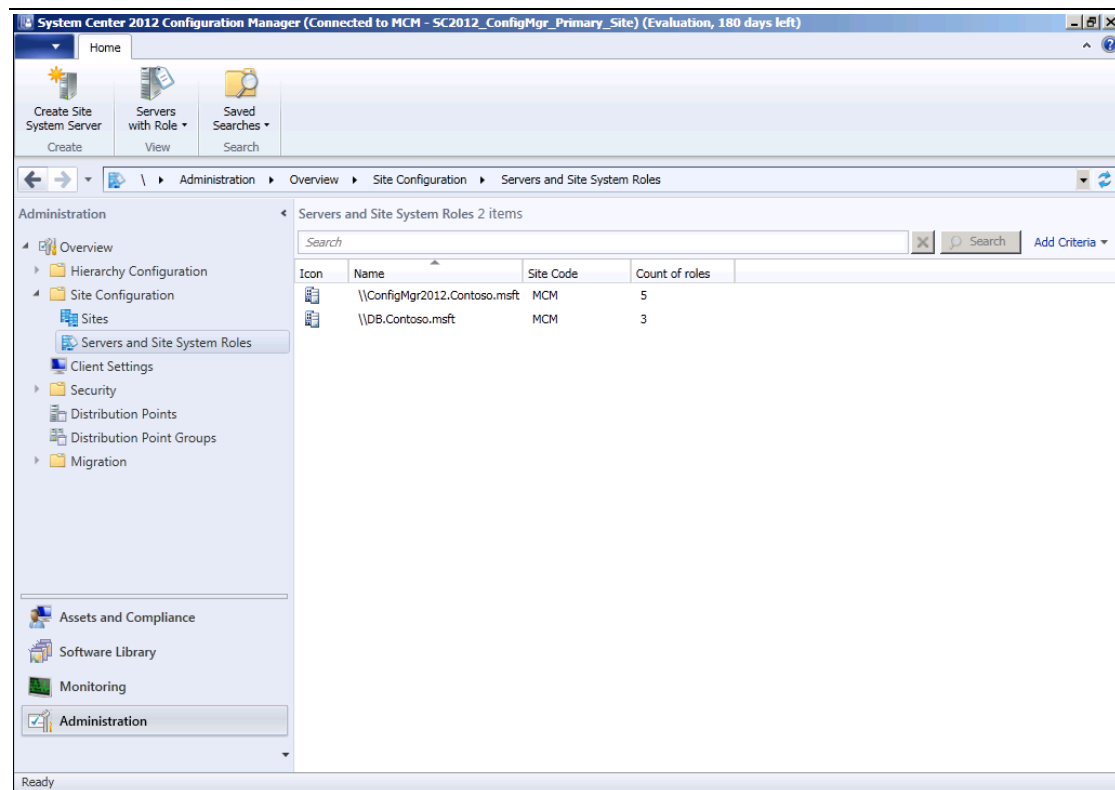


55) Now we can see about SC2012 ConfigMgr RTM version and other information. Click **Client Computer Communication** page , we can see about security settings:

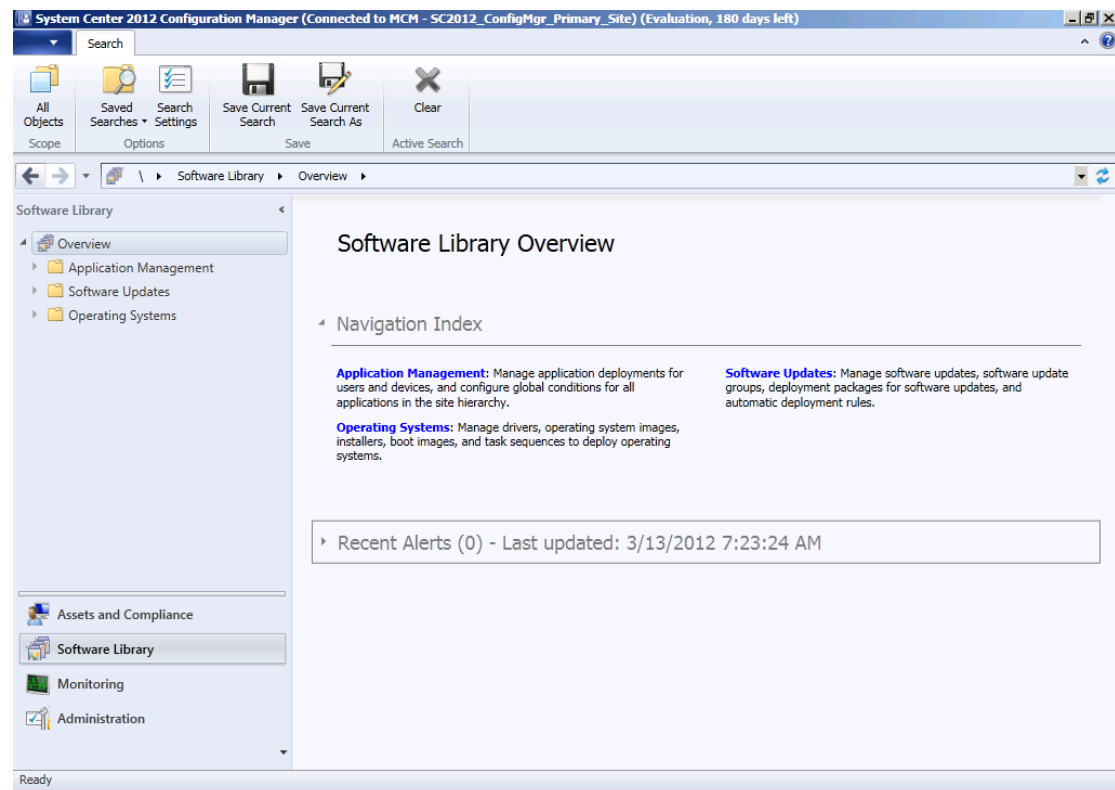


56) Click **OK** to close . Click **Servers and Site System Roles** node , you can see all site server and holding roles:

**System Center 2012**  
**Configuration Manager RTM**  
**Advanced Security Deployment Document**



57) **Software Library** page :

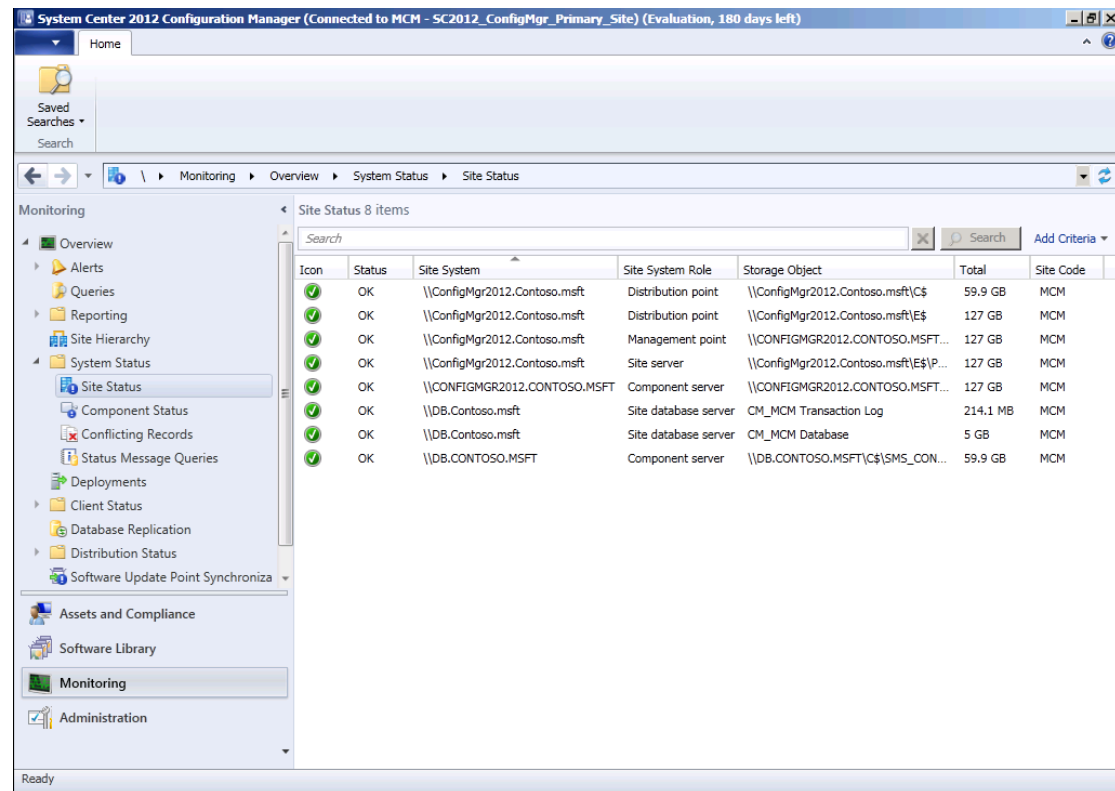


58) In **Monitoring** page , you can monitor all site roles status in the **Site Status**

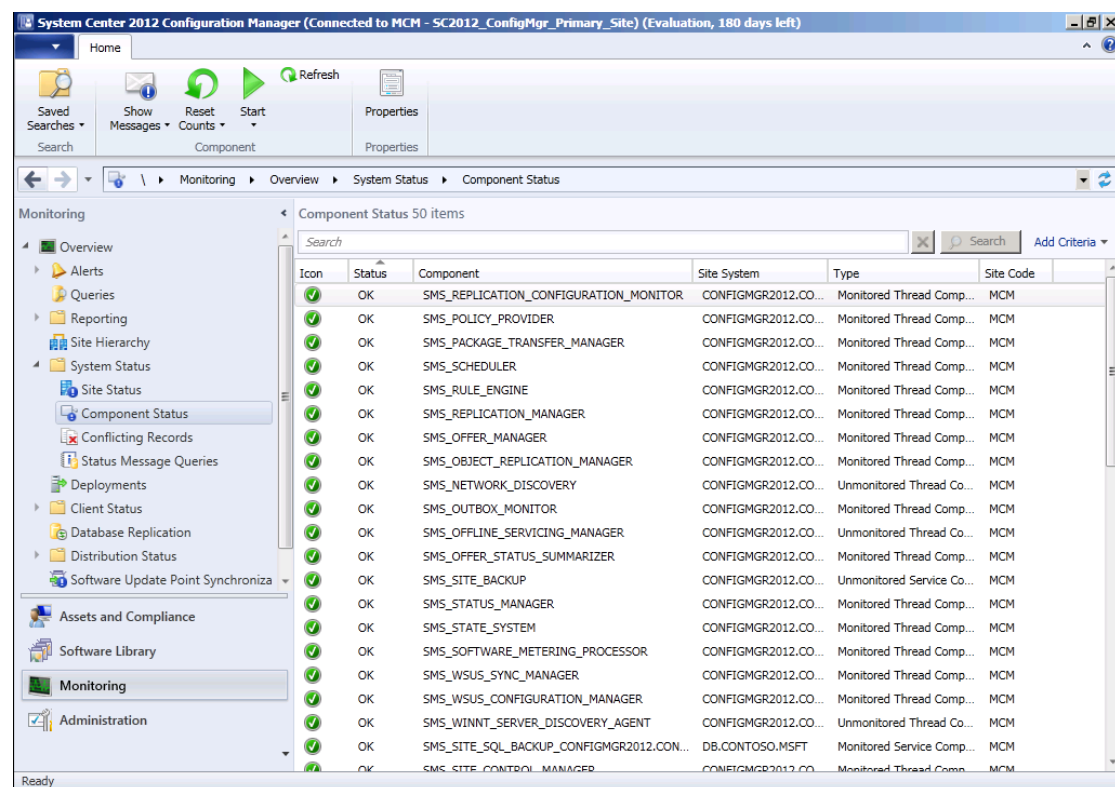
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**System Center 2012**  
**Configuration Manager RTM**  
**Advanced Security Deployment Document**

node :

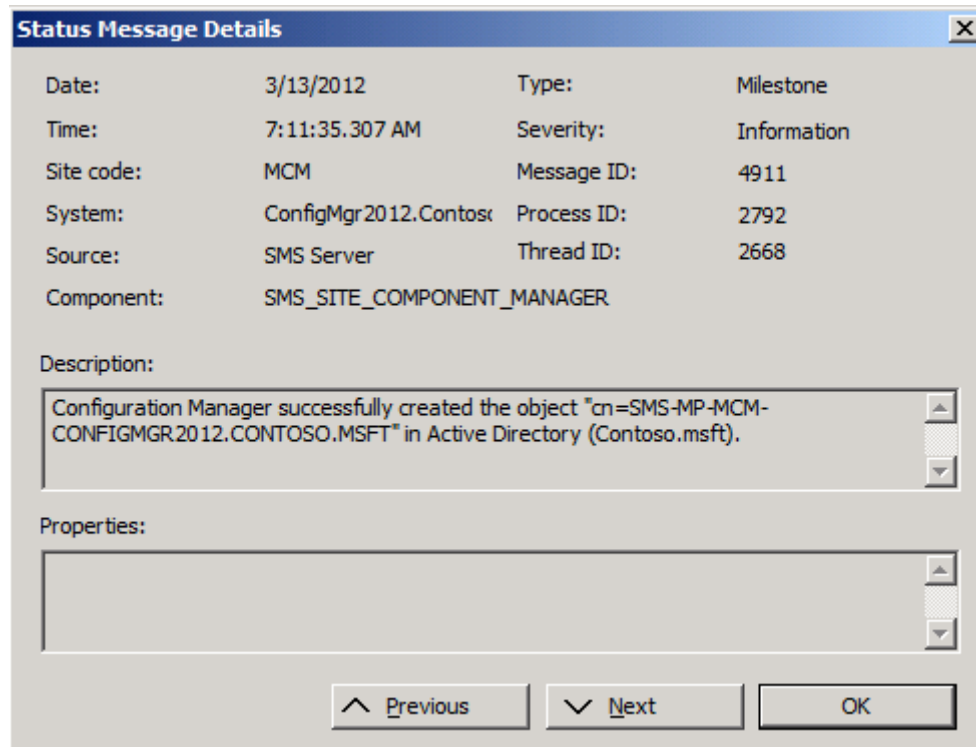


59) In **Component Status** node you can monitoring all site services status :

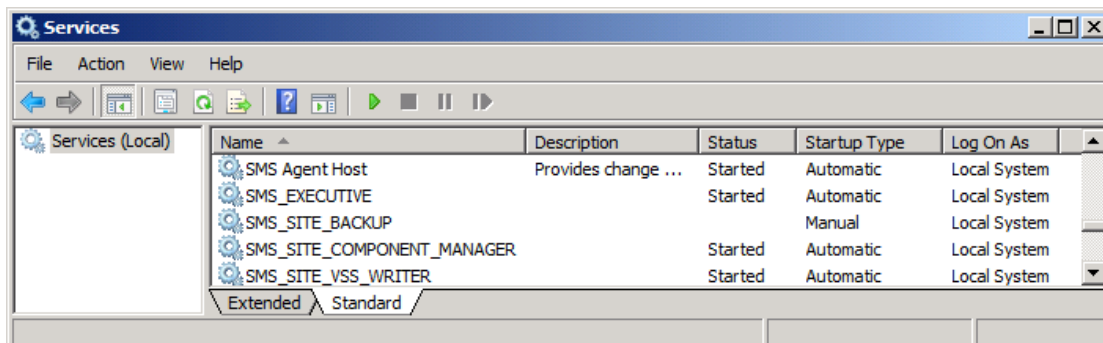


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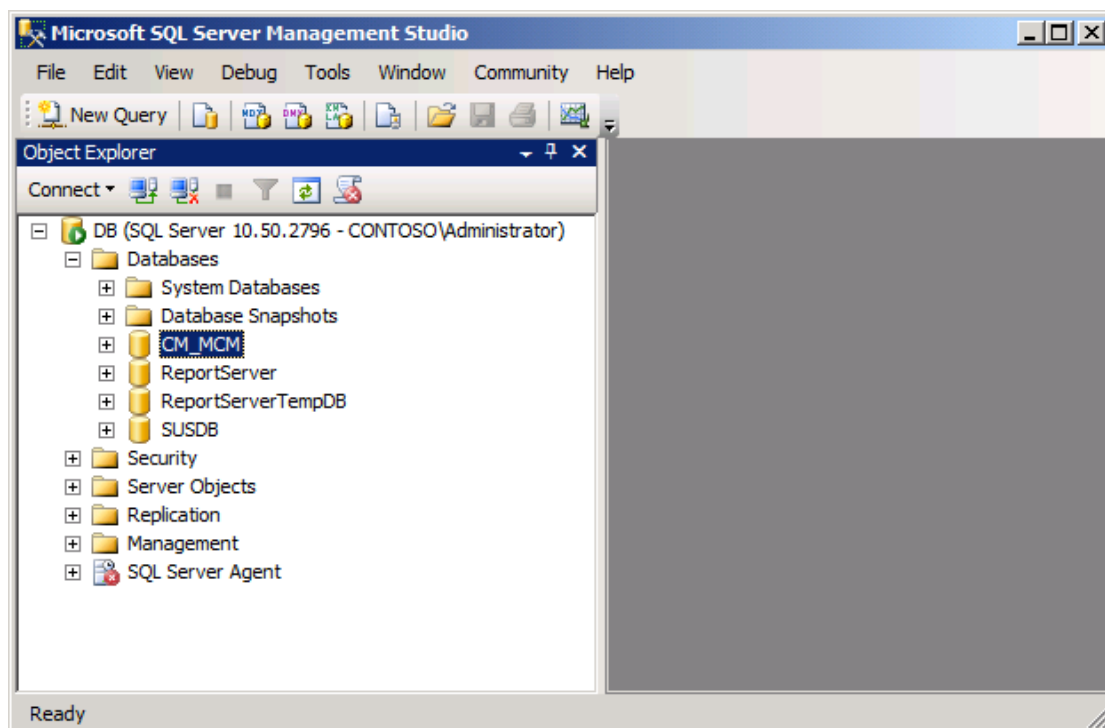
60) **Message ID 4911** will indicate MP object will created successfully in AD:



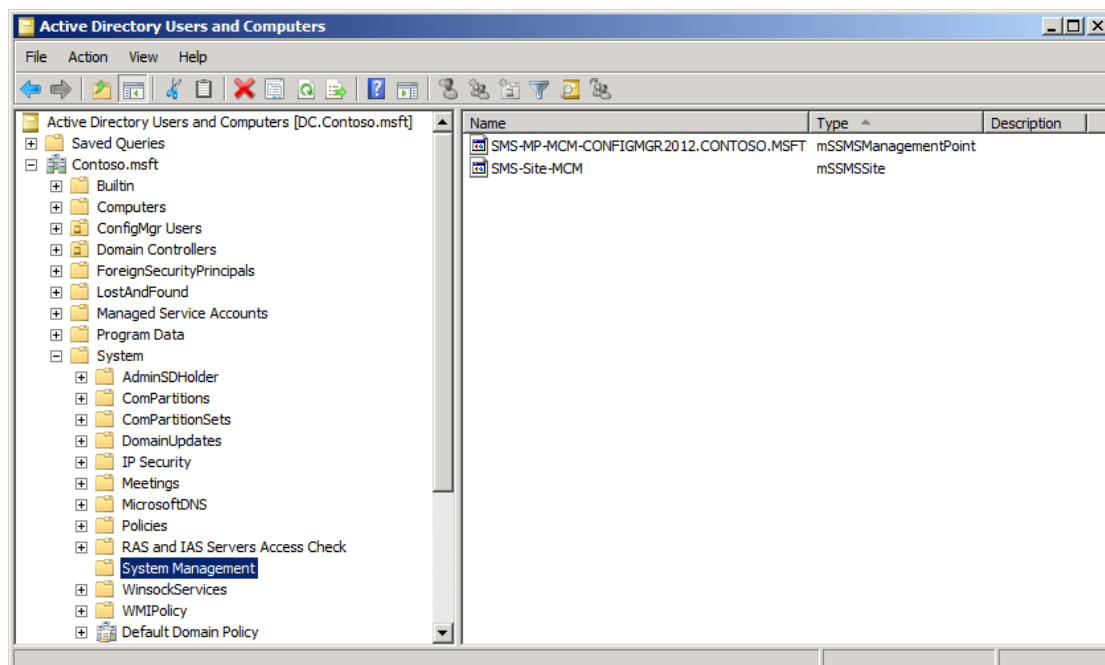
61) Open **Services.msc** , you can see all SC2012 ConfigMgr RTM all services :



62) Open **SQL Server Management Studio** , you can see SC2012 ConfigMgr  
RTM database **CM\_MCM** :



63) Logon to **DC** server , open ADUC snap-in console , in **System** container you can see **System Management** container :



64) Now SC2012 ConfigMgr RTM Site server deployment finished.

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## 10. Installing SC2012 ConfigMgr RTM Remote Console :

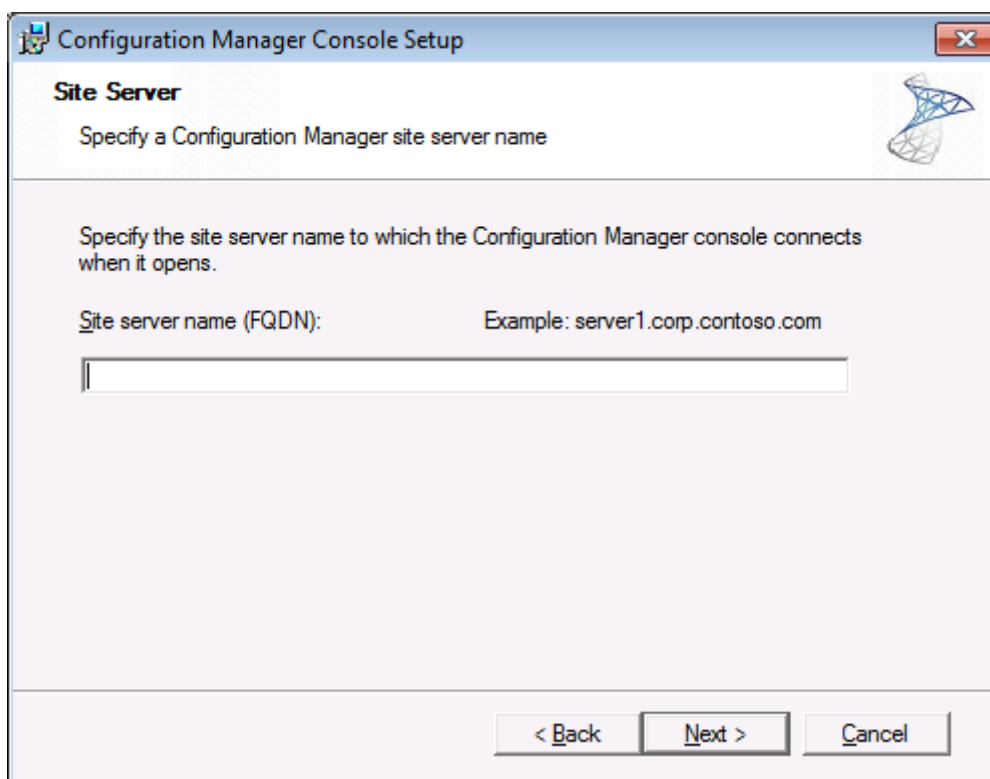
- 1) Use Administrator logon to **Console** computer, install **.Net Framework 4.0** tool.
- 2) Insert SC2012 ConfigMgr RTM image , will auto display :



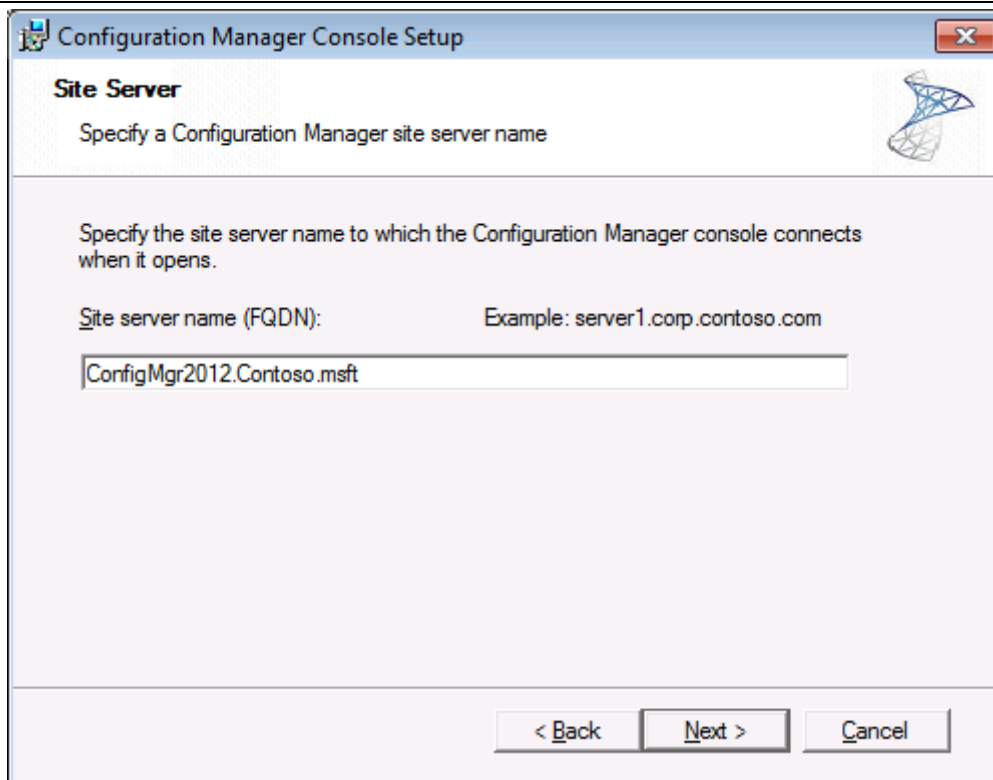
- 3) Click **Install Configuration Manager console** , display this wizard :



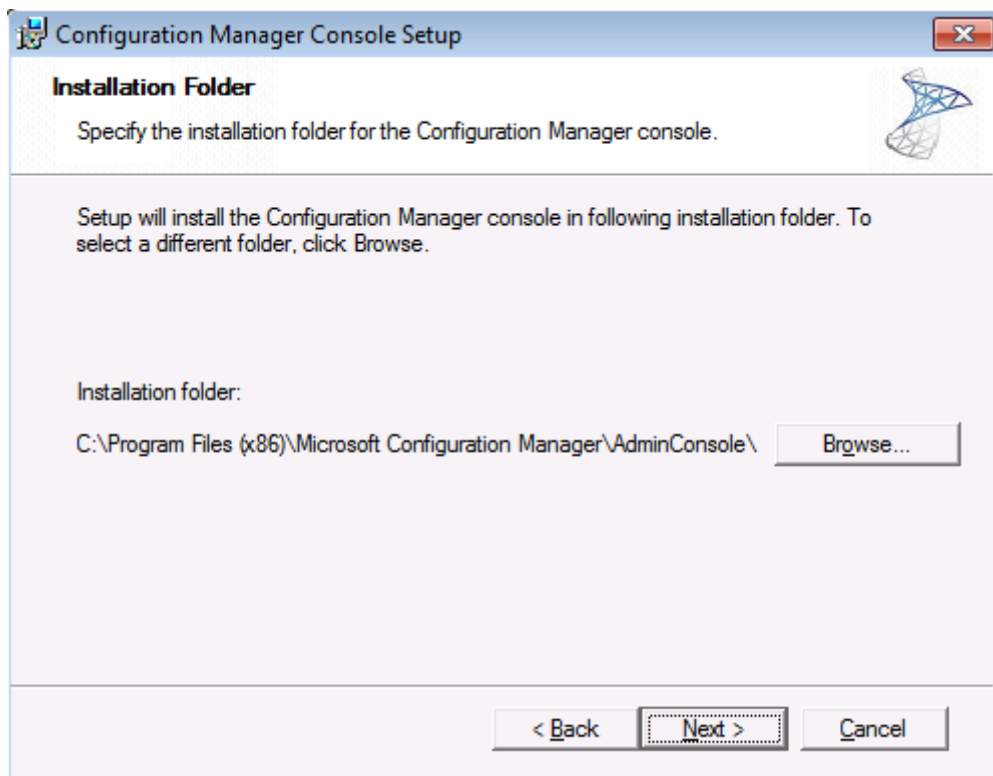
4) Click **Next** , into **Site Server** page :



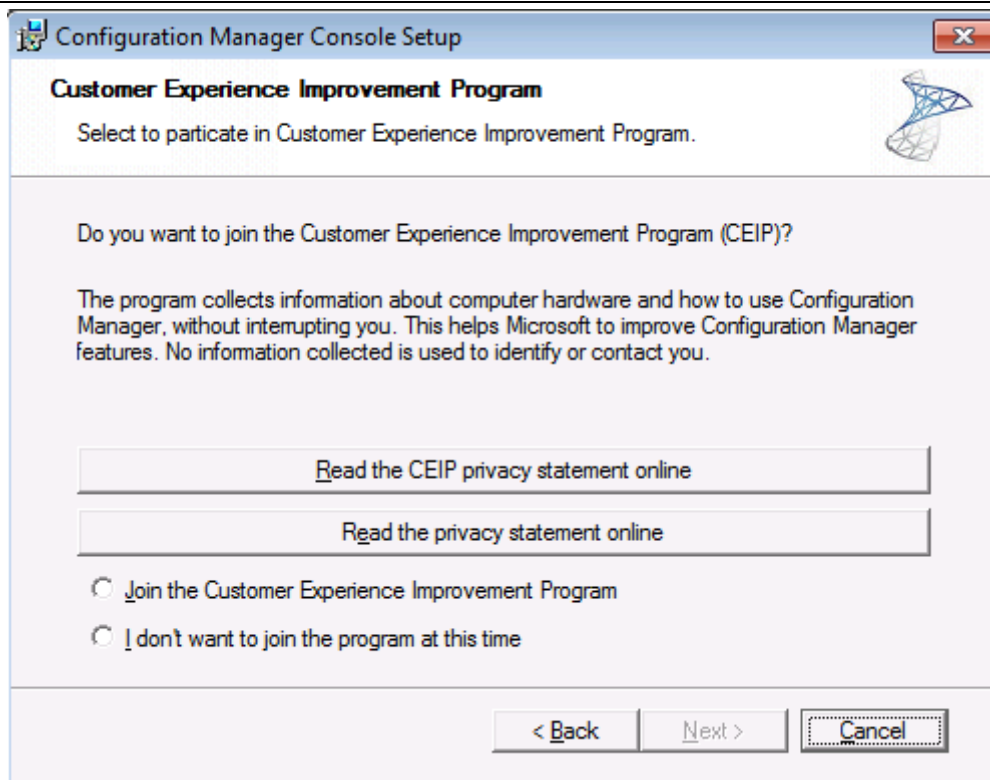
5) Enter SC2012 ConfigMgr RTM site server FQDN name in **Server name** :



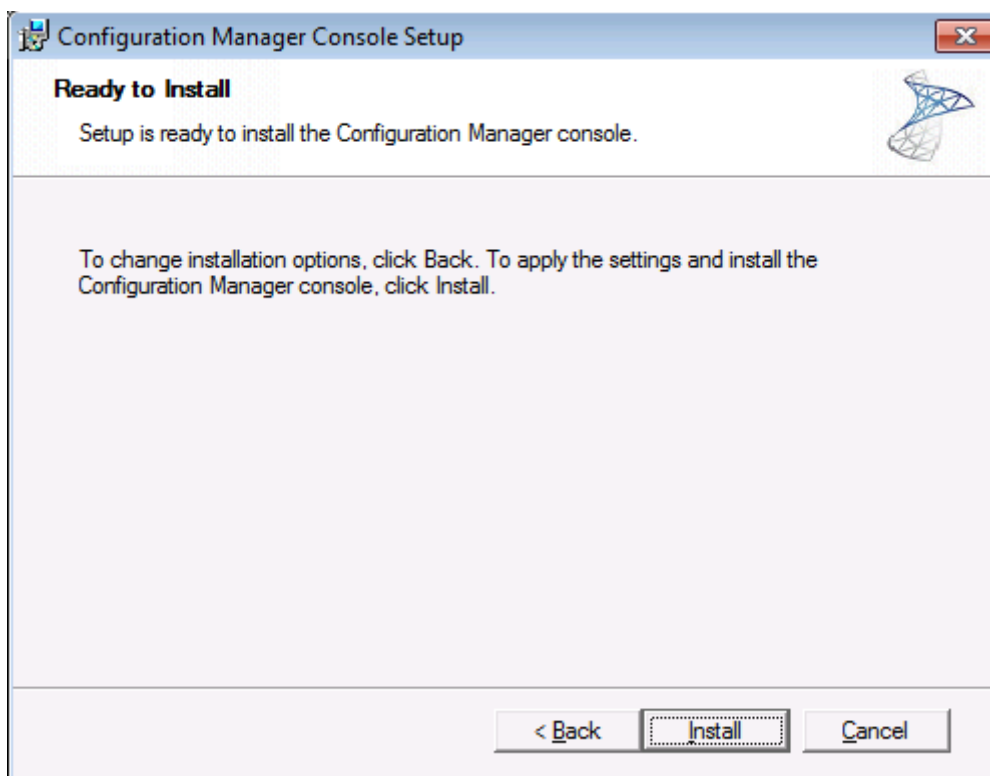
6) Click **Next** , into **Installation Location** page :



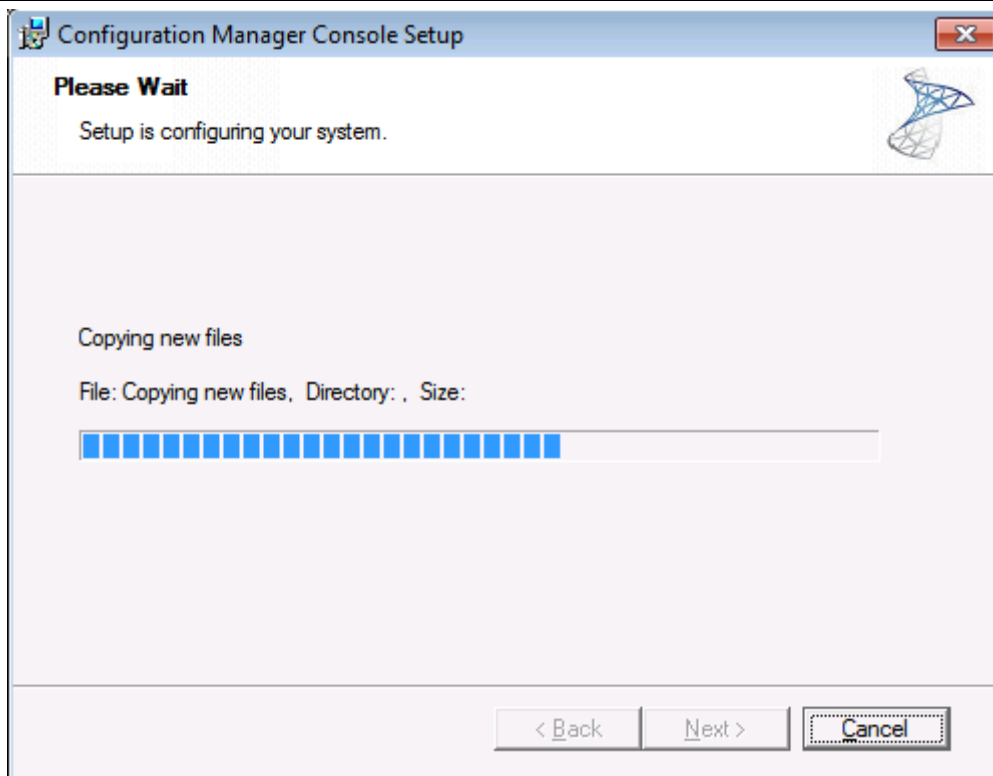
7) Click **Next** , into **Customer Experience Improvement Program** page :



8) Select your needed and click **Next** , into **Ready to Install** page :



9) Click **Install** starting install progress :

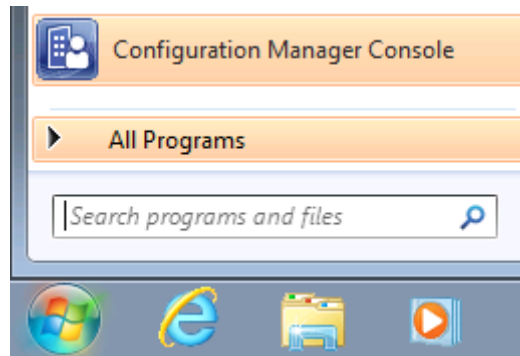


10) Please wait some minutes , display finished page :

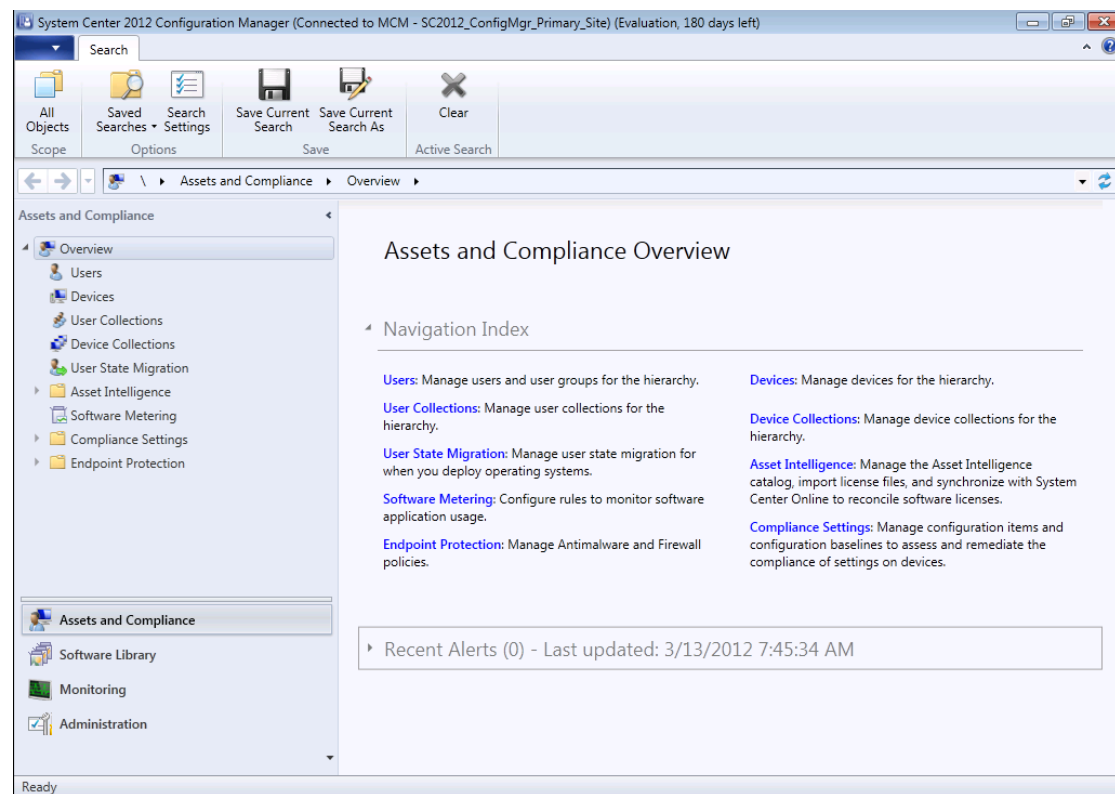


11) Click **Finish** will open SC2012 ConfigMgr RTM Administration Console, the

same you can point Windows Button and click **Configuration Manager Console** to open :



12) SC2012 ConfigMgr RTM remote console will display :



13) Now System Center 2012 Configuration Manager RTM Advanced Security deployment fully finished.