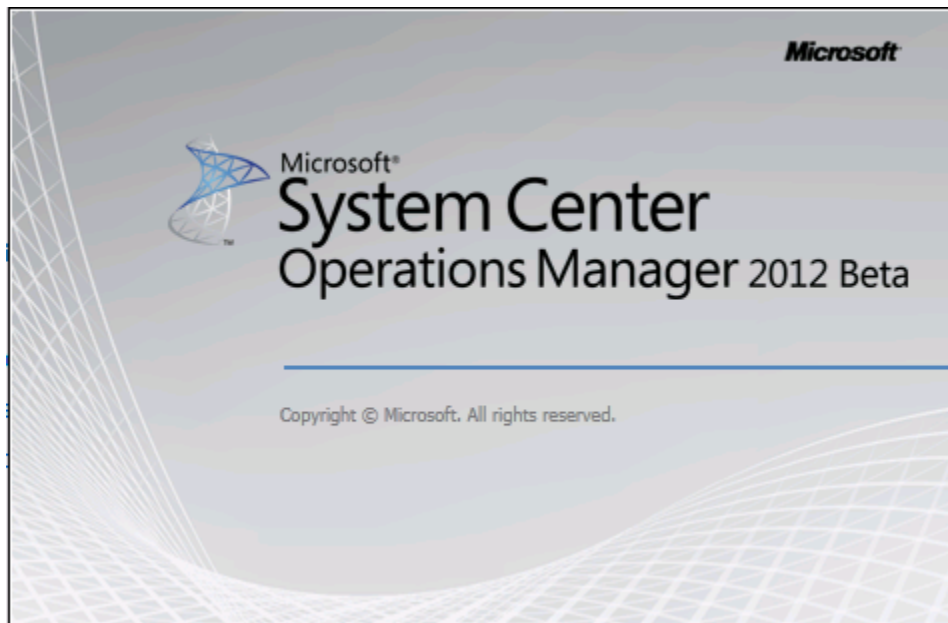


Microsoft System Center Operations Manager 2012 Beta Deployment Document (Single-Server)

Sep.17 2011



1. Deploy Environment Introduction :

This operations process including three 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. OpsMgr2012 :

Role : SCOM 2012 Beta + 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. Console :

Role : Domain Member and SCOM 2012 Beta Remote Console

OS : Windows 7 Enterprise Edition with SP1 x64

IE : IE 9.0

IP : 192.168.0.200/24

DNS : 192.168.0.100

2. Supported Configurations :

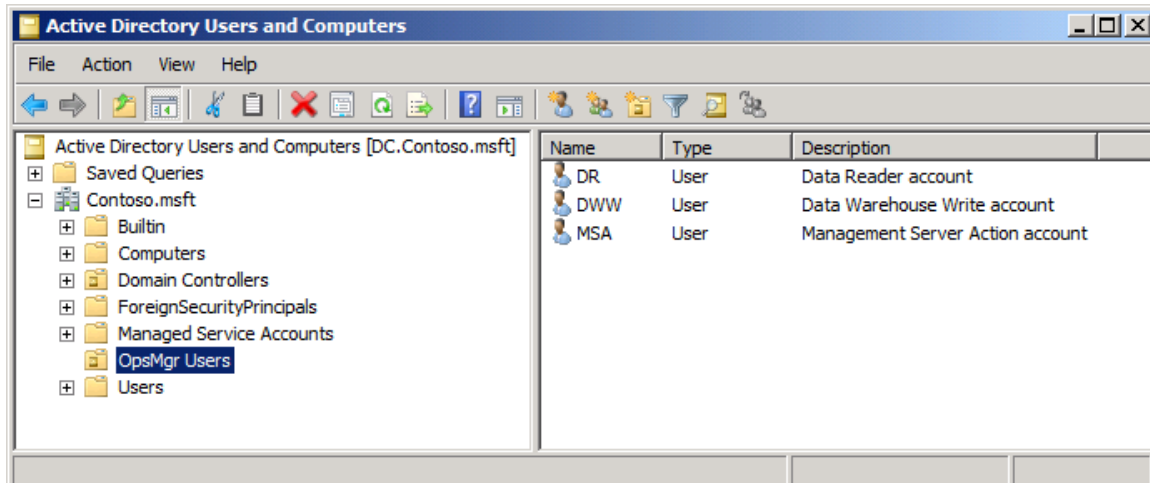
1) You can reference TechNet Website :

<http://technet.microsoft.com/en-us/library/hh205990.aspx>

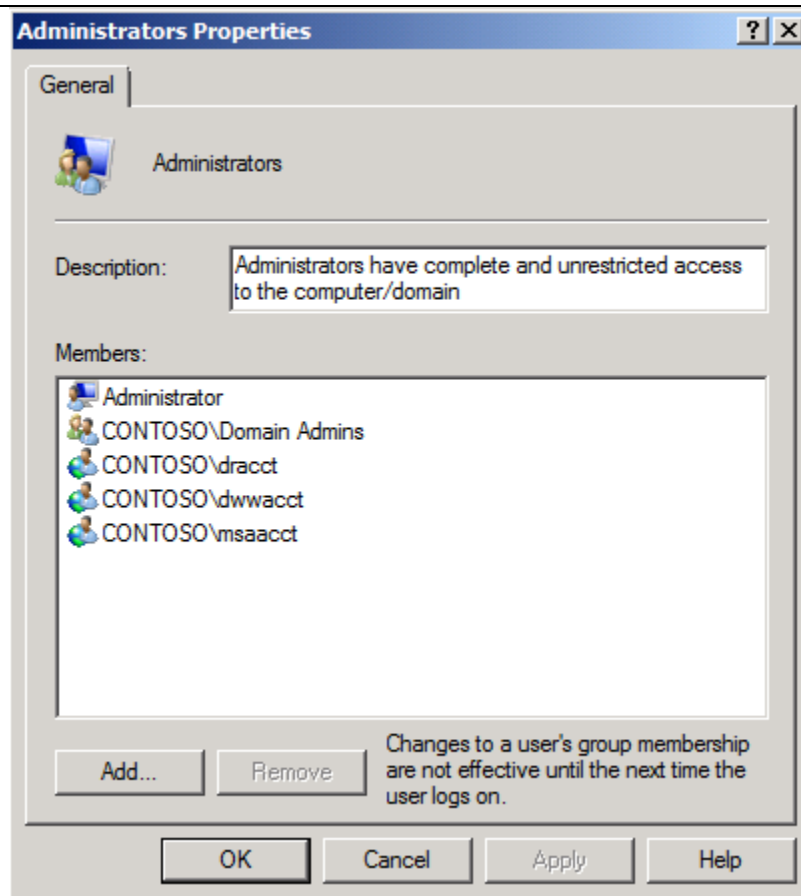
3. Deploy Active Directory :

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.

2) Create three Domain Users accounts :



Display Name	Alias	Description
DR	dracct@contoso.msft	Domain Users ; Need have SCOM 2012 Server Local Admins privilege
DWW	dwwacct@contoso.msft	
MSA	msaacct@contoso.msft	



Note:

Required Accounts

During Setup, you are prompted for two accounts, the **management server action account** and the **System Center Configuration service and System Center Data Access service** account. In Operations Manager 2012, you can use the same account for both services.

- **Management server action account:** This account is used to carry out actions on monitored computers across a network connection. To save time, specify a domain-based account. We recommend that you create an account for this purpose and do not use an account that has domain administrative credentials.
- **System Center Configuration service and System Center Data Access service account:** This account is one set of credentials that is used to update and read information in the operational database. Operations Manager ensures that the credentials used for the System Center Data Access service and System Center Configuration service account are assigned to the sdk_user role in the operational database. The System Center Data Access service and System Center Configuration service account can be configured as either Local System or as a domain account. If the management server and the operational database are on different computers, the System Center Configuration service and System Center Data Access Service account must be a

domain-based account. For better security, we recommend that you use an account different from the one used for the management server action account.

Data Warehouse and Reporting Requirements

During this installation, you are prompted for two accounts: the Data Warehouse Write account and the Data Reader account. These accounts are created as domain user accounts and added to the local Administrators group on the target server.

- **Data Warehouse Write account:** This account is assigned write permissions on the Data Warehouse database and read permissions on the operational database.

Note

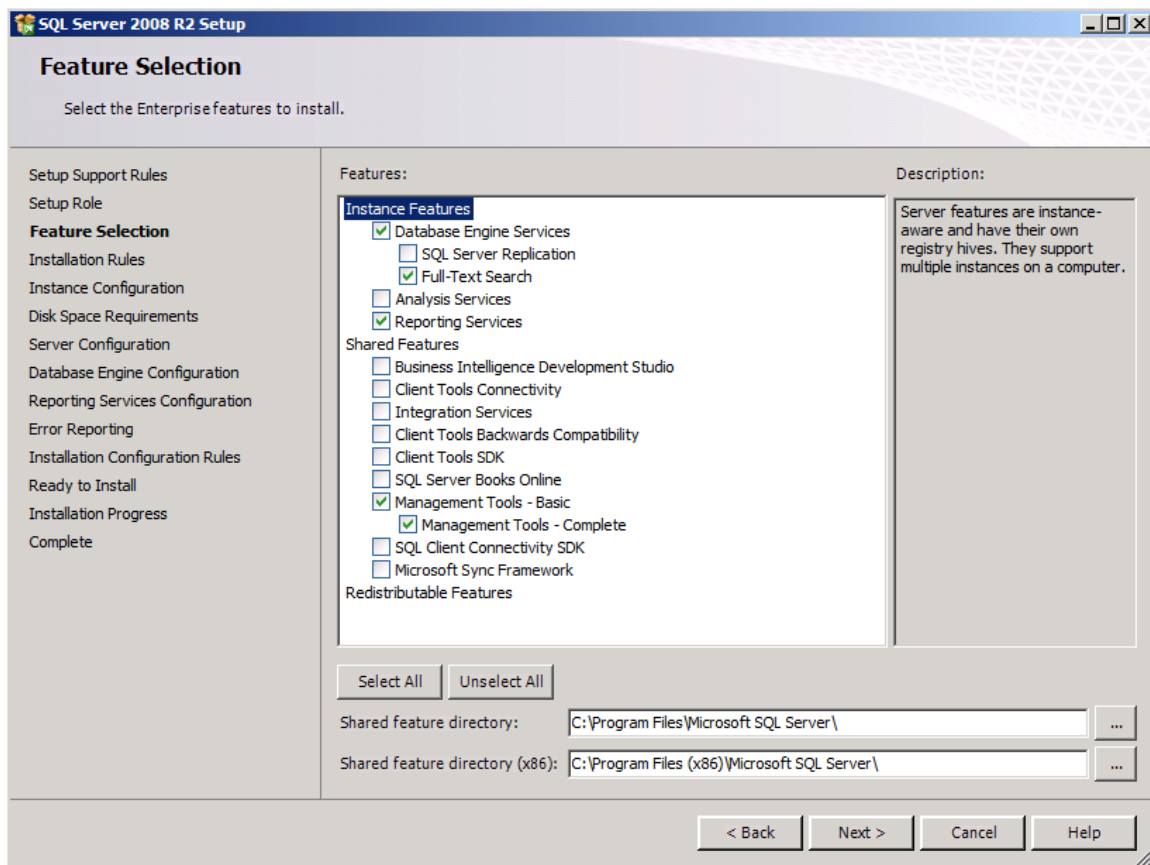
Before you perform this procedure, ensure that the account you plan to use for the Data Warehouse Write account has SQL Server Logon rights and is an administrator on the computers hosting both the operational database and the reporting data warehouse. Otherwise, Setup fails, and all changes are rolled back. This might leave SQL Server Reporting Services in an inoperable state.

- **Data Reader account:** This account is used to define which account credentials SQL Server Reporting Services uses to run queries against the Operations Manager reporting data warehouse. This account is also used for the SQL Server Reporting Services IIS Application Pool account to connect to the management servers.

4. Deploy SCOM 2012 Beta Database :

1) Operations Manager 2012 requires access to an instance of a server running Microsoft SQL Server 2008 SP1 or SQL Server 2008 R2. This instance can be located on a separate computer from the management servers in a distributed installation or on the first management server in the management group.

2) Logon to **OpsMgr2012** server , installing SQL Server 2008 R2 enterprise edition with SP1. In **Feature Selection** step when you install SQL Server phase , you need to select **Database Engine Services, Full-Text Search, Reporting Services and Management Tools – Basic** :



3) In **Server Configuration** step , You need setting **SQL Server Agent Startup**

Type is **Automatic** in **Service Accounts** page:

SQL Server 2008 R2 Setup

Server Configuration

Specify the service accounts and collation configuration.

Setup Support Rules
Setup Role
Feature Selection
Installation Rules
Instance Configuration
Disk Space Requirements
Server Configuration
Database Engine Configuration
Reporting Services Configuration
Error Reporting
Installation Configuration Rules
Ready to Install
Installation Progress
Complete

Service Accounts | Collation

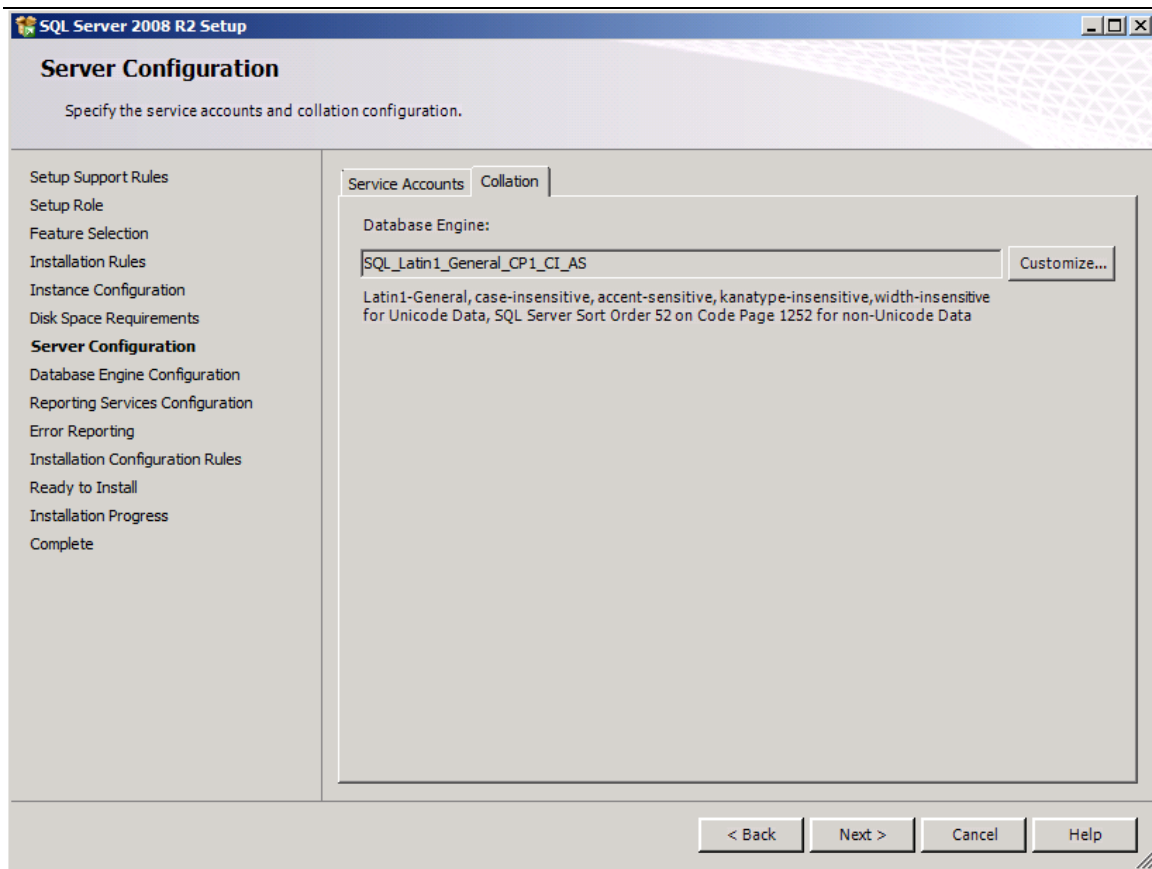
Microsoft recommends that you use a separate account for each SQL Server service.

Service	Account Name	Password	Startup Type
SQL Server Agent	NT AUTHORITY\SYSTEM		Automatic
SQL Server Database Engine	NT AUTHORITY\SYSTEM		Automatic
SQL Server Reporting Services	NT AUTHORITY\SYSTEM		Automatic
SQL Full-text Filter Daemon Launcher	NT AUTHORITY\LOCAL S...		Manual
SQL Server Browser	NT AUTHORITY\LOCAL S...		Disabled

Use the same account for all SQL Server services

< Back Next > Cancel Help

4) In **Collation** settings must be **SQL_Latin1_General_CP1_CI_AS** :

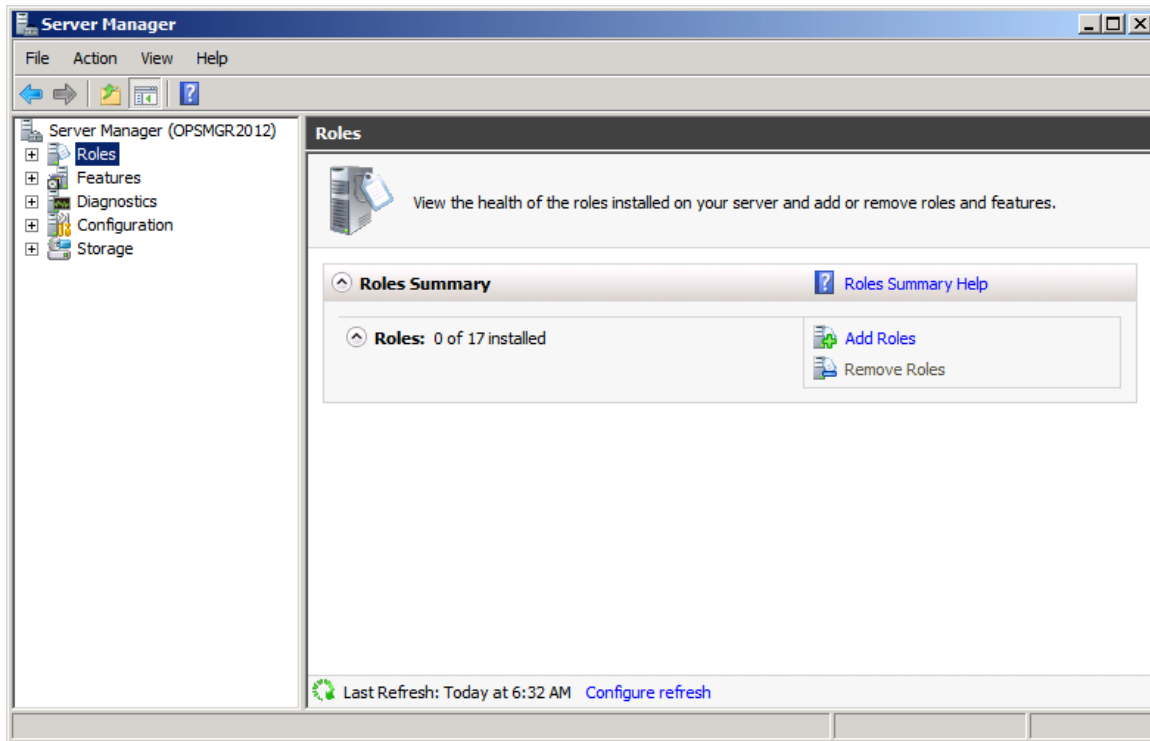


5) Other steps you can based on your requirements to setting, and finished to install . After setup , don' t forget installing **SQL Server 2008 R2 SP1** .

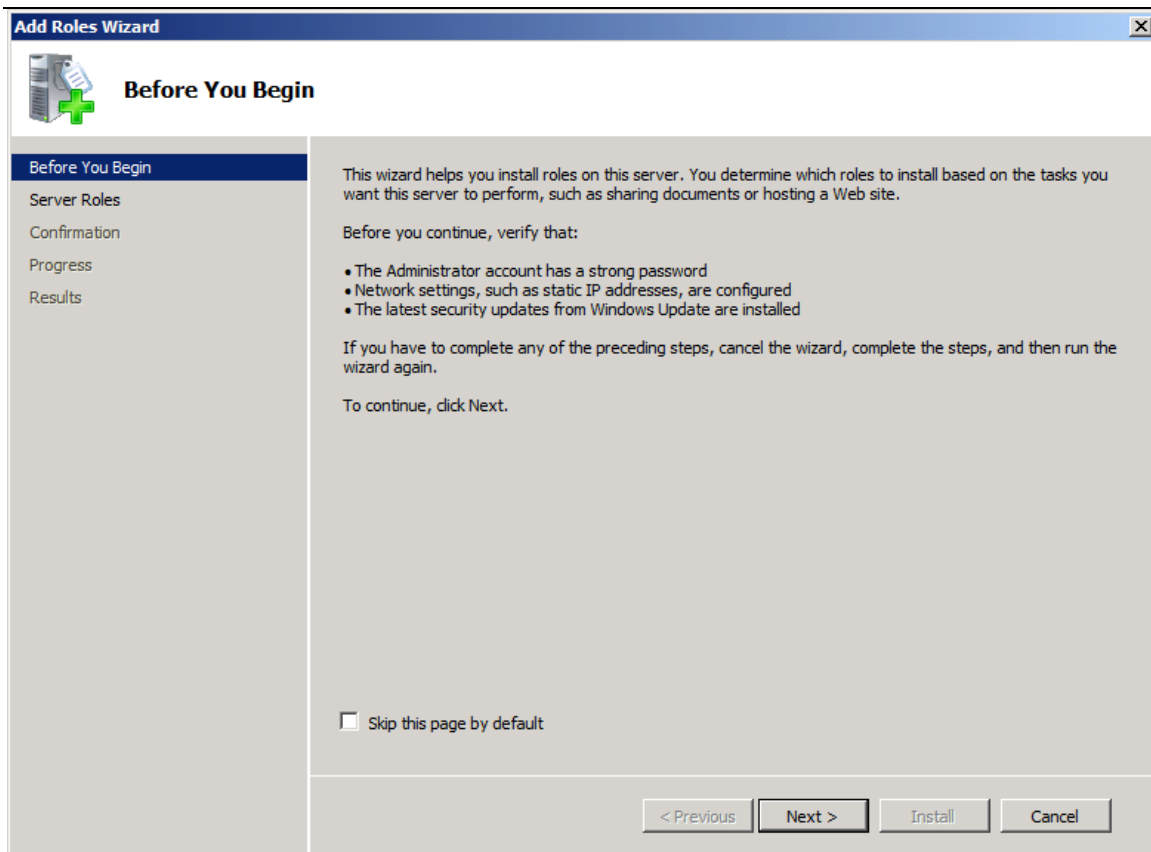
5. Installing SCOM 2012 Beta requirement

Windows components :

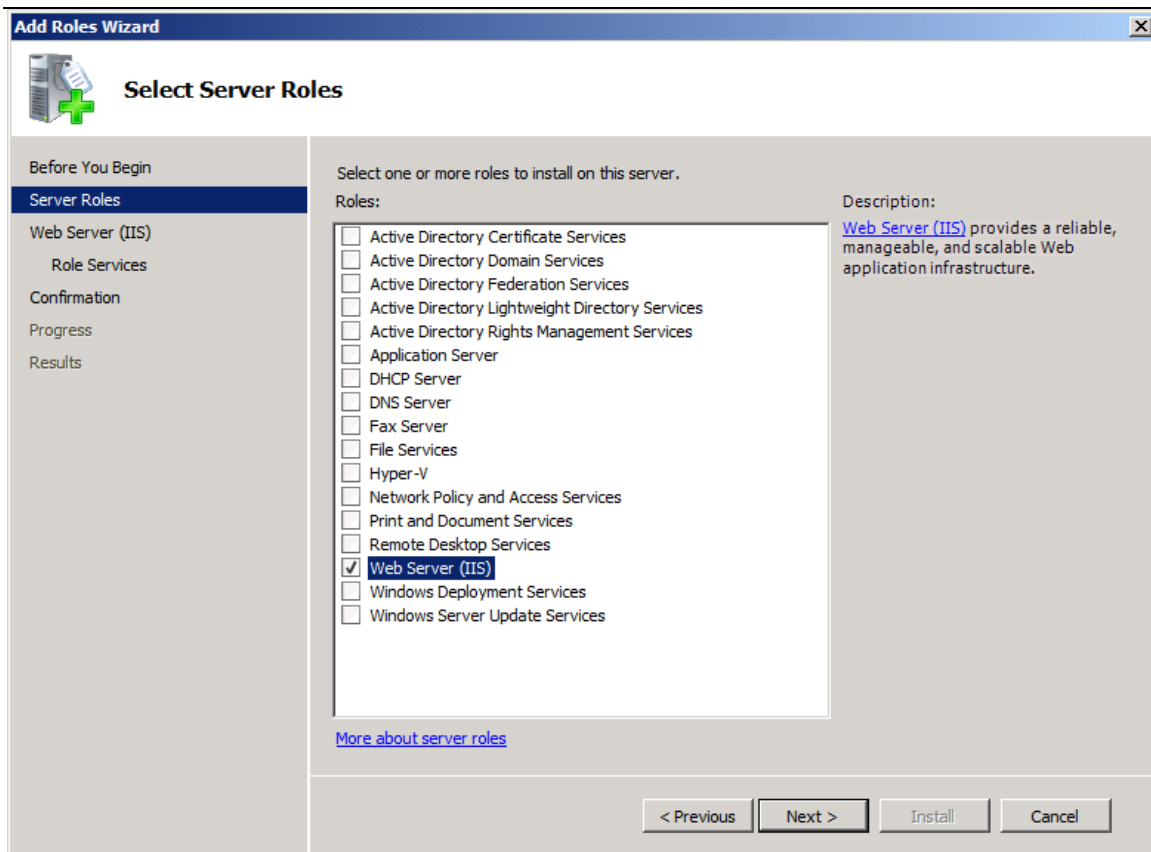
1) Logon to **OpsMgr2012** Server , Open **Server Manager** , Click **Roles** :



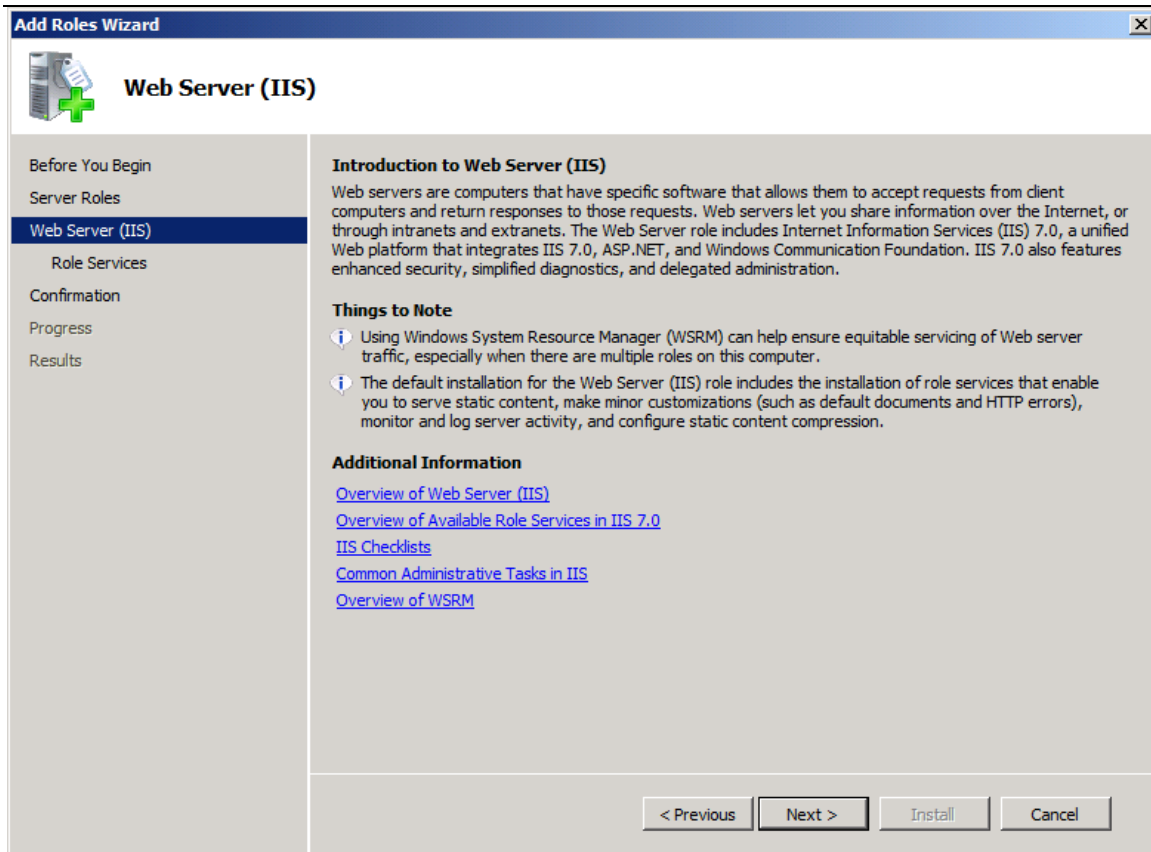
2) Display **Add Roles Wizard** :



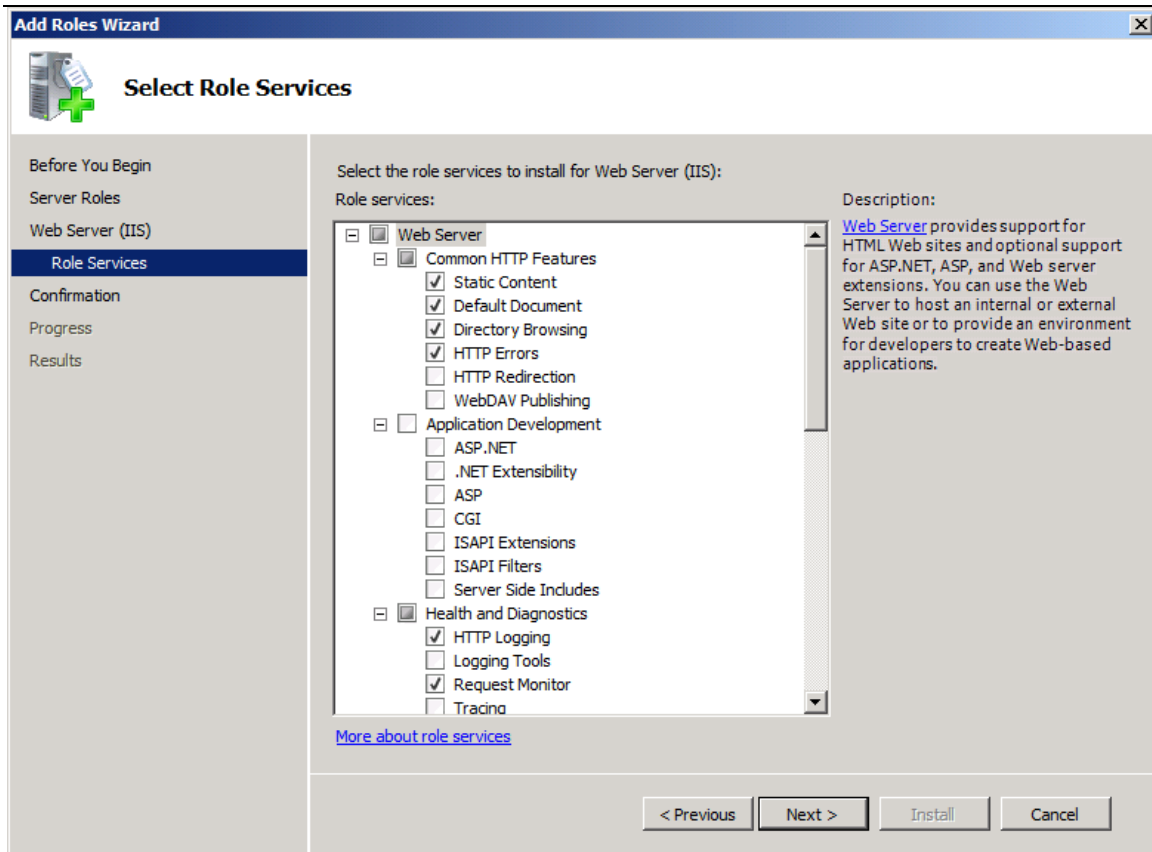
3) Click **Next** , display **Select Server Roles** step and choose **Web Server (IIS)** :



4) Click **Next** , display **Web Server (IIS)** step :




5) Click **Next** , display **Select Role Services** step :



6) Choose **ASP.NET** , **Windows Authentication** and **IIS6 Metabase**

Compatibility :

Add Roles Wizard

 **Select Role Services**

Before You Begin
Server Roles
Web Server (IIS)
Role Services
Confirmation
Progress
Results

Select the role services to install for Web Server (IIS):

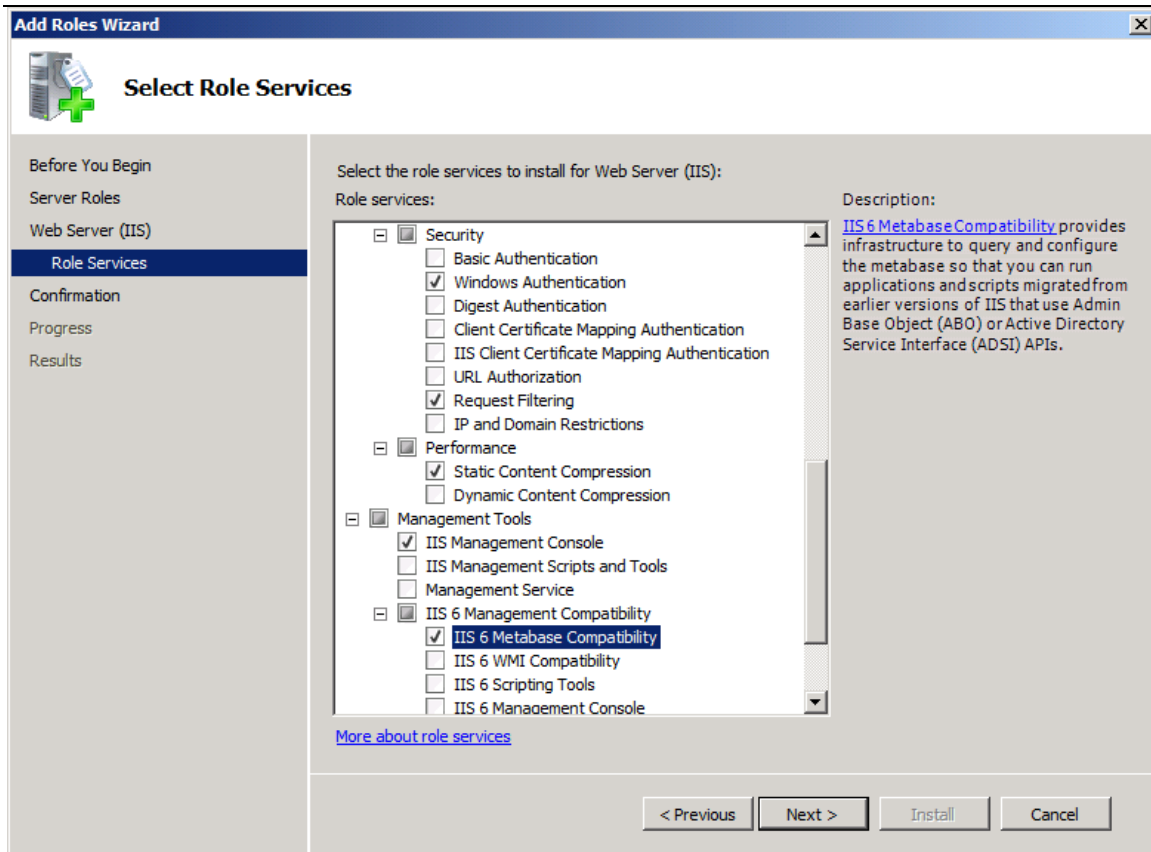
Role services:

- ☒ Web Server
 - ☒ Common HTTP Features
 - ☒ Static Content
 - ☒ Default Document
 - ☒ Directory Browsing
 - ☒ HTTP Errors
 - ☐ HTTP Redirection
 - ☐ WebDAV Publishing
 - ☒ Application Development
 - ☒ **ASP.NET**
 - ☒ .NET Extensibility
 - ☐ ASP
 - ☐ CGI
 - ☒ ISAPI Extensions
 - ☒ ISAPI Filters
 - ☐ Server Side Includes
 - ☒ Health and Diagnostics
 - ☒ HTTP Logging
 - ☐ Logging Tools
 - ☒ Request Monitor
 - ☐ Tracing

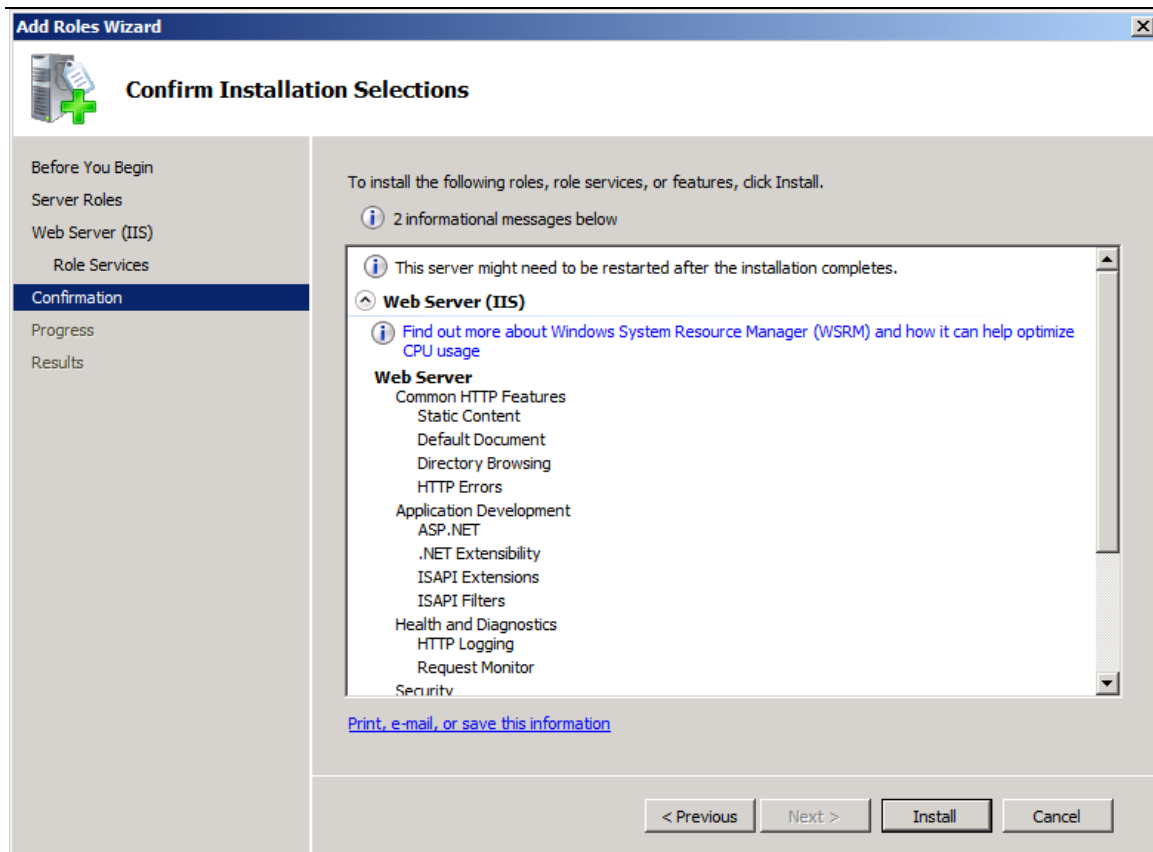
Description:
[ASP.NET](#) provides a server side object oriented programming environment for building Web sites and Web applications using managed code. ASP.NET is not simply a new version of ASP. Having been entirely re-architected to provide a highly productive programming experience based on the .NET Framework, ASP.NET provides a robust infrastructure for building web applications.

[More about role services](#)

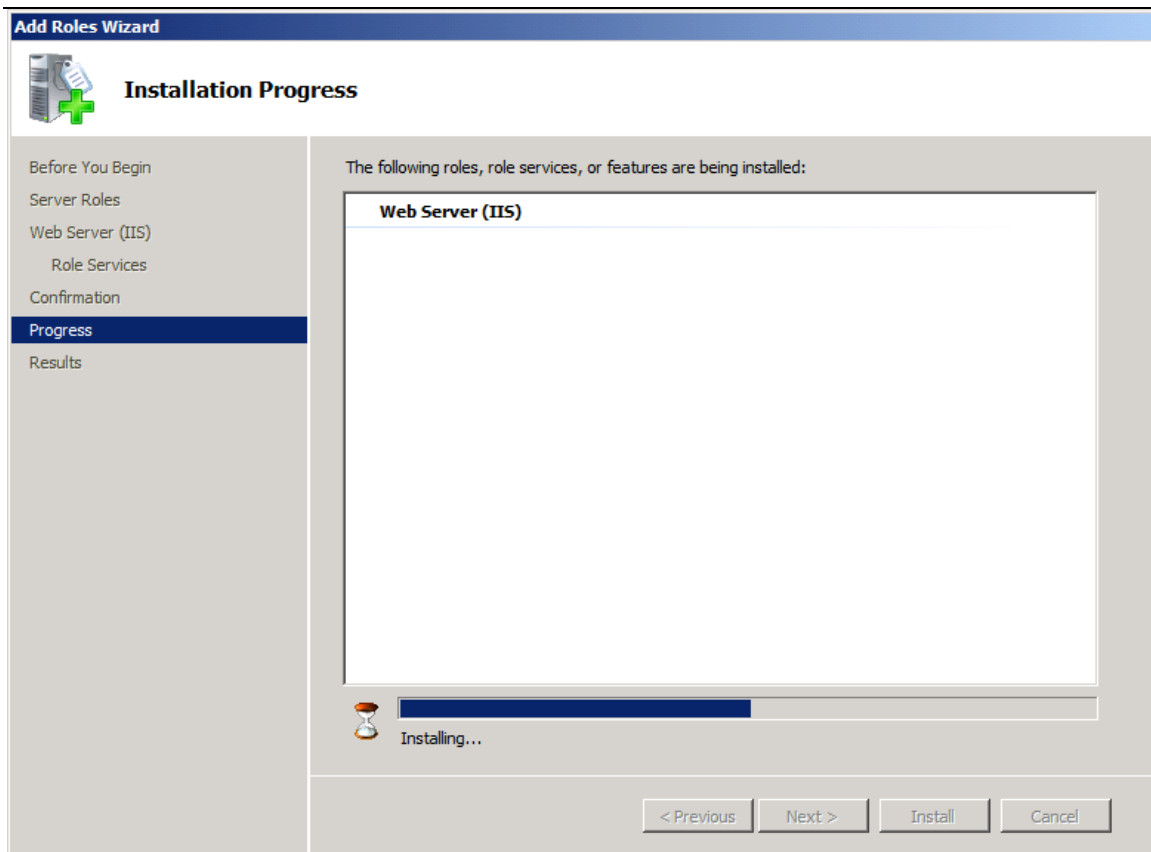
< Previous Next > Install Cancel



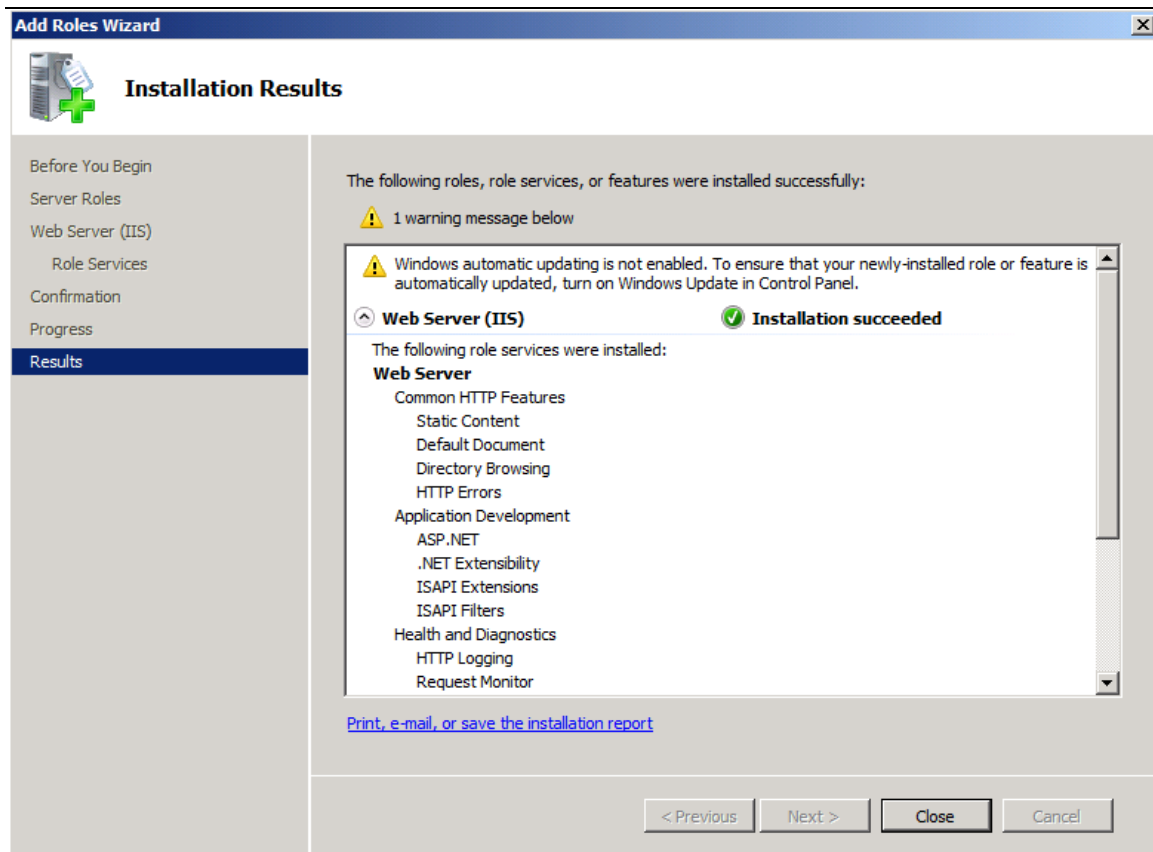
7) Click **Next** , display **Confirm Installation Selections** step :



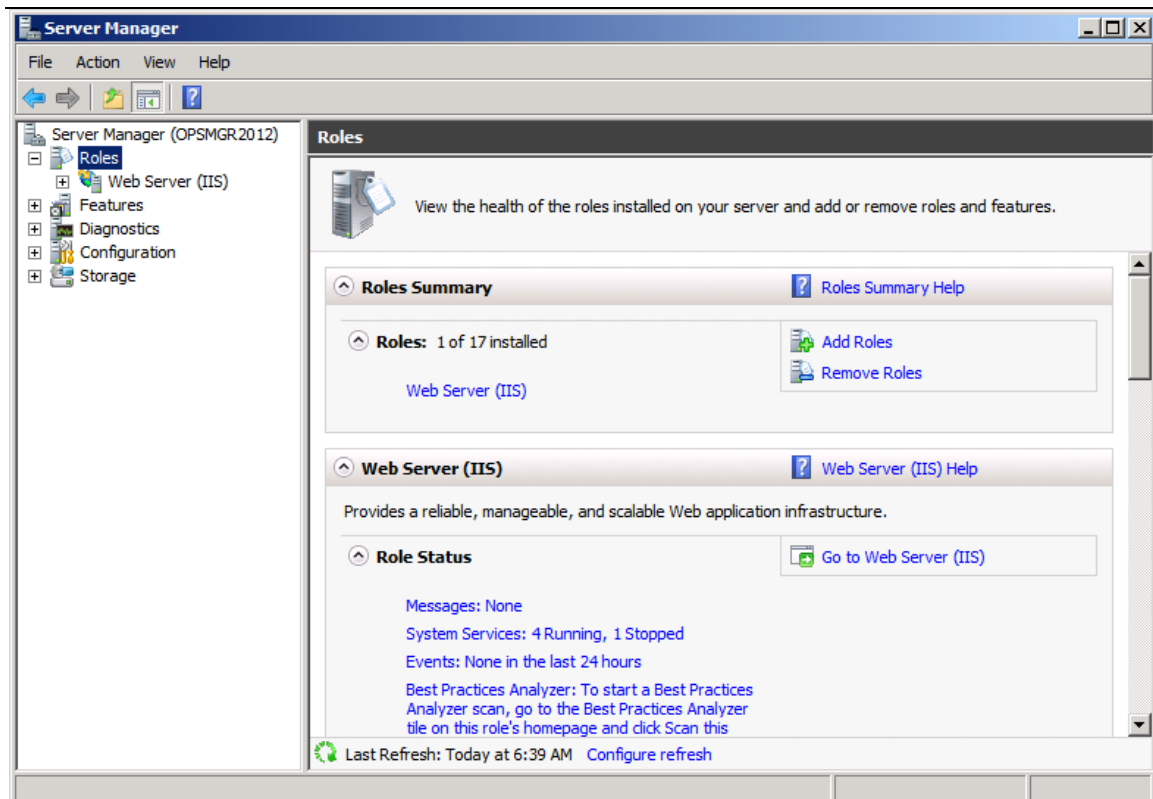
8) Make sure that all components have been selected to complete , click **Install** , go to **Installation Progress** page:



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

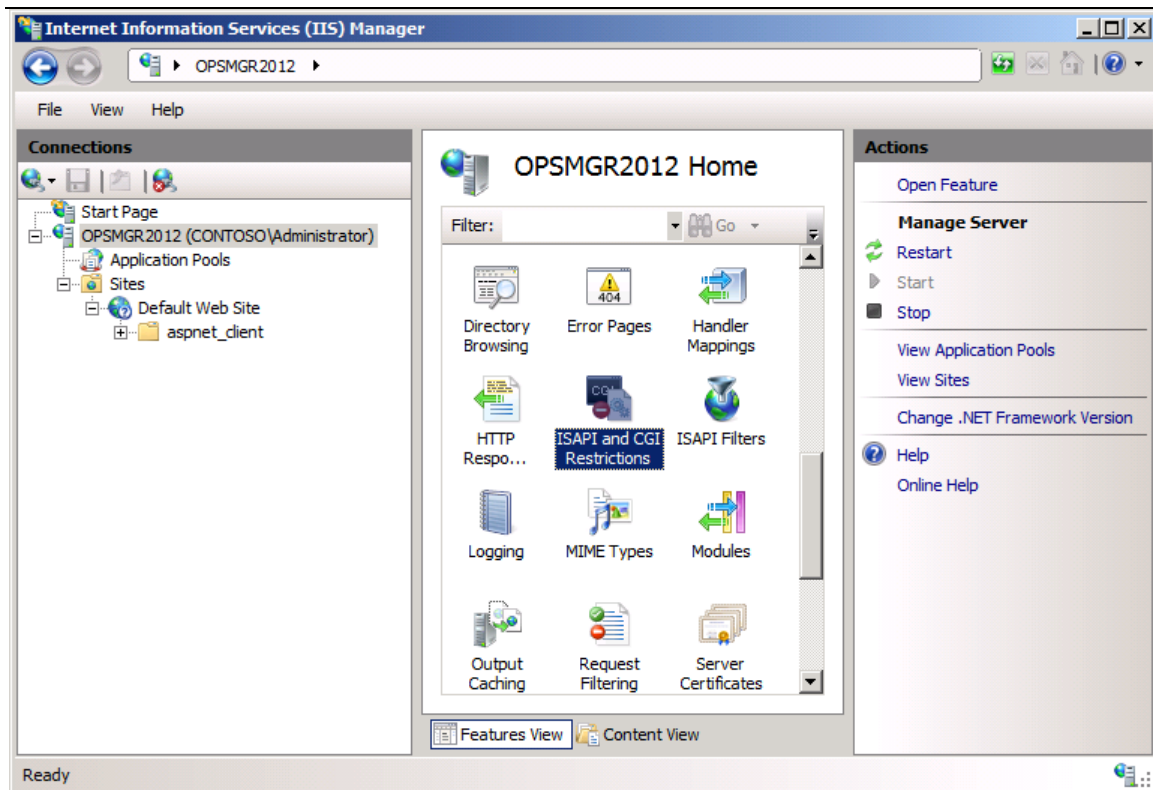


10) Click **Close** will go to **Server Manager** homepage :

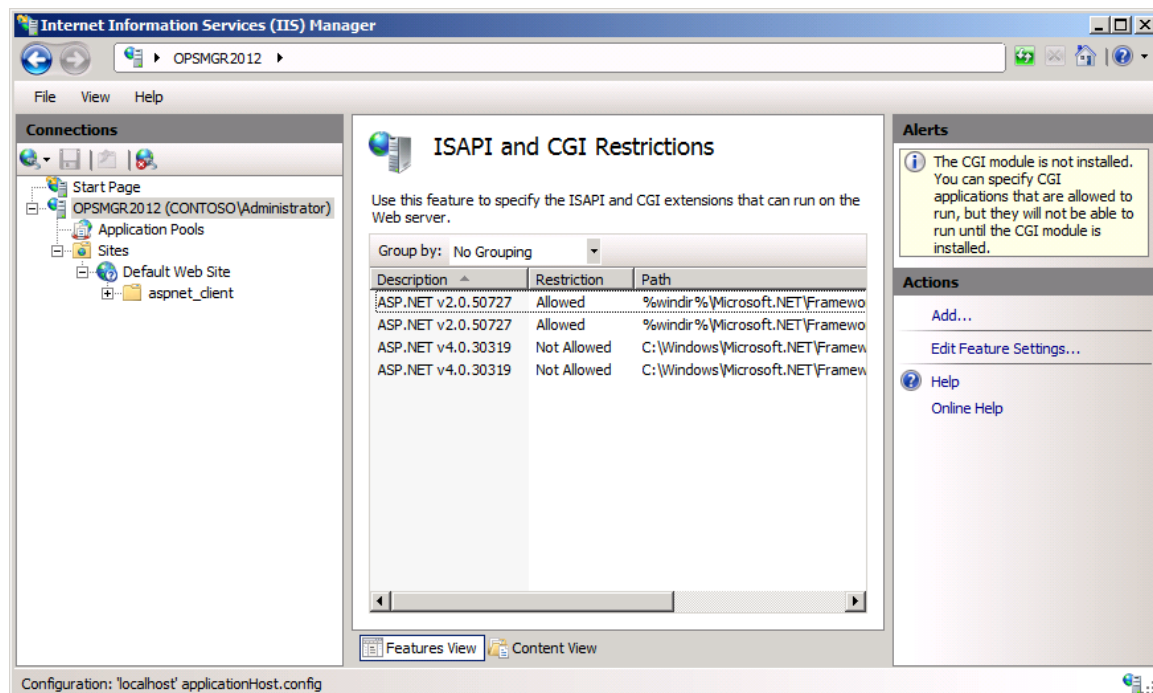


11) Last don't forget install **.Net framework 4.0** tool.

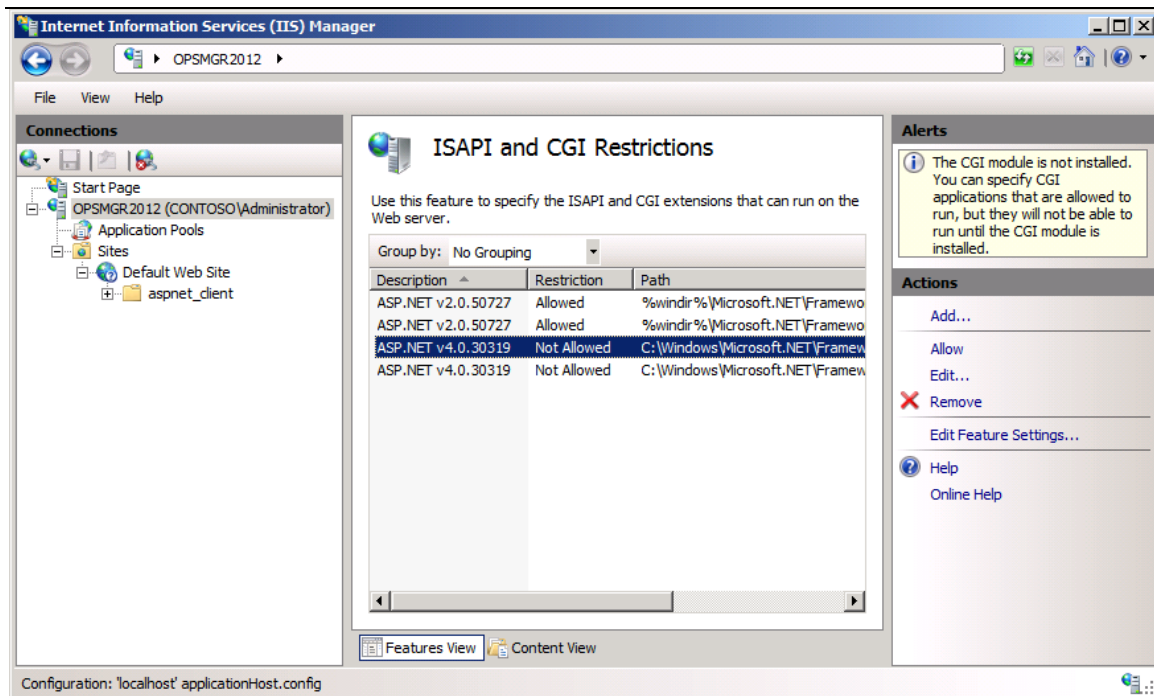
12) Installation of the **web console** requires that **ISAPI and CGI Restrictions** in IIS be enabled for **ASP.NET 4**. To enable this, Open **Internet Information Services (IIS) Manager** , double-click **ISAPI and CGI Restrictions** :



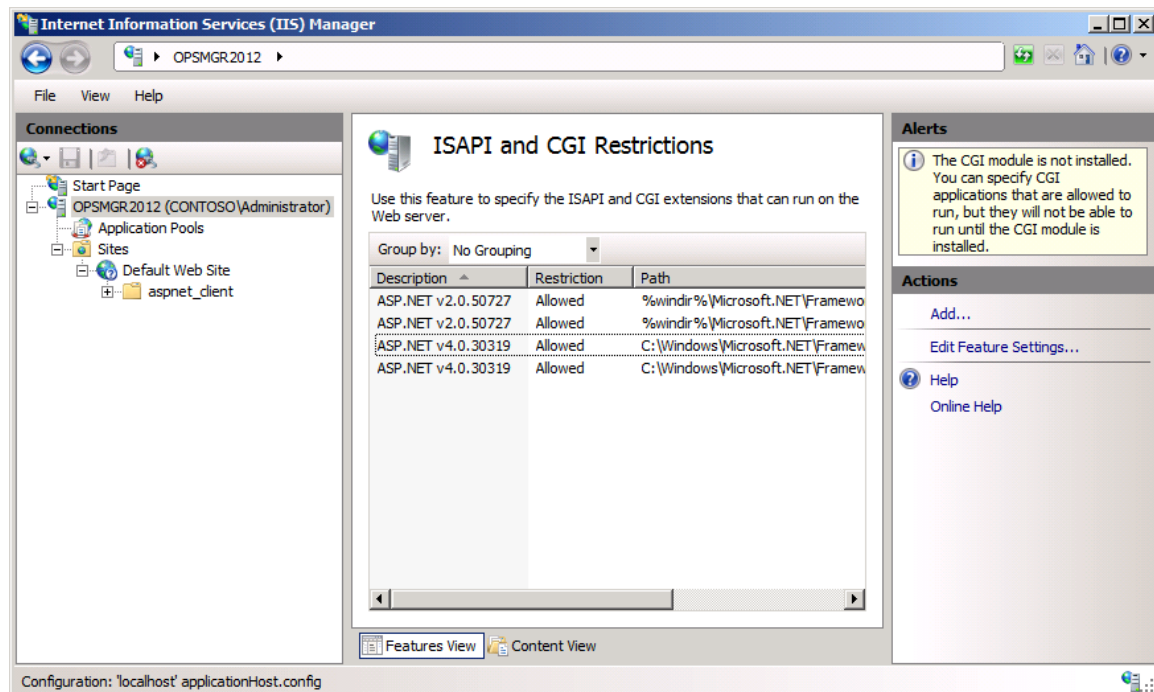
13) **ISAPI and CGI Restrictions** setting page is display :



14) Select **ASP.NET v4.0.30319** :



15) and then click **Allow** :



16) Close IIS Manager .

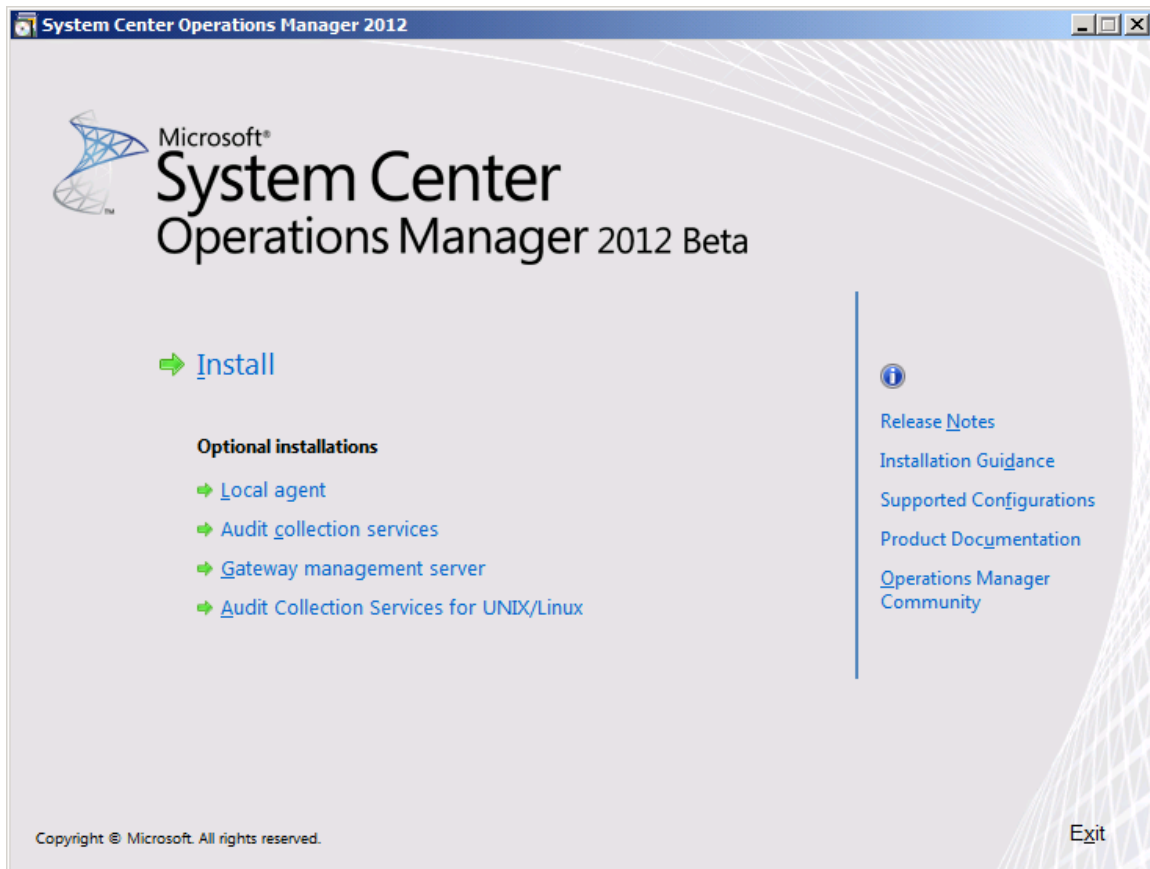
Note:

You must install IIS before installing .NET Framework 4. If you installed IIS after installing .NET Framework 4, you must register ASP.NET 4.0 with IIS. Open a Command prompt window by using the **Run As Administrator** option and then run the following command:

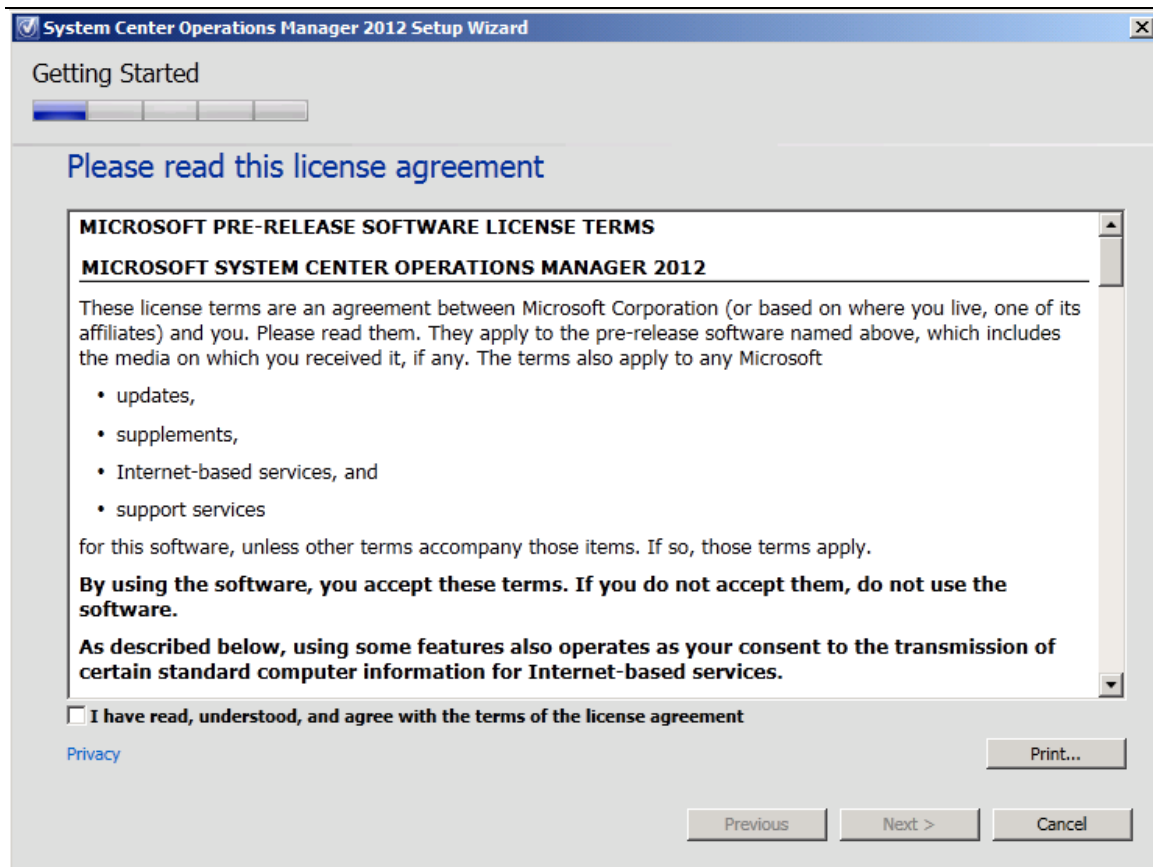
%WINDIR%\Microsoft.NET\Framework64\v4.0.30319\aspnet_regiis.exe -r

6. Install SCOM 2012 Beta Management Server :

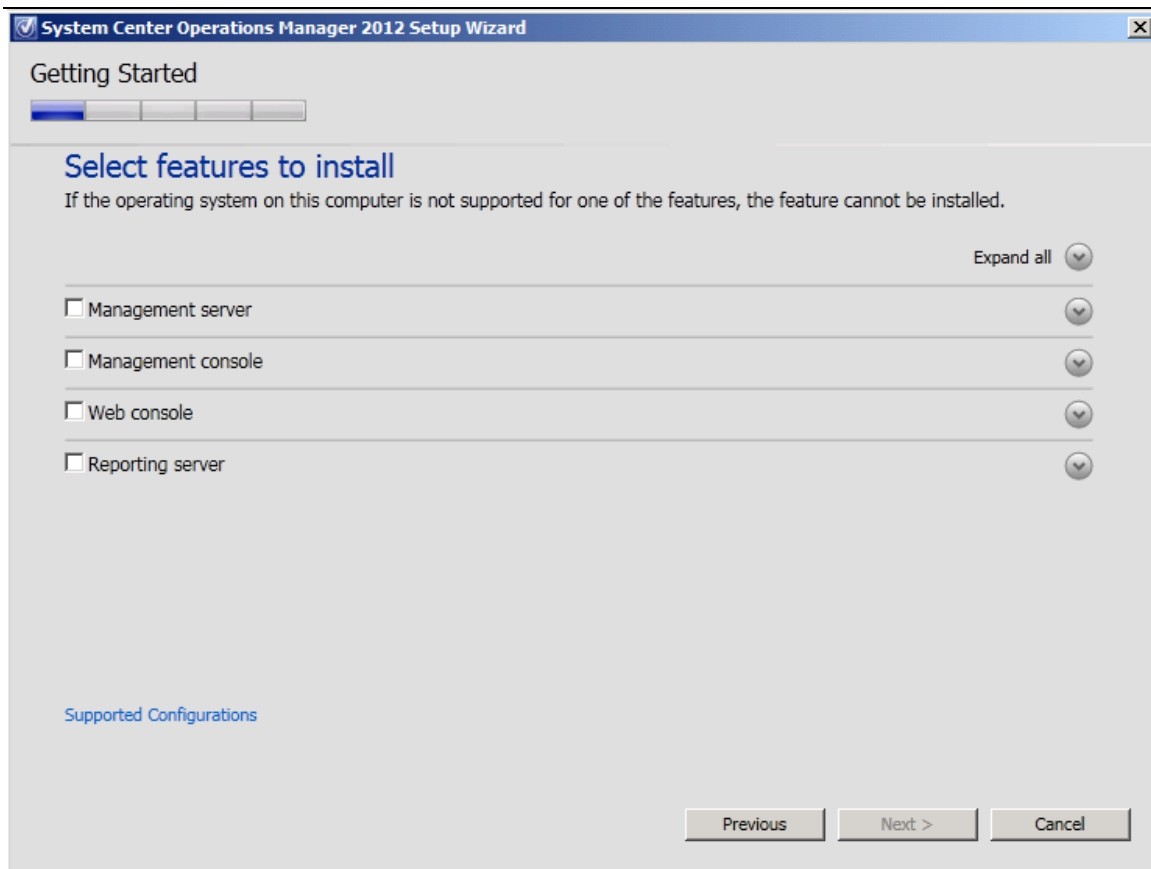
1) Logon to **OpsMgr2012** server . Insert SCOM 2012 Beta image , auto-run and display install page:



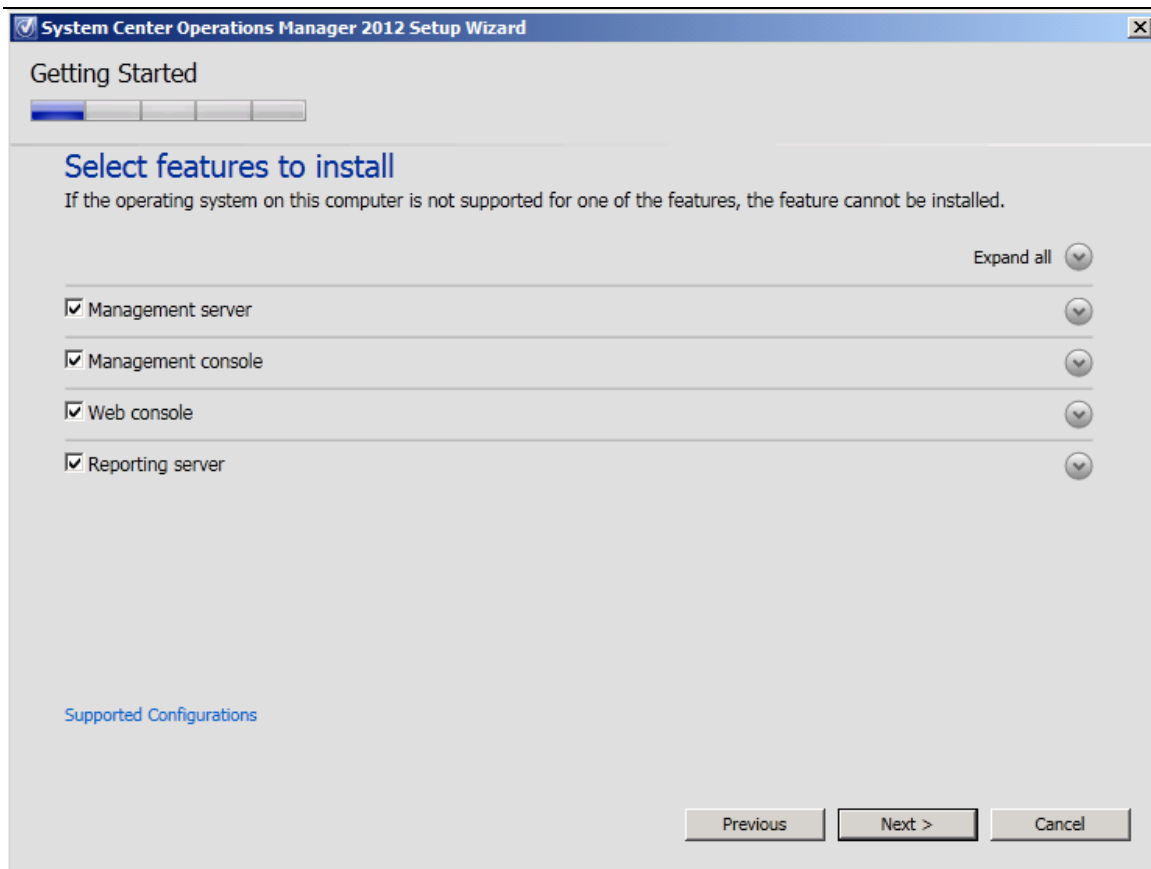
2) Click **Install** , display **Getting Started , Please read this license agreement** page :



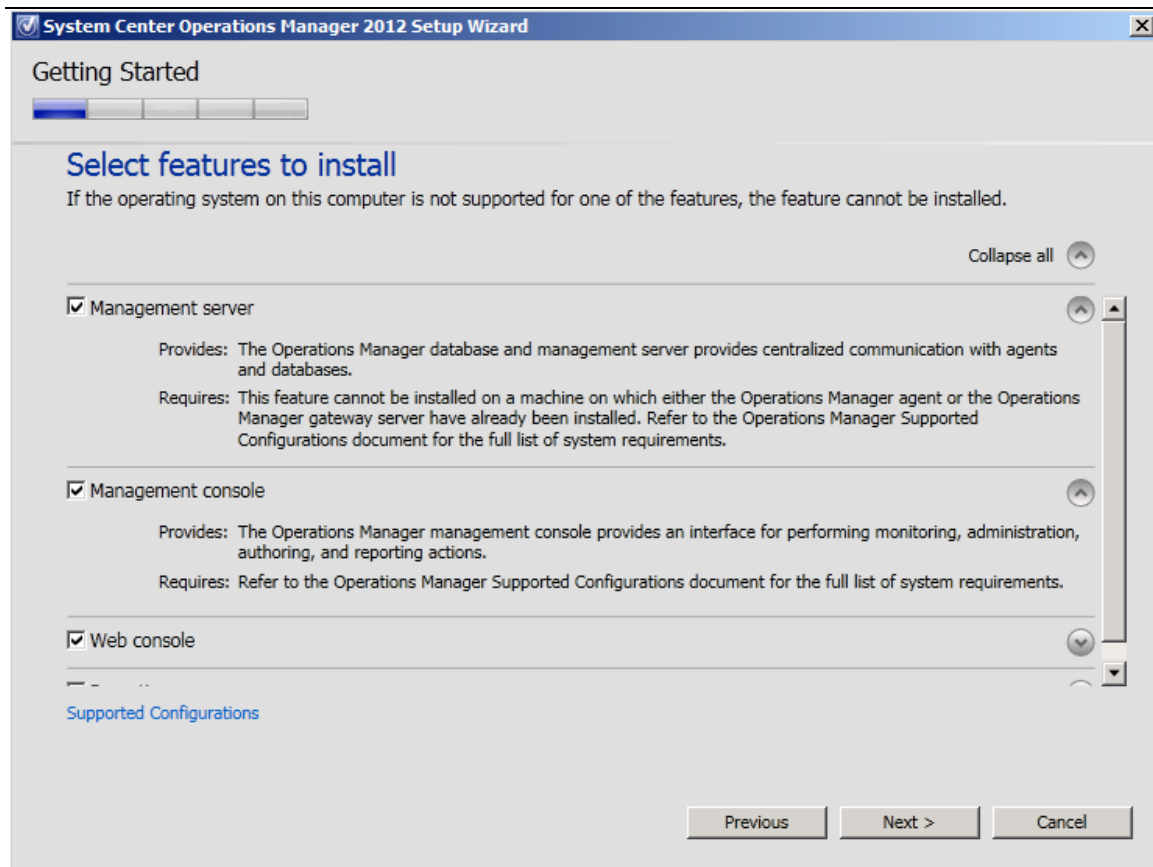
3) Select **I have read , understood , and agree with the terms of the license agreement** and click **Next** , display **Select features to install** page :

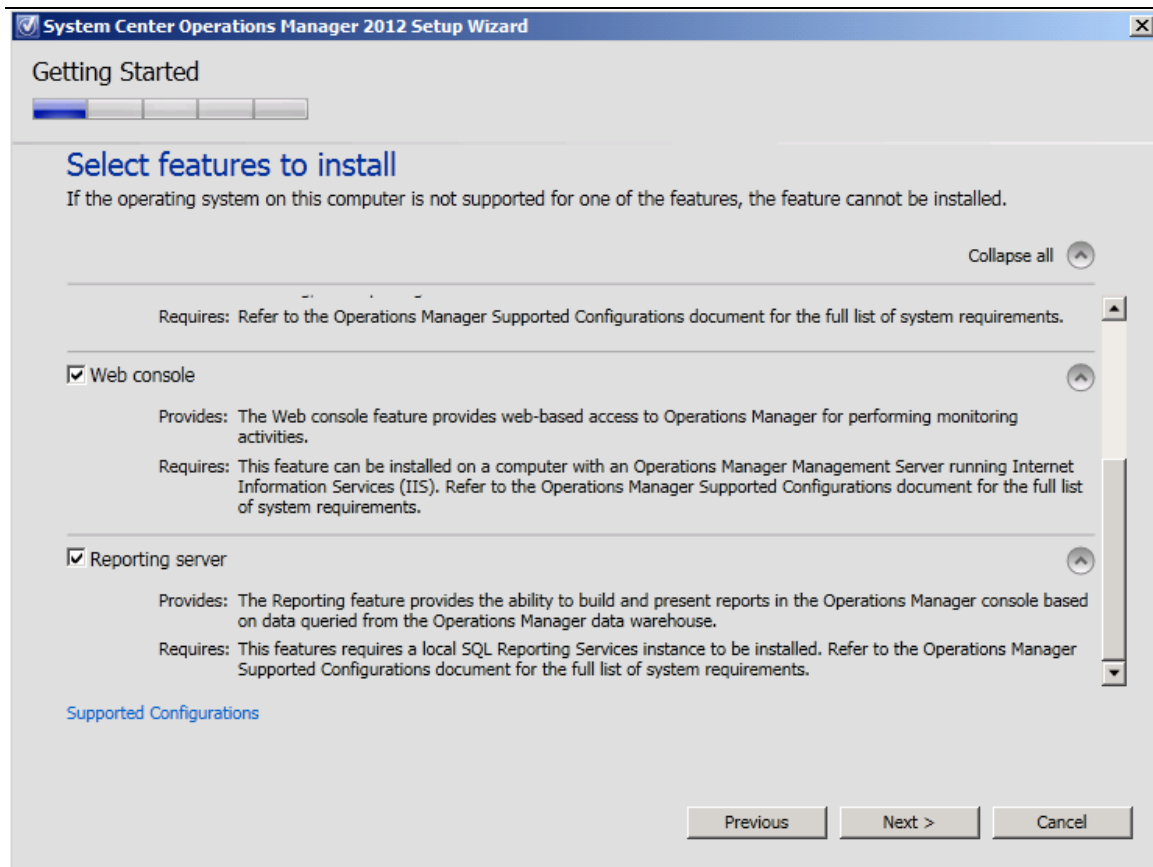


4) Select **Management server** , **Management console** , **Web console** and **Reporting server** features:

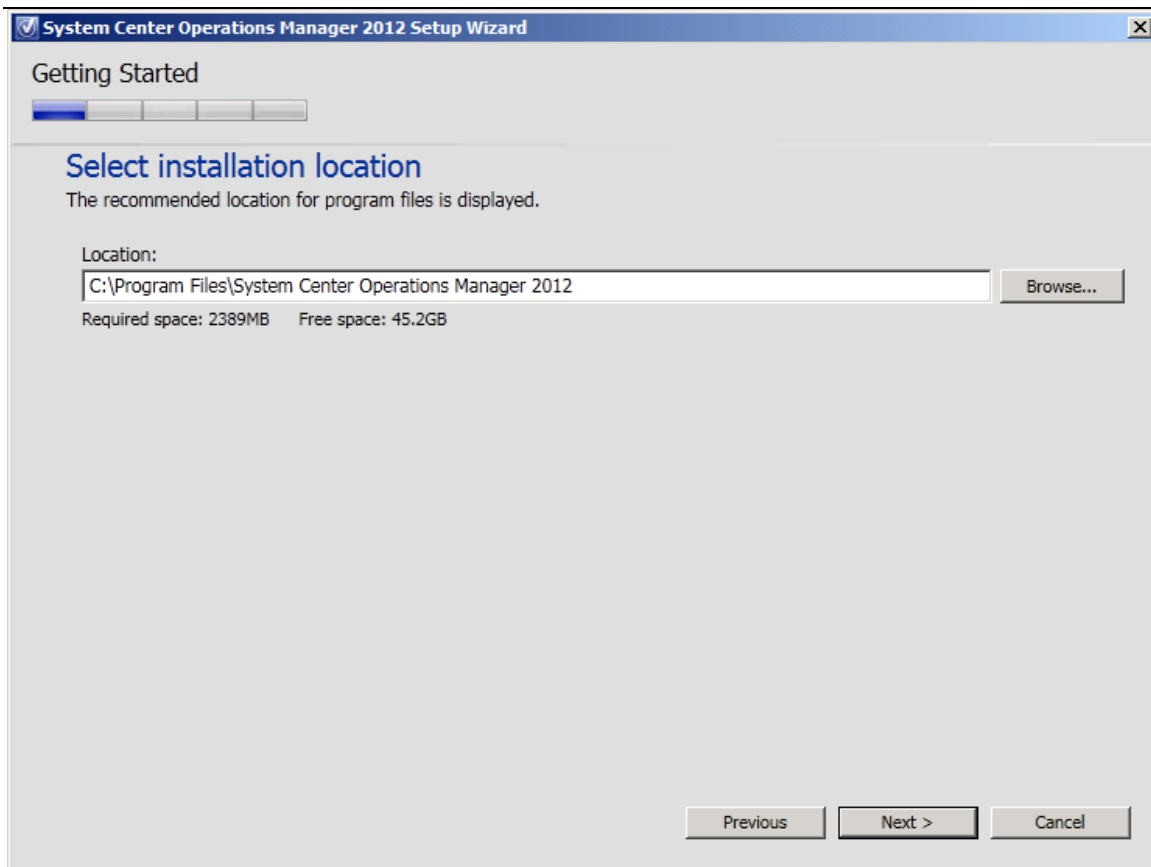


5) To read more about each features its requirements , click **Expand all** , or expand the buttons next to each feature :

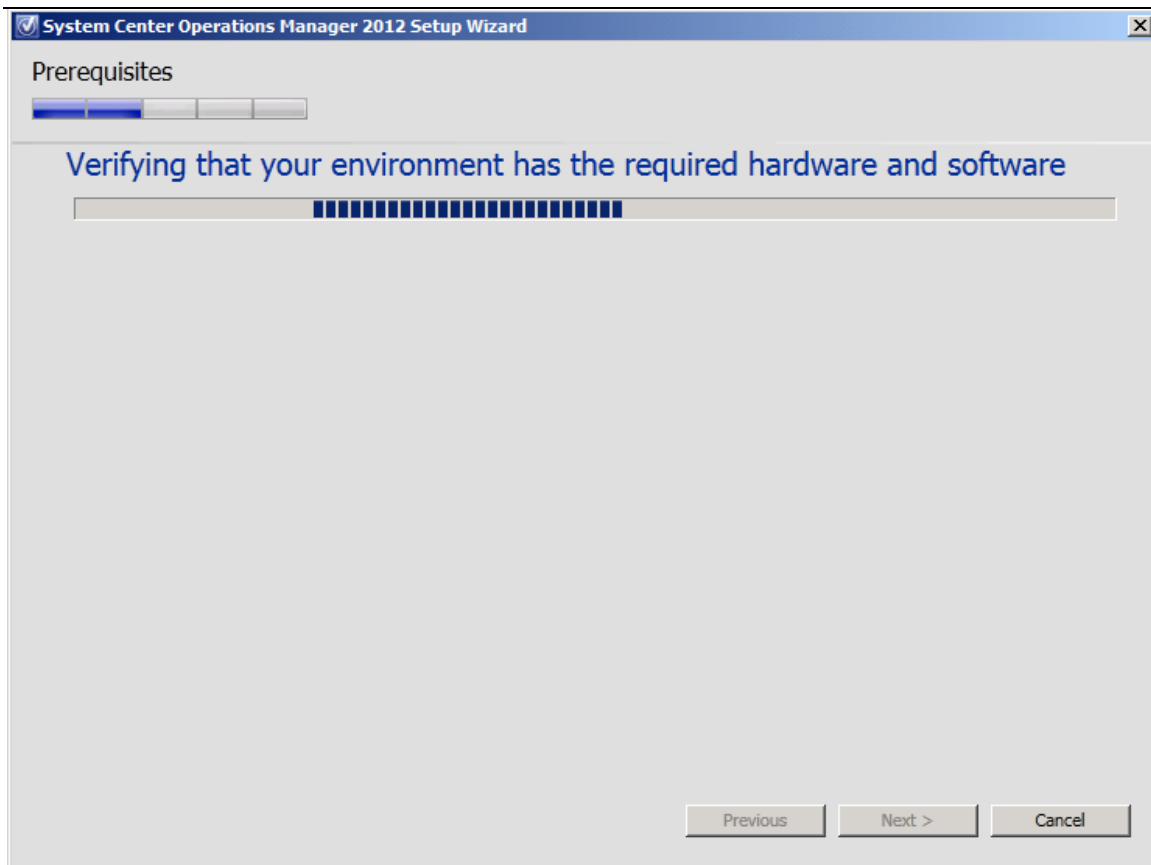




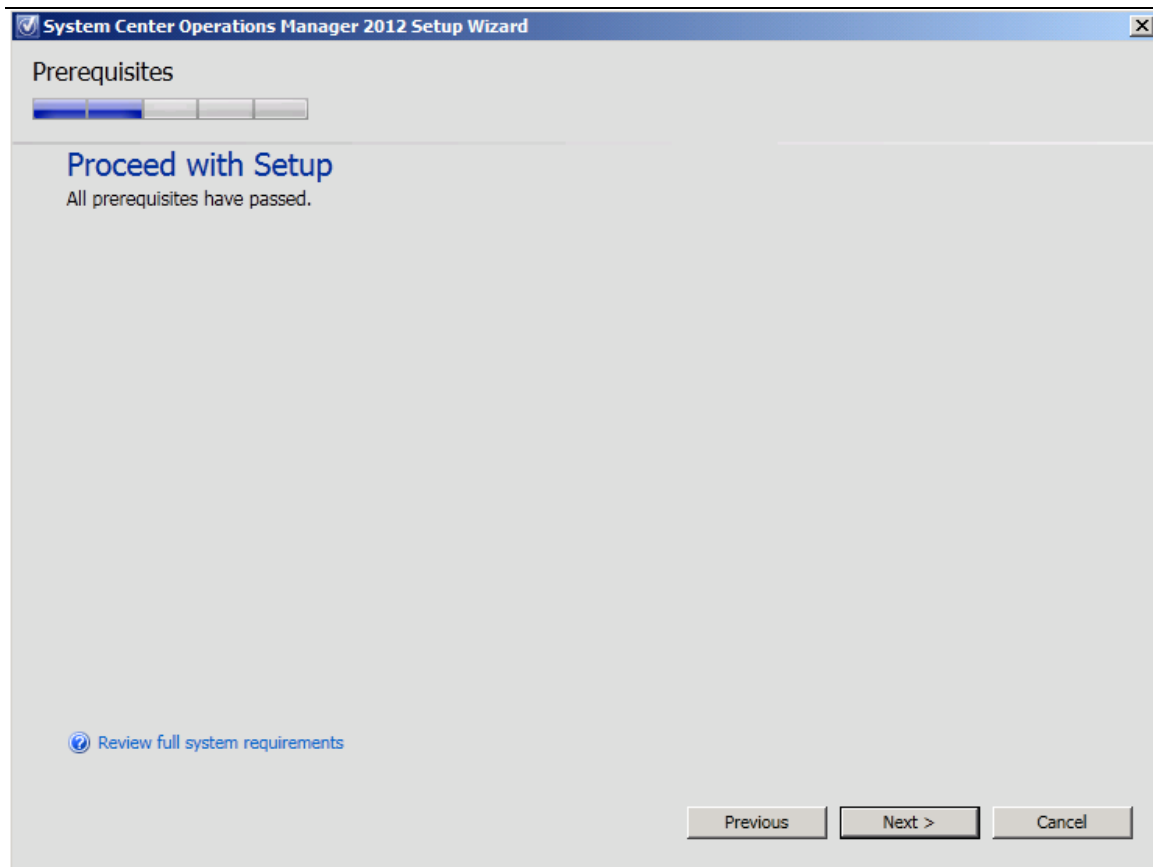
6) Click **Next** , display **Select installation location** page :



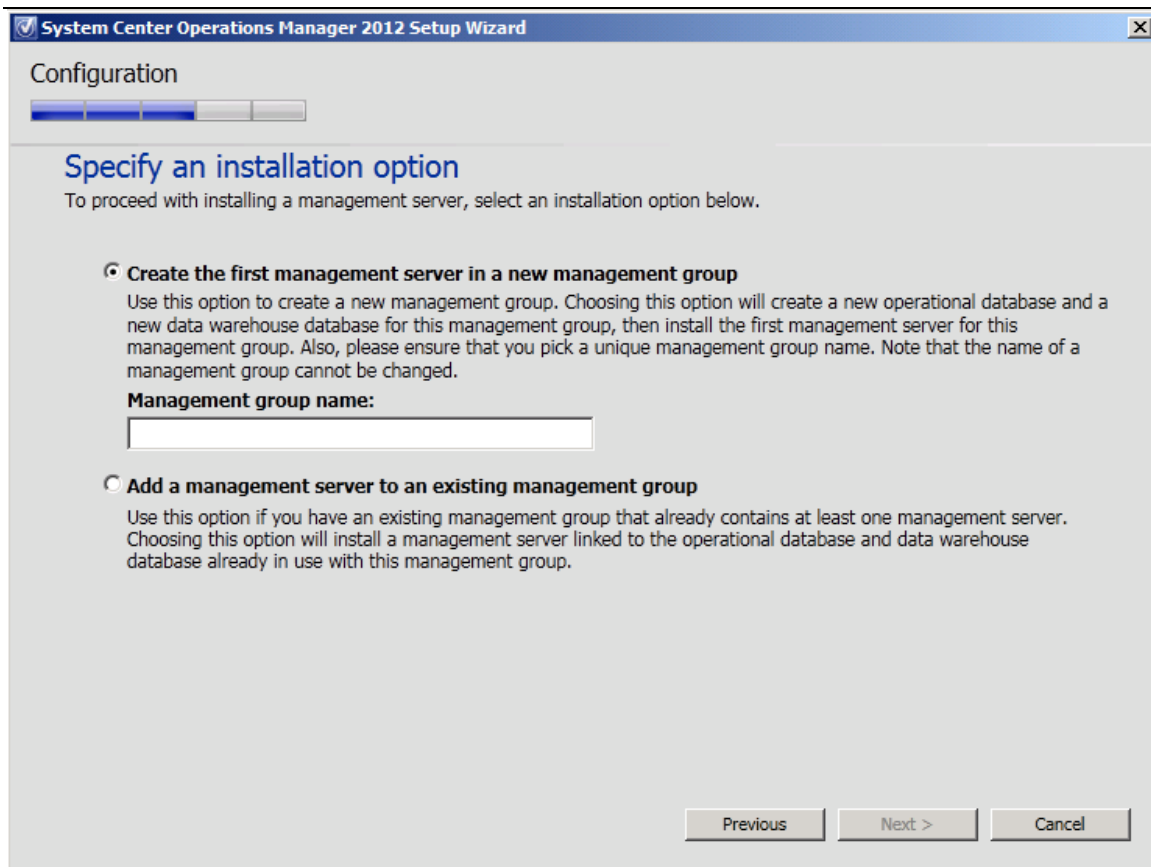
7) Keep this location or type in a new location , and click **Next** , display **Prerequisites** phase :



8) On the **Prerequisites** page , review and resolve any warnings or errors , and then click **Verify prerequisites again** to recheck the system . If the prerequisites checker does not return any warnings or errors , the **Proceed with Setup** page appears :



9) Click **Next** , display **Specify an installation option** page :



10) Select **Create the first management server in a new management group** , type in a name for your management group :

The screenshot shows the 'System Center Operations Manager 2012 Setup Wizard' window. The title bar includes a checkmark icon and the text 'System Center Operations Manager 2012 Setup Wizard'. Below the title bar is a 'Configuration' section with a progress bar showing four steps, with the first step being active. The main content area is titled 'Specify an installation option' in blue text. Below this title is a subtitle: 'To proceed with installing a management server, select an installation option below.' There are two radio button options. The first option, 'Create the first management server in a new management group', is selected. Its description states: 'Use this option to create a new management group. Choosing this option will create a new operational database and a new data warehouse database for this management group, then install the first management server for this management group. Also, please ensure that you pick a unique management group name. Note that the name of a management group cannot be changed.' Below this description is a text box labeled 'Management group name:' containing the text 'OpsMgr2012 MG'. The second option, 'Add a management server to an existing management group', is not selected. Its description states: 'Use this option if you have an existing management group that already contains at least one management server. Choosing this option will install a management server linked to the operational database and data warehouse database already in use with this management group.' At the bottom right of the window are three buttons: 'Previous', 'Next >', and 'Cancel'.

System Center Operations Manager 2012 Setup Wizard

Configuration

Specify an installation option

To proceed with installing a management server, select an installation option below.

☒ **Create the first management server in a new management group**

Use this option to create a new management group. Choosing this option will create a new operational database and a new data warehouse database for this management group, then install the first management server for this management group. Also, please ensure that you pick a unique management group name. Note that the name of a management group cannot be changed.

Management group name:

OpsMgr2012 MG

☐ **Add a management server to an existing management group**

Use this option if you have an existing management group that already contains at least one management server. Choosing this option will install a management server linked to the operational database and data warehouse database already in use with this management group.

Previous Next > Cancel

- 11) Click **Next** , display **Configure the operational database** page :

The screenshot shows the 'System Center Operations Manager 2012 Setup Wizard' window, specifically the 'Configuration' step. The window has a title bar with the Microsoft logo and the text 'System Center Operations Manager 2012 Setup Wizard'. Below the title bar is a progress bar with four segments, the second of which is highlighted. The main content area is titled 'Configure the operational database' in blue. Below this title is a note: 'Before you click **Next**, verify the database name, instance name, and port, and ensure that you have sufficient permissions on the database instance.' There are four input fields: 'Server name and instance name:' with a text box containing a single character and a hint 'Format: server name\instance name'; 'SQL Server port:' with a text box containing '1433'; 'Database name:' with a text box containing 'OperationsManager'; and 'Database size (MB):' with a text box containing '1000'. Below these are two more fields: 'Data file folder:' and 'Log file folder:', each with a text box and a 'Browse...' button to its right. At the bottom right are three buttons: 'Previous', 'Next >', and 'Cancel'.

12) In the **Server name and instance name** box , type the name of the server and the name of the SQL Server instance for the database server that will host the operational database . If you installed SQL Server by using the default instance , you only have to enter the server name. If you changed the default SQL Server port , you must type in the new port number in the **SQL Server port** box :

The screenshot shows the 'System Center Operations Manager 2012 Setup Wizard' window. The title bar includes a checkmark icon and the text 'System Center Operations Manager 2012 Setup Wizard'. The window has a standard Windows XP-style interface with a close button in the top right corner. The main content area is titled 'Configuration' and features a progress bar with four steps, the second of which is highlighted. Below the progress bar, the section 'Configure the operational database' is displayed in blue text. A note below this section states: 'Before you click **Next**, verify the database name, instance name, and port, and ensure that you have sufficient permissions on the database instance.' The configuration fields are arranged in two columns. The left column contains 'Server name and instance name:' with a text box containing 'OpsMgr2012' and a format hint 'Format: server name\instance name' below it; 'Database name:' with a text box containing 'OperationsManager'; 'Data file folder:' with a text box containing 'E:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\' and a 'Browse...' button to its right; and 'Log file folder:' with a text box containing the same path and another 'Browse...' button to its right. The right column contains 'SQL Server port:' with a text box containing '1433' and 'Database size (MB):' with a text box containing '1000'. At the bottom of the window, there are three buttons: 'Previous', 'Next >' (which is highlighted), and 'Cancel'.

System Center Operations Manager 2012 Setup Wizard

Configuration

Configure the operational database

Before you click **Next**, verify the database name, instance name, and port, and ensure that you have sufficient permissions on the database instance.

Server name and instance name: OpsMgr2012
Format: server name\instance name

SQL Server port: 1433

Database name: OperationsManager

Database size (MB): 1000

Data file folder: E:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\ Browse...

Log file folder: E:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\ Browse...

Previous Next > Cancel

- 13) Click **Next** , display **Configure the data warehouse database** page :

The screenshot shows the 'Configuration' step of the 'System Center Operations Manager 2012 Setup Wizard'. The window title is 'System Center Operations Manager 2012 Setup Wizard'. The main heading is 'Configure the data warehouse database'. Below this, a note states: 'Before you click **Next**, verify the database name, instance name, and port, and ensure that you have sufficient permissions on the database instance.'

The configuration fields are as follows:

- Server name and instance name:** An empty text box. Below it, the format is specified as 'Format: server name\instance name'.
- SQL Server port:** A text box containing the value '1433'.
- Database options:** Two radio buttons are present:
 - ☒ Create a new data warehouse database
 - ☐ Use an existing data warehouse from a different management group
- Database name:** A text box containing the value 'OperationsManagerDW'.
- Database size (MB):** A text box containing the value '1000'.
- Data file folder:** An empty text box with a 'Browse...' button to its right.
- Log file folder:** An empty text box with a 'Browse...' button to its right.

At the bottom of the wizard, there are three buttons: 'Previous', 'Next >', and 'Cancel'.

14) In the **Server name and instance name** box , type the server name and the name of the instance of SQL Server for the database server that will host the data warehouse database. For the first management server installation , accept the default value of **Create a new data warehouse database** :

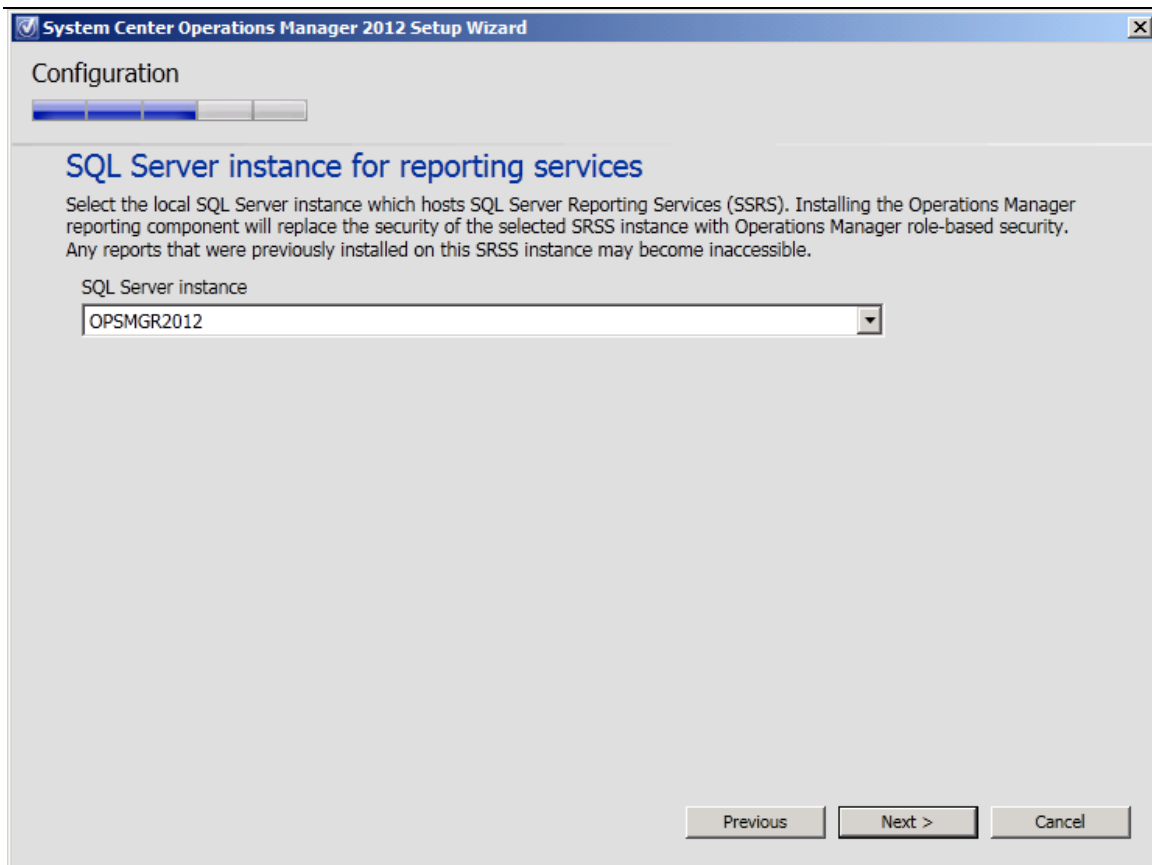
The screenshot shows the 'Configuration' step of the 'System Center Operations Manager 2012 Setup Wizard'. The title bar reads 'System Center Operations Manager 2012 Setup Wizard'. The main heading is 'Configure the data warehouse database'. Below this, a note states: 'Before you click **Next**, verify the database name, instance name, and port, and ensure that you have sufficient permissions on the database instance.'

The configuration fields are as follows:

- Server name and instance name:** A text box containing 'OpsMgr2012'. Below it, the format is specified as 'Format: server name\instance name'.
- SQL Server port:** A text box containing '1433'.
- Database creation options:** Two radio buttons are present. The first, 'Create a new data warehouse database', is selected. The second is 'Use an existing data warehouse from a different management group'.
- Database name:** A text box containing 'OperationsManagerDW'.
- Database size (MB):** A text box containing '1000'.
- Data file folder:** A text box containing 'E:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\'. To its right is a 'Browse...' button.
- Log file folder:** A text box containing 'E:\Program Files\Microsoft SQL Server\MSSQL10_50.MSSQLSERVER\MSSQL\DATA\'. To its right is a 'Browse...' button.

At the bottom right, there are three buttons: 'Previous', 'Next >', and 'Cancel'.

15) Click **Next** , display **SQL Server instance for reporting services** page , select the SQL Server database instance from the drop-down list. This drop-down list contains the SQL Server database instance name that was created when you installed SQL Server 2008 SP1 or SQL Server 2008 R2 and should be the name of the server on which you are installing Operations Manager 2012:



- 16) Click **Next** , display **Specify a web site for use with the Web console**
page :

The screenshot shows the 'Configuration' step of the 'System Center Operations Manager 2012 Setup Wizard'. The window title is 'System Center Operations Manager 2012 Setup Wizard'. The main heading is 'Specify a web site for use with the Web console'. Below this, a text box explains: 'Select an IIS web site to be used for the Web console. Please select an existing web site from the available web sites on the local IIS server.' There is a 'Web site:' label above a dropdown menu that currently shows 'Default Web Site'. Below the dropdown is an unchecked checkbox labeled 'Enable SSL'. A paragraph of text explains that SSL is required for secure transfer of credential and authentication data and is recommended to lower the risk of exposing sensitive data. At the bottom right, there are three buttons: 'Previous', 'Next >', and 'Cancel'.

System Center Operations Manager 2012 Setup Wizard

Configuration

Specify a web site for use with the Web console

Select an IIS web site to be used for the Web console. Please select an existing web site from the available web sites on the local IIS server.

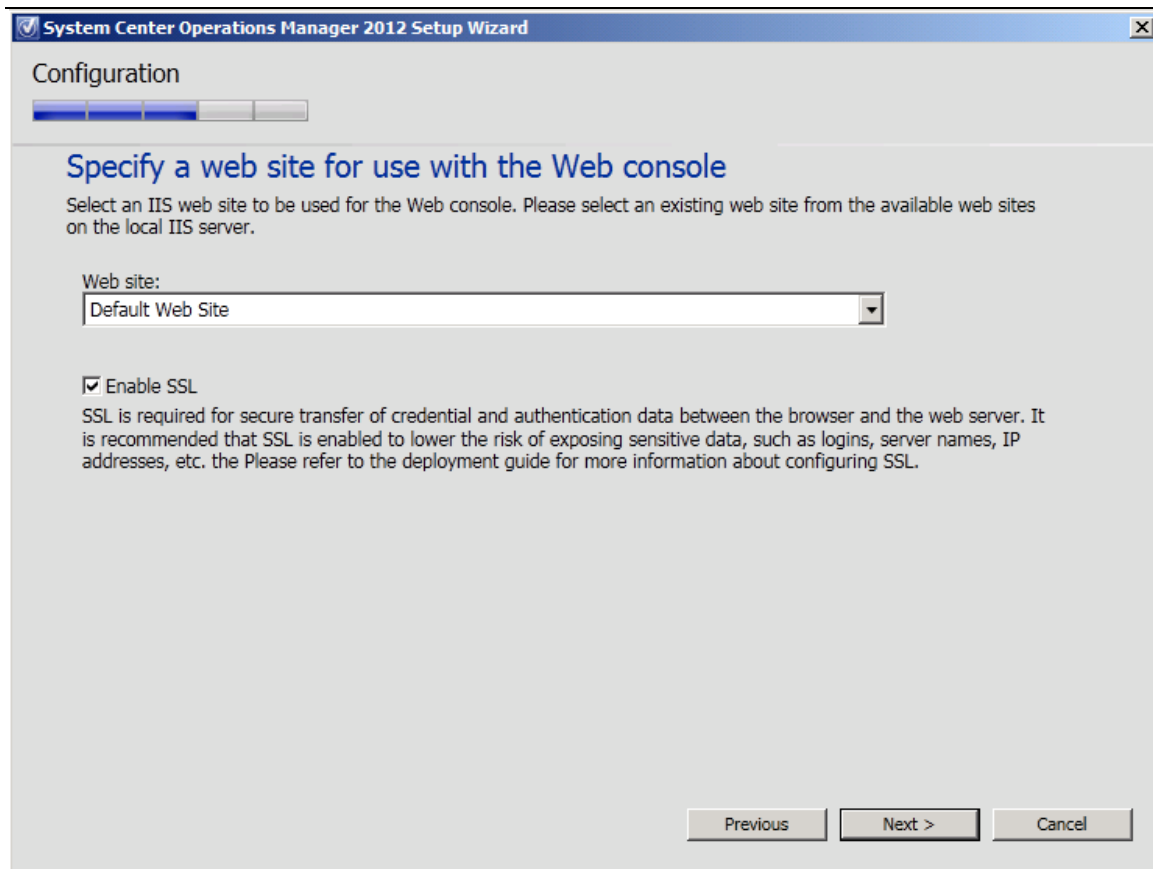
Web site:
Default Web Site

☐ Enable SSL

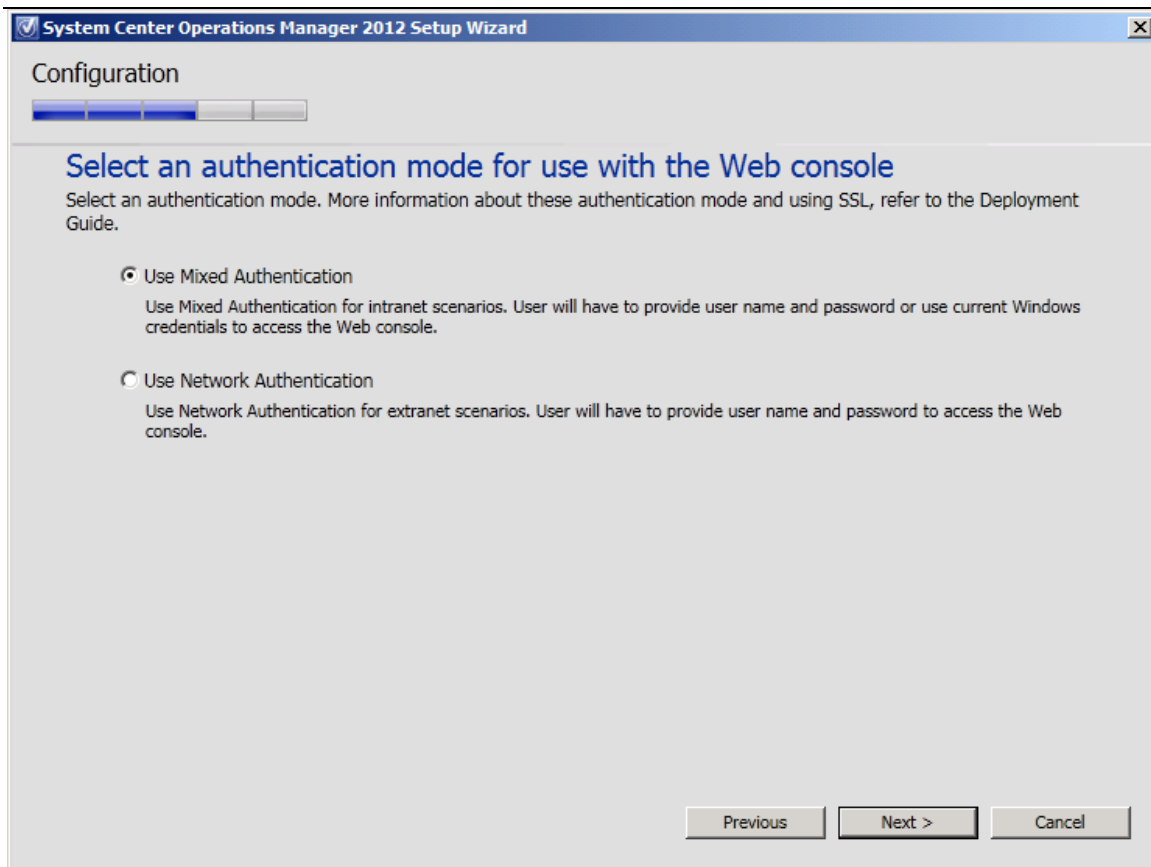
SSL is required for secure transfer of credential and authentication data between the browser and the web server. It is recommended that SSL is enabled to lower the risk of exposing sensitive data, such as logins, server names, IP addresses, etc. the Please refer to the deployment guide for more information about configuring SSL.

Previous Next > Cancel

17) Select **Default Web Site** or the name of an existing website. Select the option **Enable SSL** only if the website has been configured to use SSL :



18) Click **Next** , display **Select an authentication mode for use with the Web console** page :



19) Select your option , and then click **Next** , display **Configure Operations Manager accounts** page :

System Center Operations Manager 2012 Setup Wizard

Configuration

Configure Operations Manager accounts

If you want to use a single account for all services, verify that the account has all the required rights. For more information, see the Operations Manager deployment documentation.

Account Name	Local System	Domain Account	Domain\User Name	Password
Management server action account	<input type="radio"/>	<input checked="" type="radio"/>	Domain\User Name	*****
System Center Configuration service and System Center Data Access service	<input checked="" type="radio"/>	<input type="radio"/>		
Data Reader account	<input type="radio"/>	<input checked="" type="radio"/>	Domain\User Name	*****
Data Writer account	<input type="radio"/>	<input checked="" type="radio"/>	Domain\User Name	*****

[Operations Manager Security Guide](#)

Previous Next > Cancel

20) Enter the credentials for a domain account in each field . The error icons will disappear after account validation :

The screenshot shows the 'Configuration' step of the 'System Center Operations Manager 2012 Setup Wizard'. The title bar reads 'System Center Operations Manager 2012 Setup Wizard'. Below the title bar, the word 'Configuration' is displayed. A progress bar shows four steps, with the first three completed. The main heading is 'Configure Operations Manager accounts'. Below this, a note states: 'If you want to use a single account for all services, verify that the account has all the required rights. For more information, see the Operations Manager deployment documentation.'

Account Name	Local System	Domain Account	Domain\Username	Password
Management server action account	<input type="radio"/>	<input checked="" type="radio"/>	Contoso\msaacct
System Center Configuration service and System Center Data Access service	<input checked="" type="radio"/>	<input type="radio"/>		
Data Reader account	<input type="radio"/>	<input checked="" type="radio"/>	Contoso\dracct
Data Writer account	<input type="radio"/>	<input checked="" type="radio"/>	Contoso\dwvacct

At the bottom left, there is a link: [Operations Manager Security Guide](#). At the bottom right, there are three buttons: 'Previous', 'Next >', and 'Cancel'.

21) Click **Next** , display **Help improve Operations Manager 2012** page :

The screenshot shows the 'Configuration' step of the 'System Center Operations Manager 2012 Setup Wizard'. The window has a title bar with the text 'System Center Operations Manager 2012 Setup Wizard' and a close button. Below the title bar is a progress bar with four segments, the first of which is highlighted. The main content area is divided into three sections, each with a blue header and a horizontal line below it. The first section is 'Help improve Operations Manager 2012 Customer Experience Improvement Program', followed by a paragraph explaining the program and two radio button options. The second section is 'Error Reporting', followed by a paragraph explaining the reporting process and three radio button options. The third section is 'Operational Data Reporting (ODR)', followed by a paragraph explaining the reporting process and two radio button options. At the bottom left is a link 'Read more about these program(s)'. At the bottom right are three buttons: 'Previous', 'Next >', and 'Cancel'.

System Center Operations Manager 2012 Setup Wizard

Configuration

Help improve Operations Manager 2012
Customer Experience Improvement Program

The Customer Experience Improvement Program collects data about your use of Microsoft applications to identify possible improvements for Microsoft products.

☐ Yes, I am willing to participate anonymously in the Customer Experience Improvement Program

☐ No, I am not willing to participate

Error Reporting

When a program error occurs, information about the error can be anonymously reported to Microsoft. This information is used to help identify and resolve common issues with Operations Manager.

☐ Yes, I am willing to participate anonymously. Please automatically send my error reports.

☐ Yes, I am willing to participate anonymously. Please queue the reports so that I can choose when to send them.

☐ No, I am not willing to participate

Operational Data Reporting (ODR)

Operational data reports summarize how Operations Manager is being used in your management group. If you consent to sending operational data reports to Microsoft, each week ODR reports will be generated from the data in the Operations Manager data warehouse and sent to Microsoft.

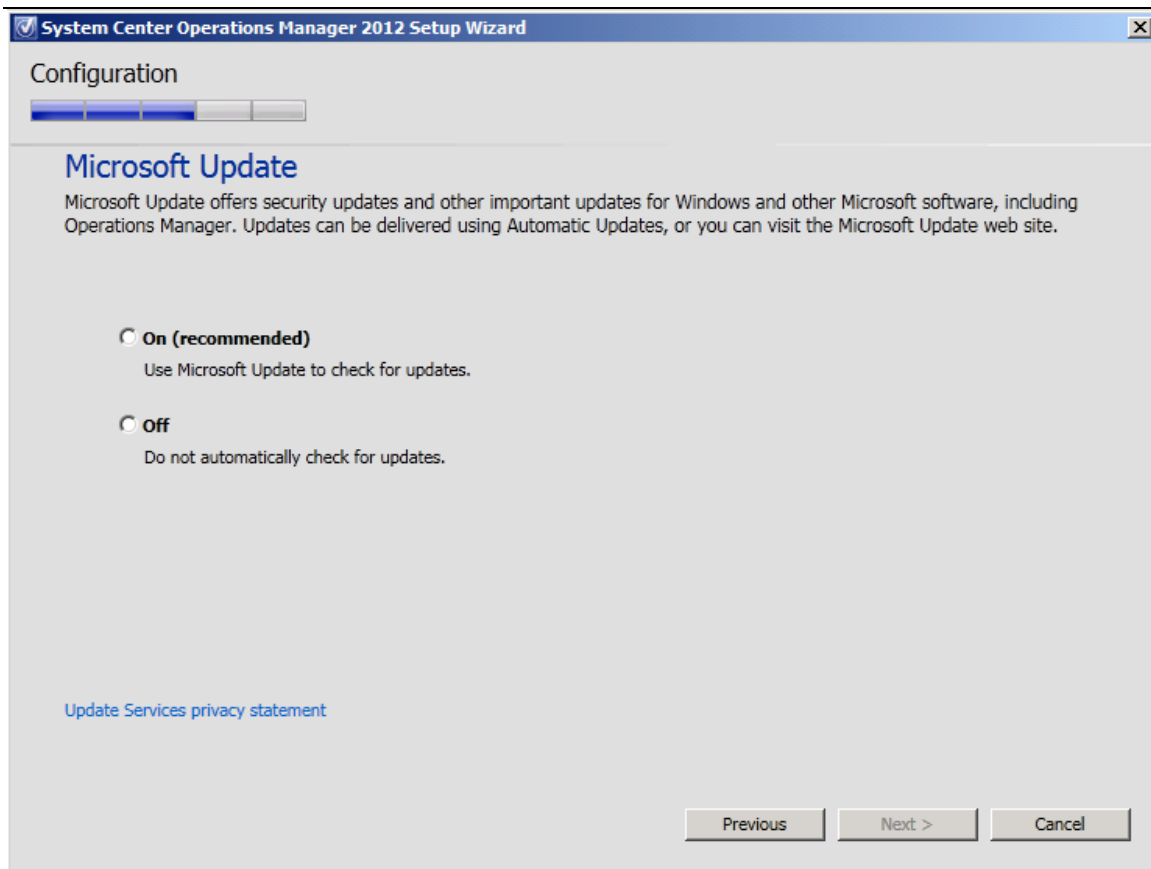
☐ Yes, I am willing to participate anonymously. Please automatically send my operational data reports.

☐ No, I am not willing to participate

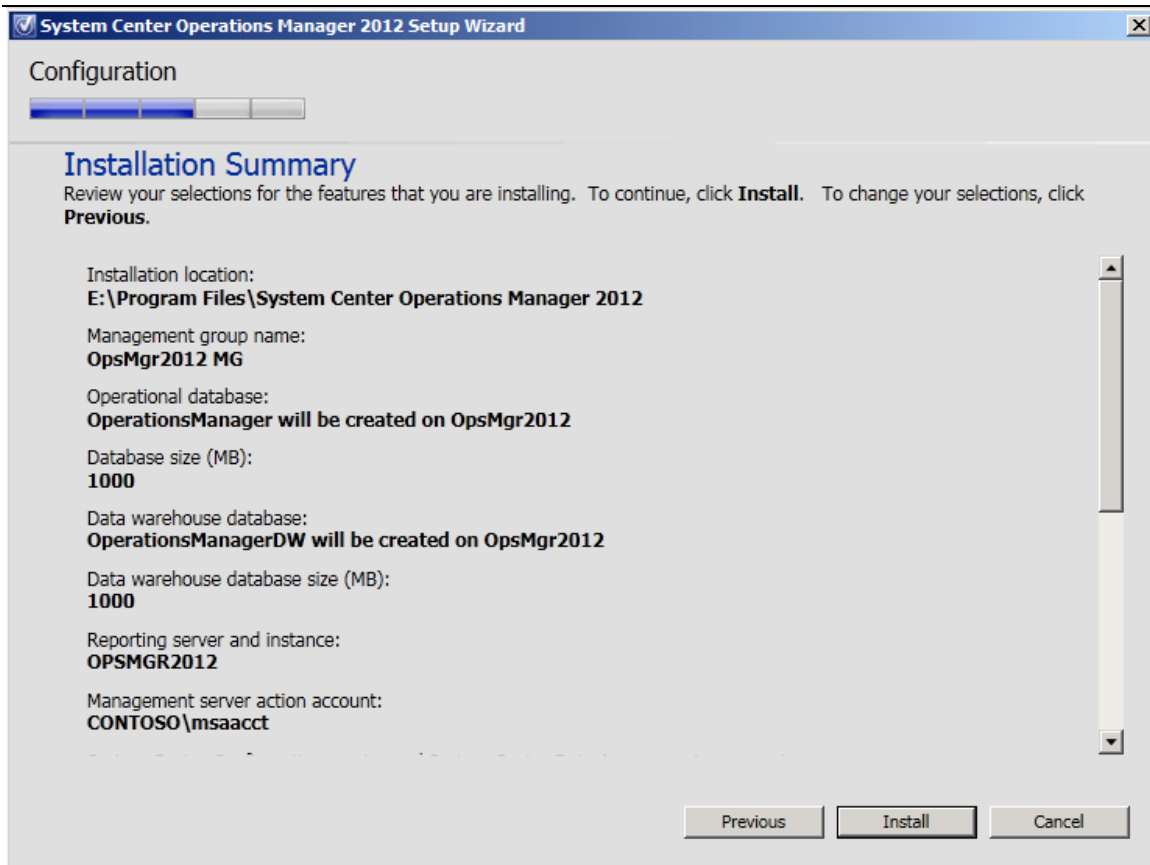
[Read more about these program\(s\)](#)

Previous Next > Cancel

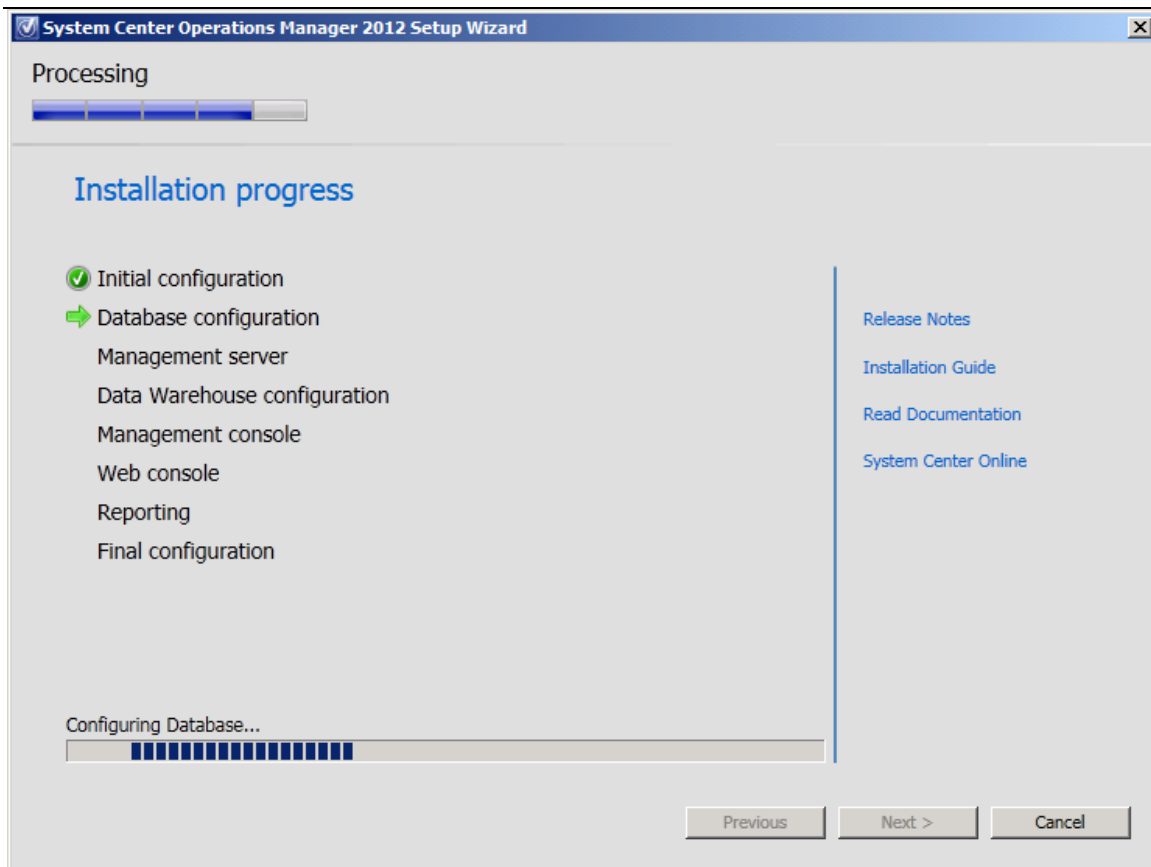
22) Select your options and click **Next** , display **Microsoft Update** page :

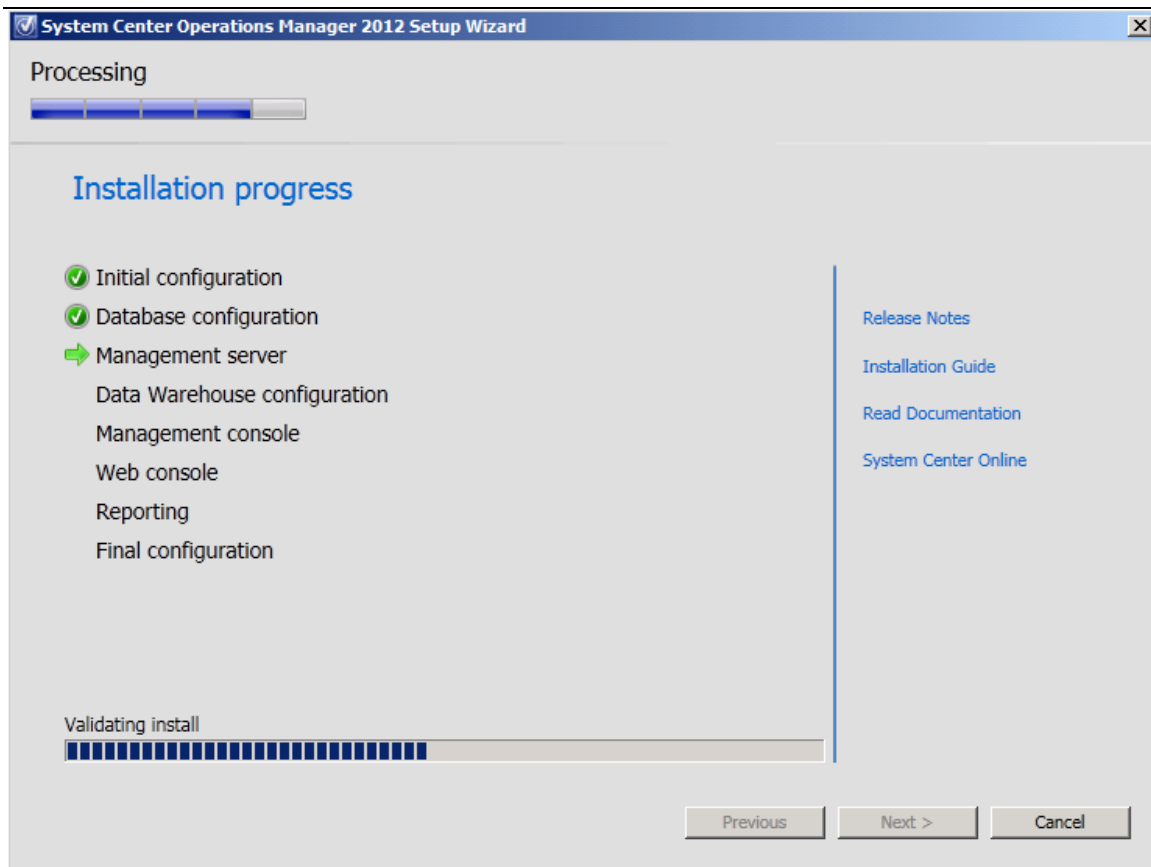


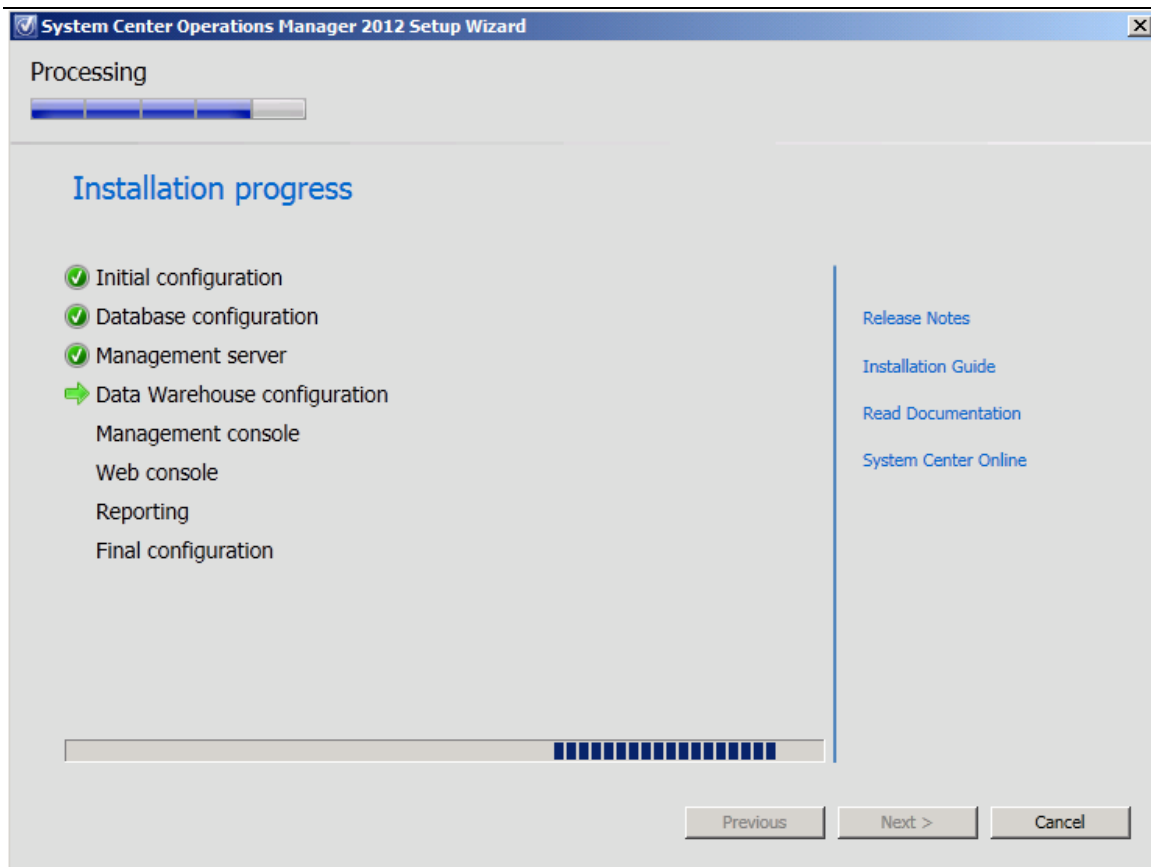
23) Select your option and then click **Next** , display **Installation Summary** page :

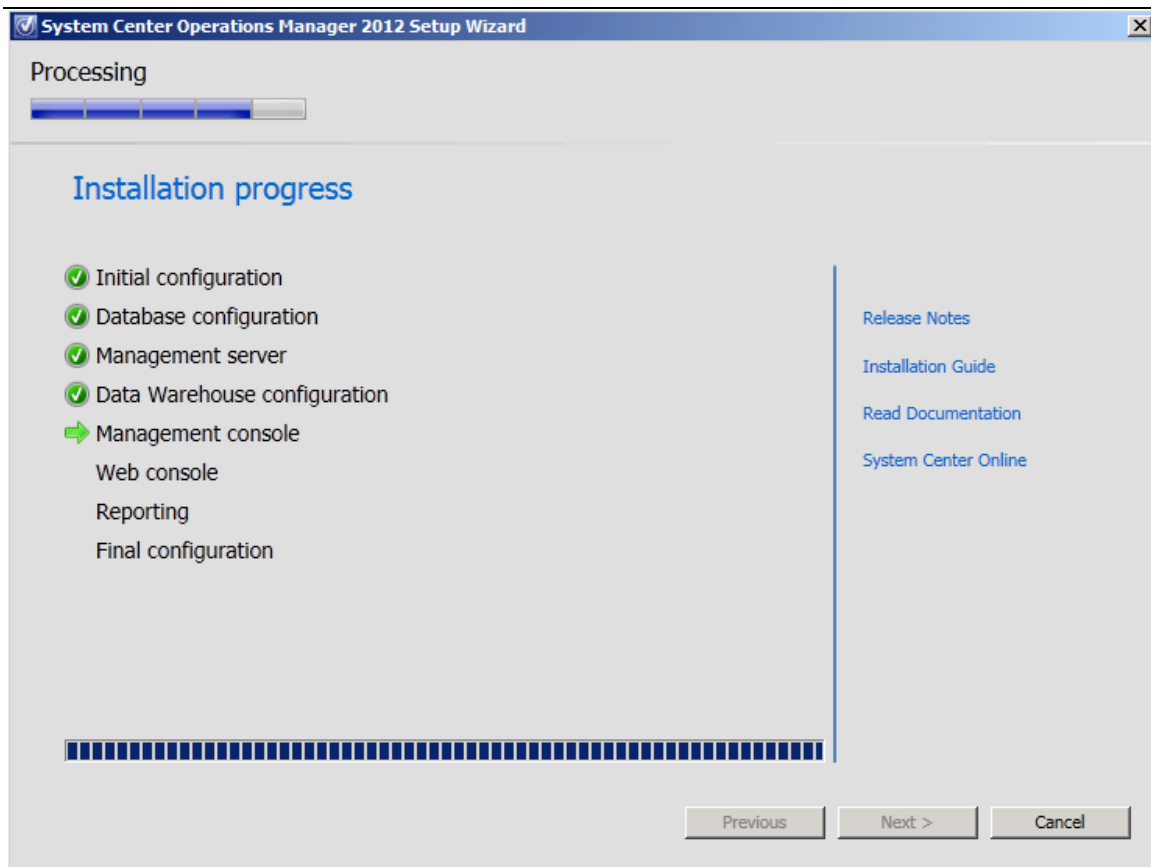


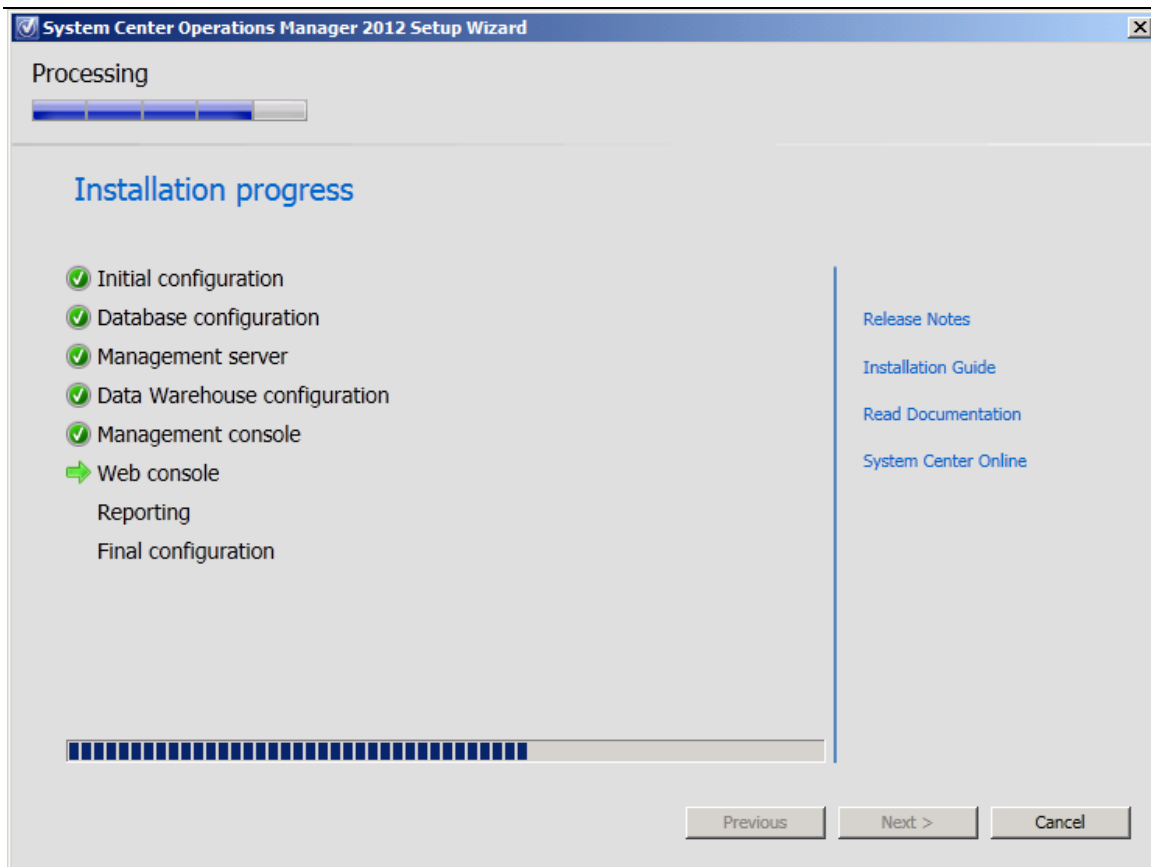
24) Review the options and click **Install** to start setup phase :

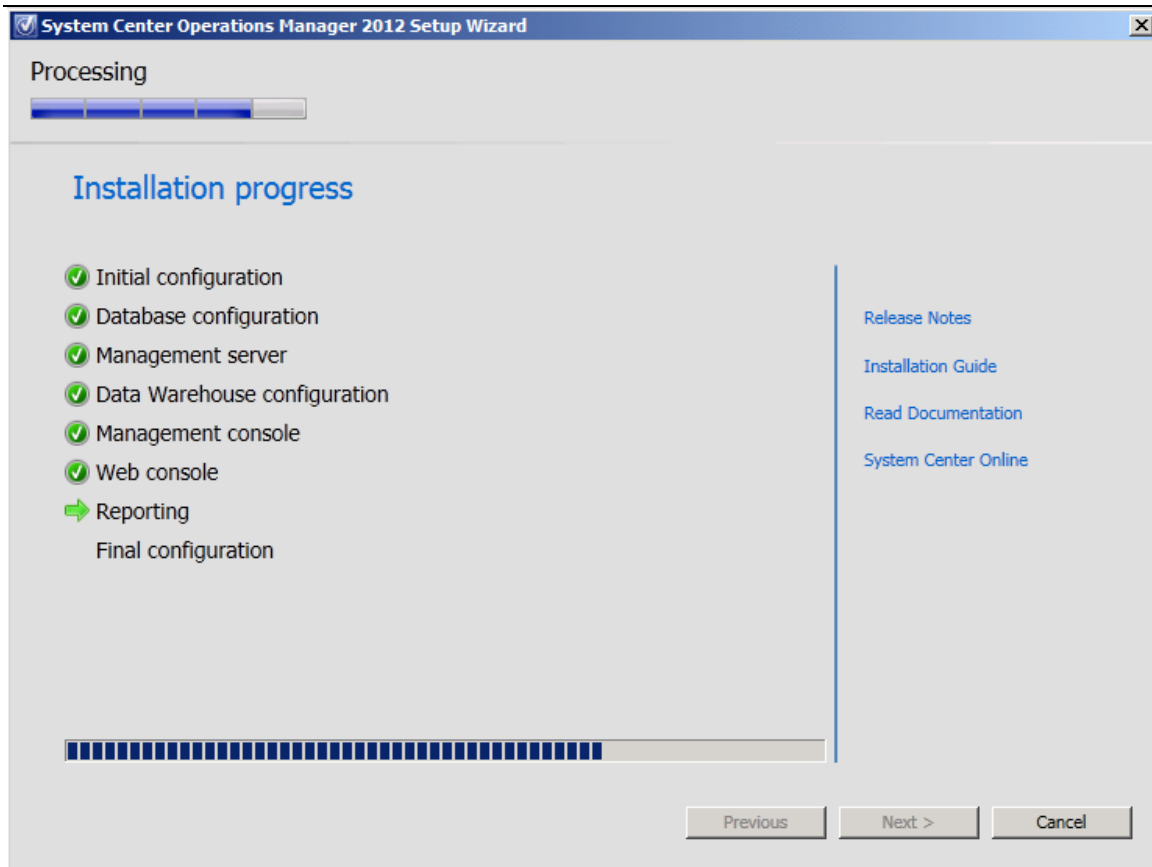


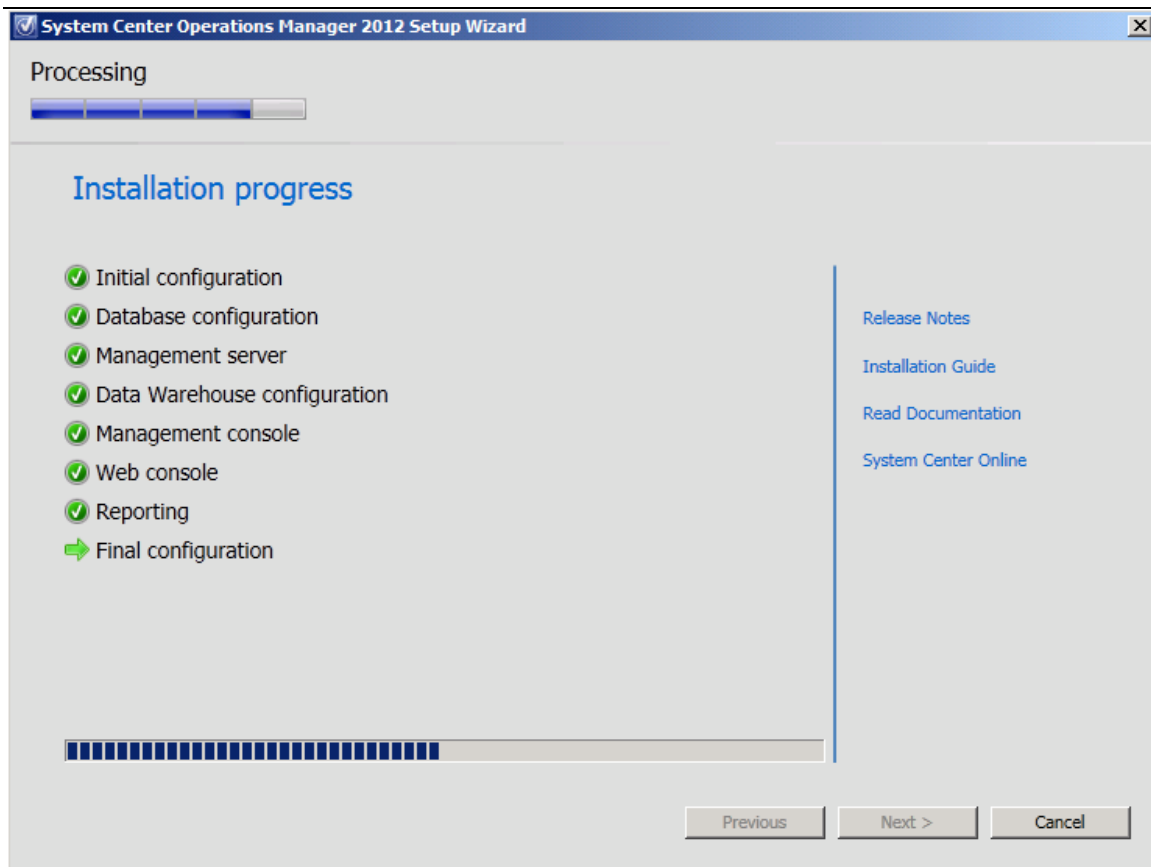




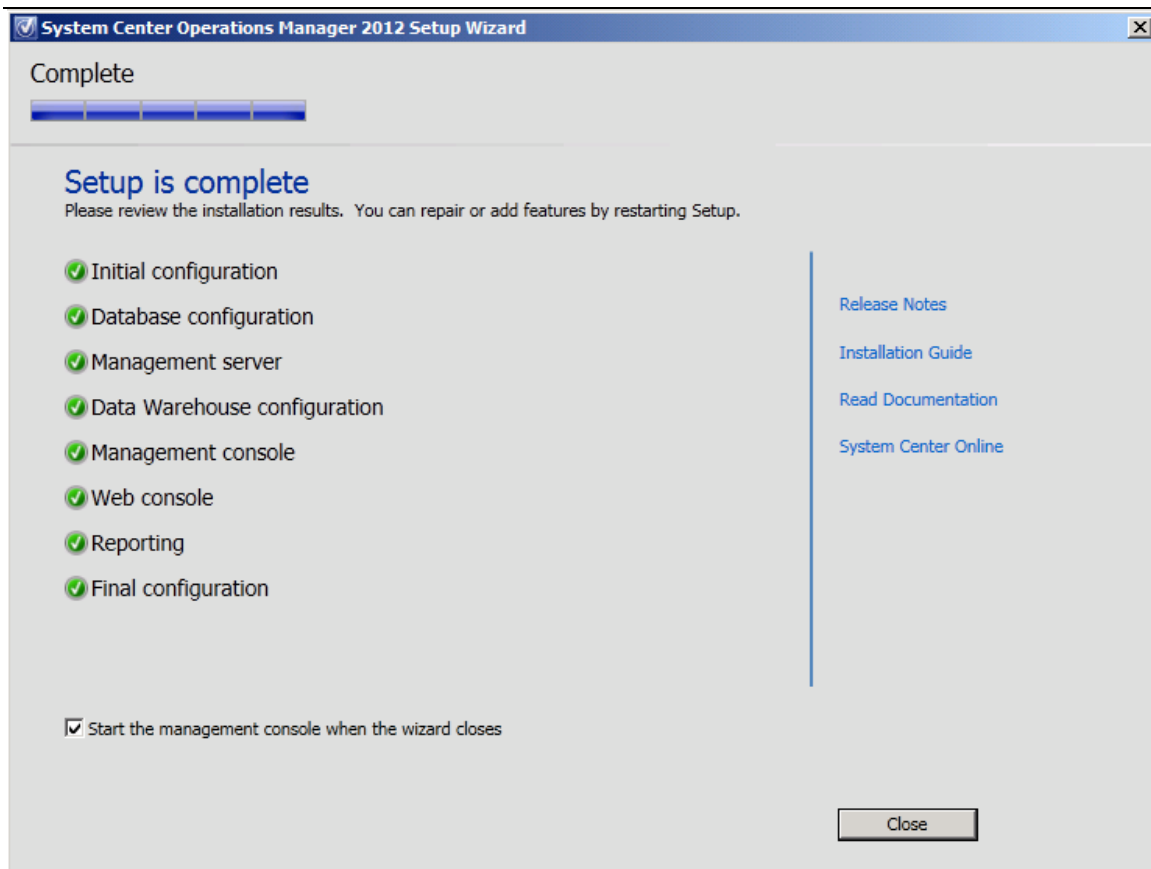








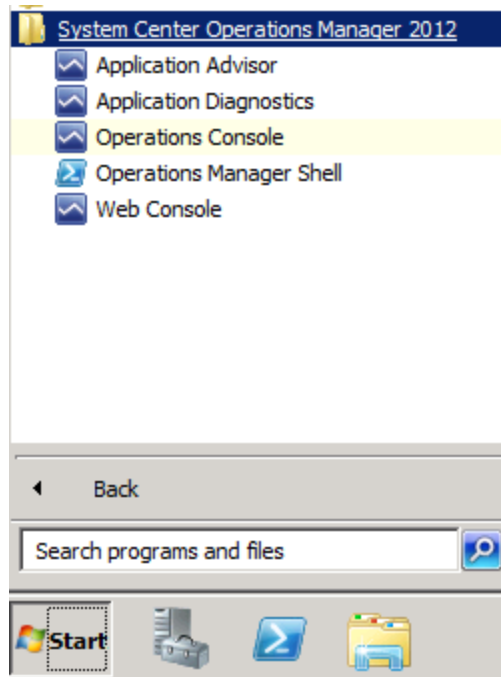
25) When setup is finished , the **Setup is complete** page appears :



26) Unselect **Start the management console when the wizard closes** ,
and click **Close** .

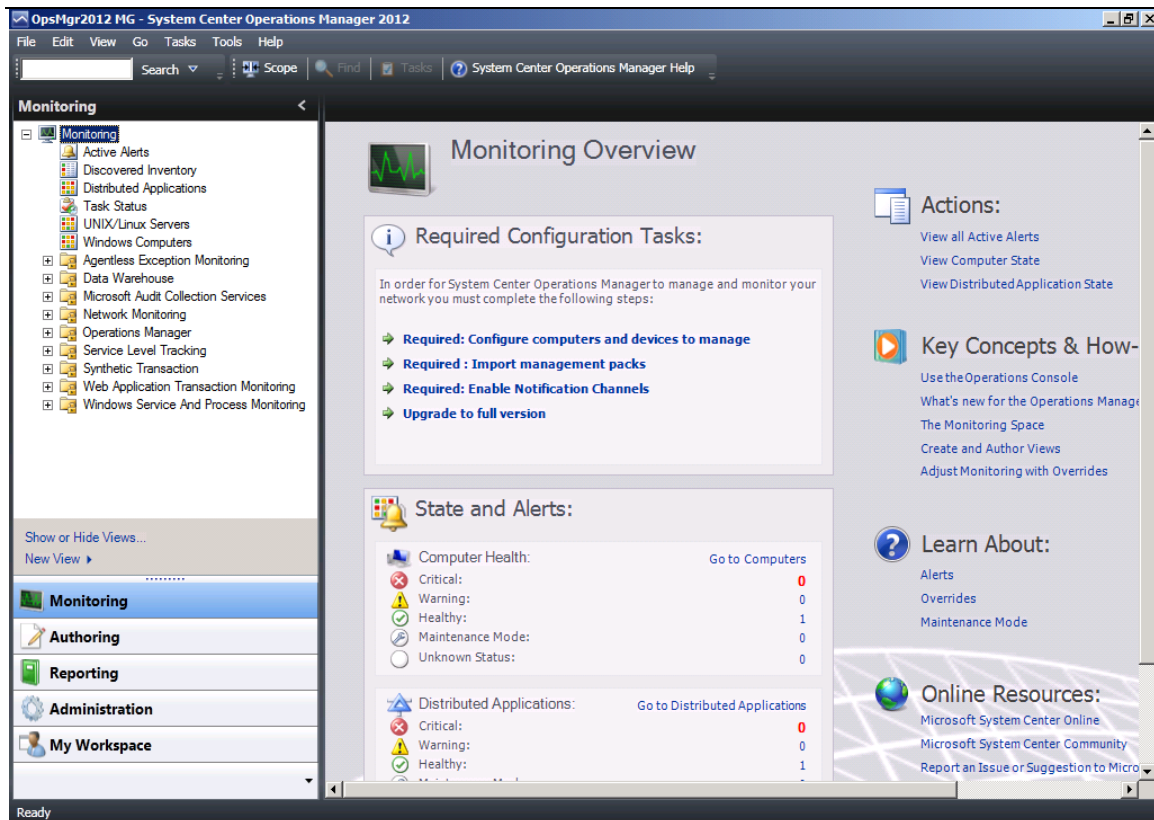
7. Verifying the Installation :

- 1) Logon to **OpsMgr2012** server , Click **Operations Console** :



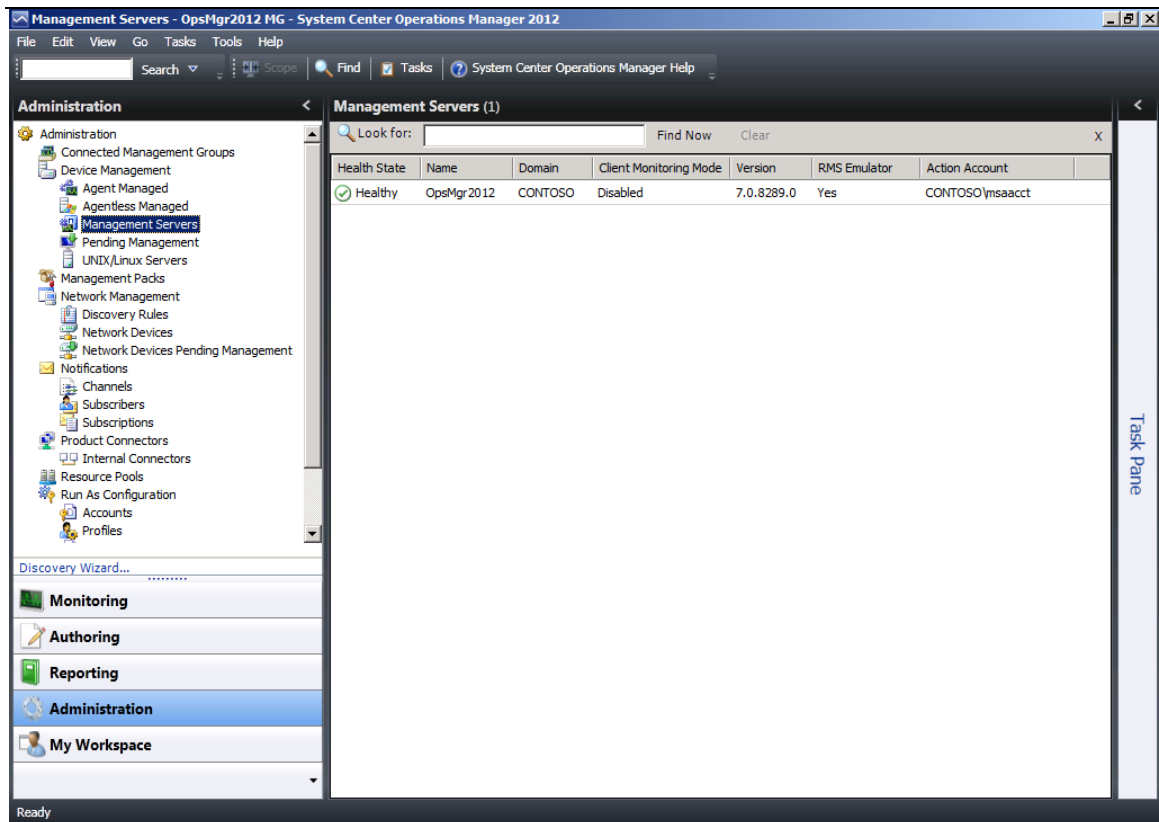
- 2) The **System Center Operations Manager 2012 Console** is open :

**System Center
Operations Manager 2012 Beta
Deployment**



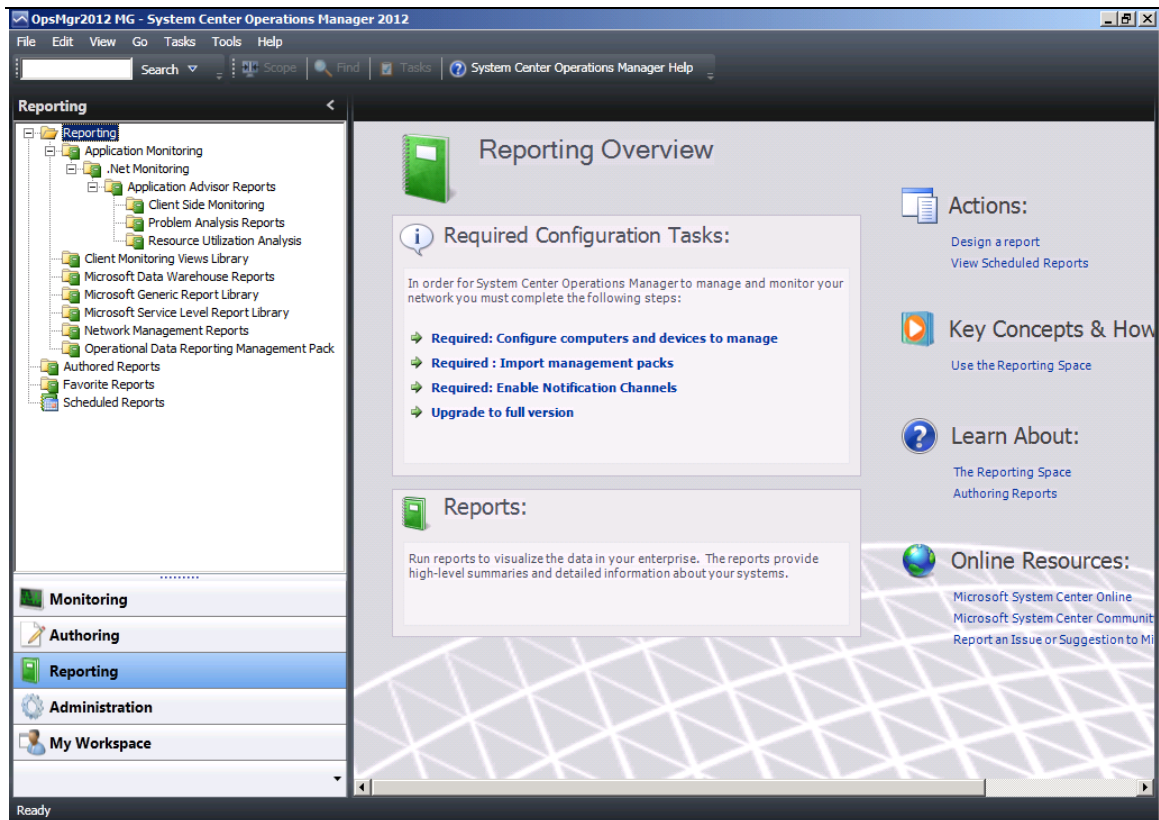
3) Select the **Administration** workspace , in **Device Management** node select **Management Servers** . In the results pane, you should see the management server that you just installed with a green check mark in the **Health State** column.

**System Center
Operations Manager 2012 Beta
Deployment**



4) To confirm the health of operations manager reports , click the **Reporting** workspace :

**System Center
Operations Manager 2012 Beta
Deployment**



Note :

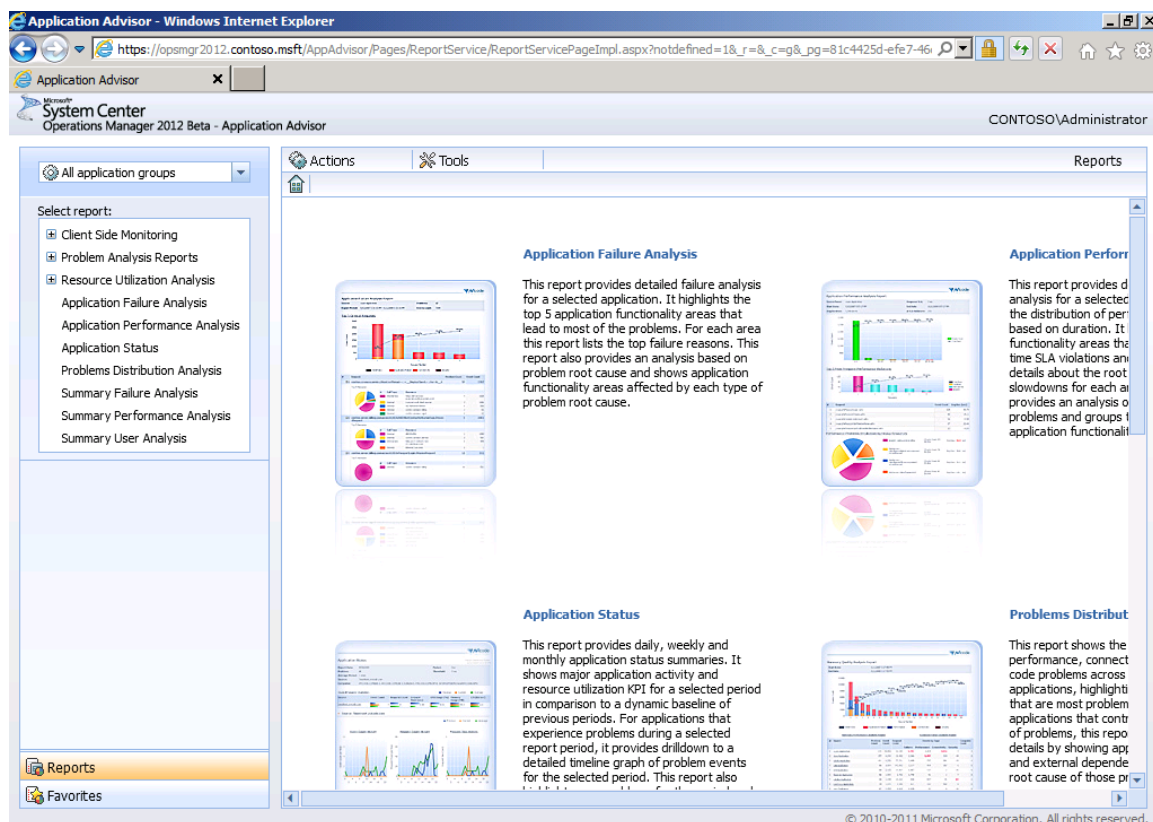
After initial deployment, it can take up to 30 minutes for reports to appear.

5) Double-Click **Operational Data Reporting Management Pack** , you should see the following reports :

**System Center
Operations Manager 2012 Beta
Deployment**



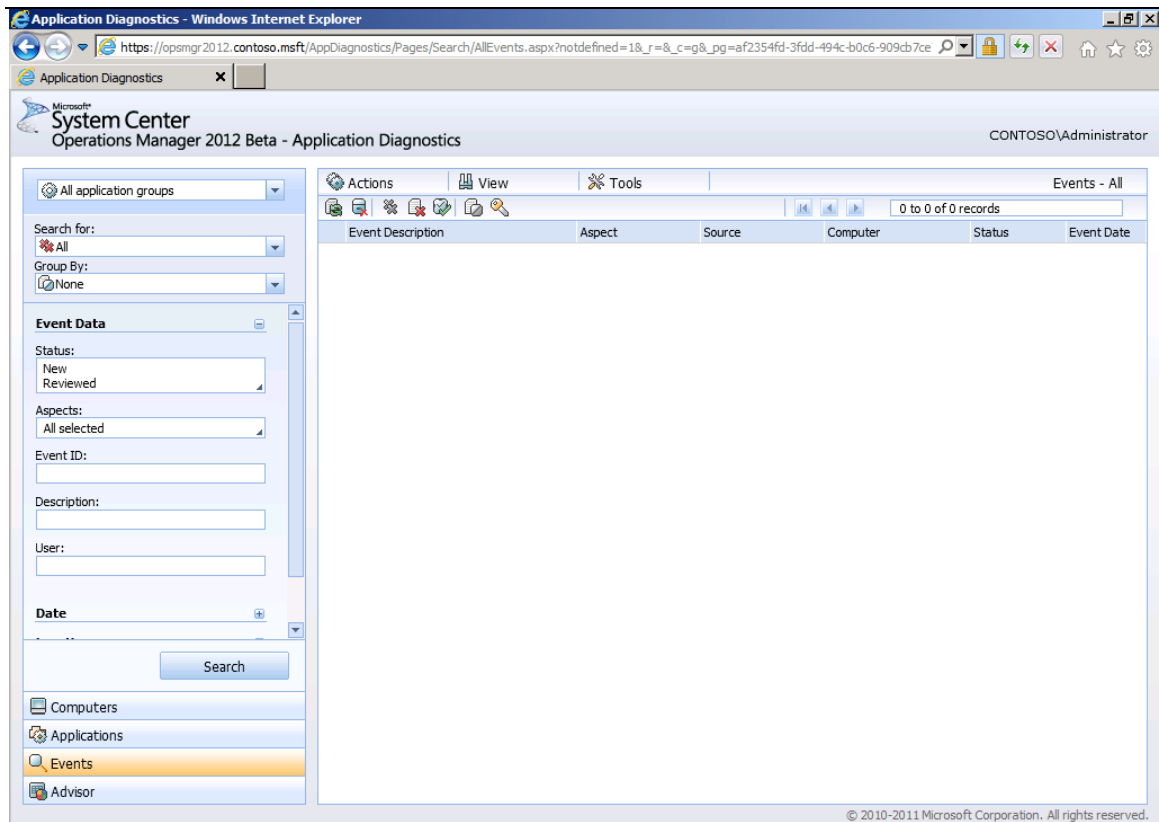
6) Click **Application Advisor** , you can see the Application Advisor website :



7) Click **Application Diagnostics** , you can see the Application Diagnostics website :

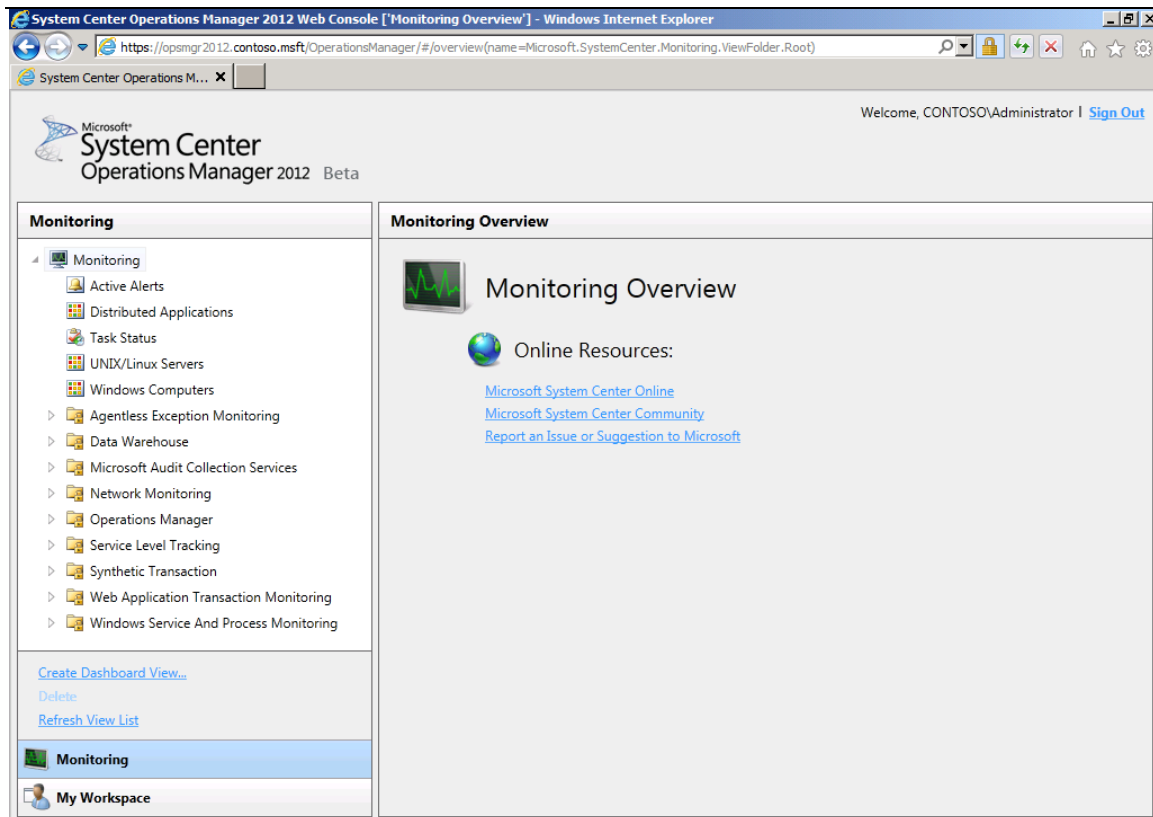
Justin Gao 高扬
yanga@microsoft.com
http://blogs.technet.com/b/justin_gao

**System Center
Operations Manager 2012 Beta
Deployment**



8) Click **Web Console** , you will see the SCOM 2012 Beta web console :

**System Center
Operations Manager 2012 Beta
Deployment**



Note :

This feature need install **Silverlight 4.0** or above version .

9) Click **Sign Out** display logon page :

**System Center
Operations Manager 2012 Beta
Deployment**

System Center Operations Manager 2012 Web Console - Windows Internet Explorer

https://opsmgr2012.contoso.msft/OperationsManager/default.aspx

System Center Operations M...

Microsoft
System Center
Operations Manager 2012 Beta

Sign in:

☒ Using my current Windows credentials

☐ As a different user

User name:

Password:

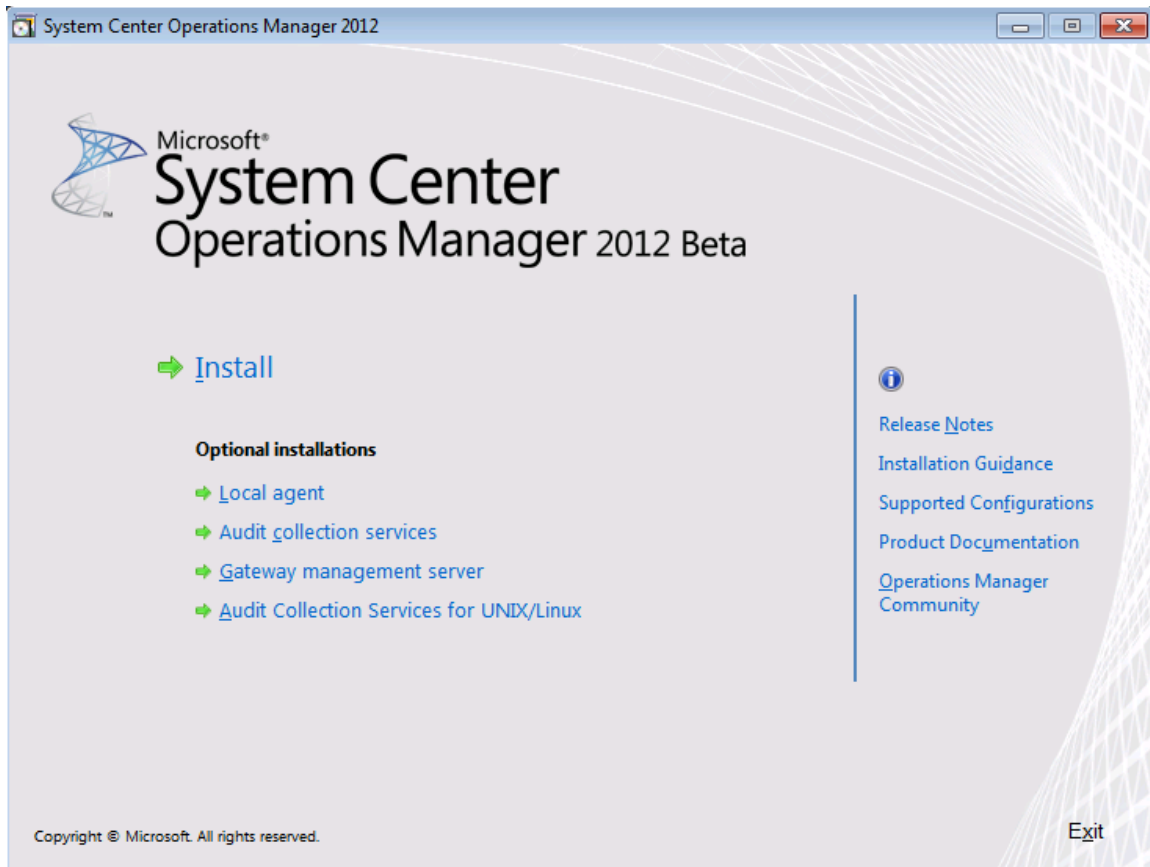
Sign In

Copyright © Microsoft. All rights reserved.

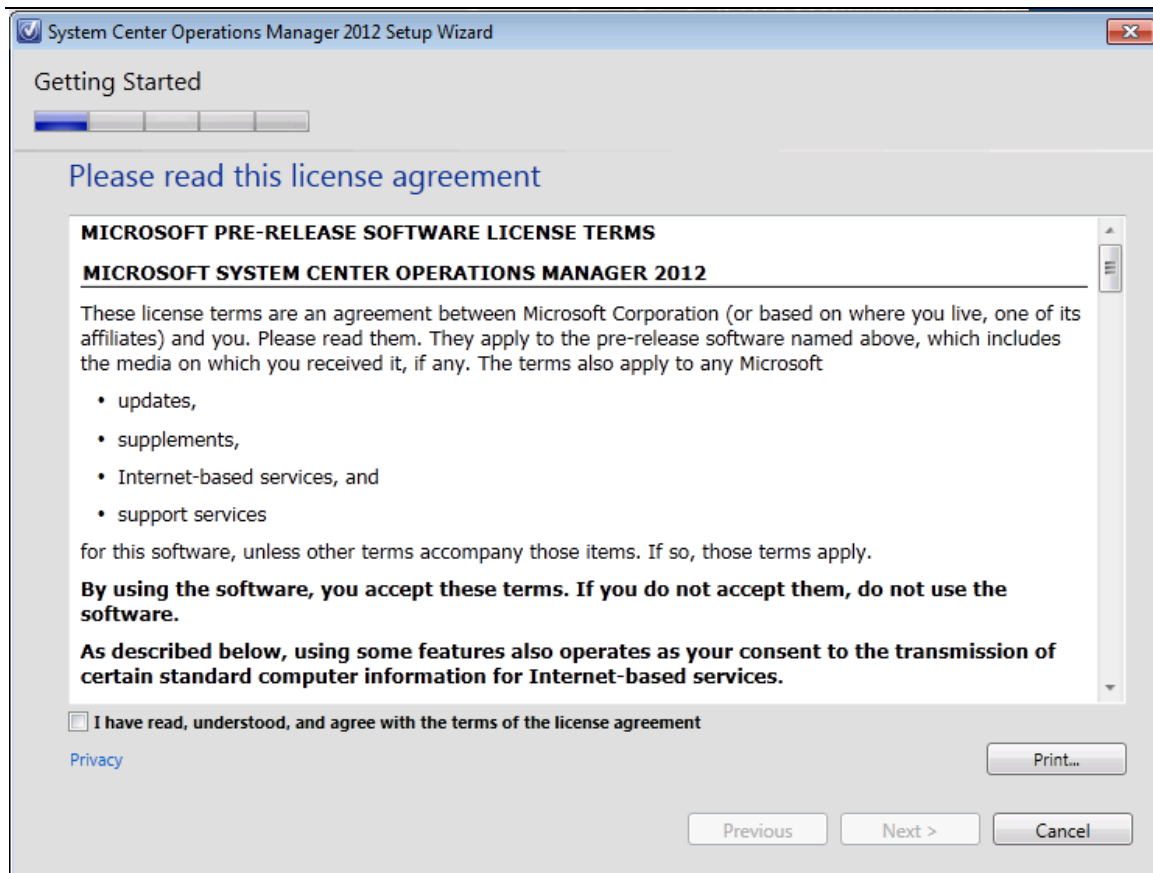
8. Installing SCOM 2012 Beta Remote Console :

1) Use Administrator logon to **Console** computer, install **.Net Framework 4.0** and **Microsoft Report Viewer Redistributable 2008 SP1** tool.

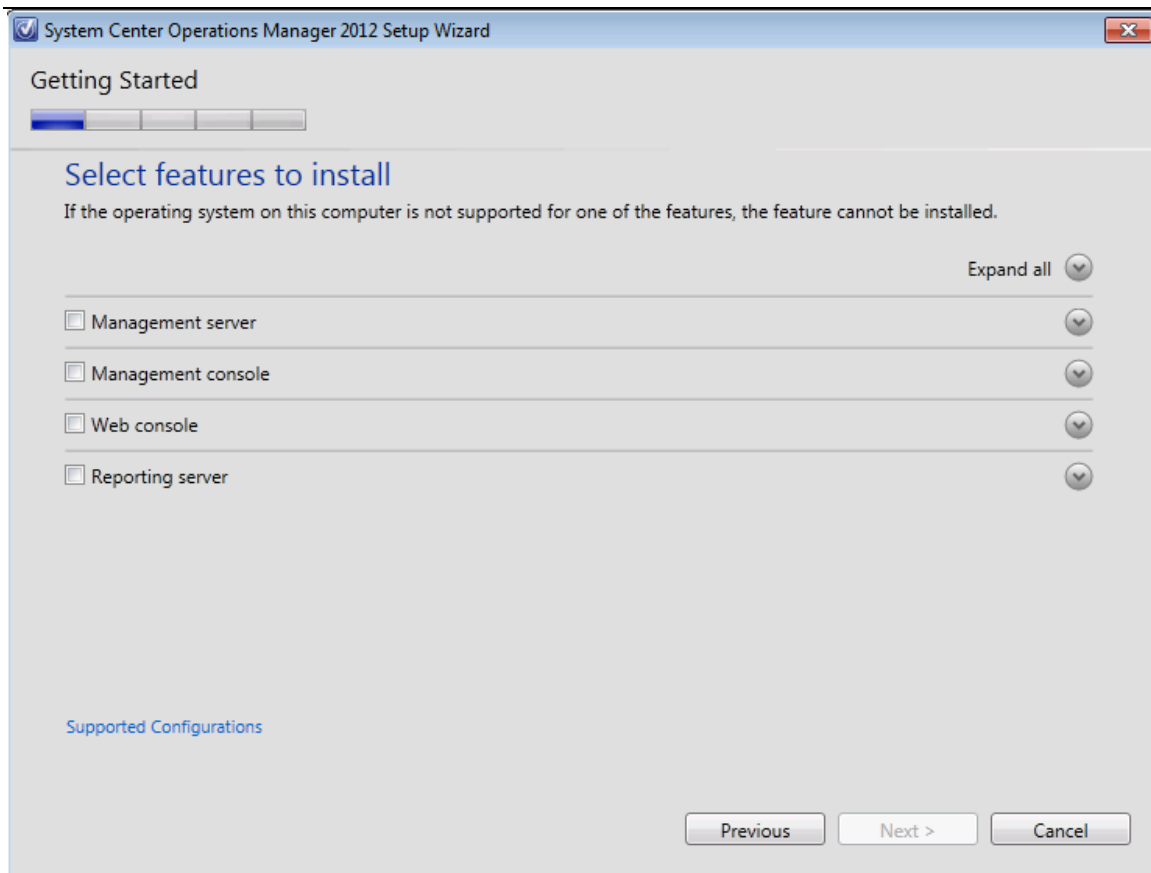
2) Insert SCOM 2012 Beta image , will auto display :



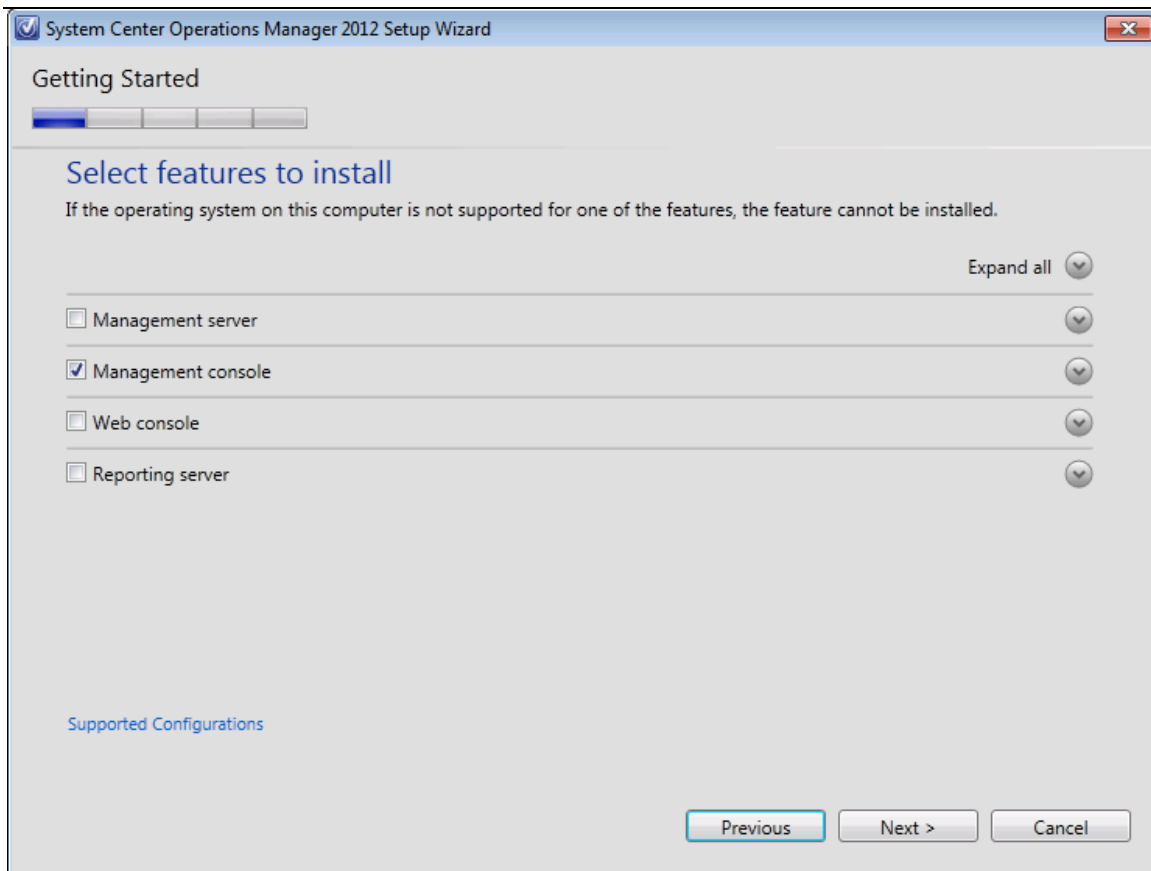
3) Click **Install** , display **Please read this license agreement** page :



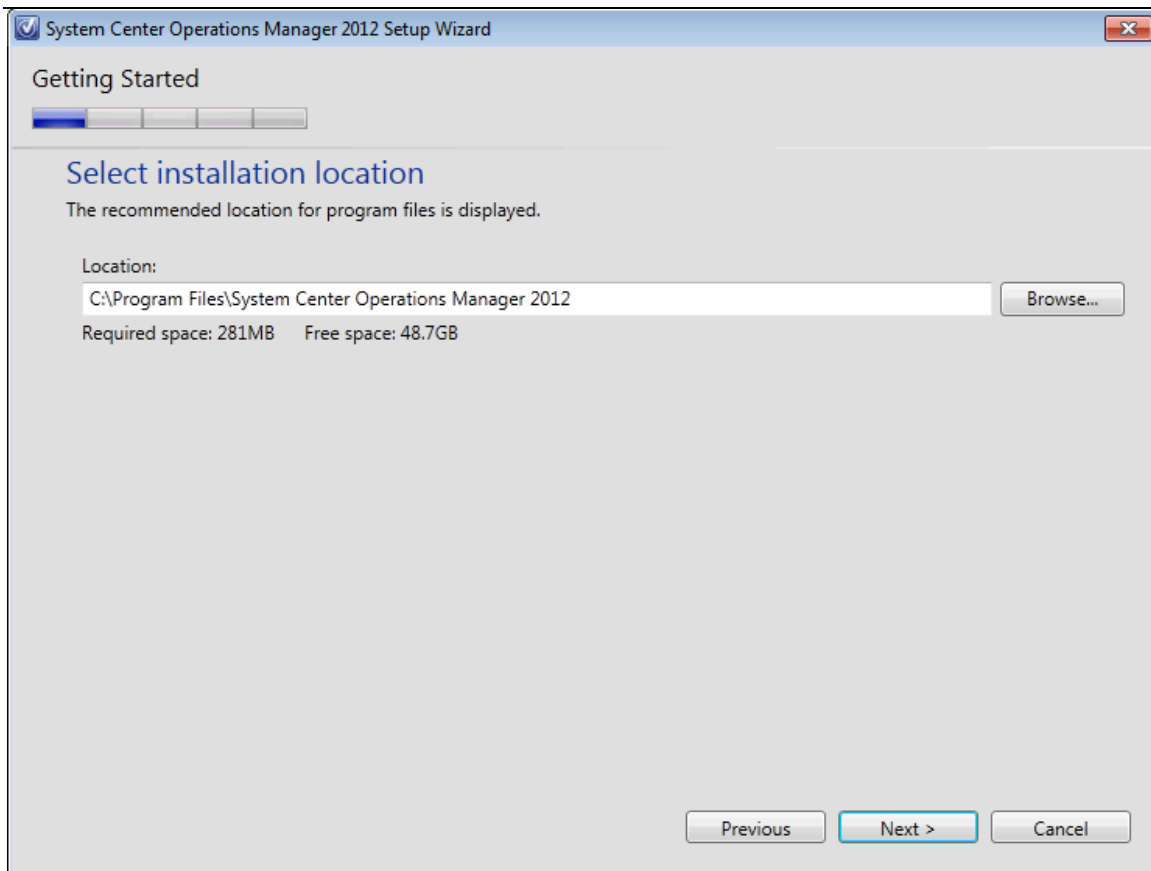
4) Select **I have read , understood , and agree with the terms of the license agreement** and click **Next** , display **Select features to install** page :



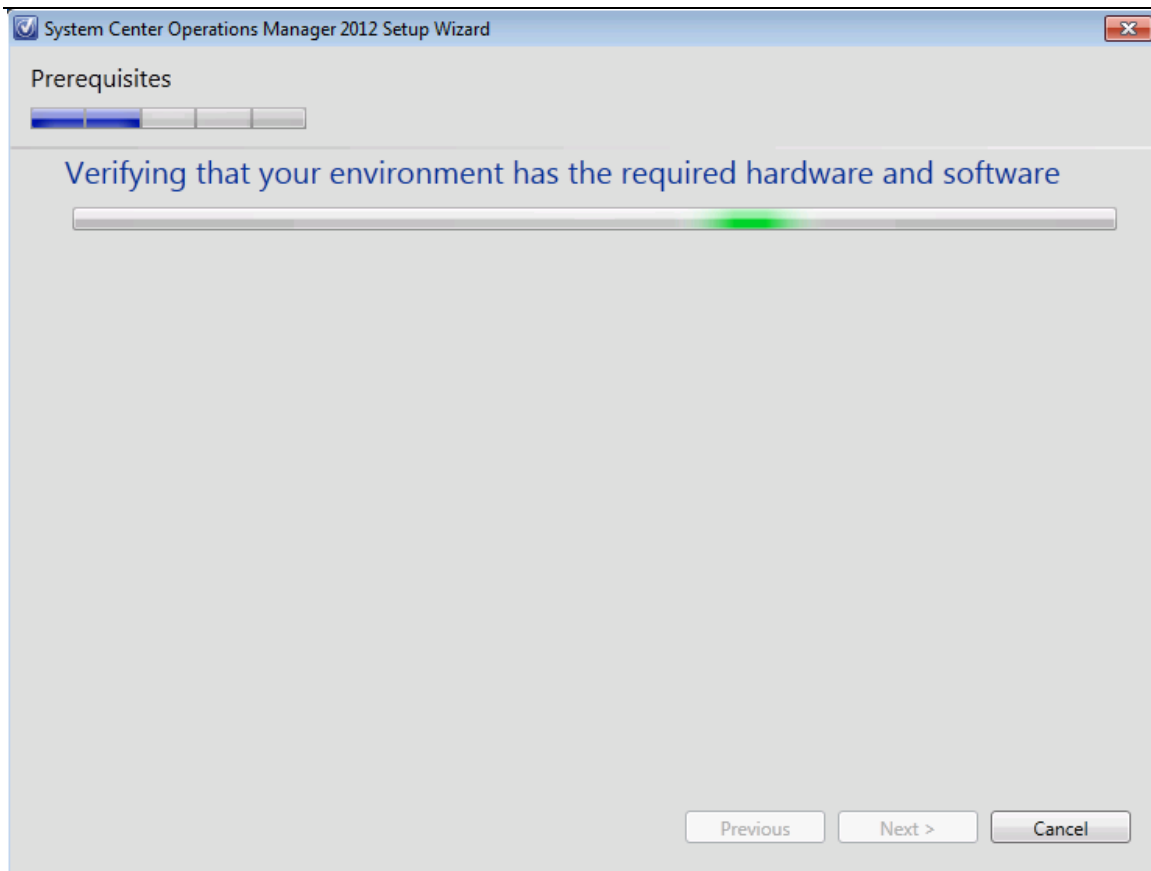
5) Only select **Management console** :



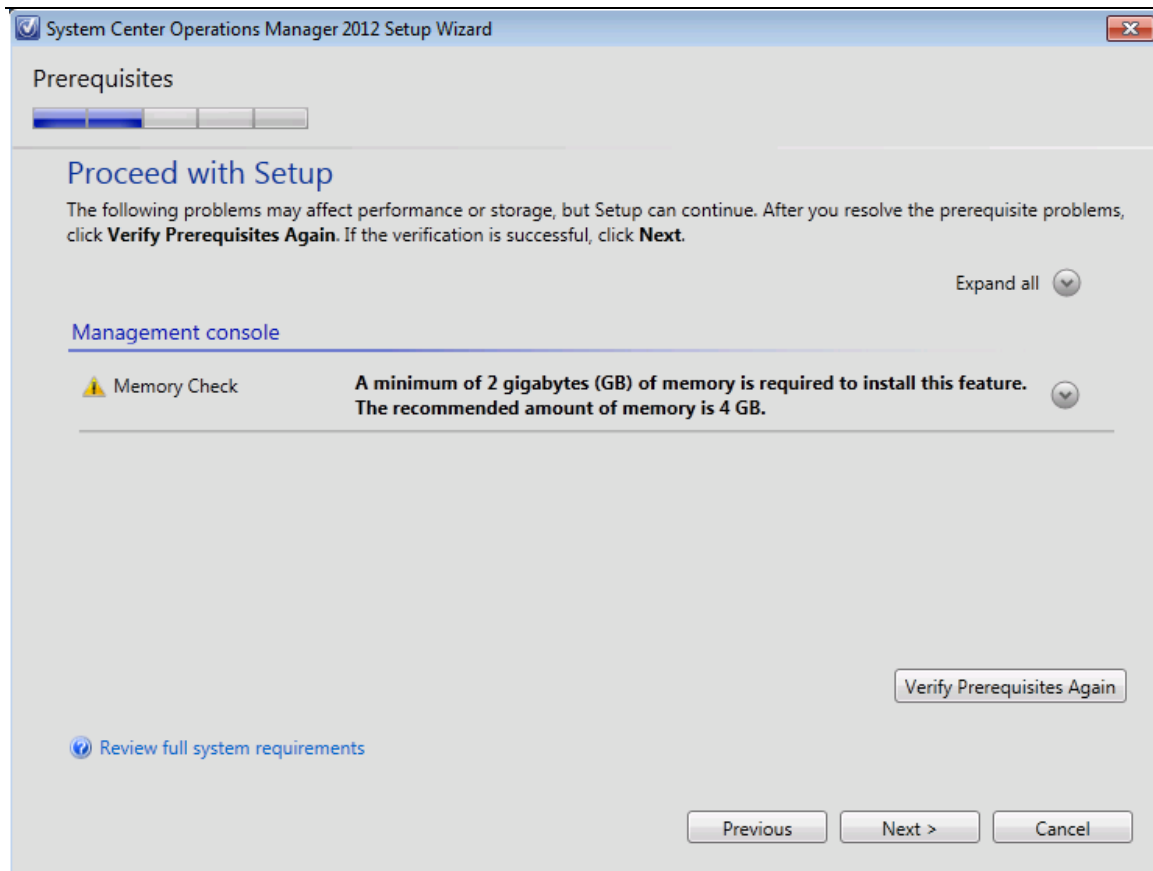
6) Click **Next** , will display **Select installation location** page :



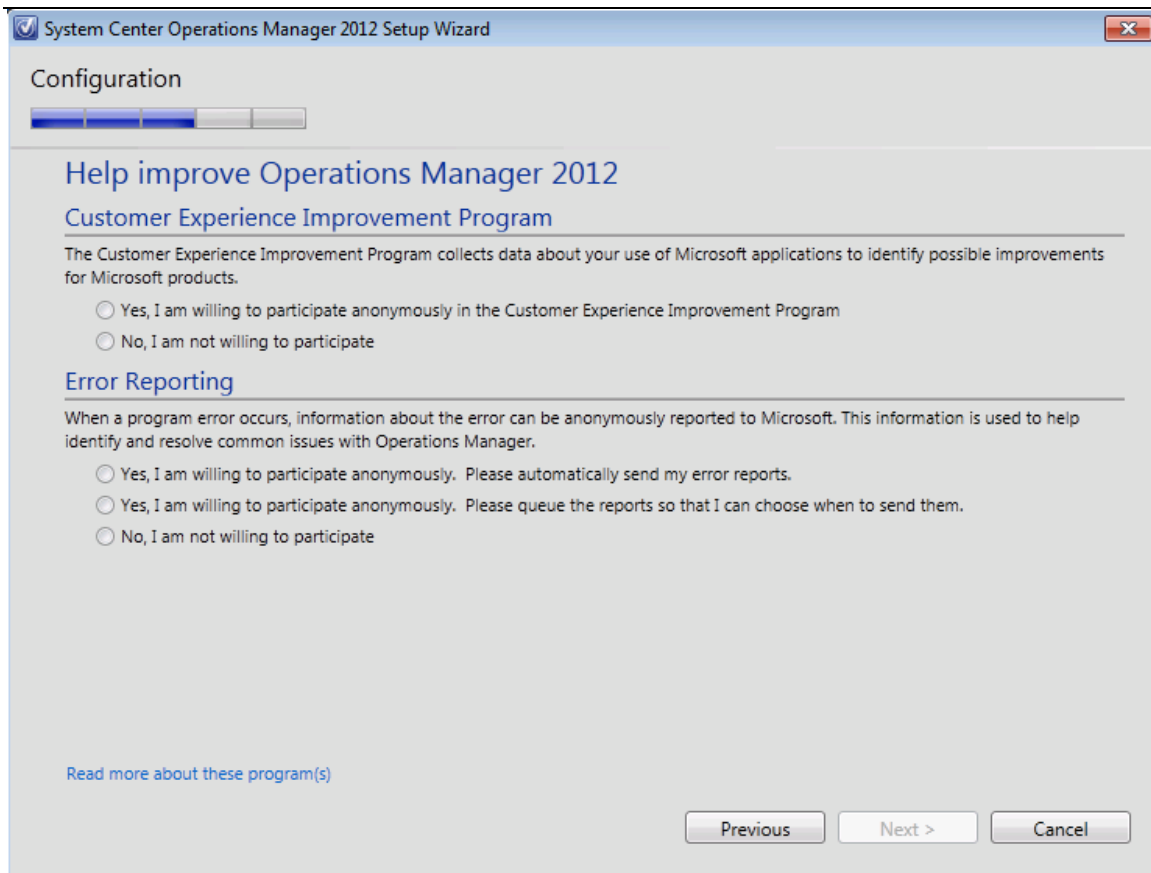
7) Accept the default value or type in a new location or browse to one , then click **Next** , display **Verifying that your environment has the required hardware and software** phase :



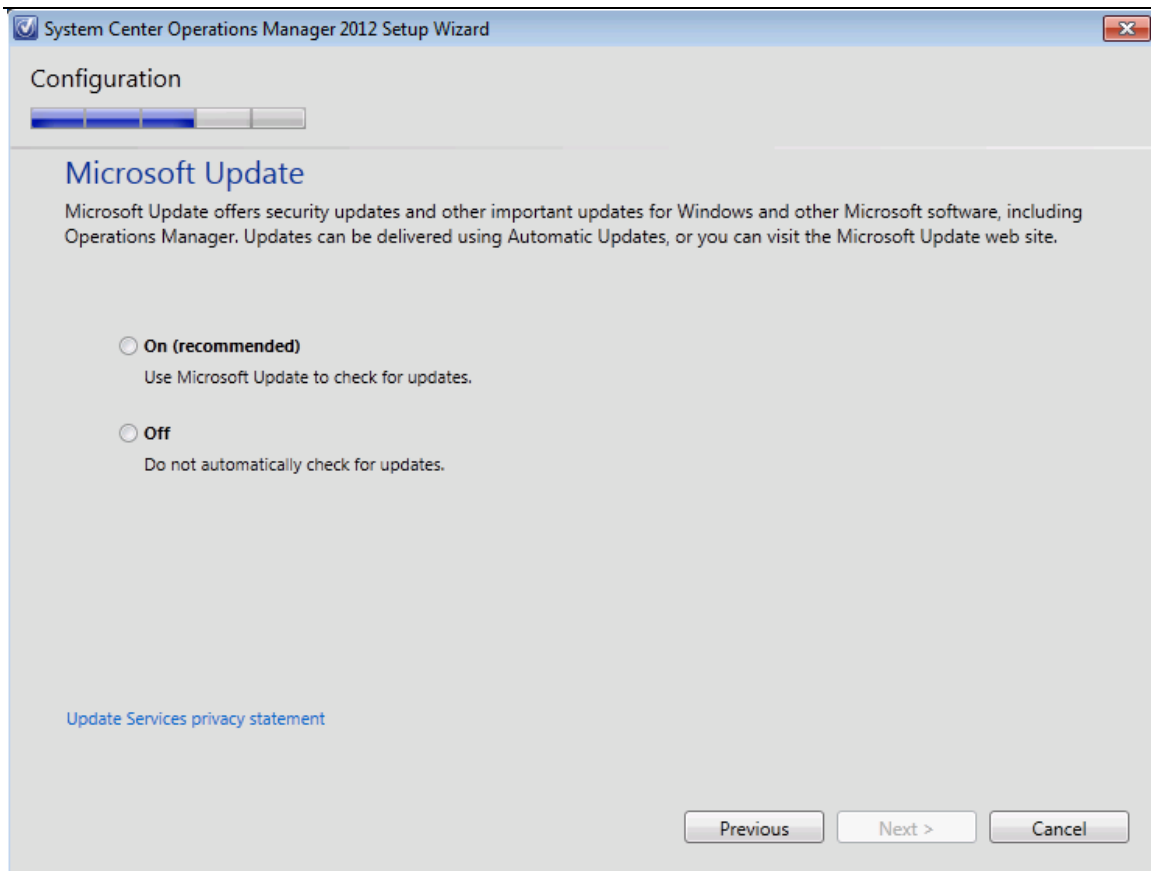
8) Wait a moment , display **Proceed with Setup** page :



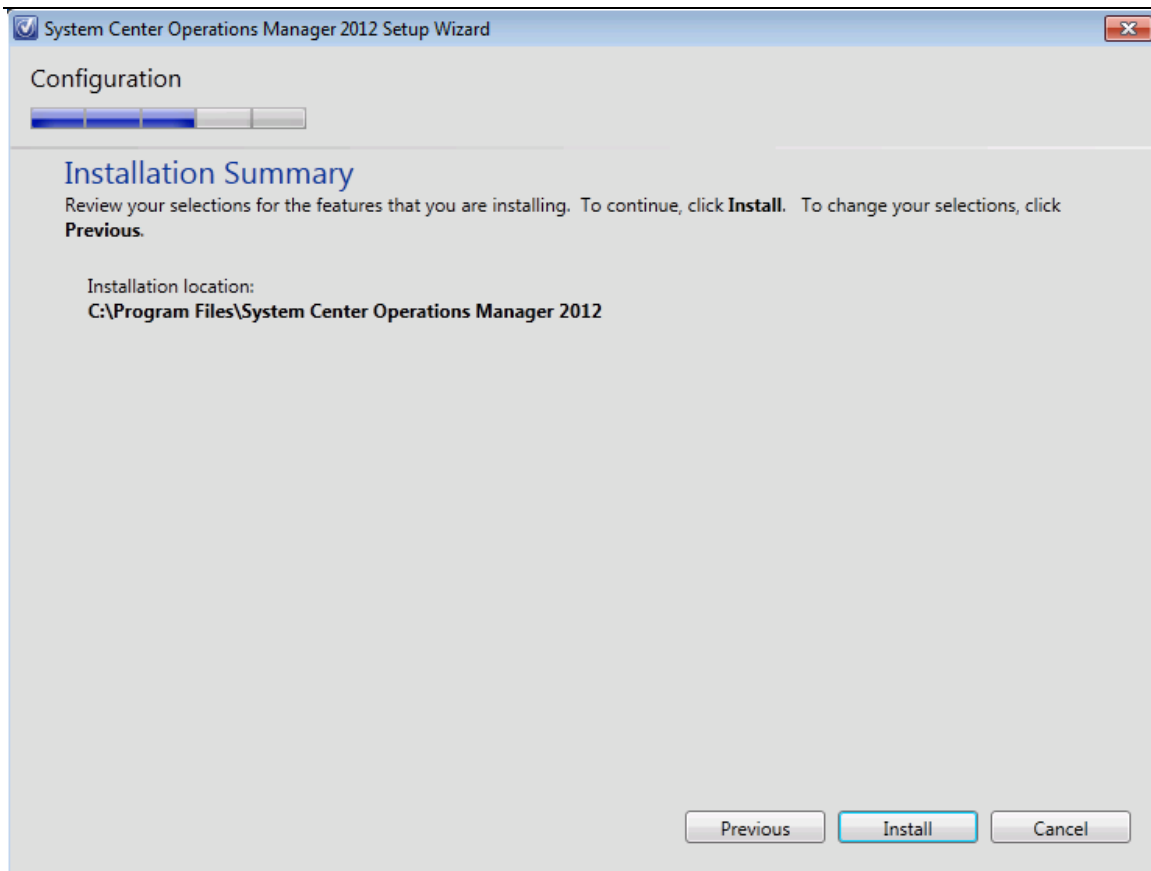
9) Confirm no errors and click **Next** , will display **Help improve Operations Manager 2012** page :



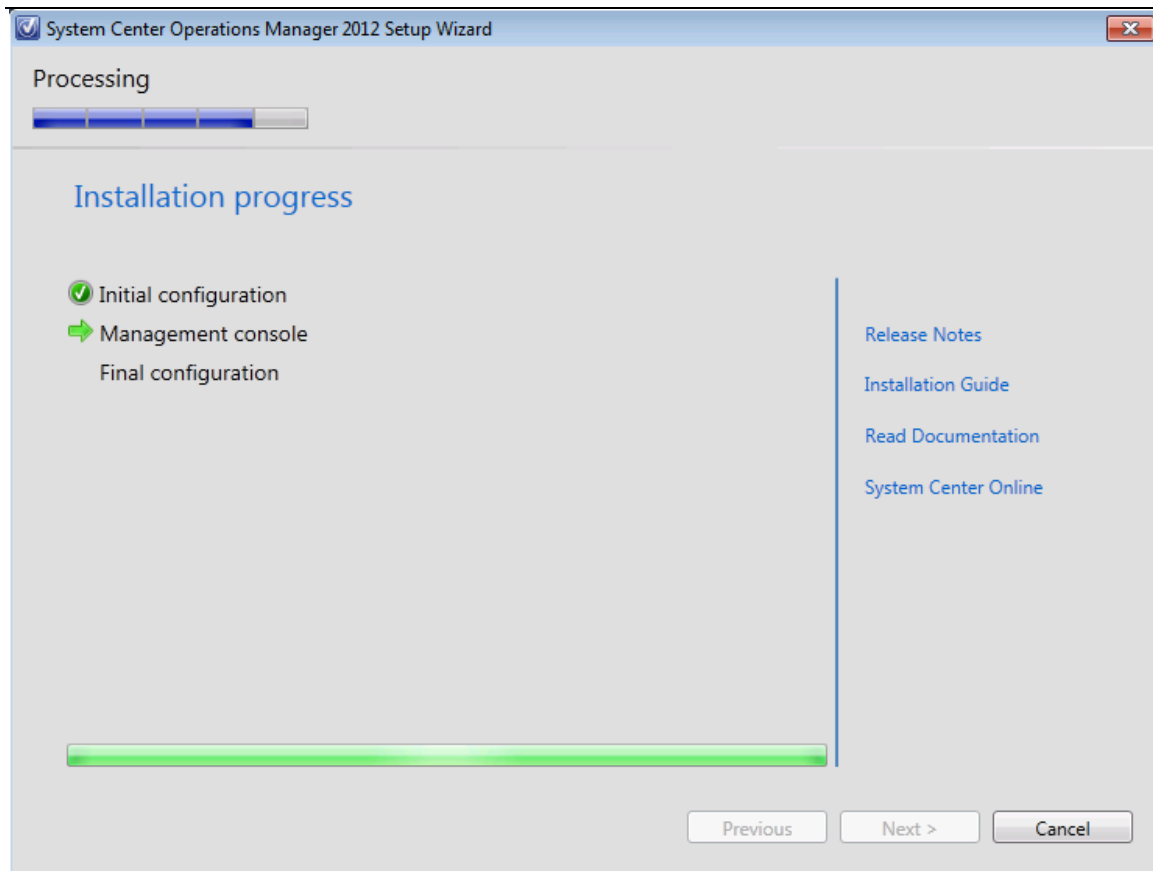
10) Select your options and click **Next** , will display **Microsoft Update** page :



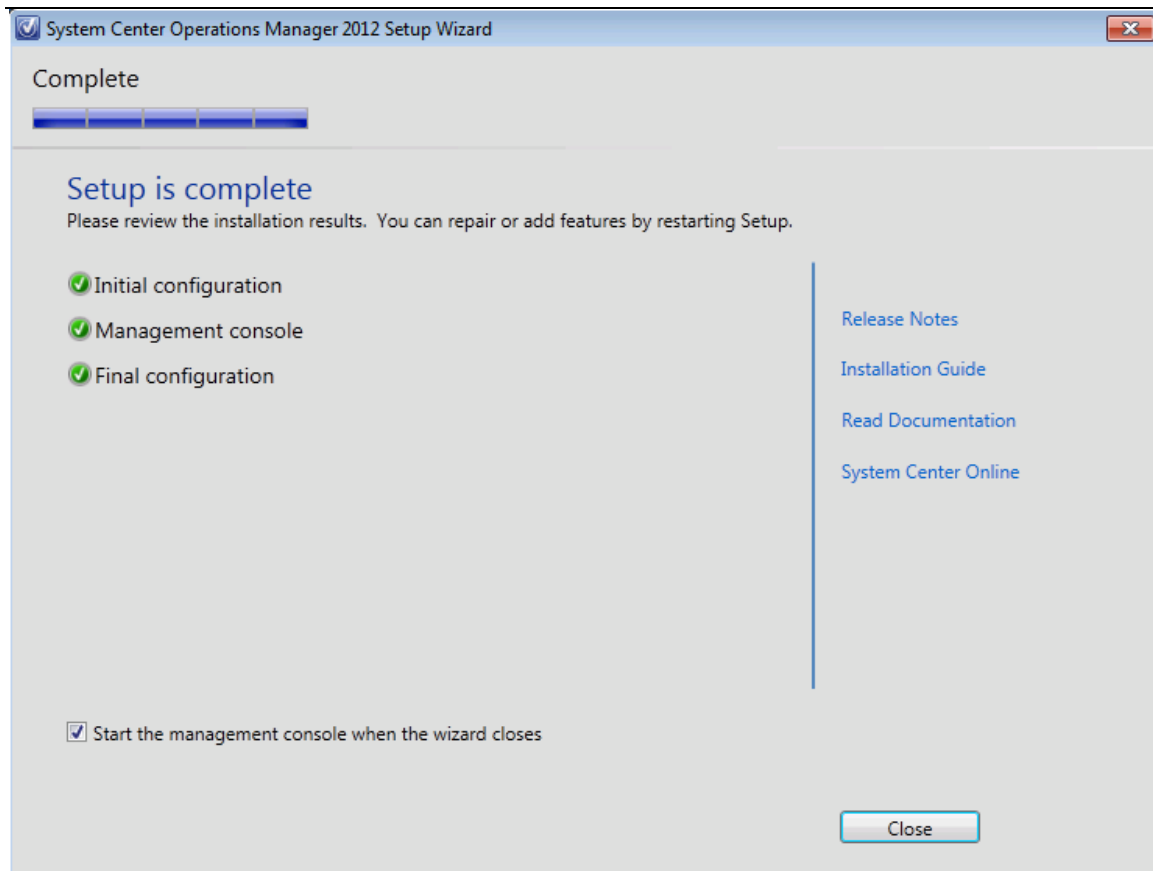
- 11) Select your option and click **Next** , display **Installation Summary** page :



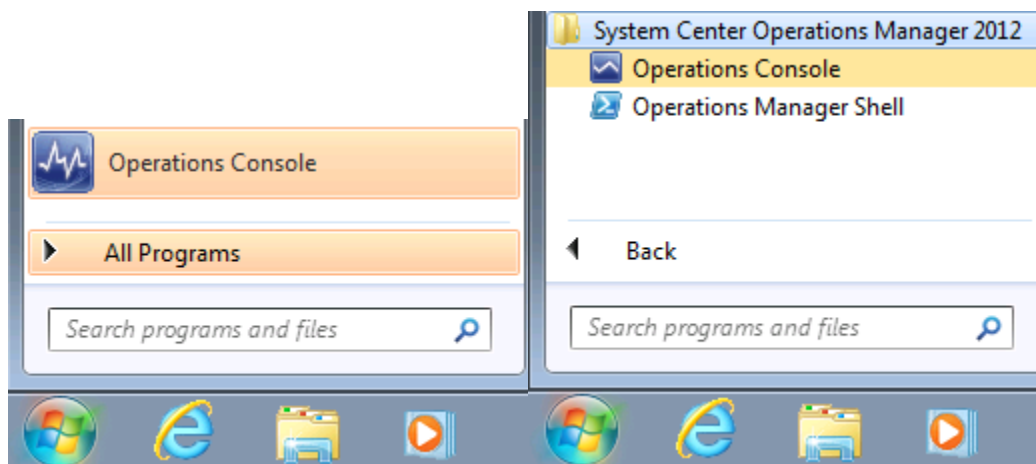
- 12) Review the options and click **Install** , start setup :



- 13) When setup is finished , the **Setup is complete** page appears :

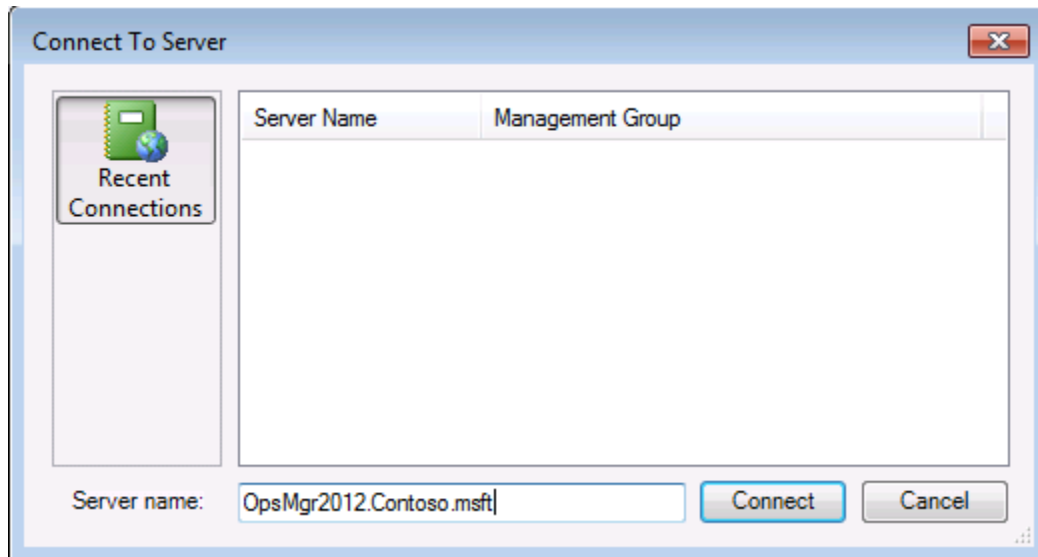


14) Unselect **Start the management console when the wizard closes** and click **Close** . To open SCOM 2012 Beta remote console , you can click **Windows Button** and choose **Operations Console** :

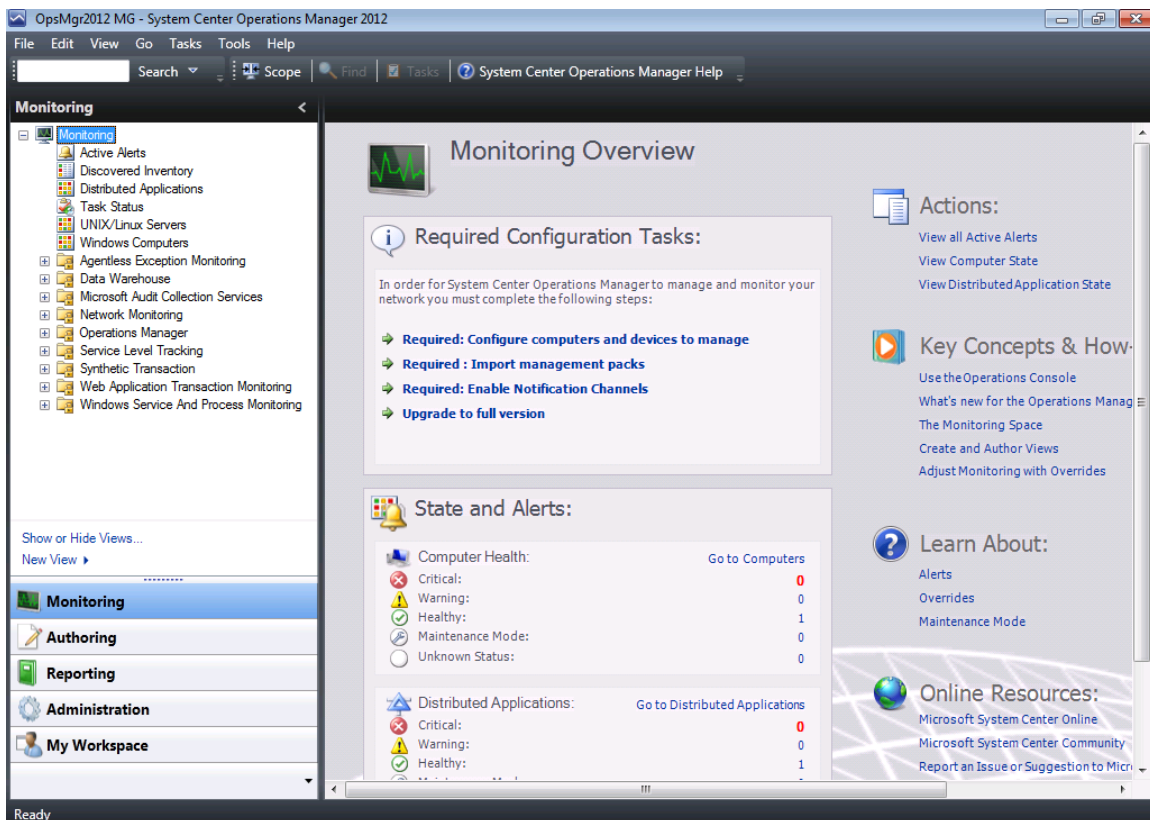


15) Display **Connect To Server** box , type SCOM 2012 Beta Management

Server name in **Server name** box :



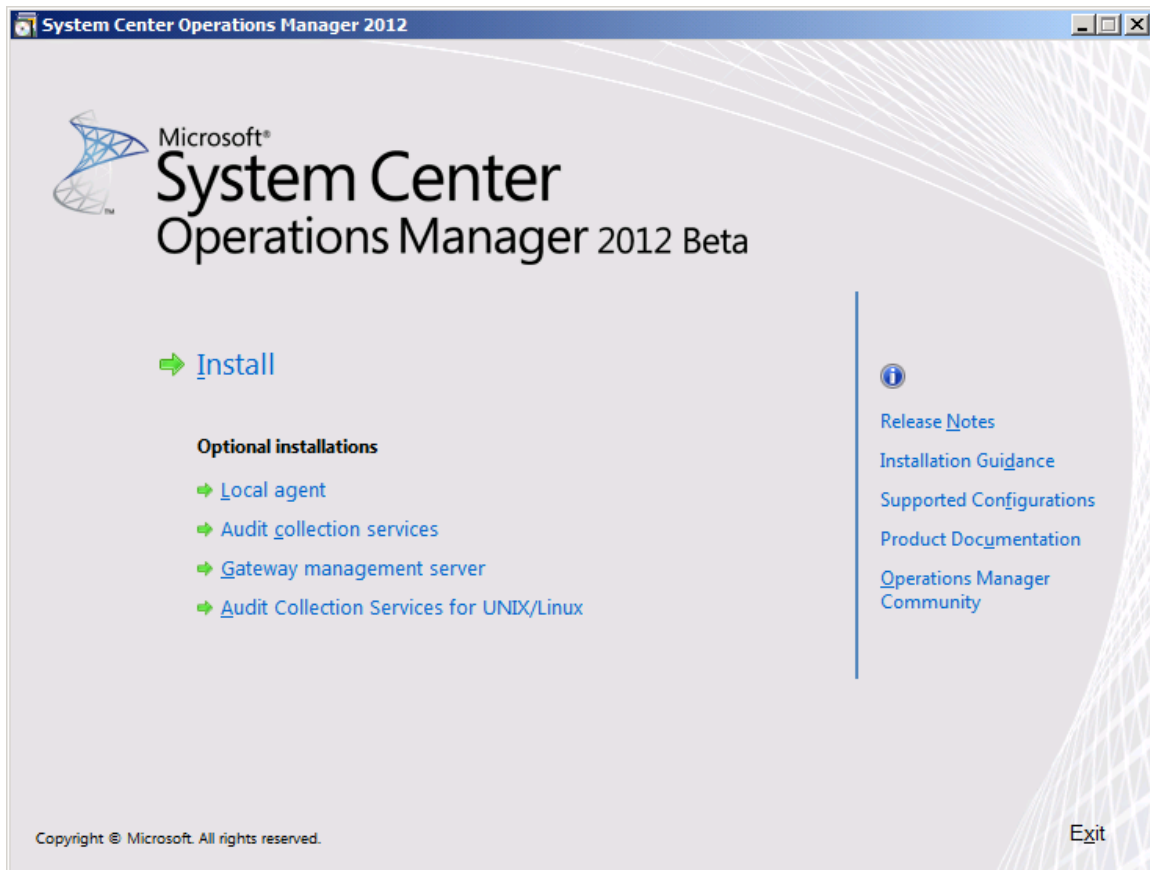
16) Click **Connect** to opening :



9. Installing SCOM 2012 Beta Audit Collection

Services :

1) logon to **OpsMgr2012** Server, insert SCOM 2012 Beta image , will auto-run display :

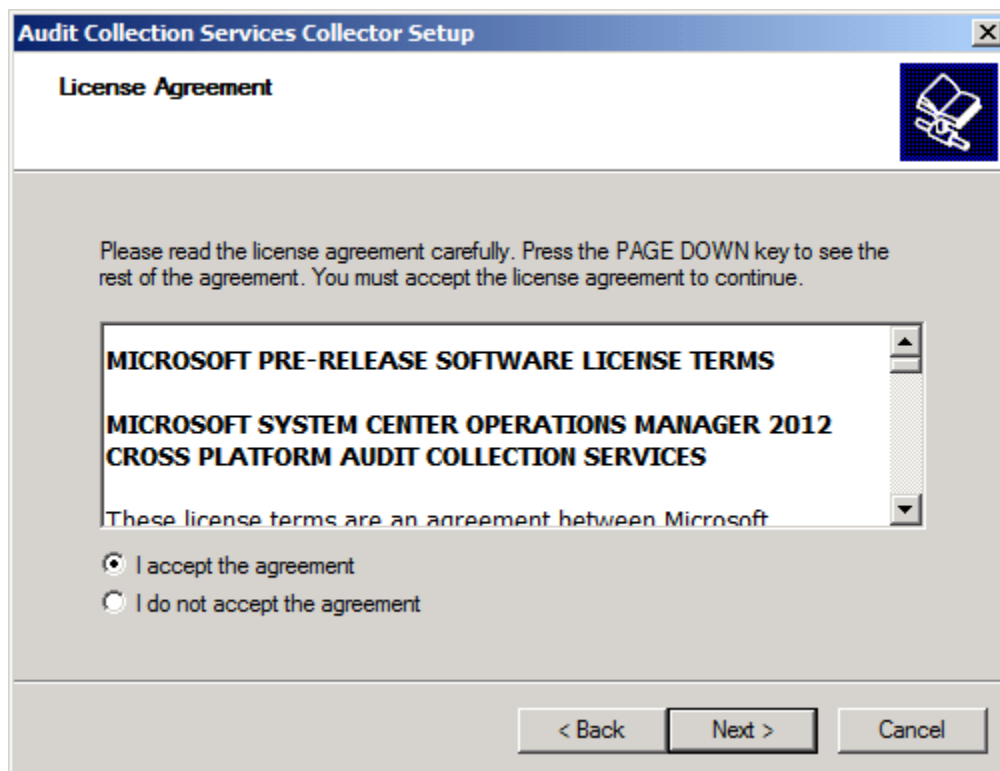


2) Click **Audit collection services** , display **Welcome to the Audit Collection**

Services Collector Setup Wizard :

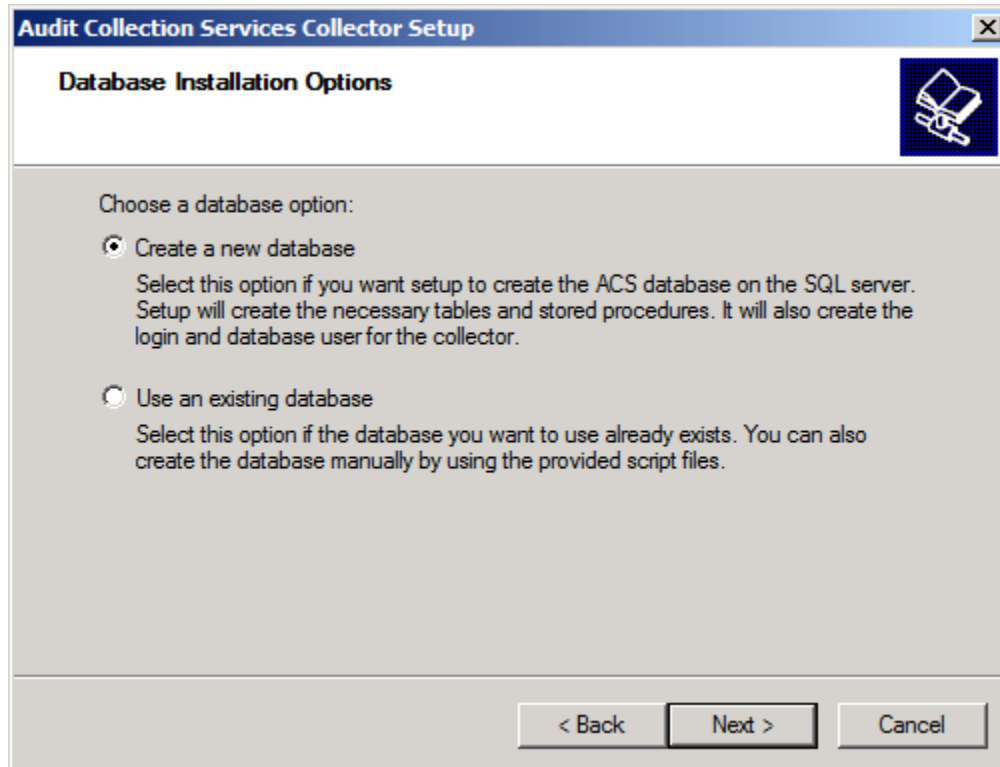


3) Click **Next** ,display **License Agreement** page :

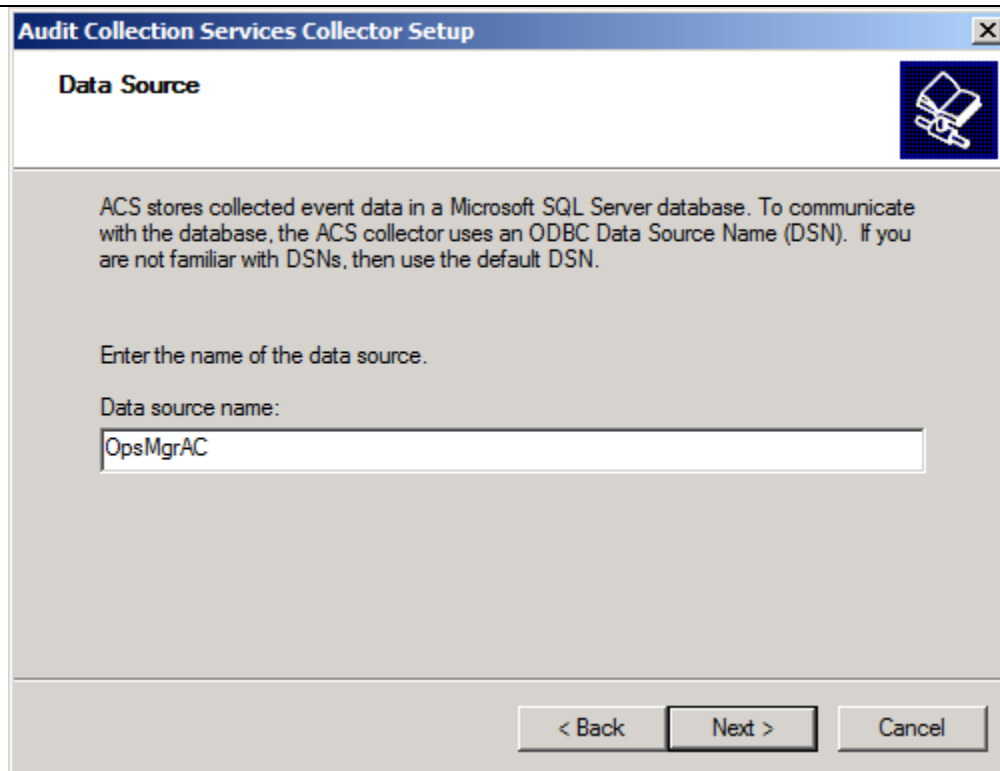


4) Select **I accept the agreement** and click **Next** , will display **Database**

Installation Options page :



5) Select **Create a new database** and click **Next** , will display **Data Source**
page :



Audit Collection Services Collector Setup

Data Source

ACS stores collected event data in a Microsoft SQL Server database. To communicate with the database, the ACS collector uses an ODBC Data Source Name (DSN). If you are not familiar with DSNs, then use the default DSN.

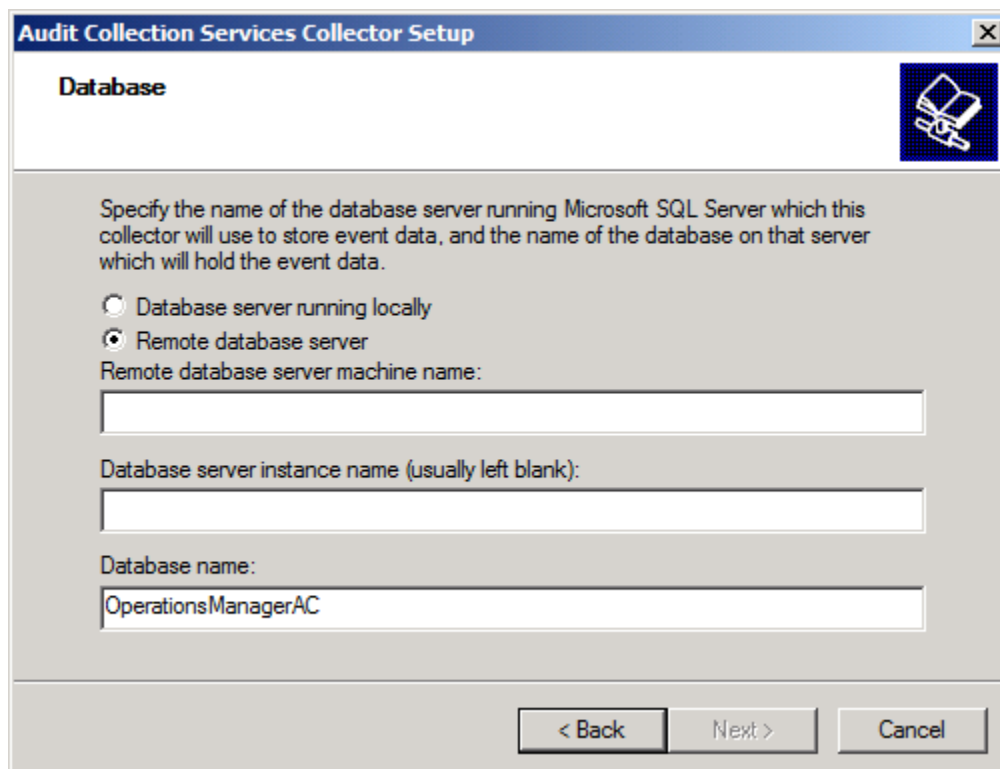
Enter the name of the data source.

Data source name:

OpsMgrAC

< Back Next > Cancel

6) Click **Next** will display **Database** page :



Audit Collection Services Collector Setup

Database

Specify the name of the database server running Microsoft SQL Server which this collector will use to store event data, and the name of the database on that server which will hold the event data.

☐ Database server running locally
☒ Remote database server

Remote database server machine name:

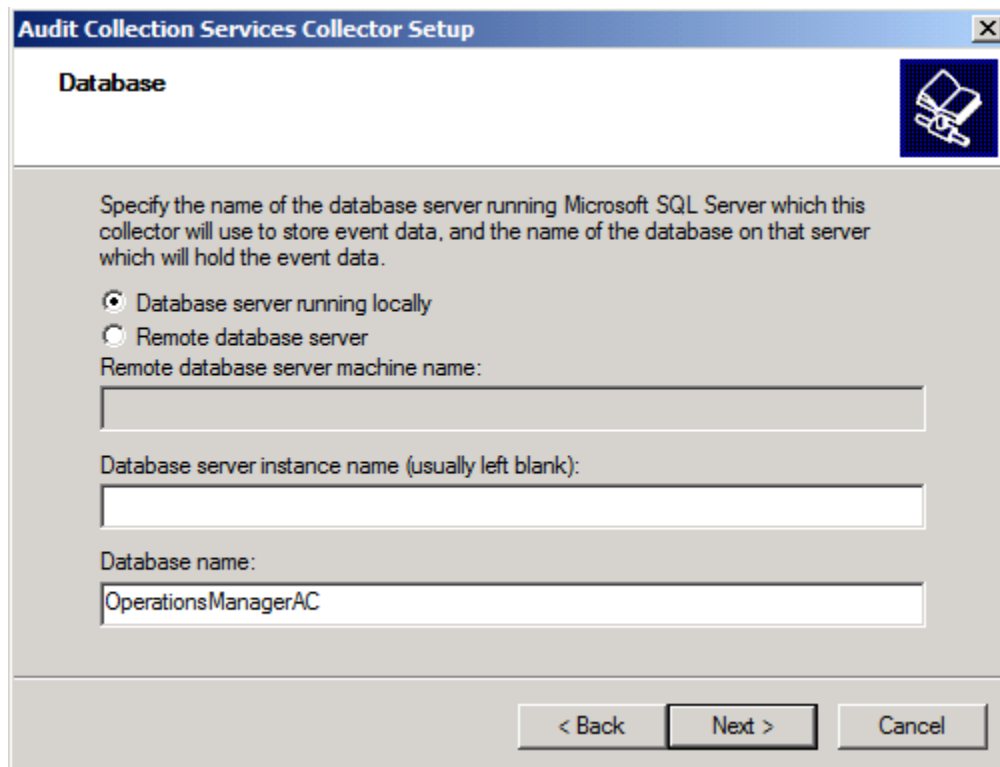
Database server instance name (usually left blank):

Database name:

OperationsManagerAC

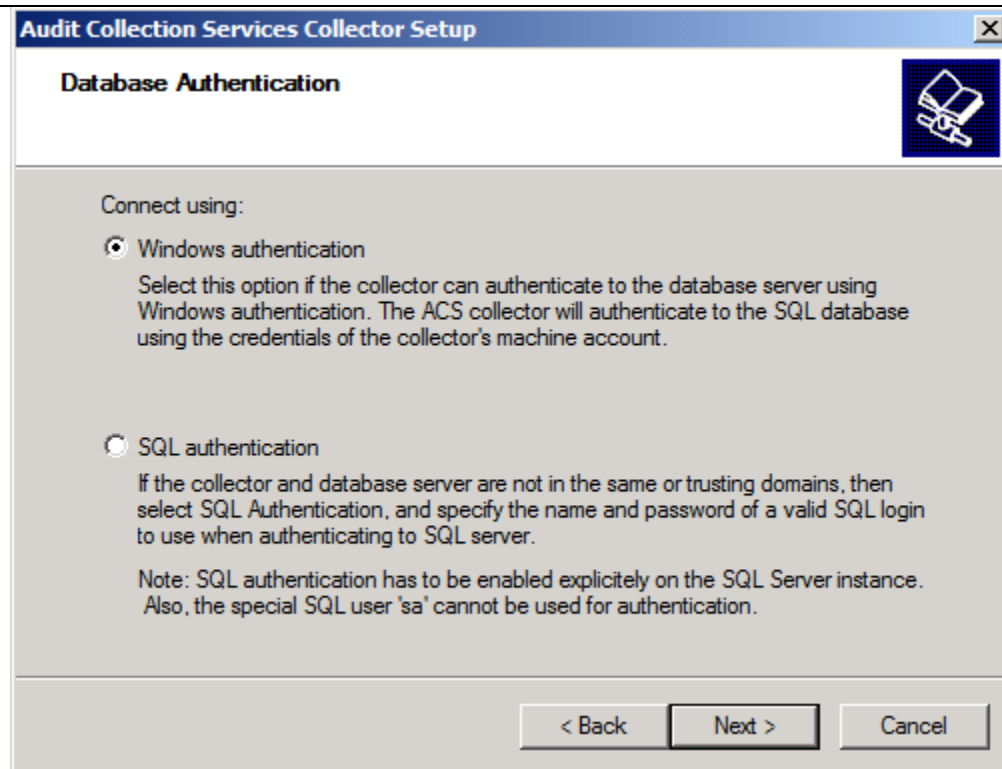
< Back Next > Cancel

7) Select **Database server running locally** :



The screenshot shows the 'Audit Collection Services Collector Setup' dialog box with the 'Database' tab selected. The dialog has a title bar with a close button. Below the title bar, the word 'Database' is displayed next to a blue icon of a server. The main area contains instructions: 'Specify the name of the database server running Microsoft SQL Server which this collector will use to store event data, and the name of the database on that server which will hold the event data.' There are two radio buttons: 'Database server running locally' (selected) and 'Remote database server'. Below the radio buttons are three text input fields: 'Remote database server machine name:' (empty), 'Database server instance name (usually left blank):' (empty), and 'Database name:' (containing 'OperationsManagerAC'). At the bottom right are three buttons: '< Back', 'Next >', and 'Cancel'.

8) Click **Next** ,display **Database Authentication** page :



9) Choose your option and click **Next** , will display **Database Creation**

Options page :

Audit Collection Services Collector Setup

Database Creation Options

SQL databases consist of at least two files, a database file and a log file. For best performance, these files should be on different physical disks, and on different physical disks than the operating system and page files.

The database should be on a volume with a large amount of free space. You must create these directories prior to installation. If these directories do not exist, installation will fail. For more information, see the ACS Deployment Guide.

☐ Use SQL Server's default data and log file directories
☒ Specify directories

Database file location:

Log file location:

< Back Next > Cancel

- 10) Select **Use SQL Server' s default date and log file directories** :

Audit Collection Services Collector Setup

Database Creation Options

SQL databases consist of at least two files, a database file and a log file. For best performance, these files should be on different physical disks, and on different physical disks than the operating system and page files.

The database should be on a volume with a large amount of free space. You must create these directories prior to installation. If these directories do not exist, installation will fail. For more information, see the ACS Deployment Guide.

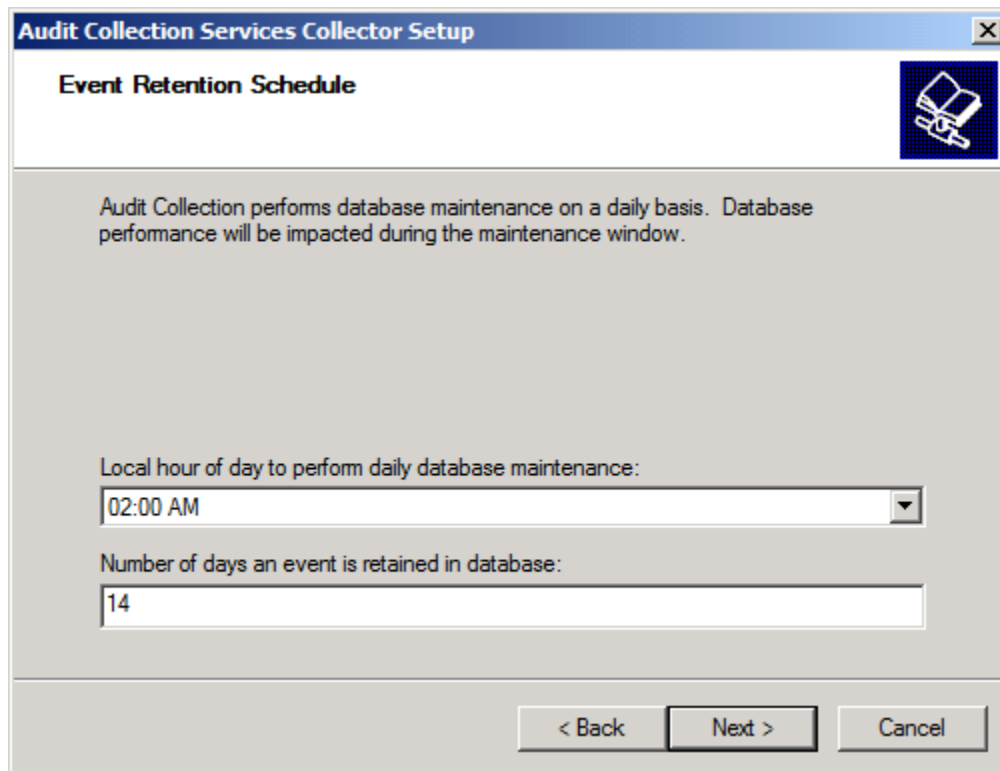
☒ Use SQL Server's default data and log file directories
☐ Specify directories

Database file location:

Log file location:

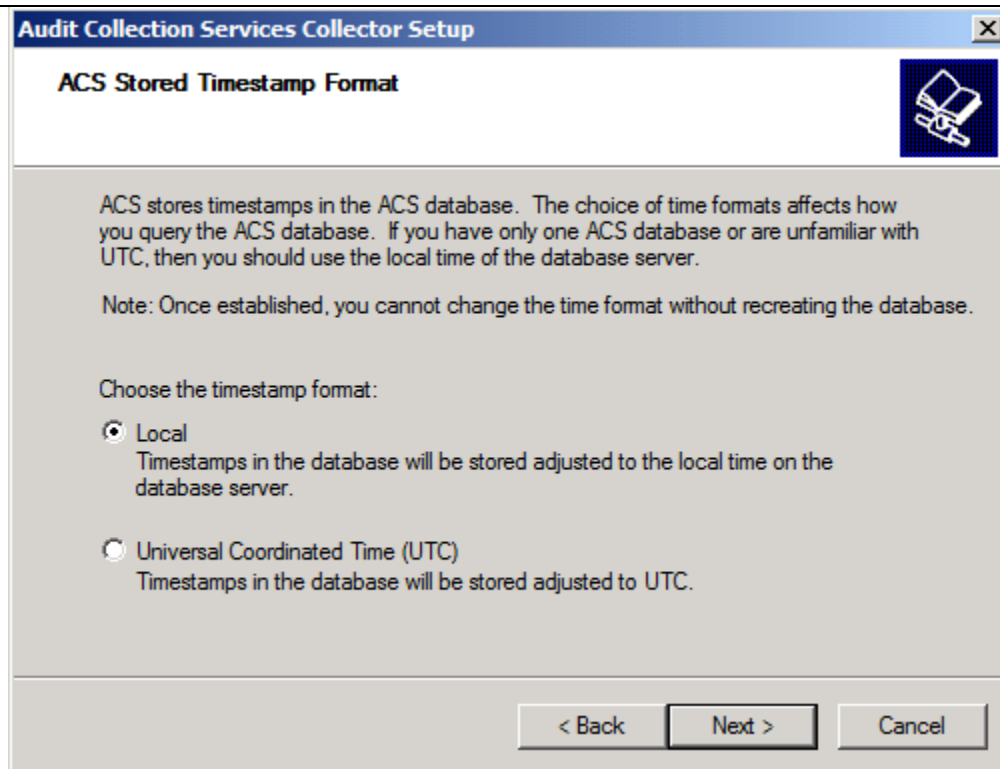
< Back Next > Cancel

- 11) Click **Next** will display **Event Retention Schedule** page :

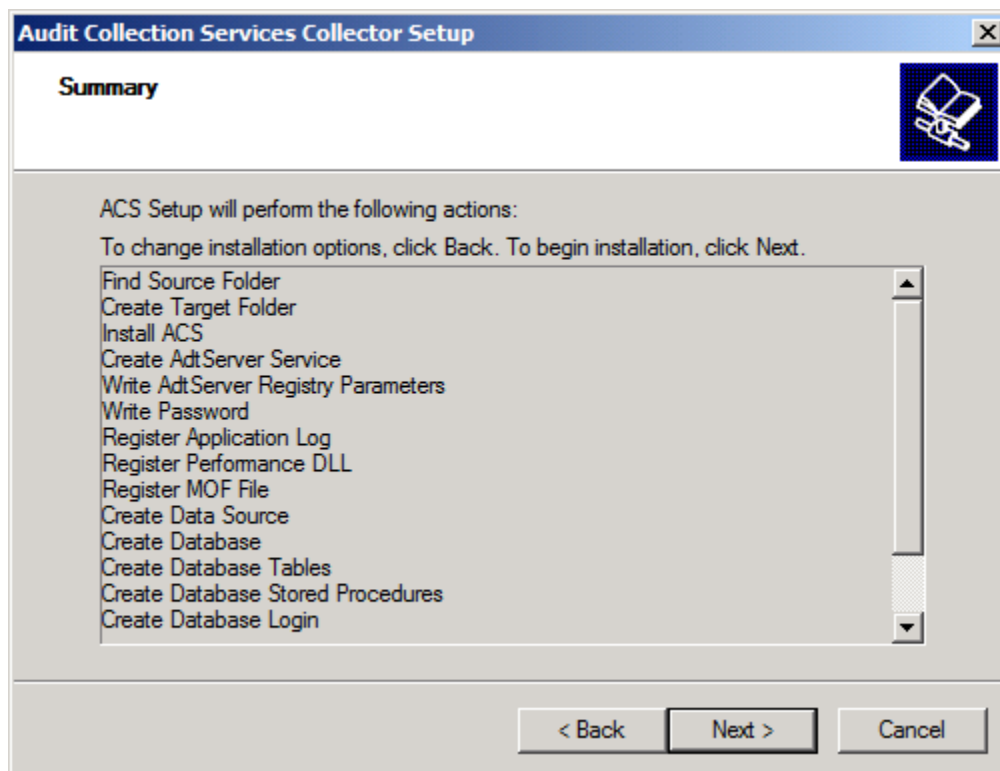


The screenshot shows a Windows-style dialog box titled "Audit Collection Services Collector Setup". The main heading is "Event Retention Schedule". Below the heading, there is a blue icon of a server. A text block states: "Audit Collection performs database maintenance on a daily basis. Database performance will be impacted during the maintenance window." Below this, there are two input fields. The first is labeled "Local hour of day to perform daily database maintenance:" and contains a dropdown menu with "02:00 AM" selected. The second is labeled "Number of days an event is retained in database:" and contains a text box with the value "14". At the bottom right, there are three buttons: "< Back", "Next >" (which is highlighted with a black border), and "Cancel".

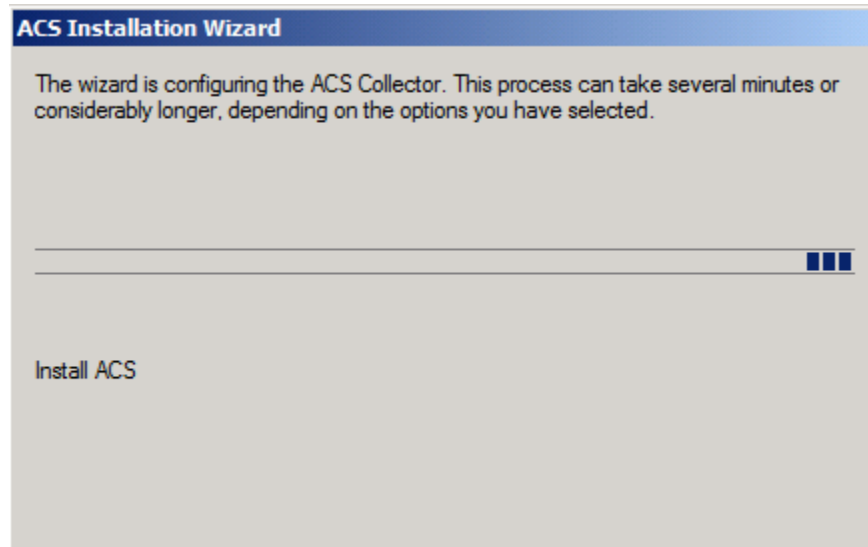
- 12) Based on your requirement setting and click **Next** ,will display **ACS Stored Timestamp Format** page :



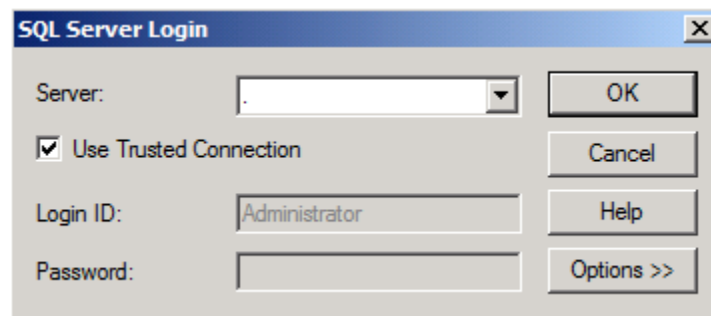
- 13) Select your option and click **Next**, will display **Summary** page :



- 14) Review your option and click **Next** to start installing phase :



- 15) On **SQL Server Login** box , click **OK** :

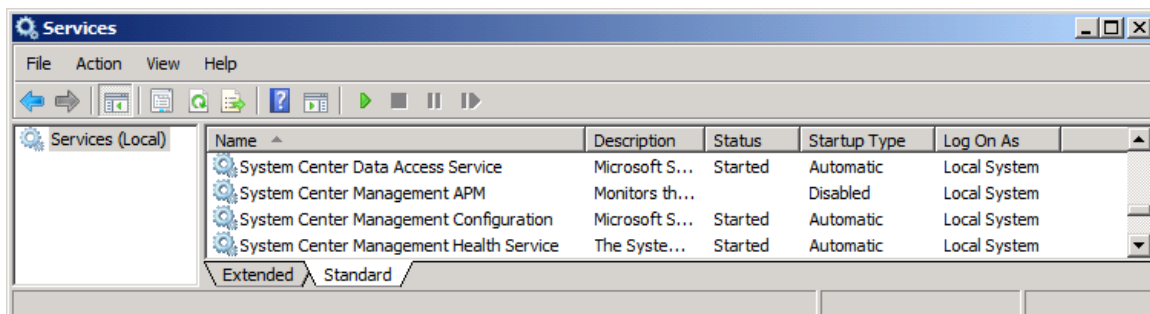
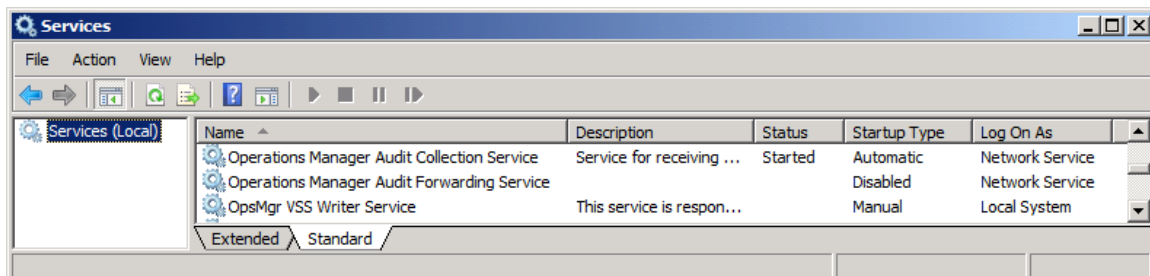


- 16) Wait a moment , setup finished , display :



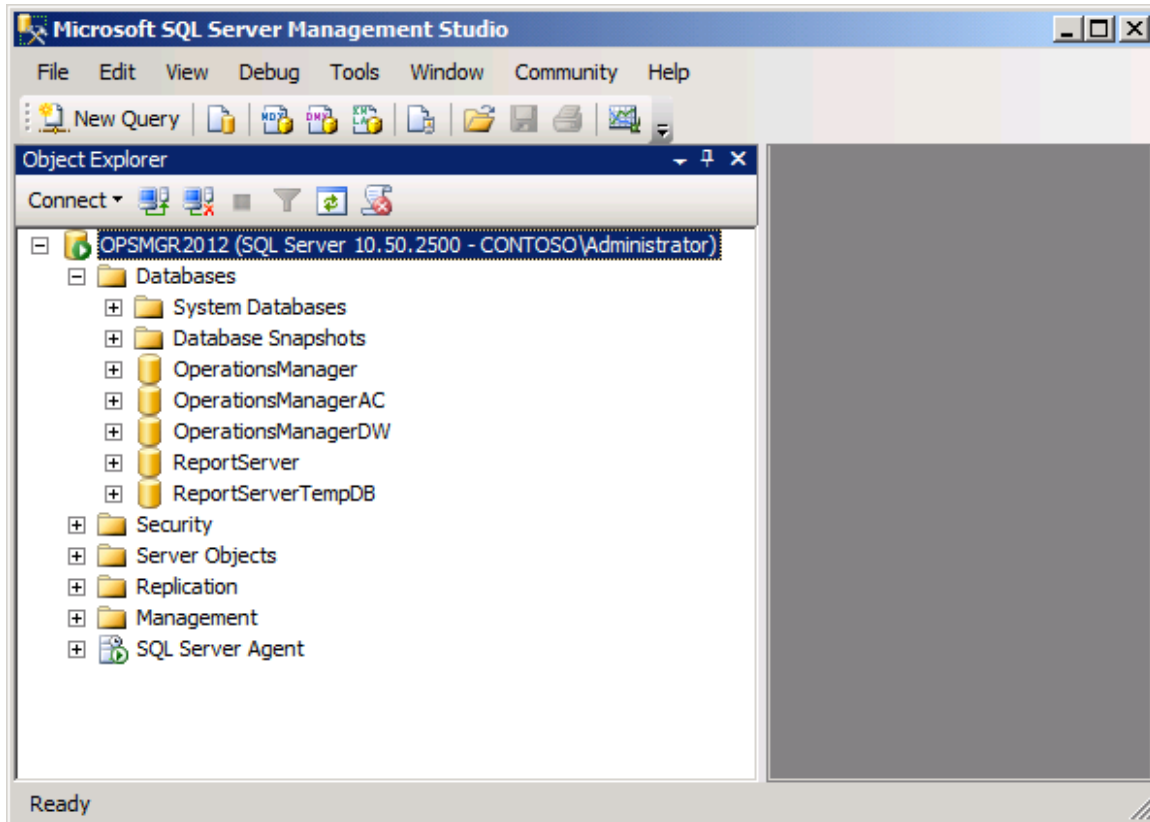
17) Click **Finish** . Open **Services.msc** ,you can see about SCOM 2012

Beta 's services :



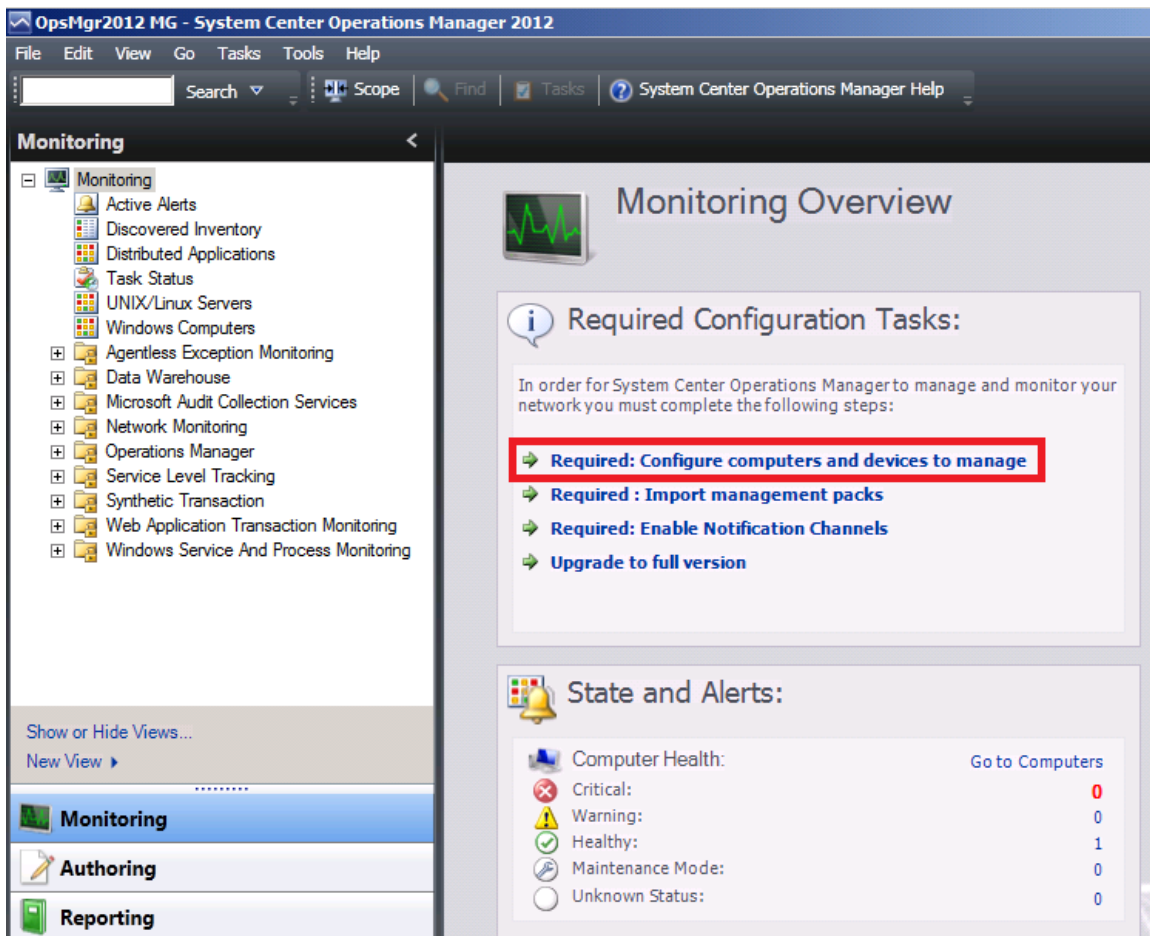
18) In **Microsoft SQL Server Management Studio** , you can see SCOM

2012 Beta all databases :

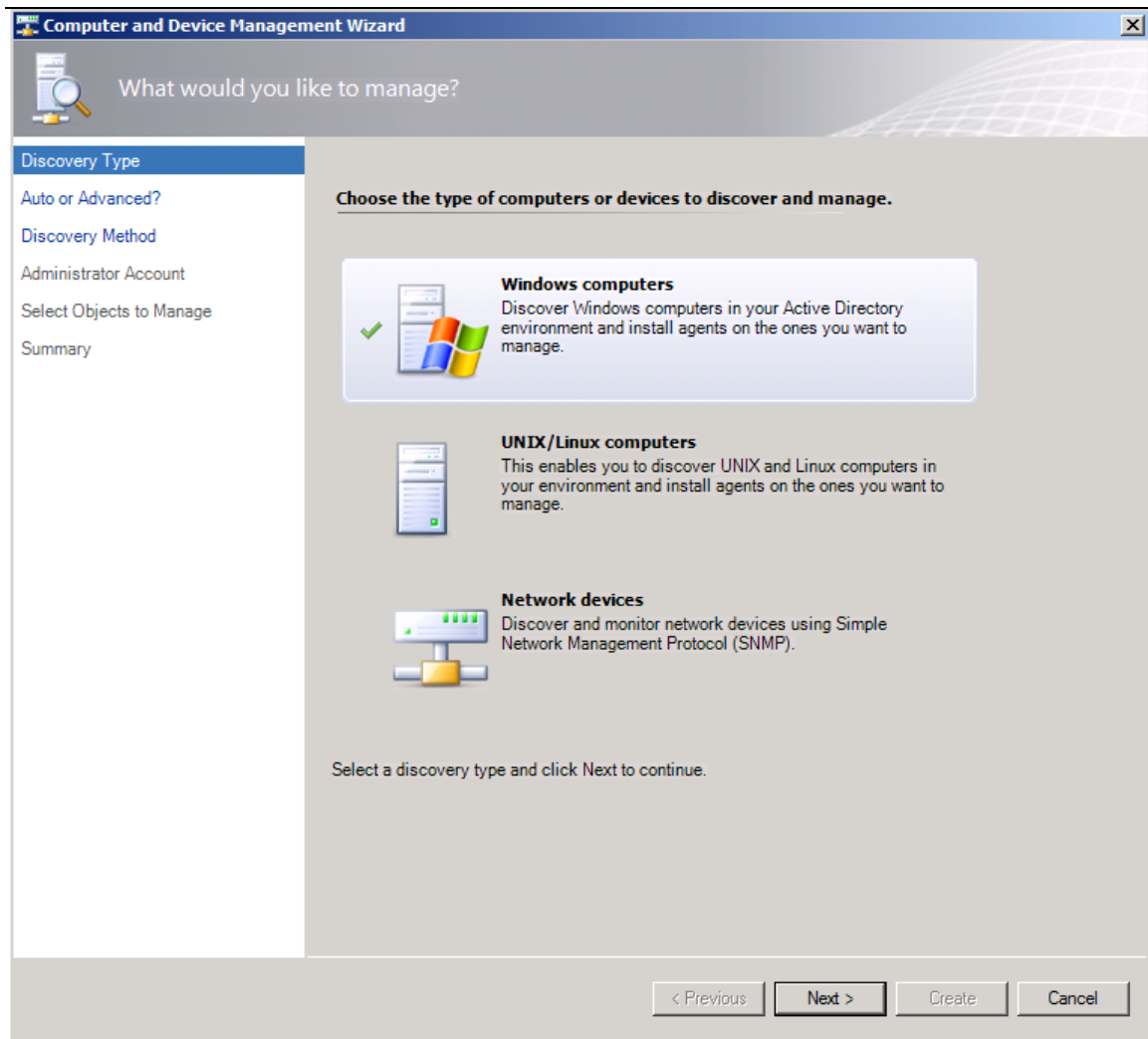


10. Pushing SCOM 2012 Beta Agent and Enabling the ACS Forwarder :

1) Logon to **OpsMgr2012** server , in **System Center Operations Manager 2012** operational console , in **Monitoring** workspace , you can see all **Required Configuration Tasks** , click **Required : Configure computers and devices to manage** :



2) The **Computer and Device Management Wizard** is displayed :



3) Select **Windows computers** , and click **Next** will display **Auto or Advanced?**

Page :

The screenshot shows the 'Computer and Device Management Wizard' window. The title bar reads 'Computer and Device Management Wizard'. The main area is titled 'Auto or Advanced?'. On the left, a navigation pane lists the steps: 'Discovery Type', 'Auto or Advanced?' (selected), 'Discovery Method', 'Administrator Account', 'Select Objects to Manage', and 'Summary'. The main content area is titled 'Choose automatic or advanced discovery'. It contains two radio buttons: 'Automatic computer discovery' and 'Advanced discovery'. The 'Advanced discovery' option is selected. Below the radio buttons, there is a section for 'Computer and Device Classes' with a dropdown menu set to 'Servers and Clients'. A note states: 'Note: This setting applies only when scanning Active Directory. You can configure how these objects will be discovered, on the next screen(s)'. Below this, there is a 'Management Server' dropdown menu set to 'OpsMgr2012.Contoso.msft'. At the bottom of the main area, there is a checkbox labeled 'Verify discovered computers can be contacted', which is currently unchecked. At the bottom of the wizard, there are four buttons: '< Previous', 'Next >', 'Create', and 'Cancel'.

Computer and Device Management Wizard

Auto or Advanced?

Discovery Type

Auto or Advanced?

Discovery Method

Administrator Account

Select Objects to Manage

Summary

Choose automatic or advanced discovery

☐ Automatic computer discovery
Scans the "CONTOSO" domain for all Windows-based computers.

☒ Advanced discovery
Allows you to specify advanced discovery options and settings.

Computer and Device Classes:
Servers and Clients

Note: This setting applies only when scanning Active Directory. You can configure how these objects will be discovered, on the next screen(s).

Management Server
OpsMgr2012.Contoso.msft

☐ Verify discovered computers can be contacted

< Previous Next > Create Cancel

4) Select **Verify discovered computers can be contacted** :

The screenshot shows the 'Computer and Device Management Wizard' window. The title bar reads 'Computer and Device Management Wizard'. The main window has a left-hand navigation pane with the following items: 'Discovery Type', 'Auto or Advanced?' (which is selected and highlighted in blue), 'Discovery Method', 'Administrator Account', 'Select Objects to Manage', and 'Summary'. The main content area is titled 'Auto or Advanced?' and contains the following elements:

- A section header: 'Choose automatic or advanced discovery'.
- Two radio button options:
 - ☐ **Automatic computer discovery**
Scans the "CONTOSO" domain for all Windows-based computers.
 - ☒ **Advanced discovery**
Allows you to specify advanced discovery options and settings.
- A label 'Computer and Device Classes:' followed by a dropdown menu showing 'Servers and Clients'.
- A note: 'Note: This setting applies only when scanning Active Directory. You can configure how these objects will be discovered, on the next screen(s).'
- A label 'Management Server' followed by a dropdown menu showing 'OpsMgr2012.Contoso.msft'.
- A checked checkbox: ☒ 'Verify discovered computers can be contacted'.

At the bottom right of the window, there are four buttons: '< Previous', 'Next >', 'Create', and 'Cancel'.

5) Click **Next** , Will display **Discovery Method** page :

The screenshot shows the 'Computer and Device Management Wizard' window, specifically the 'Discovery Method' step. The left sidebar contains a list of steps: 'Discovery Type', 'Auto or Advanced?', 'Discovery Method' (which is highlighted), 'Administrator Account', 'Select Objects to Manage', and 'Summary'. The main area is titled 'How do you want to discover computers?'. It has two radio button options. The first option, 'Scan Active Directory', is selected. Below it, there is a text box for a query and a 'Configure...' button. A 'Domain:' label is followed by a dropdown menu showing 'CONTOSO'. The second option, 'Browse for, or type-in computer names', is unselected. Below it, there is a large text box for entering computer names and a 'Browse...' button. At the bottom of the main area, there is a note: 'For example, server1.contoso.com or server1'. At the bottom of the wizard, there are four buttons: '< Previous', 'Next >', 'Create', and 'Cancel'.

Computer and Device Management Wizard

Discovery Method

Discovery Type
Auto or Advanced?
Discovery Method
Administrator Account
Select Objects to Manage
Summary

How do you want to discover computers?

☒ Scan Active Directory

Select objects from Active Directory to scan, or create an advanced query.

Configure...

Domain:
CONTOSO

☐ Browse for, or type-in computer names

Browse Active Directory or type computer names into the list below. Separate each computer name by a semi-colon, comma or a new line:

Browse...

For example, server1.contoso.com or server1

< Previous Next > Create Cancel

6) Select **Browse for , or type-in computer names** and type target computer name :

The screenshot shows the 'Computer and Device Management Wizard' window, specifically the 'Discovery Method' step. The left sidebar contains a list of steps: 'Discovery Type', 'Auto or Advanced?', 'Discovery Method' (which is highlighted), 'Administrator Account', 'Select Objects to Manage', and 'Summary'. The main area is titled 'How do you want to discover computers?'. It has two radio button options. The first option, 'Scan Active Directory', is currently selected. Below it, there is a text box for a query and a 'Configure...' button. A 'Domain:' dropdown menu is set to 'CONTOSO'. The second option, 'Browse for, or type-in computer names', is unselected. Below it, there is a text box containing 'CONSOLE.Contoso.msft' and 'DC.Contoso.msft', and a 'Browse...' button. At the bottom of the main area, there is a note: 'For example, server1.contoso.com or server1'. At the bottom of the wizard, there are four buttons: '< Previous', 'Next >', 'Create', and 'Cancel'.

Computer and Device Management Wizard

Discovery Method

Discovery Type
Auto or Advanced?
Discovery Method
Administrator Account
Select Objects to Manage
Summary

How do you want to discover computers?

☐ Scan Active Directory
Select objects from Active Directory to scan, or create an advanced query.

Domain: CONTOSO

☒ Browse for, or type-in computer names
Browse Active Directory or type computer names into the list below. Separate each computer name by a semi-colon, comma or a new line:
CONSOLE.Contoso.msft
DC.Contoso.msft

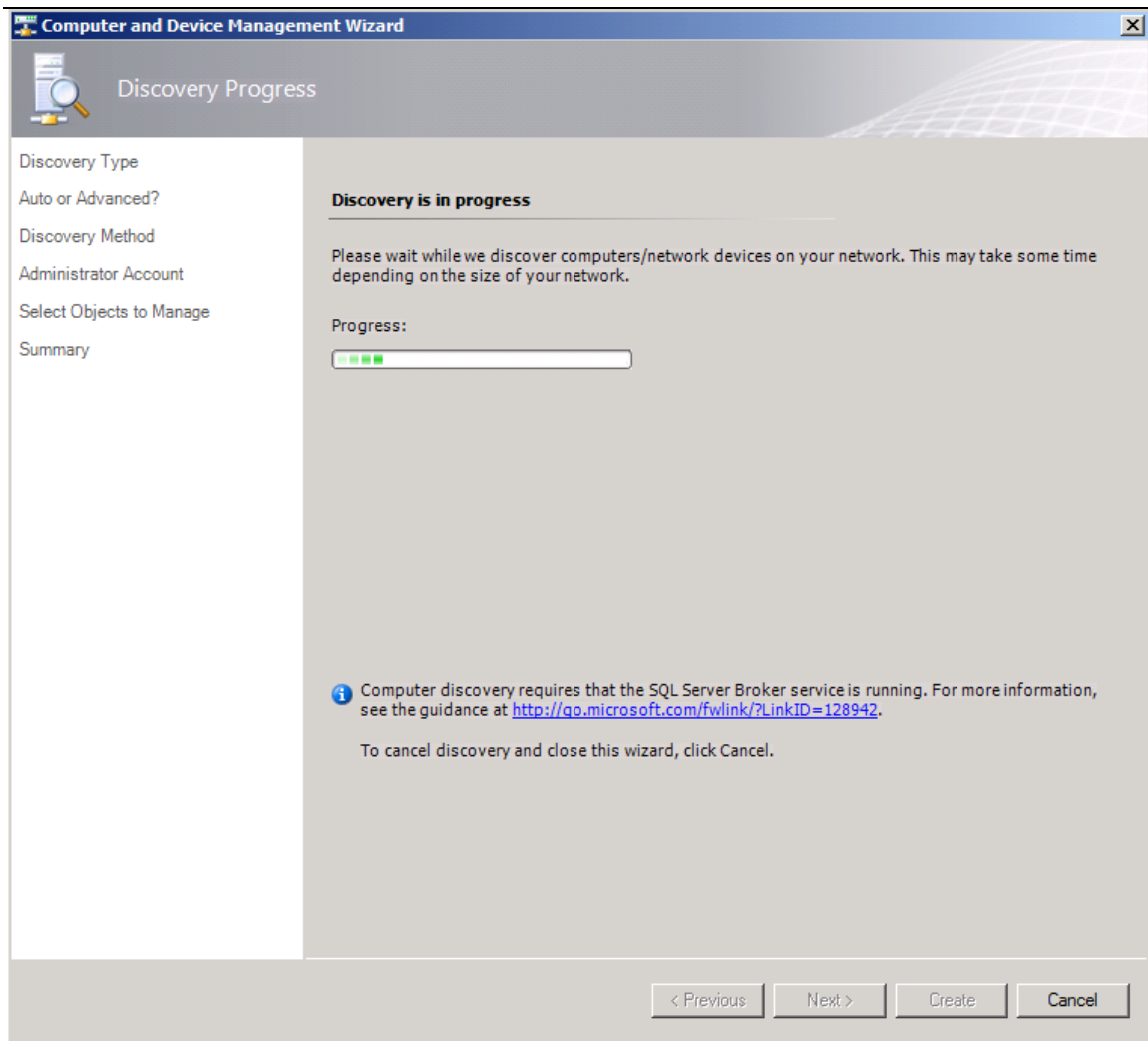
For example, server1.contoso.com or server1

< Previous Next > Create Cancel

7) Click **Next** , display **Administrator Account** page :

The screenshot shows the 'Administrator Account' step of the 'Computer and Device Management Wizard'. The left sidebar contains the following steps: Discovery Type, Auto or Advanced?, Discovery Method, Administrator Account (highlighted), Select Objects to Manage, and Summary. The main area is titled 'Administrator Account' and contains the following text: 'Select a user account with Administrator rights on the computers you will scan. These credentials will also be used when installing the agents on managed computers.' Below this text are two radio button options: 'Use selected Management Server Action Account' (which is selected) and 'Other user account'. If 'Other user account' were selected, there would be input fields for 'User name:', 'Password:', and 'Domain:'. The 'Domain:' field currently shows 'CONTOSO'. At the bottom of the main area, there is a checkbox labeled 'This is a local computer account, not a domain account' which is currently unchecked. Below the checkbox is a note: 'Note: When selecting the local account option, the agent installation task will be run as the local account, while the Discovery task will be run using the Management Server Action Account.' At the bottom right of the wizard, there are four buttons: '< Previous', 'Next >', 'Create', and 'Cancel'.

8) Click **Create** and display **Discovery Progress** page :



9) Wait a moment , will display **Select Objects to Manage** page :

The screenshot shows the 'Computer and Device Management Wizard' window. The title bar reads 'Computer and Device Management Wizard'. The main window has a left-hand navigation pane with the following items: 'Discovery Type', 'Auto or Advanced?', 'Discovery Method', 'Administrator Account', 'Select Objects to Manage' (which is highlighted), and 'Summary'. The main area is titled 'Select Objects to Manage'. It features a 'Discovery Results' section with the text: 'The discovery process found the following un-managed devices.' Below this text are two buttons: 'Select All' and 'Deselect All'. Underneath these buttons is a list box containing two items, each with a checkbox: 'CONSOLE.Contoso.msft' and 'DC.Contoso.msft'. Below the list box is a note: 'Note: If you do not see all of the computers you expect to see, you can obtain information on troubleshooting discovery issues at <http://go.microsoft.com/fwlink/?LinkID=128940>.' Below the note are two input fields: 'Management Server' with the text 'OpsMgr2012.Contoso.msft' and 'Management Mode:' with a dropdown menu showing 'Agent'. At the bottom of the window are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'.

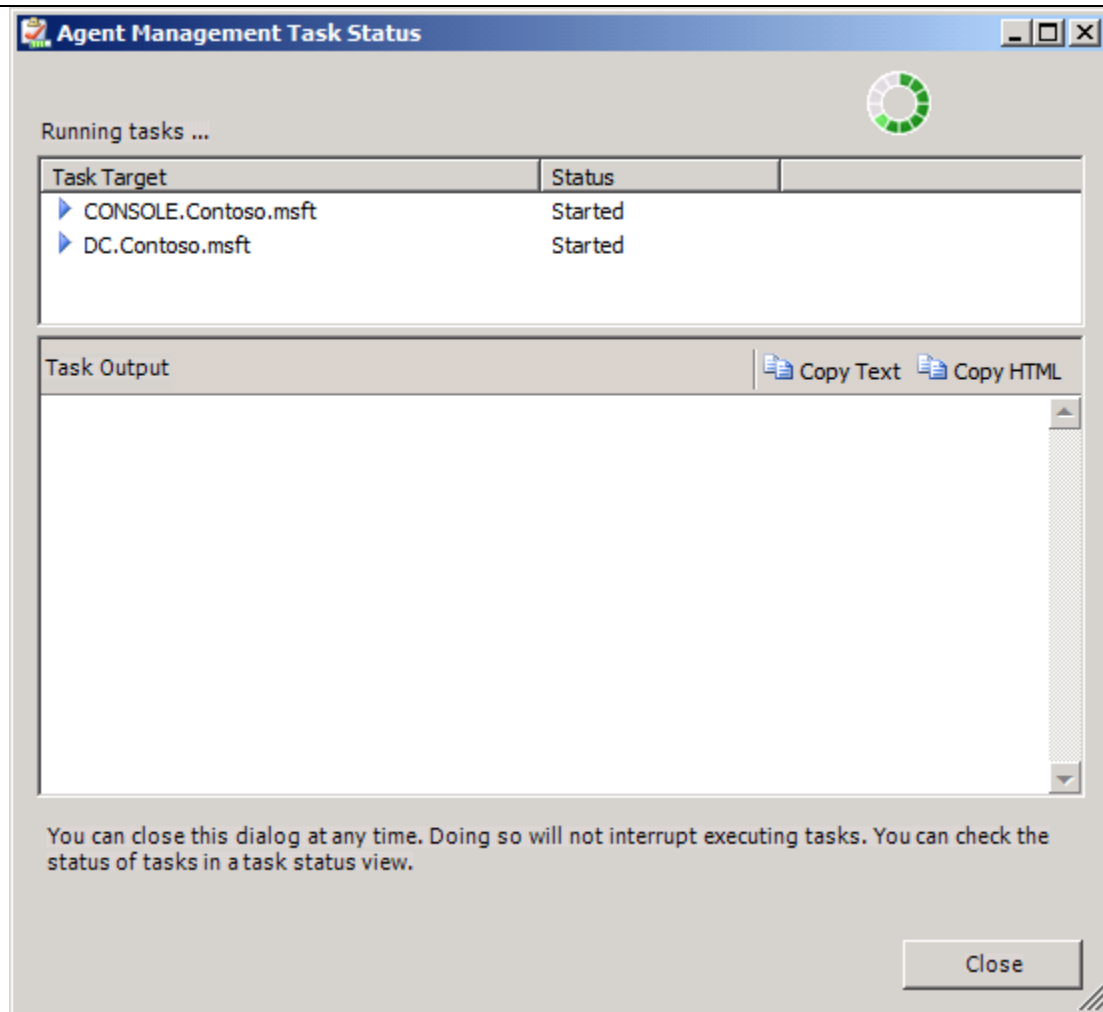
10) Click **Select All** :

The screenshot shows the 'Computer and Device Management Wizard' window. The title bar reads 'Computer and Device Management Wizard'. The main window has a left-hand navigation pane with the following items: 'Discovery Type', 'Auto or Advanced?', 'Discovery Method', 'Administrator Account', 'Select Objects to Manage' (which is highlighted), and 'Summary'. The main area is titled 'Select Objects to Manage' and contains a 'Discovery Results' section. This section states: 'The discovery process found the following un-managed devices.' Below this, there is a list of devices with checkboxes: 'CONSOLE.Contoso.msft' and 'DC.Contoso.msft', both of which are checked. Above the list are 'Select All' and 'Deselect All' buttons. Below the list, there is a note: 'Note: If you do not see all of the computers you expect to see, you can obtain information on troubleshooting discovery issues at <http://go.microsoft.com/fwlink/?LinkID=128940>.' Below the note, there are two input fields: 'Management Server' with the text 'OpsMgr2012.Contoso.msft' and 'Management Mode:' with a dropdown menu set to 'Agent'. At the bottom of the window, there are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'.

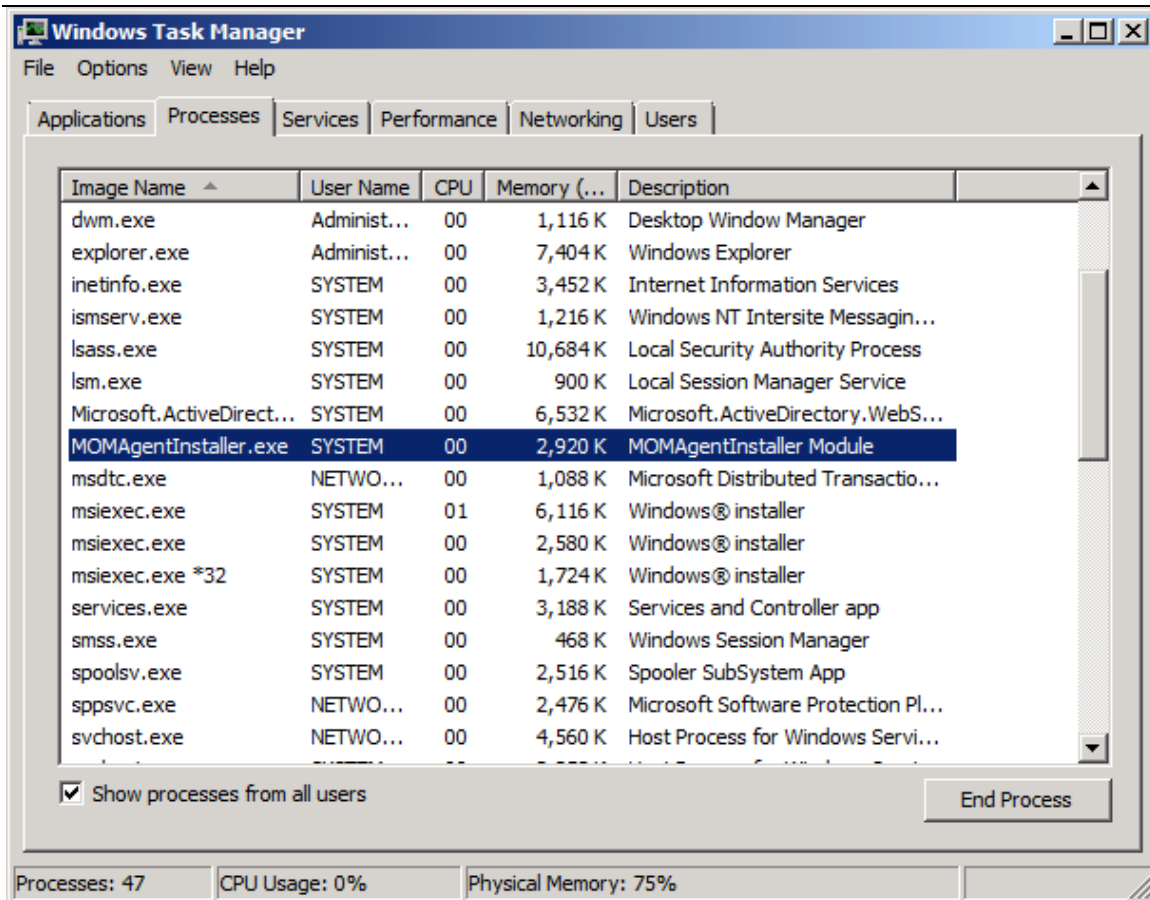
11) Click **Next** will display **Summary** page :

The screenshot shows the 'Computer and Device Management Wizard' window. The title bar reads 'Computer and Device Management Wizard'. The left sidebar contains a list of steps: 'Discovery Type', 'Auto or Advanced?', 'Discovery Method', 'Administrator Account', 'Select Objects to Manage', and 'Summary'. The 'Summary' step is currently selected and highlighted. The main content area is titled 'Summary' and contains the following information: 'Agents to be installed: 2', 'Agent installation directory: %ProgramFiles%\System Center Operations Manager', and 'Agent Action Account'. Under 'Agent Action Account', there are two radio button options: 'Local System' (which is selected) and 'Other'. The 'Other' option has input fields for 'User name:', 'Password:', and 'Domain:'. The 'Domain:' field is currently set to 'CONTOSO'. At the bottom of the window, there are four buttons: '< Previous', 'Next >', 'Finish', and 'Cancel'. A message at the bottom of the main content area states: 'To close the wizard and deploy the agents, click Finish.'

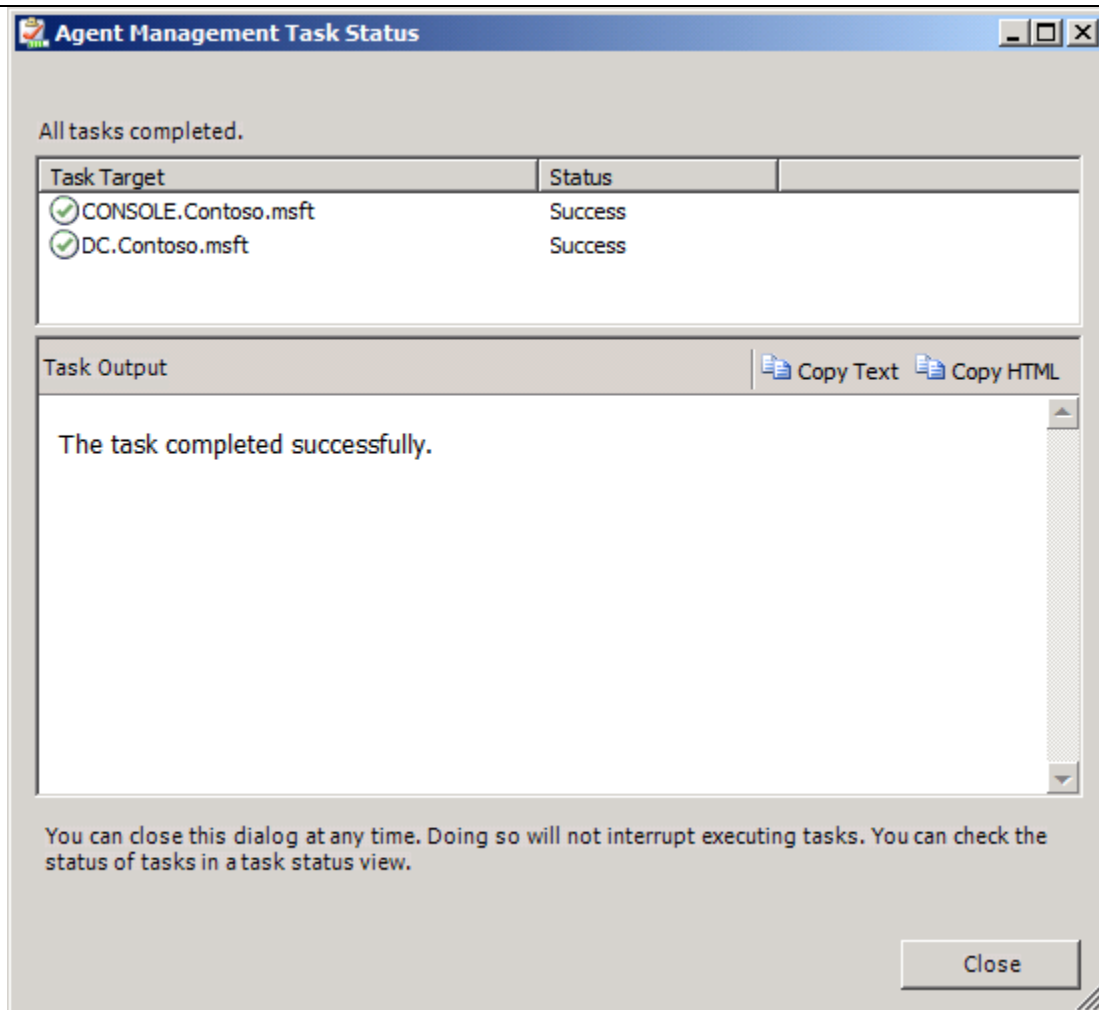
12) Click **Finish** and starting to install agents :



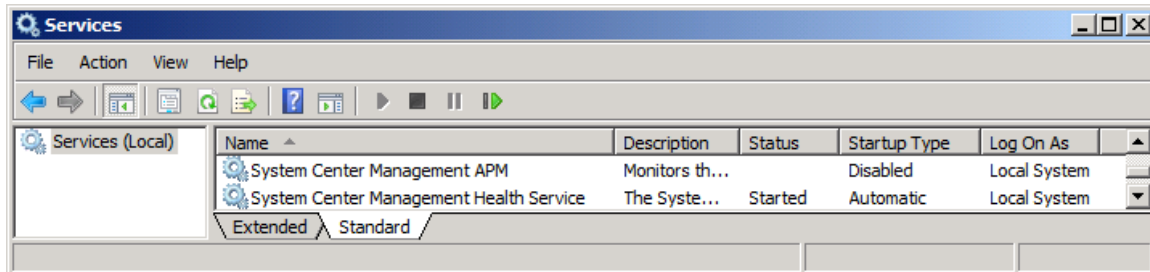
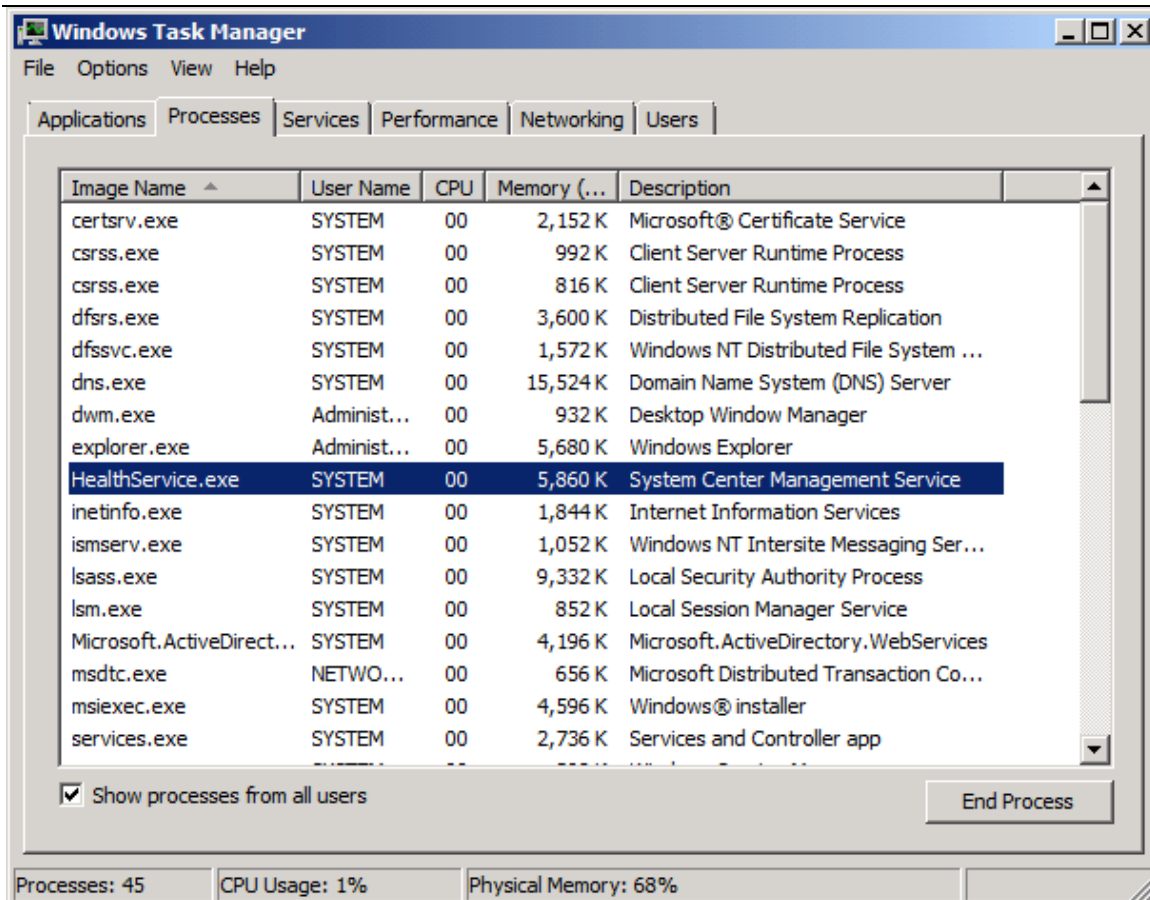
- 13) On target computer , you can see installing service in **Windows Task Manager** :



14) Wait a moment , setup successfully :

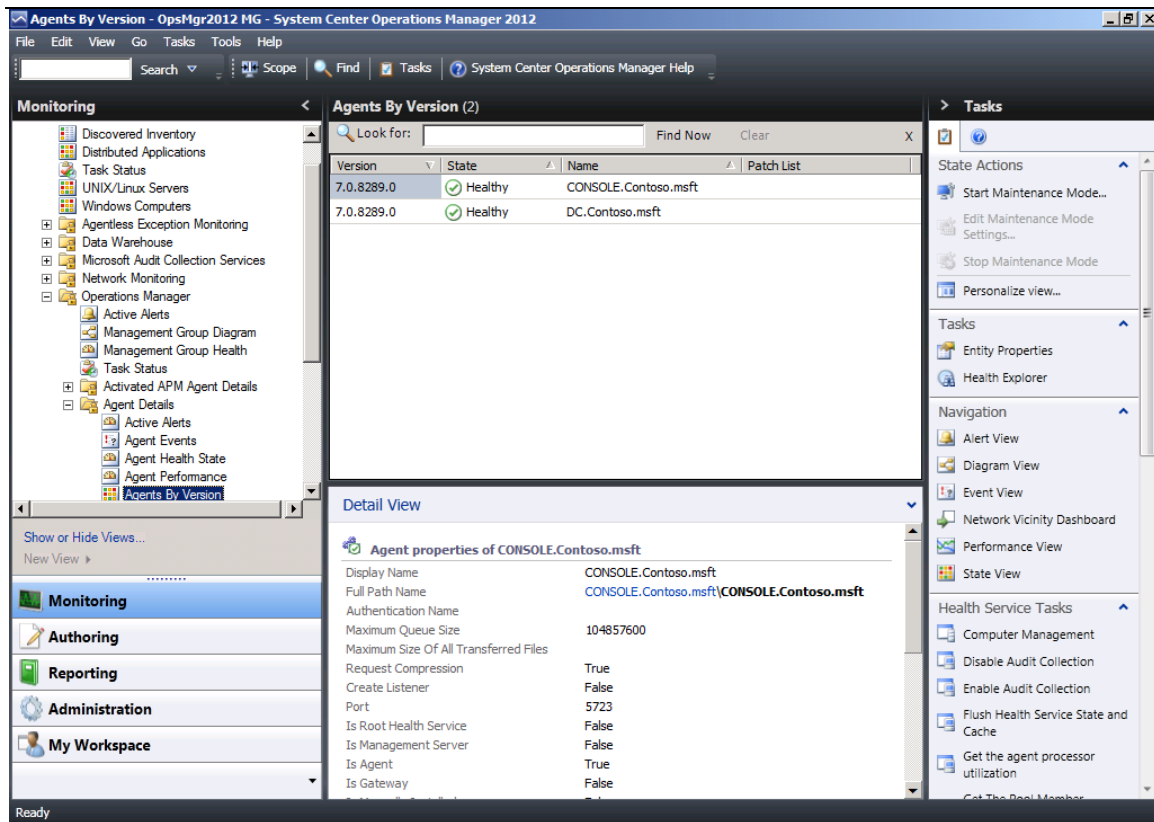


15) Click **Close** . On target computer , you can see SCOM 2012 Beta agent service in **Windows Task Manager** and **Services.msc** :



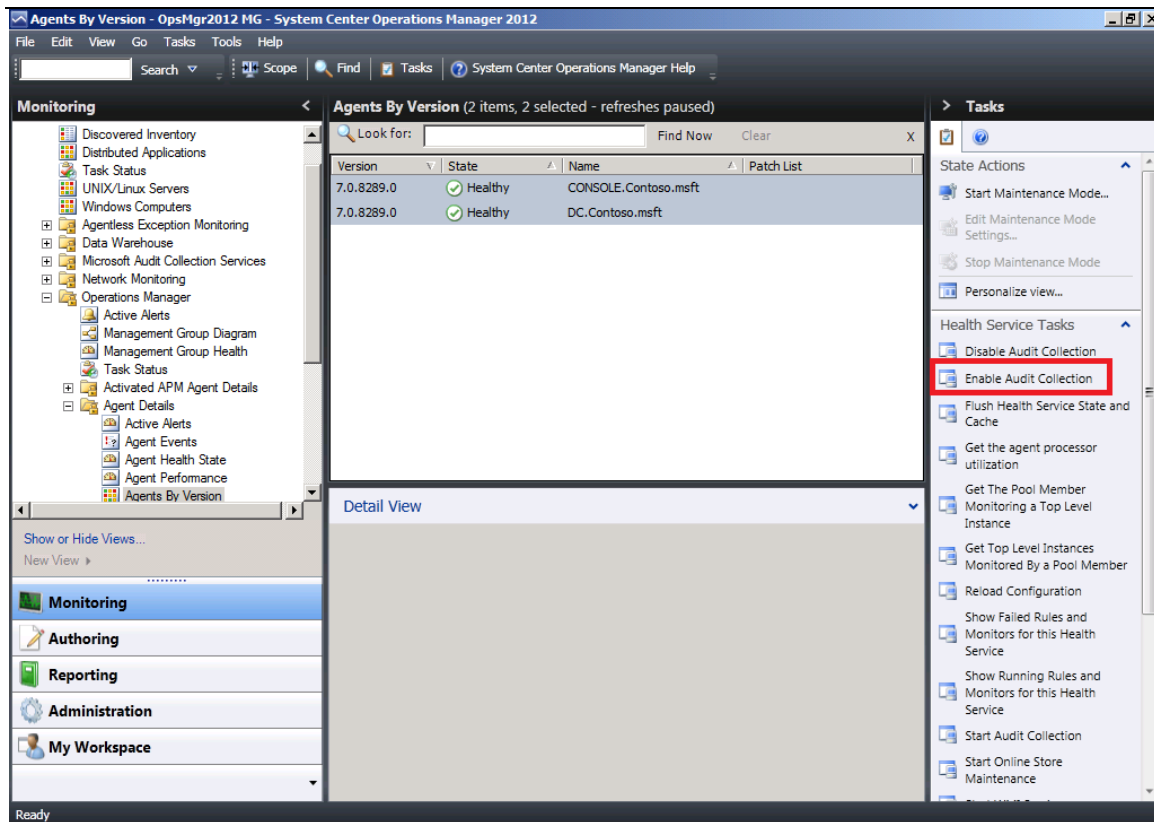
16) Click **Monitoring** workspace , click **Operations Manager --- Agent Details --- Agents By Version** , you can see managed agents and states :

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17) Mutil-Select managed computer and click **Enable Audit Collection** in **Tasks** panel :

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18) Display **Run Task – Enable Audit Collection** table :

Run Task - Enable Audit Collection

Help

Run the task on these targets

Target	Run Location
<input checked="" type="checkbox"/> DC.Contoso.msft	DC.Contoso.msft
<input checked="" type="checkbox"/> CONSOLE.Contoso.msft	CONSOLE.Contoso.msft

Task Parameters

Name	Value
Collector Server	[Collector Server]

Override

Task credentials

☒ Use the predefined Run As Account

☐ Other :

User name :

Password :

Domain :

Task description

Enables and configures the Audit Collection Service on the appropriate Operations Manager Health Service.

Task confirmation

☐ Don't prompt when running this task in the future

Run Cancel

19) Click **Override** will display **Override Task Parameters** :

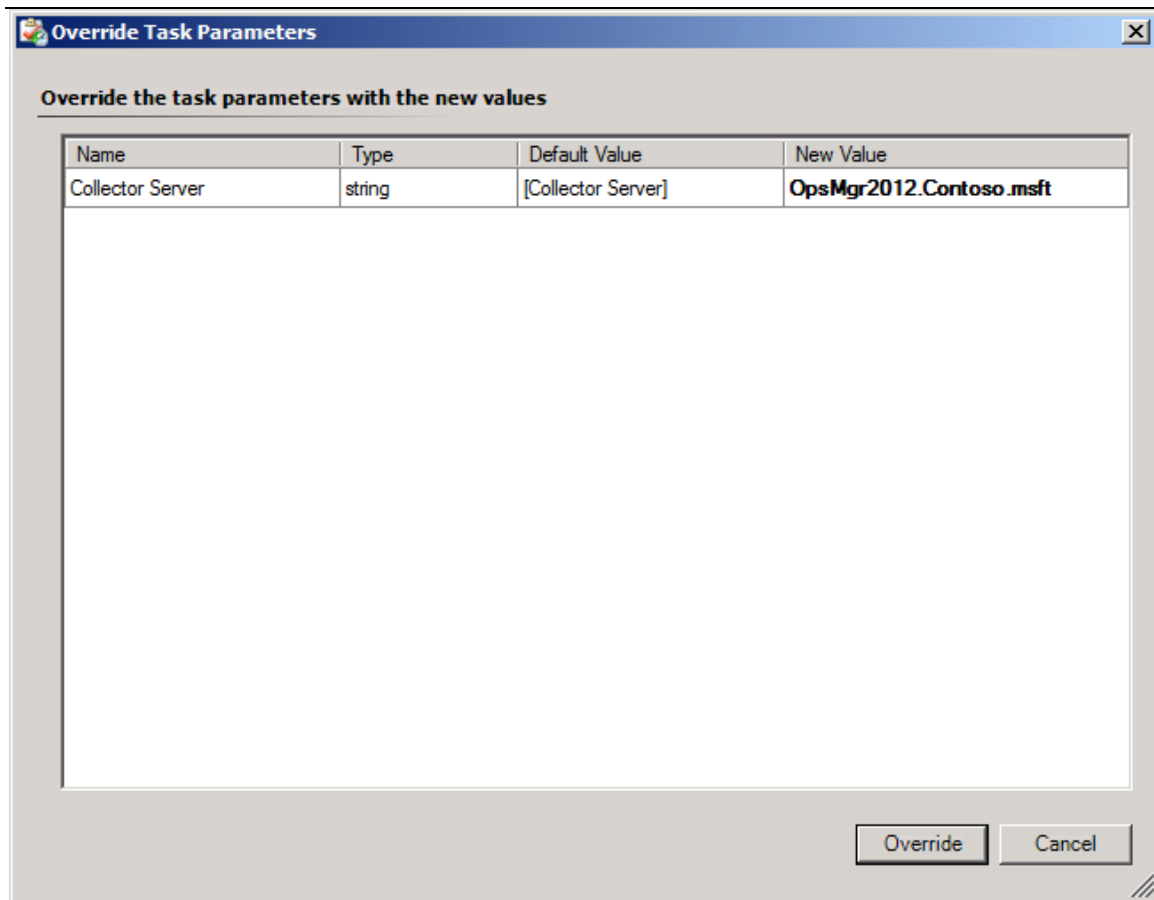
Override Task Parameters

Override the task parameters with the new values

Name	Type	Default Value	New Value
Collector Server	string	[Collector Server]	

Override Cancel

20) Type management server name in **New Value** box :



21) Click **Override** and return to **Run Task – Enable Audit Collection** table :

Run Task - Enable Audit Collection

Help

Run the task on these targets

Target	Run Location
<input checked="" type="checkbox"/> DC.Contoso.msft	DC.Contoso.msft
<input checked="" type="checkbox"/> CONSOLE.Contoso.msft	CONSOLE.Contoso.msft

Task Parameters

Name	Value
Collector Server	OpsMgr2012.Contoso.msft

Override

Task credentials

☒ Use the predefined Run As Account

☐ Other :

User name :

Password :

Domain :

Task description

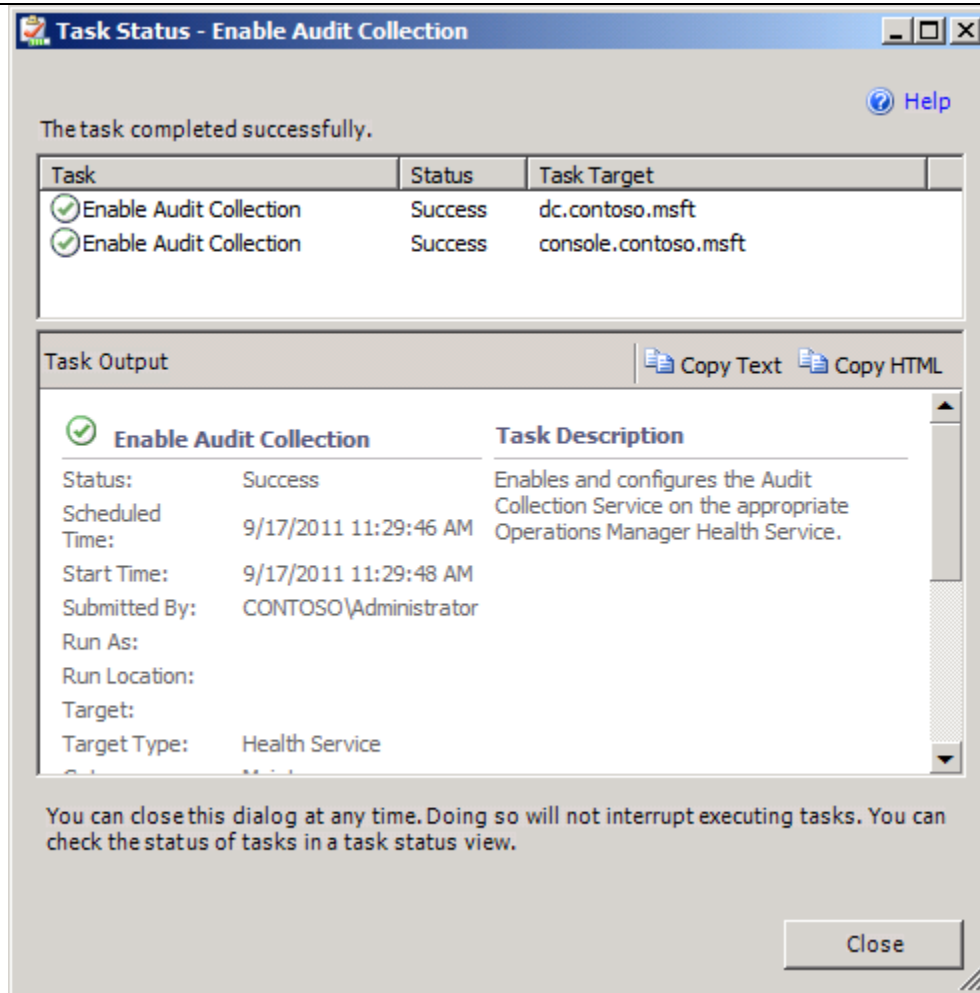
Enables and configures the Audit Collection Service on the appropriate Operations Manager Health Service.

Task confirmation

☐ Don't prompt when running this task in the future

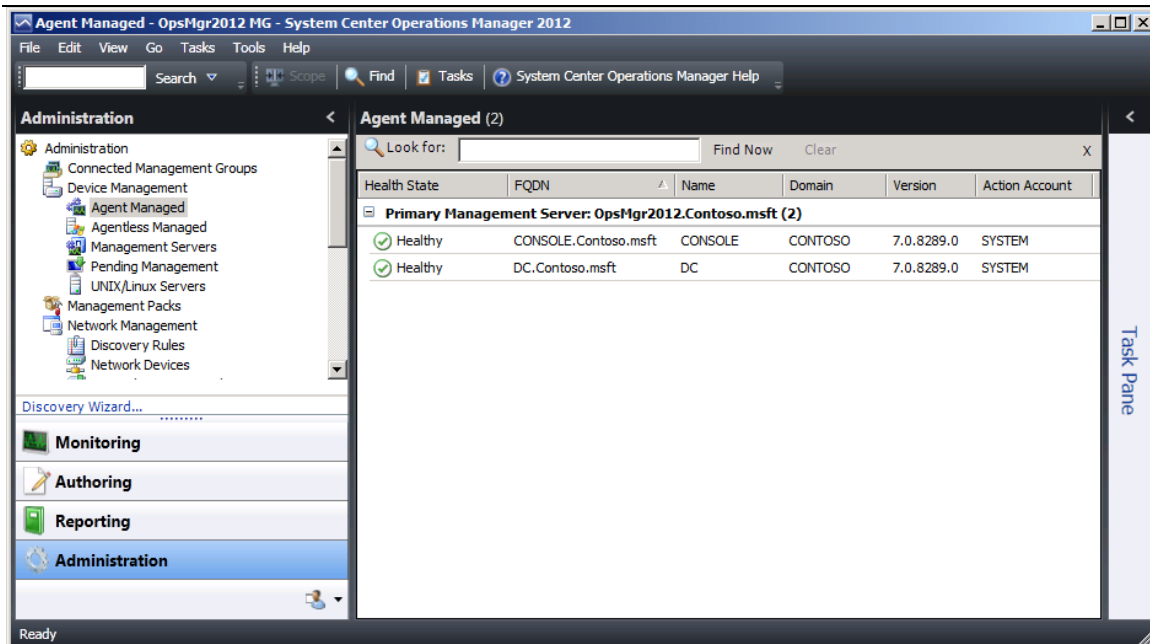
Run Cancel

22) Click **Run** and display the task completed successfully :



23) Click **Close** and select **Administration** workspace , click **Device Management** --- **Agent Managed** , you can see all managed computer and other related information .

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24) Now , System Center Operations Manager 2012 Beta Deployment finished .