In today's topic, we will learn about installing Standalone primary site in SCCM 2012 R2.

Before proceeding further, we will go through brief about the Primary site.

Primary Site:

Primary Sites supports clients up to 1,00,000 and each primary site can support up to 10 MP's and up to 250 Secondary sites. A primary site stores Configuration Manager 2012 data for itself and all the secondary sites beneath it in a SQL Server database. This is called the Configuration Manager 2012 site database. Primary sites have an administrative tool called the Configuration Manager 2012 console that enables the Configuration Manager 2012 administrator to directly manage the site. Primary sites are child sites of the Central Administration Site.
The Primary Sites within the SCCM 2012 R2 Hierarchy are the sites responsible for managing clients and servers.
Primary sites in System Center 2012 Configuration Manager R2 have the following differences from primary sites in Configuration Manager 2007:

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Primary sites in System Center 2012 Configuration Manager R2 have the following differences from primary sites in Configuration Manager 2007:

- A primary site supports only a central administration site as a parent site.
- Additional primary sites allow the hierarchy to support more clients.
- Cannot be added below other primary sites.
- No longer used as a boundary for client agent settings or security.
- Participates in database replication.

Within the Accenture SCCM 2012 R2 Hierarchy the Primary Sites will be the primary point of administration for the business units.


Below Pre-requisites should be in place to proceed further with the installation of Primary site.

- ➢ Web Server (IIS) with below sub features
  - Common HTTP Features – Default Document, Static Content.
  - Application Development – ASP.NET 3.5, .NET Extensibility 3.5, ASP.NET 4.5, .NET Extensibility 4.5, ISAPI extensions.
  - Security – Windows Authentication.
  - IIS 6 Management Compatibility – IIS Management Console, IIS 6 Metabase Compatibility, IIS 6 WMI Compatibility, IIS Management Scripts and Tools.
- ➢ .Net Framework 3.5 Features [Install all sub features]
- ➢ .Net Framework 4.5 Features [Install all sub features]
- ➢ WSUS
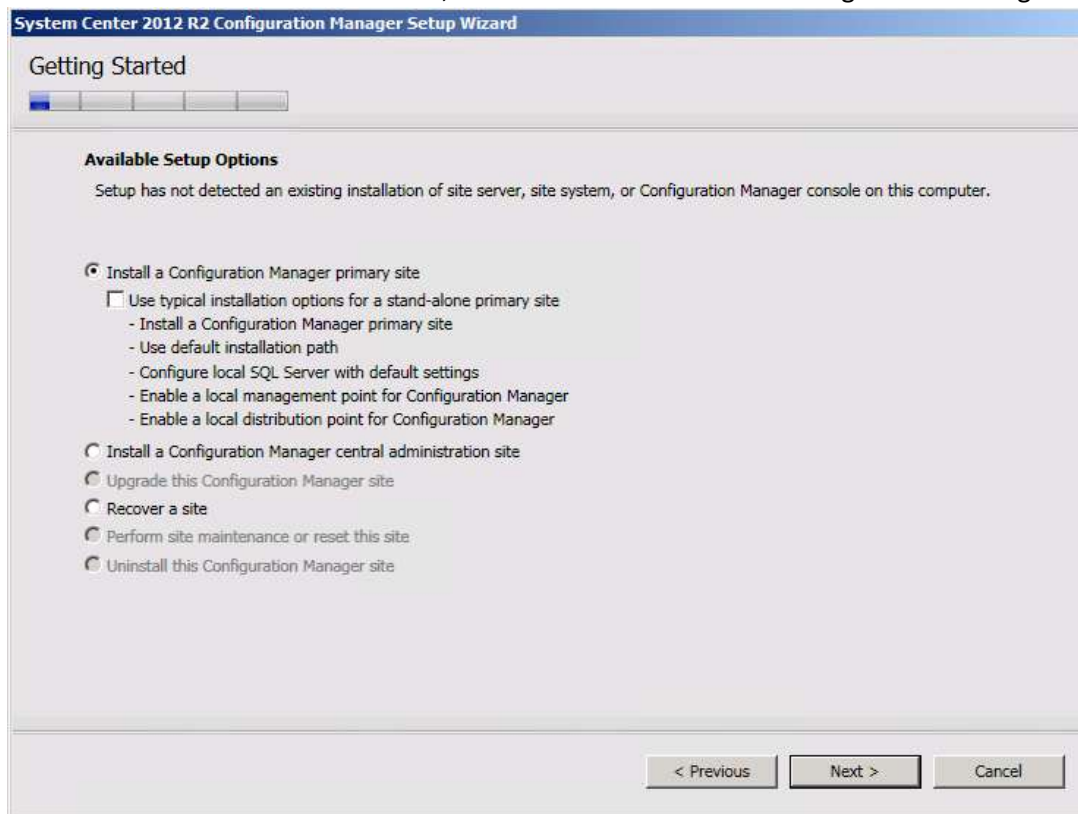- ➢ Remote differential compression
- ➢ BITS

Click on install to begin the installation of CAS

Click Next to continue.
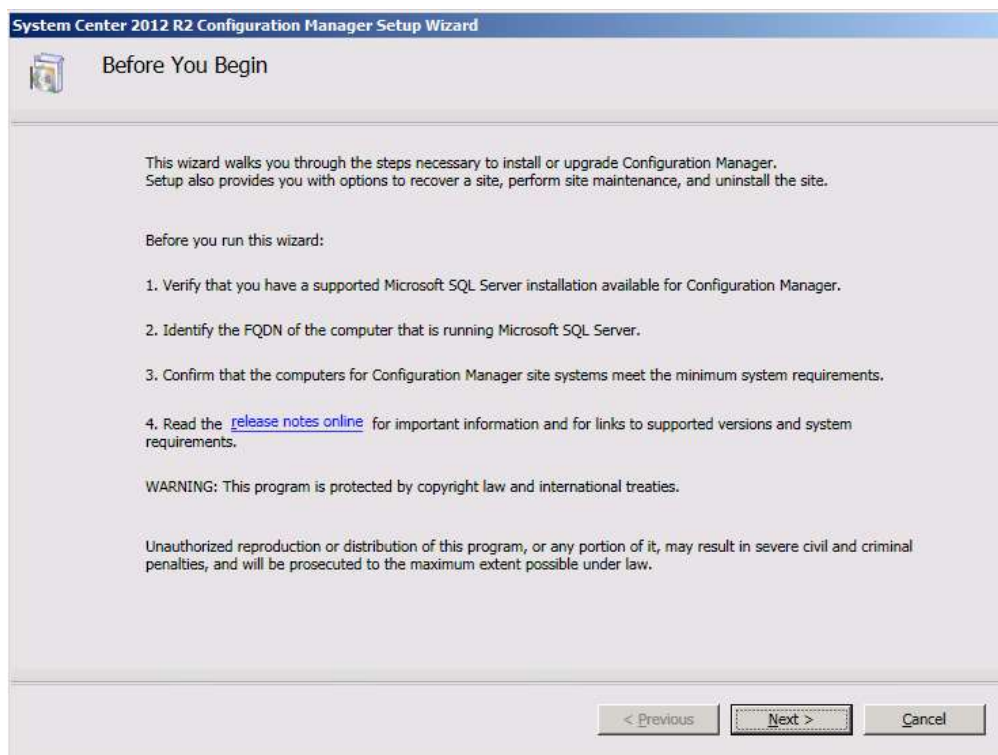
To install Central Administration Site, select the circle to Install a Configuration Manager Primary Site.

System Center 2012 R2 Configuration Manager Setup Wizard

Getting Started

Available Setup Options

Setup has not detected an existing installation of site server, site system, or Configuration Manager console on this computer.

- ● Install a Configuration Manager primary site
  - ☐ Use typical installation options for a stand-alone primary site
    - - Install a Configuration Manager primary site
    - - Use default installation path
    - - Configure local SQL Server with default settings
    - - Enable a local management point for Configuration Manager
    - - Enable a local distribution point for Configuration Manager
- ○ Install a Configuration Manager central administration site
- ○ Upgrade this Configuration Manager site
- ○ Recover a site
- ○ Perform site maintenance or reset this site
- ○ Uninstall this Configuration Manager site
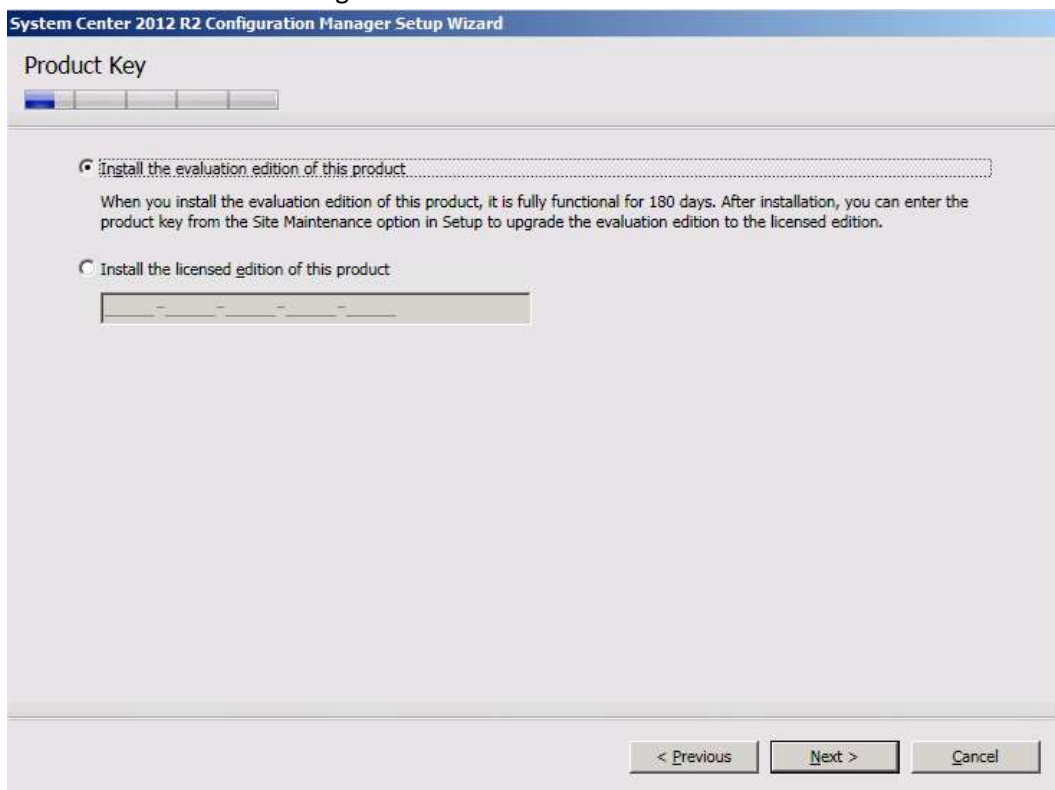
[< Previous] [Next >] [Cancel]

As this is a Lab I am selecting

**System Center 2012 R2 Configuration Manager Setup Wizard**

Product Key

- ● Install the evaluation edition of this product
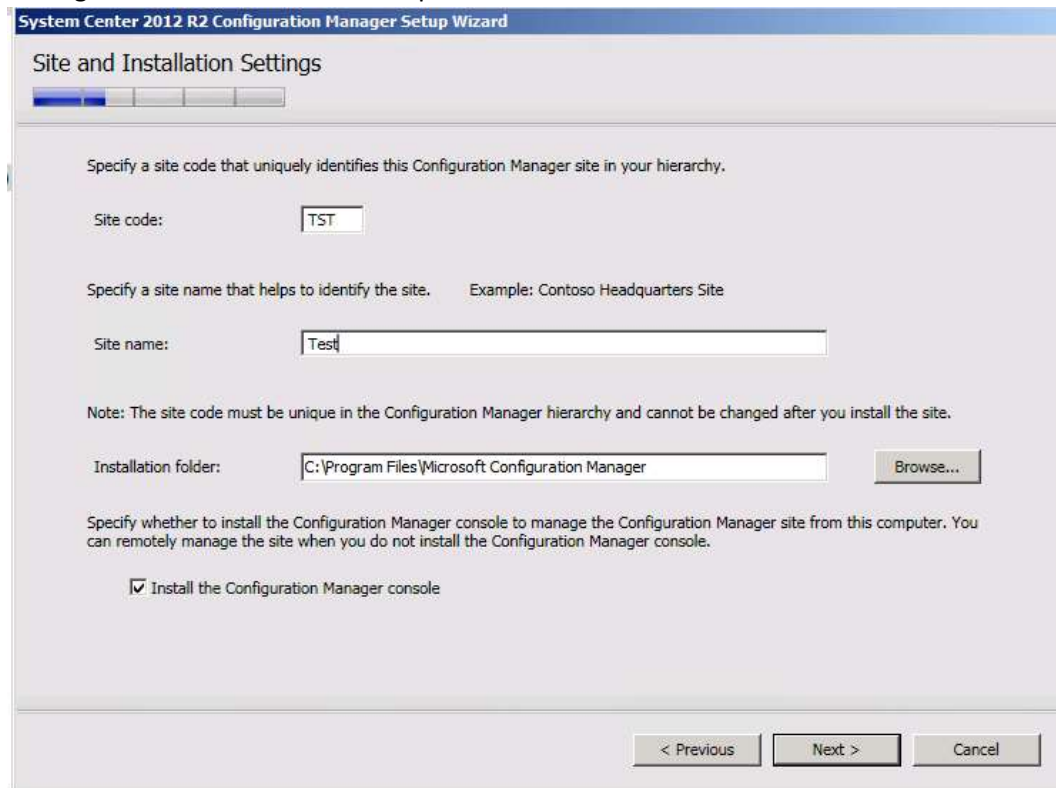
  When you install the evaluation edition of this product, it is fully functional for 180 days. After installation, you can enter the product key from the Site Maintenance option in Setup to upgrade the evaluation edition to the licensed edition.
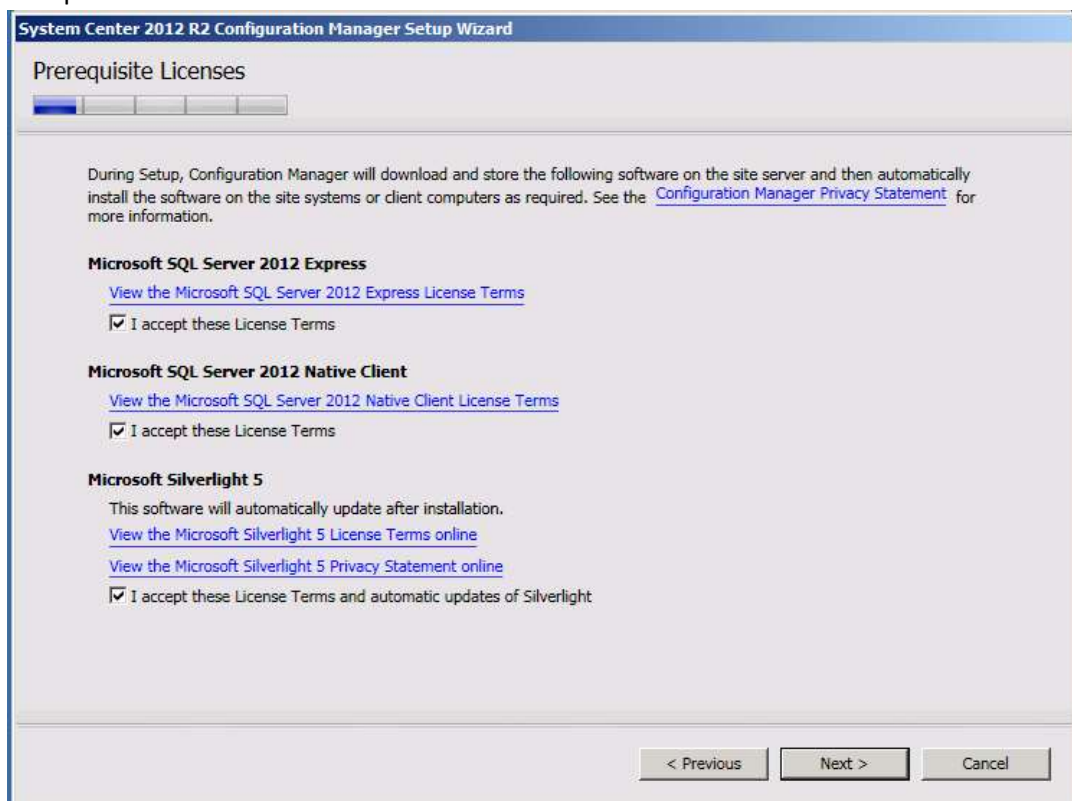
- ○ Install the licensed edition of this product

  [____-____-____-____-____]
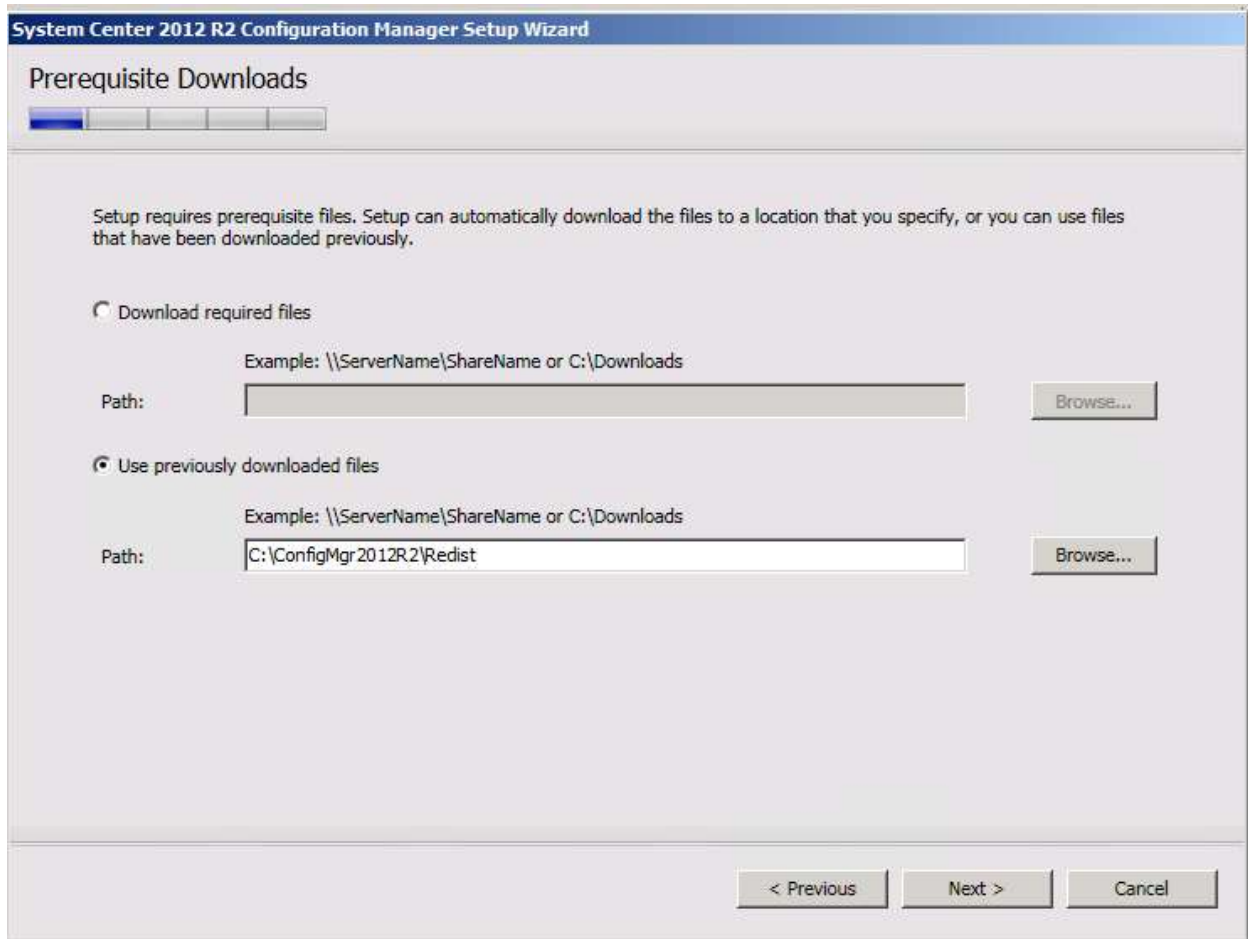
[< Previous] [Next >] [Cancel]

Accept the license terms and click next to continue.
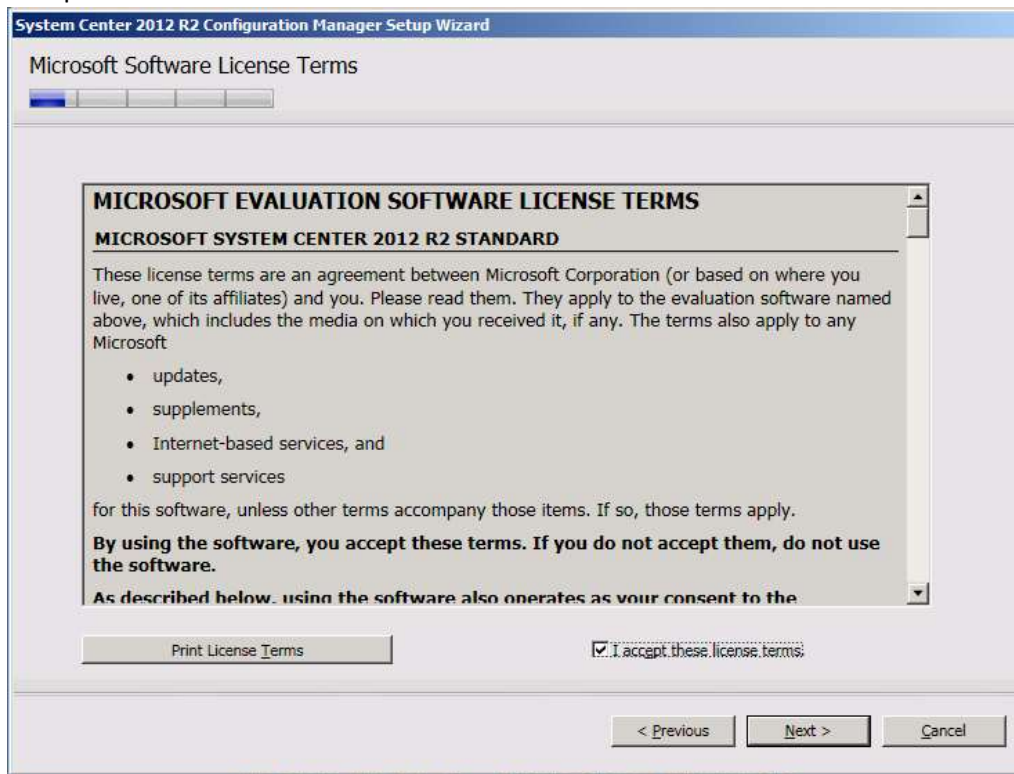
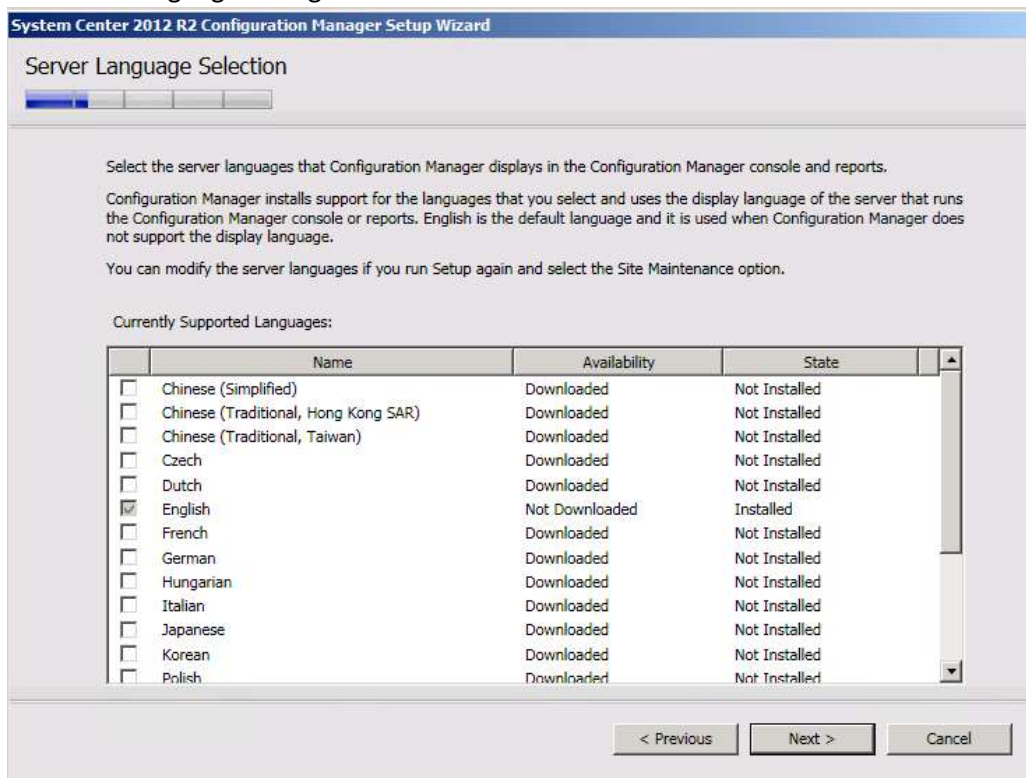Accept the license terms and click next to continue.

Select use previously downloaded files and click next to continue.
Path for downloaded files is : c:\configMgr2012R2\Redist

It will verify the downloaded components to proceed further.

Select the language as English and click next to continue.

Provide Site code, Site name and installation folder and check the box to install the configuration manager console and click next to proceed further.

Select Install the primary site as a stand-alone site as we don't have existing hierarchy or CAS installed in our environment.
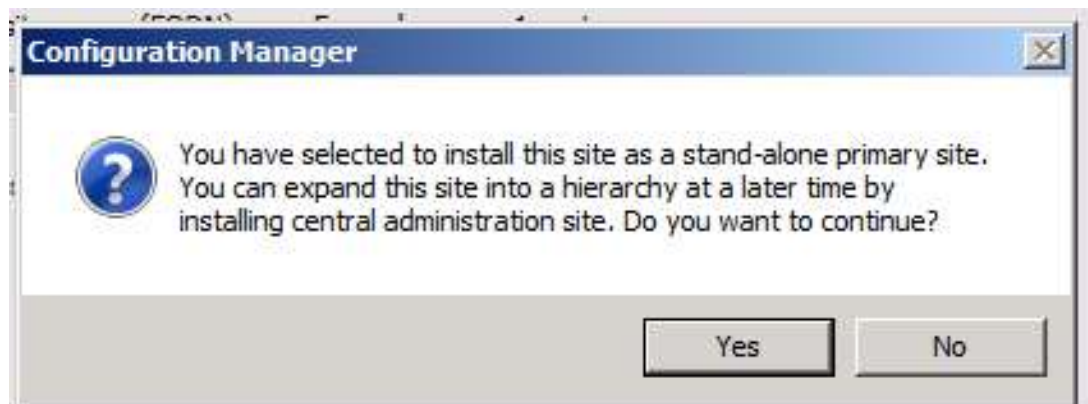

Click on yes to continue.
Note: you can install the CAS into a hierarchy and expand your site later or any time.

Provide the required information related to Database and click next to proceed further.

Provide path to SQL server data file and log file to proceed further and click next to continue.

Click next to continue.

Select configure the communication method on each site system role because I don't want to use HTTPS communication from clients as I want to configure the communication separately on each site system role.

Select the check box to install the Management Point and Distribution point to proceed further and click next to continue. If you want you can install these roles later also.

select the appropriate option and click next to continue.

Verify the settings summary once again and click next to continue.

System Center 2012 R2 Configuration Manager Setup Wizard

Settings Summary

Setup will install Configuration Manager with the following settings.

You have selected to install this site as a stand-alone primary site. You can expand this site into a hierarchy at a later time by installing central administration site.

Settings:

Setup Component	Component Details
Setup Type	Primary site installation
Site Code	TST
Site Name	Test
Role Communication Protocol	Client configured to communicate over both HT1
Clients Use PKI Certificate	No
Product Key	EVAL
Installation Directory	C:\Program Files\Microsoft Configuration Manag
External File Folder	C:\ConfigMgr2012R2\Redist
SQL Server	Primary1.ConfigMgrDom.local
SSB Port	4022
Database Name	CM_TST

To change these settings, click Previous. To apply the settings and start the installation prerequisite check, click Next.

[< Previous]   [Next >]   [Cancel]

Click next to continue post prerequisites checkup completes and click begin install to proceed further.

System Center 2012 R2 Configuration Manager Setup Wizard

Prerequisite Check

Setup is checking for potential installation problems. If problems are found, Setup will display details about how to resolve them.

Details:

Prerequisite	Status	System	
Schema extensions	Warning	Primary1.ConfigMgrDom.local	
Verify site server permissions to publish to Active Directory	Warning	Primary1.ConfigMgrDom.local	
Configuration for SQL Server memory usage	Warning	Primary1.ConfigMgrDom.local	
SQL Server process memory allocation	Warning	Primary1.ConfigMgrDom.local	

Prerequisite checking has completed.

Select an item to display details and information about how to resolve the problem. For a listing of all prerequisite check results, see ConfigMgrPrereq.log.
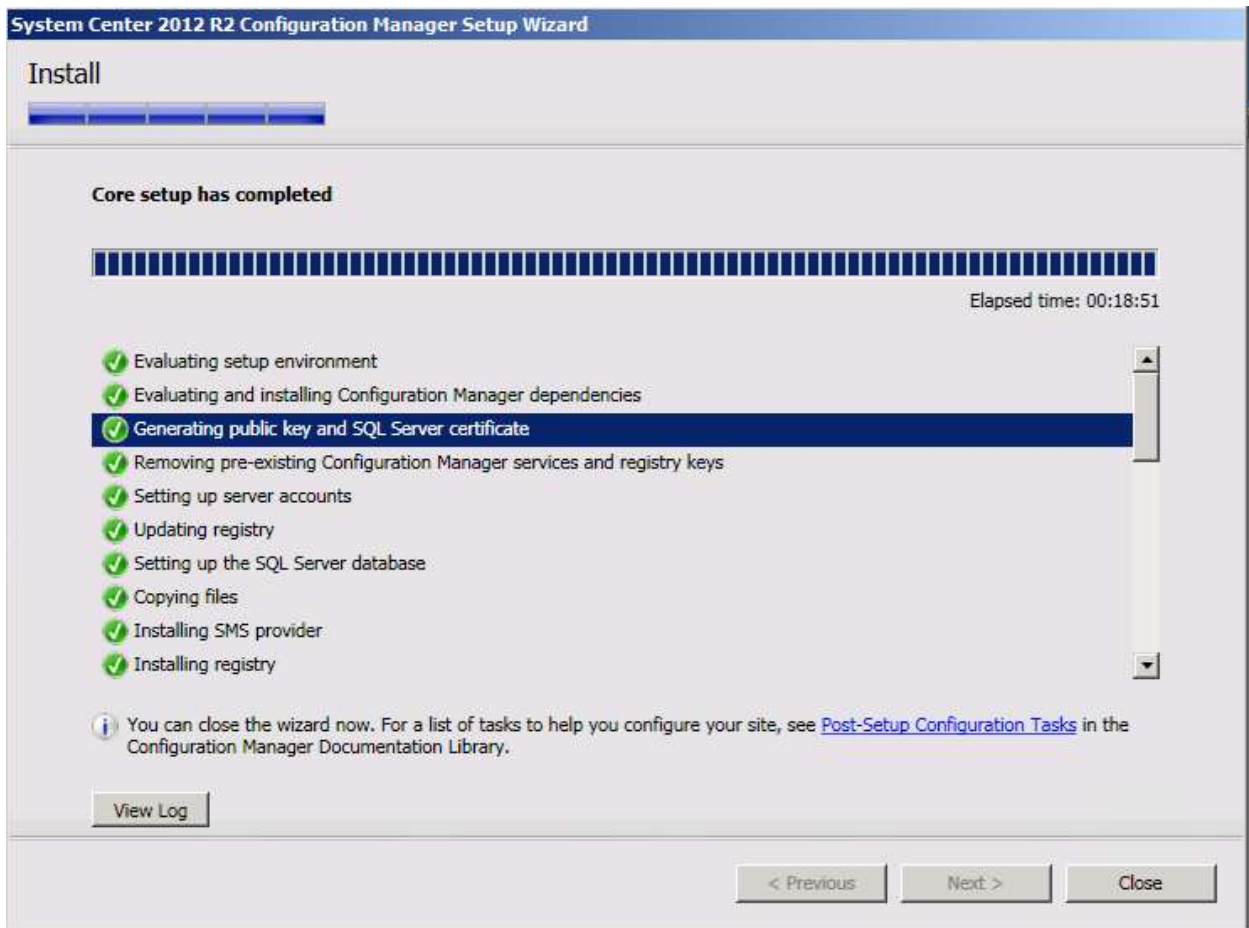
[Run Check]

[< Previous]   [Begin Install]   [Cancel]

To monitor the Installation status, check the C:\ConfigMgrSetup logs.


```
ConfigMgrSetup - Notepad
File  Edit  Format  View  Help
<01-07-2014 09:04:20> ***********************************************
<01-07-2014 09:04:20> ***** ConfigMgr 2012 Setup Bootstrapper *****
<01-07-2014 09:04:20> ***********************************************
<01-07-2014 09:04:20> Commandline:
<01-07-2014 09:04:20> "C:\ConfigMgr2012R2\SMSSETUP\BIN\X64\SetupWpf.exe"
<01-07-2014 09:04:20> INFO: Checking dotnet framework versions...
<01-07-2014 09:04:20> INFO: Dotnet 3.5 installed
<01-07-2014 09:04:20> Starting SetupWpf.exe...
```

Installation successfully completed, now we can go ahead and close the window to finish the steup.


```
System Center 2012 R2 Configuration Manager Setup Wizard

Install

                                                    Core setup has completed

█████████████████████████████████████████████████████████████

                                                    Elapsed time: 00:18:51

  ✓ Evaluating setup environment
  ✓ Evaluating and installing Configuration Manager dependencies
  ✓ Generating public key and SQL Server certificate
  ✓ Removing pre-existing Configuration Manager services and registry keys
  ✓ Setting up server accounts
  ✓ Updating registry
  ✓ Setting up the SQL Server database
  ✓ Copying files
  ✓ Installing SMS provider
  ✓ Installing registry

  ⓘ You can close the wizard now. For a list of tasks to help you configure your site, see Post-Setup Configuration Tasks in the
    Configuration Manager Documentation Library.

  View Log

                                        < Previous      Next >        Close
```

In logs, we can see the below entry and it will show as completed configuration manager 2012 Server setup.


```
ConfigMgrSetup - Notepad
File  Edit  Format  View  Help
INFO: CreateDirectory for C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft Sys
INFO: Program group directory C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft
INFO: Failed to locate the exe path for icon Configuration Manager Console, skip it.~  $$<Co
INFO: AddItem(C:\Program Files\Microsoft Configuration Manager\bin\x64\SETUP.EXE, Configurat
INFO: Shortcut string is C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft Syst
INFO: Failed to locate the exe path for icon Configuration Manager Documentation, skip it.~
INFO: Automatic Updates detection task was called  - IAutomaticUpdates->DetectNow returned 8
~===================== Completed Configuration Manager 2012 Server Setup ===============
```

Post installation you will get an administration console called Configuration Manager Console to manage the clients.
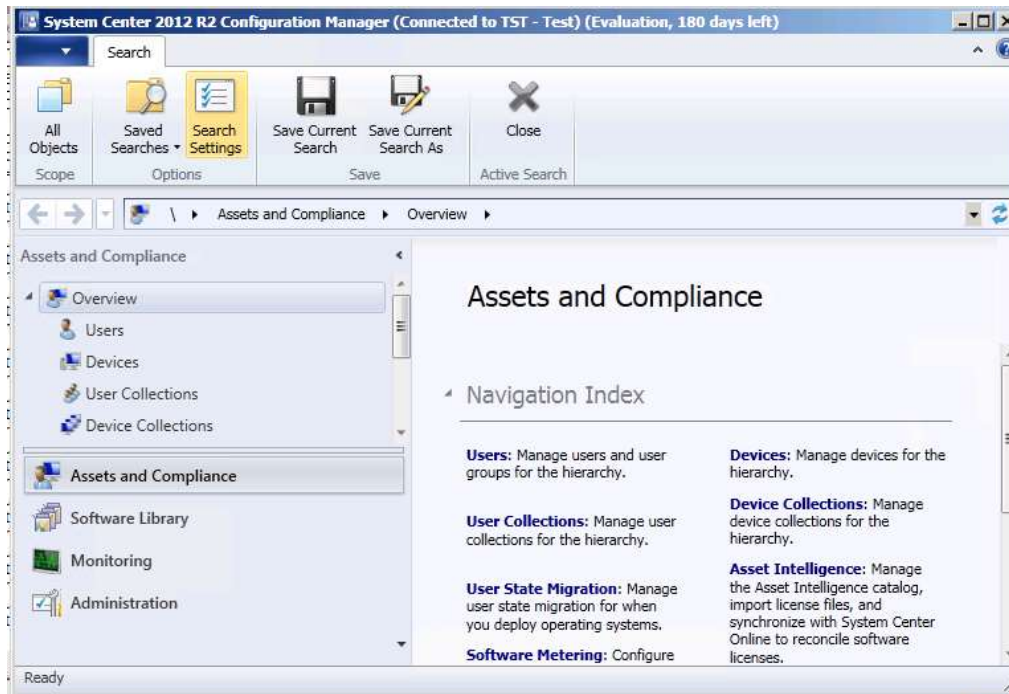
To find out the version of the configuration manager go to about system center configuration Manager.

This concludes the installation of SCCM 2012 R2 – Standalone primary site.