Microsoft System Center 2012 Configuration Manager RTM Hierarchy Deployment Document

Mar.28 2012



1. Deploy Environment Introduction :

This operations process including four servers.

1. DC :

Role : ADDS + ADCS

OS: Windows Server 2008 R2 Enterprise Edition with SP1

IE : IE 9.0

IP:192.168.0.100/24

DNS: 192.168.0.100

2. Central :

Role : SC2012 ConfigMgr RTM + SC2012 ConfigMgr CAS Database

OS : Windows Server 2008 R2 Enterprise Edition with SP1

IE : IE 9.0

IP:192.168.0.101/24

DNS: 192.168.0.100

3. Primary :

Role : SC2012 ConfigMgr RTM + SC2012 ConfigMgr Primary Site Database

OS: Windows Server 2008 R2 Enterprise Edition with SP1

IE : IE 9.0

IP: 192.168.0.102/24

DNS: 192.168.0.100

4. Secondary :

Role : SC2012 ConfigMgr RTM + SC2012 ConfigMgr Secondary Site Database

OS : Windows Server 2008 R2 Enterprise Edition with SP1

IE : IE 9.0

IP:192.168.0.103/24

DNS: 192.168.0.100

2. Deploy Active Directory :

1) Logon to **DC** server , installing **ADDS** and **ADCS** . Domain name is

Contoso.msft . Active Directory forest functional level is Windows Server 2008 R2.

This process is no longer described in this part.

3. Configure Active Directory Permissions :

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

ADSI Edit and click Connect to ... :

📝 ADSI Edit		
File Action View Help		
📝 ADSI Edit		Actions
Connect to	Welcome to ADSI Edit	ADSI Edit 🔺
View ► Refresh Help	Active Directory Services Interfaces Editor (ADSI Edit) is a low-level editor for Active Directory Domain Services / Active Directory Lightweight Directory Services. It allows you to view, modify, create, and delete any object in Microsoft's AD DS/LDS. To create a connection to AD DS/LDS, on the Action menu, click Connect To.	More Actions
Connect to an LDAP path		

2) Display Connection Settings :

Connection Settings
Name: Default naming context
Path: LDAP://DC.Contoso.msft/Default naming context
Connection Point
Select or type a Distinguished Name or Naming Context:
Select a well known Naming Context:
Default naming context
Computer
C Select or type a domain or server: (Server Domain [:port])
Default (Domain or server that you logged in to)
Use SSL-based Encryption
Advanced OK Cancel

3) Click OK , Expand Domain <computer fully qualified domain name>,

📝 ADSI Edit			
File Action View Help			
🗢 🔿 🖄 📷 💥 🖬 🖻 🗟 🖬			
ADSI Edit Default naming context [DC.Contoso.msft] De=Contoso.DC=msft CN=Builtin CN=Computers OU=Domain Controllers OU=Domain Controllers ON=ForeignSecurityPrincipals CN=LostAndFound CN=MTDS Quotas ON=Program Data ON=Program Data ON=Users	Name CN=AdminSDHolder CN=ComPartitions CN=ComPartitionSets CN=Default Domain Policy CN=Default Domain Policy CN=Default Domain Policy CN=DFSR-GlobalSettings CN=DFIle Replication Service CN=File Replication Service CN=File Replication Service CN=File Replication Service CN=File Replication Service CN=Fole Replication Service CN=Fole Replication Service CN=Policies CN=Policies CN=RpcServices CN=RpcServices CN=WinsodServices CN=BCKUPKEY_Sc4031f1-bcc CN=BCKUPKEY_P Secret CN=BCKUPKEY_P Secret CN=BCKUPKEY_P Secret CN=RCKUPKEY_P Secret CN=RID Manager\$ CN=Rid Manager\$	Class container container domainPolicy dfsConfigur msDFSR-Glo container mTRSSettings fileLinkTrack container container msDS-Pass container msDS-Pass container msDS-Pass container msDs-pass container msContainer secret secret secret secret secret rIDManager samServer	Distinguished Name CN=AdminSDHolder, CN=System, DC=Contoso, DC=msft CN=ComPartitions, CN=System, DC=Contoso, DC=msft CN=OmPartitionSets, CN=System, DC=Contoso, DC=msft CN=Dfs-Configuration, CN=System, DC=Contoso, DC=msft CN=Dfs-Configuration, CN=System, DC=Contoso, DC=msft CN=DFSR-GlobalSettings, CN=System, DC=Contoso, DC=msft CN=DfleReplication Service, QN=System, DC=Contoso, DC=msft CN=FileLinks, CN=System, DC=Contoso, DC=msft CN=FileLinks, CN=System, DC=Contoso, DC=msft CN=Plsecurity, CN=System, DC=Contoso, DC=msft CN=Plsecurity, CN=System, DC=Contoso, DC=msft CN=Password Settings Container, CN=System, DC=Contoso, DC=msft CN=Password Settings Container, CN=System, DC=Contoso, DC=msft CN=Password Settings Container, CN=System, DC=Contoso, DC=msft CN=Pasks and TAS Servers Access Ched, CN=System, DC=Contoso, DC=msft CN=WIPolicy, CN=System, DC=Contoso, DC=msft CN=BCKUPKEY_Sc4031f1-bccb-4112-8f4a-ed7516afe7ad Secr CN=BCKUPKEY_PSecret, CN=System, DC=Contoso, DC=msft CN=BCKUPKEY_PSecret, CN=System, DC=Contoso, DC=msft CN=BCKUPKEY_PSeter, PSeter, DC=Contoso, DC=msft CN=BCKUPKEY_PSeter, PSeter, DC=Contoso, DC=msft CN=BCKUPKEY_PSeter, DS=Seter, CN=System, DC=Contoso, DC=msft CN=BCKUPKEY_PSeter, DS=Seter, CN=System, DC=Contoso, DC=msft CN=BCKUPKEY_PSeter, DC=Contoso, DC=msft CN=BCKUPKEY_PSeter, DC=Contoso, DC=msft CN=Setrer, CN=System, DC
	<u> </u>		

expand <distinguished name>, click **CN=System** :

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

📝 ADSI Edit						
File Action View Help						
2 ADSI Edit	Name	Class	Distinguished Name			
ADSI Edit Default naming context [DC.Contoso.msft] DC=Contoso.pC=msft CN=Builtin CN=Computers OU=Domain Controllers CN=ForeignSecurityPrincipals CN=KondFound CN=MTDS Quotas CN=Program Data CN=Users Move New View Delete Rename Refresh Export List Properties Help Help	Name CN=AdminSDHolder CN=ComPartitions CN=ComPartitionSets CN=Default Domain Policy CN=Default Domain Policy CN=Default Domain Policy CN=DFSR-GlobalSettings CN=Default Domain Policy CN=DFIR-GlobalSettings CN=Drest-GlobalSettings CN=Drest-GlobalSettings CN=Drest-GlobalSettings CN=Drest-GlobalSettings CN=File Replication Service CN=IP Security Meetings =MicrosoftDNS PSPs =RAS and IAS Servers Acc =PSPs =RAS and IAS Servers Acc =PSCKUPKEY_Sc4031f1-bcc =BCKUPKEY_P Services =WMIPolicy =BCKUPKEY_P Restert =BCKUPKEY_PREFERRED ECKUPKEY_PREFERRED ECKUPKEY_PREFERRED ECKUPKEY_PREFERRED ECKUPKEY_PREFERRED ECKUPKEY_PREFERRED ECKUPKEY_PREFERRED ECKUPKEY_PREFERRED	Class container container domainPolicy dfsConfigur msDFSR-Glo container nTFRSSettings fileLinkTrack container container msDS-Pass container msDS-Pass container msTmaging container rpcContainer container secret secret secret secret secret secret secret secret secret secret	Distinguished Name CN=AdminSDHolder, CN=System, DC=Contoso, DC=msft CN=ComPartitions, CN=System, DC=Contoso, DC=msft CN=Default Domain Policy, CN=System, DC=Contoso, DC=msft CN=Default Domain Policy, CN=System, DC=Contoso, DC=msft CN=Default Domain Policy, CN=System, DC=Contoso, DC=msft CN=DFSR-GlobalSettings, CN=System, DC=Contoso, DC=msft CN=DFSR-GlobalSettings, CN=System, DC=Contoso, DC=msft CN=FileLinks, CN=System, DC=Contoso, DC=msft CN=Password Settings Container, CN=System, DC=Contoso, DC CN=Posities, CN=System, DC=Contoso, DC=msft CN=WIIPolicy, CN=System, DC=Contoso, DC=msft CN=WIIPolicy, CN=System, DC=Contoso, DC=msft CN=WIIPolicy, CN=System, DC=Contoso, DC=msft CN=WIIPolicy, CN=System, DC=Contoso, DC=msft CN=BCKUPKEY_SC4031f1+dcb-4112-8f4a=ed7516afe7ad Secr CN=BCKUPKEY_CN=Se			
Create a new object						

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

Create Object			×
Select a class:			
addressTemplate applicationEntity applicationVersion certificationAuthority classStore comConnectionPoint contact <u>container</u> controlAccessRight cRLDistributionPoint device dfcConfiguration			
drsconnguration dHCPClass < Back	Next >	▼ Cancel	Help

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

Create Object	×
Attribute:	cn
Syntax:	Unicode String
Description:	Common-Name
Value:	System Management
	< Back Next > Cancel Help

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

Create Object	×
To complete the creation of this object, click Finish.	
To set more attributes, click More Attributes. More Attributes	
	-
< Back Finish Cancel Help	

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

📝 ADSI Edit					
File Action View Help					
2 ADSI Edit	Name	Class	Distinguished Name		
ADSI Edit Default naming context [DC. Contoso.msft] Default naming context [DC. Contoso.msft] CN=Builtin CN=Computers OU=Domain Controllers CN=ForeignSecurityPrincipals CN=LostAndFound CN=Managed Service Accounts CN=Managed Service Accounts CN=Program Data CN=Users	Name CN=AdminSDHolder CN=ComPartitions CN=ComPartitionSets CN=Default Domain Policy CN=DFSR-GlobalSettings CN=File Replication Service CN=Password Settings Contai CN=PSPs CN=RAS and IAS Servers Acc CN=RpcServices CN=Rivers CN=WinsodKservices	Class container container domainPolicy dfsConfigur msDFSR-Glo container nTFRSSettings fileLinkTrack container container mSDS-Pass container msDS-Pass container msDraging container	Distinguished Name CN=AdminSDHolder, CN=System, DC=Contoso, DC=msft CN=ComPartitions, CN=System, DC=Contoso, DC=msft CN=DomPartitionSets, CN=System, DC=Contoso, DC=msft CN=Default Domain Policy, CN=System, DC=Contoso, DC=msft CN=DFsR-GlobalSettings, CN=System, DC=Contoso, DC=msft CN=DfeR-glotalSettings, CN=System, DC=Contoso, DC=msft CN=File Links, CN=System, DC=Contoso, DC=msft CN=File Links, CN=System, DC=Contoso, DC=msft CN=FileLinks, CN=System, DC=Contoso, DC=msft CN=Pasword Settings Container, CN=System, DC=Contoso, DC=msft CN=PSPs, CN=System, DC=Contoso, DC=msft CN=PSPs, CN=System, DC=Contoso, DC=msft CN=PSPs, CN=System, DC=Contoso, DC=msft CN=RAS and IAS Servers Access Check, CN=System, DC=Contoso, DC=msft CN=RpcServices, CN=System, DC=Contoso, DC=msft CN=WisodServices, CN=System, DC=Contoso, DC=msft CN=VENSOCH		
	CN=WMIPolicy	container	CN=WMIPolicy,CN=System,DC=Contoso,DC=msft		
	CN=System Management	container	CN=System Management,CN=System,DC=Contoso,DC=msft		
	CN=BCKUPKEY_5c4031f1-bcc CN=BCKUPKEY_7cc329eb-81 CN=BCKUPKEY_P Secret CN=BCKUPKEY_PREFERRED CN=BCKUPKEY_PREFERRED CN=RID Manager\$ CN=Server	secret secret secret secret rIDManager samServer	CN=BCKUPKEY_5c4031f1-bccb-4112-8f4a-ed7516afe7ad Secr CN=BCKUPKEY_7cc329eb-81e4-466e-a327-98938cc174b8 Secr CN=BCKUPKEY_P Secret, CN=System, DC=Contoso, DC=msft CN=BCKUPKEY_PREFERRED Secret, CN=System, DC=Contoso, CN=RID Manager\$, CN=System, DC=Contoso, DC=msft CN=Server, CN=System, DC=Contoso, DC=msft		
J]	ļ				

9) Close ADSI Edit mmc snap-in console.

10) Open Active Directory Users and Computers mmc snap-in console . Point

📄 Ac	tive Dire	ctory Users and Computers			
File	Action	View Help			
(= =	2 🗟	Add/Remove Columns	38		
	Ctive Direc Saved (Contos Contos Con Con Con Con Con Con Con Con Con Con	Large Icons Small Icons List Detail Users, Contacts, Groups, and Computers as containers Advanced Features Filter Options Customize	Us out Ser	Type builtinDomain Container Organizational Organizational Container Container Container	Description Default container for upgr Default container for dom Default container for secu Default container for man Default container for upgr
 Enable	s/disables	advanced features and objects			

to View and choose Advanced Features item :

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

click Properties:

Active Directory Users and C	omputers					_ 🗆 ×
File Action View Help						
🧢 🔿 🖄 📅 🖌 📋 🗙	🔲 o 😖 🔽 🖬	8 2 1	i 🔻 🗾 🐍			
Active Directory Users and Comp	outers [DC.Contoso.msft]		Name	Туре	Description	
🕀 🚞 Saved Queries				There are no items to s	how in this view	
🖃 🎬 Contoso.msft				There are no ttems to s	now in ans view.	
🕀 🔛 Builtin						
Computers	Delegate Control					
ConfigMgr Users	Move					
± Domain Controllers	Find					
E E ForeignSecurityPrincipals						
LostAndFound	New 🕨					
Program Data	All Tasks 🕨 🕨					
	View					
T AdminSDHolder	VIEW P					
ComPartitions	Cut					
ComPartitionSets	Delete					
🕀 🧰 DomainUpdates	Rename					
🕀 🚞 IP Security	Refresh					
🕀 🦳 Meetings	Export List					
🕀 🚞 MicrosoftDNS	Dreserties					
🛨 🧮 Policies	Properties					
E RAS and IAS Servers	Help					
System Management						
WinsockServices						
WMIPolicy						
E E Default Domain Polic	y					
Dis-Configuration						
Eile Deplication Service						
🗄 🔁 File Replication Servi	ce	-				
Opens the properties dialog box for t	he current selection.		<u>,</u>			

12) System Properties is display , click Security page :

System Management Properties		? ×
General Object Security Attribute Editor		
Group or user names:		
SELF		
& Authenticated Users		
SYSTEM		
Domain Admins (CONTOSO\Domain Ad	lmins)	
Enterprise Admins (CONTOSO) Enterpris	e Admins)	_
	rs) 1	
	Add	Remove
Permissions for SELF	Allow	Deny
Full control		
Read		
Write		
Create all child objects		
Delete all child objects		
For special permissions or advanced settings,	, click	Advanced
Advanced.		
Learn about access control and permissions		
OK Cancel	Apply	Help

13) Click Add... , Display Select Users , Computers , Service Accounts , or

Groups box :

Select Users, Computers, Service Accounts, or Groups	? ×
Select this object type:	
Users, Groups, or Built-in security principals	Object Types
From this location:	
Contoso.msft	Locations
Enter the object names to select (examples):	
	Check Names
Advanced	Cancel

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

Object Types	<u>? ×</u>
Select the types of objects you want to find.	
Object types:	
🔲 🎎 Built-in security principals	
<u> </u>	
OK Car	ncel

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

Select Users, Computers, Service Accounts, or Groups	<u>? ×</u>
Select this object type:	
Computers	Object Types
From this location:	
Contoso.msft	Locations
Enter the object names to select (<u>examples</u>):	
CENTRAL	Check Names
Advanced OK	Cancel

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 :

System Management Properties		? ×
General Object Security Attribute Editor		,
Group or user names:		
SELF		
SYSTEM		
& Domain Admins (CONTOSO\Domain Adm	nins)	
Reterprise Admins (CONTOSO\Enterprise	e Admins)	
	Add	Remove
Permissions for CENTRAL	Allow	Deny
Full control		
Read		
Write		
Create all child objects		
Delete all child objects		<u> </u>
For special permissions or advanced settings,	click	Advanced
Advanced.		
Learn about access control and permissions		
OK Cancel	Apply	Help

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

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Туре	Name	Permission	Inherited From	Apply To	
Allow	Authenticated Users	Special	<not inherited=""></not>	This object only	Π
Allow	CENTRAL (CONTOSO\	Full control	<not inherited=""></not>	This object only	
Allow	SYSTEM	Full control	<not inherited=""></not>	This object only	
Allow	Domain Admins (CONTO	Full control	<not inherited=""></not>	This object only	
Allow	Enterprise Admins (CON	Full control	DC=Contoso,DC=	This object and all desce	
Allow	Administrators (CONTOS	Special	DC=Contoso,DC=	This object and all desce	
Allow	Pre-Windows 2000 Com	List contents	DC=Contoso,DC=	This object and all desce	
Allow	SELF	Special	DC=Contoso,DC=	This object and all desce	
Allow	Pre-Windows 2000 Com	Special	DC=Contoso,DC=	Descendant User objects	
Allow	Pre-Windows 2000 Com	Special	DC=Contoso,DC=	Descendant Group objects	
Allow	Pro Mindowa 2000 Com	Coopiel	DC-Contono DC-	Descendant InstOmPom	_

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

Permission Entry for System :

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Permission Entry for System M Object Properties Name: CENTRAL (CONTOSO\CEN	anagement TRAL\$)	Change	×
Apply to: This object only	All	Danu	┓│
Full control List contents Read all properties Write all properties Delete Delete subtree Read permissions Modify permissions Modify owner All validated writes Create all child objects	I Stand	Clear All	
Managing permissions	ОК	Cance	2

19) You need to choose This object and all descendant objects In Apply to,

and confirm all **Allow** items was choose :

Permission Entry for System I Object Properties Name: CENTRAL (CONTOSO\CE Apply to: This object and all de	Management	Change	×
Permissions:	Allow	Deny	
Full control List contents Read all properties Write all properties Delete Delete subtree Read permissions Modify permissions Modify owner All validated writes Create all child objects Delete subtree Read permissions to obj containers within this container	Image: state of the state	Clear All	
	ОК	Cancel	

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

ermissions Fo view or	Auditing Owner Effective	Permissions	nd then click Edit.		
Permission	entries:	Permission	Inherited From	Apply To	
Allow	Authenticated Users	Special	<not inherited=""></not>	This object only	
Allow	CENTRAL (CONTOSO\	Full control	<not inherited=""></not>	This object and all desce	
Allow	SYSTEM	Full control	<not inherited=""></not>	This object only	
Allow	Domain Admins (CONTO	Full control	<not inherited=""></not>	This object only	
Allow	Enterprise Admins (CON	Full control	DC=Contoso,DC=	This object and all desce	
Allow	Administrators (CONTOS	Special	DC=Contoso,DC=	This object and all desce	
Allow	Pre-Windows 2000 Com	List contents	DC=Contoso,DC=	This object and all desce	
Allow	SELF	Special	DC=Contoso,DC=	This object and all desce	
Allow	Pre-Windows 2000 Com	Special	DC=Contoso,DC=	Descendant User objects	
Allow	Pre-Windows 2000 Com	Special	DC=Contoso,DC=	Descendant Group objects	
Allow	Pro Windows 2000 Com	Coopiel	DC-Contono DC-	Descendant InstOrsPort	-
Add	Edit	Remove		Restore defaults	
	e innentable permissions from th	ns object s parent			
Managing	permission entries				

21) Two consecutive hits OK will finish setting AD permission , close ADUC

mmc snap-in console.

Note : you need to repeat these step to adding Primary Site Server and Secondary

Site Server name and assign permissions .

4. Extending the Active Directory Schema :

1) This process is no longer described in this part, you can reference my

document 《 System Center 2012 Configuration Manager RTM Advanced

Security Deployment Document》.

5. Configure SC2012 ConfigMgr RTM Certificates :

1) This process is no longer described in this part, you can reference my

document 《 System Center 2012 Configuration Manager RTM Advanced

Security Deployment Document》.

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

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

7. Installing SC2012 ConfigMgr Central Administration Site :

1) Logon to Central server , insert SC2012 ConfigMgr RTM image , auto-run

and display install page :

System Ce	Microsoft System Center 2012 Configuration Manager		
	Install Restart may be required Before you begin		
	Tools and Standalone Components	Additional Desources	
	Assess server readiness	Release Notes	
	<u>Get the latest Configuration Manager updates</u>	– Read <u>D</u> ocumentation	
	Install <u>C</u> onfiguration Manager console	Obtain Installation Assistance	
	Download System Center Updates Publisher	Configuration Manager Community	
		Configuration Manager <u>H</u> ome	
		<u>B</u> rowse the Installation Media	
© 2012 Micro	soft Corporation. All rights reserved.		E <u>x</u> it

2) Click Install will display Before You Begin page :

Microsoft	System Center 2012 Configuration Manager Setup Wizard
ā	Before You Begin
	This wizard walks you through the steps necessary to install or upgrade Configuration Manager 2012. Setup also provides you with options to recover a site, perform site maintenance, and uninstall the site.
	Before starting this wizard, you should.
	1. Have a supported Microsoft SQL Server installation available for Configuration Manager.
	2. Obtain the name of the computer that is running Microsoft SQL Server.
	3. Ensure that your computer systems meet the minimum system requirements.
	4. Review the Release Notes.
	WARNING: This program is protected by copyright law and international treaties.
	Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.
	To continue, click Next.
	< Previous Next > Cancel

3) Click Next, the Getting started dialog box appears, click Install a

Configuration Manager central administration site :

Microsoft System Center 2012 Configuration Manager Setup Wizard
Getting Started
Available Setup Options Setup has not detected an existing installation of a primary site server, secondary 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 an existing Configuration Manager 2012 installation Recover a site Perform site maintenance or reset this Site Uninstall a Configuration Manager site
< Previous Next > Cancel

4) Click Next, the Product Key dialog box appears, please enter product key

or select Install this product as an evaluation :

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Microsoft System Center 2012 Configuration Manager Setup Wizard
Product Key
C Install this product as an evaluation
The product can be installed in Evaluation mode. It will be a fully functional version of the product for 180 days. It can be converted to a full version by entering a product key after installation.
Enter your 25-character product key:
< Previous Next > Cancel

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

roson	t System Cen	ter 2012 Configuration Manager Setup Wizard	SWISEVA
cros	soft Softwa	are License Terms	
	MICROSO	FT EVALUATION SOFTWARE LICENSE TERMS	
	MICROSO	FT SYSTEM CENTER 2012 STANDARD EVALUATION	
	These licen live, one of above, which Microsoft	se terms are an agreement between Microsoft Corporation (or based on where you its affiliates) and you. Please read them. They apply to the evaluation software named th includes the media on which you received it, if any. The terms also apply to any	
	•	updates,	
	•	supplements,	
	•	Internet-based services, and	
	•	support services	
	for this soft	ware, unless other terms accompany those items. If so, those terms apply.	
	By using t the softwa	he software, you accept these terms. If you do not accept them, do not use are.	
	As describ	ed below, using some features also operates as your consent to the	•
	Print	License Terms	
		< Previous Next >	Cancel

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

License dialog box appears :

Microsoft System Center 2012 Configuration Manager Setup Wizard
Prereauisite Licenses
During Satury Configuration Manager will download and store the following coffware on the site converted than automatically
install the software on the site systems or client computers as required. See the <u>Configuration Manager Privacy Statement</u> 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
Concel
< Previous Next > Cancel

7) Select all items , and then click Next , the Prerequisite Downloads dialog

box appears , click any option and specify the path :

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Microsoft System Cente	r 2012 Configuration Manager Setup Wizard
Prerequisite Dowr	nloads
Setup requires pro that have been do	erequisite files. Setup can automatically download the files to a location that you specify, or you can use files winloaded previously.
Ownload required	uired files
	Example: \\ServerName\ShareName or C:\Downloads
Path:	Browse
C Use previously	downloaded files
	Example: \\ServerName\ShareName or C:\Downloads
Path:	Browse
	< Previous INEXL > Calicel

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

Microsoft Sy	stem	Center 2012 Configuration Man	ager Setup Wizard	
Server La	angı	uage Selection		
2 (t r)	Select Config the Co not su You ca	the server languages that Configurat uration Manager installs support for t infiguration Manager console or repor pport the display language. an modify the server languages if you	ion Manager displays in the Configu he languages that you select and u ts. English is the default language a run setup again and select the Site	uration Manager console and reports. uses the display language of the server that runs and it is used when Configuration Manager does a Maintenance option.
г	Curre	ently Supported Languages:	A : _ - : :	Contra (
	57	Name	Availability	State
		English French	Not Downloaded	Installed Not Installed
	H.	German	Downloaded	Not Installed
		Chinese Simplified	Downloaded	Not Installed
		Japanese	Downloaded	Not Installed
		Russian	Downloaded	Not Installed
				< Previous Next > Cancel

9) Select your needs language and the click Next , the Client Language

Selection dialog box appears :

Selec	t the client languages for Confi	guration Manager to support.		
Wher displa displa	you select a client language a lys that language. English is the ly language.	nd it matches the display language of a default language and it is used wher	a client computer, the Configuration I n Configuration Manager does not sup	Manager client oport the
You o	an modify the client languages	if you run setup again and select the	Site Maintenance option.	
	,	,		
Curr	ently Supported Languages:			
	Name	Availability	State	
	English	Not Downloaded	Installed	
	French	Downloaded	Not Installed	
	French German	Downloaded Downloaded	Not Installed Not Installed	
	French German Chinese Simplified	Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed	
	French German Chinese Simplified Japanese	Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed	
	French German Chinese Simplified Japanese Russian	Downloaded Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed Not Installed	
	French German Chinese Simplified Japanese Russian Chinese Traditional	Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed	
	French German Chinese Simplified Japanese Russian Chinese Traditional Czech	Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed	
	French German Chinese Simplified Japanese Russian Chinese Traditional Czech Danish	Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed	
	French German Chinese Simplified Japanese Russian Chinese Traditional Czech Danish Greek	Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed	

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

Hierarchy	Deployment	Document
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Microsoft System Center 2012	2 Configuration Manager Setup Wizard
Site and Installation Se	ettings
The site code will be use	d to uniquely identify this Configuration Manager site in your hierarchy.
Site code:	CAS
Specify a site name that	helps to identify the site. (Example: Contoso Headquarters Site)
Site name:	SC2012_ConfigMgr_Central Administration Site
Note: The site code must be ur	ique in the Configuration Manager hierarchy and cannot be changed after you install the site.
Installation folder:	C: Program Files Microsoft Configuration Manager Browse
Specify whether to install can remotely manage the	I the Configuration Manager console to manage the Configuration Manager site from this computer. You e site when you do not install the configuration Manager console.
☑ Install the Confi	iguration Manager console
	< Previous Next > Cancel

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

atabase Informatio	on
Configuration Ma	anager primary sites require a Microsoft SQL Server database to store site settings and data.
Specify the datab instance you spe	base server's fully qualified domain name, the instance name, and the database name. Make sure the cify is configured to use a static TCP port. Dynamic ports are not supported.
Server name:	(Example: Server1.contoso.com)
Central.Contos	io.msft
Instance name	(leave blank for default): (Example: MyInstance)
Database name	: (Example: CM_XYZ)
Database name	: (Example: CM_XYZ)
Database name	: (Example: CM_XYZ)
Database name CM_CAS Configuration Ma in the hierarchy. SQL Server service	: (Example: CM_XYZ) anager uses SQL Server Service Broker (SSB) to replicate data between parent and child site database servers You must specify a TCP port number for the SQL Server Service Broker to use. This port is different from the ce port, which is detected automatically.
Database name CM_CAS Configuration Ma in the hierarchy. SQL Server servic SSB Port:	: (Example: CM_XYZ) anager uses SQL Server Service Broker (SSB) to replicate data between parent and child site database servers You must specify a TCP port number for the SQL Server Service Broker to use. This port is different from the ce port, which is detected automatically.
Database name CM_CAS Configuration Ma in the hierarchy. SQL Server servic SSB Port:	: (Example: CM_XYZ) anager uses SQL Server Service Broker (SSB) to replicate data between parent and child site database servers You must specify a TCP port number for the SQL Server Service Broker to use. This port is different from the ce port, which is detected automatically.
Database name CM_CAS Configuration Ma in the hierarchy. SQL Server servic SSB Port: 4022	: (Example: CM_XYZ) anager uses SQL Server Service Broker (SSB) to replicate data between parent and child site database servers You must specify a TCP port number for the SQL Server Service Broker to use. This port is different from the ce port, which is detected automatically.
Database name CM_CAS Configuration Ma in the hierarchy. SQL Server servic SSB Port: 4022	: (Example: CM_XYZ) anager uses SQL Server Service Broker (SSB) to replicate data between parent and child site database servers You must specify a TCP port number for the SQL Server Service Broker to use. This port is different from the ce port, which is detected automatically.
Database name CM_CAS Configuration Ma in the hierarchy. SQL Server servic SSB Port: 4022	: (Example: CM_XYZ) anager uses SQL Server Service Broker (SSB) to replicate data between parent and child site database servers You must specify a TCP port number for the SQL Server Service Broker to use. This port is different from the ce port, which is detected automatically.

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

Microsoft System Center 2012 Configuration Manager Setup Wizard
SMS Provider Settings
The SMS Provider is used by the Configuration Manager console to communicate with the site database. Enter the FQDN of the server where the SMS Provider is to be installed:
Example: Server1.corp.contoso.com
Central.Contoso.mstt
Note: The SMS Provider cannot be installed on a server configured for SQL Server clustering.
< Previous Next > Cancel

13) Click Next , the Customer Experience Improvement Program

Configuration dialog box appears :

Microsoft System Center 2012 Configuration Manager Setup Wizard
Customer Experience Improvement Program Configuration
Do you want to join the Customer Experience Improvement Program (CEIP)? The program collects information about computer hardware and how you use Configuration Manager, without interrupting you. This helps Microsoft to improve Configuration Manager features. No information collected is used to identify or contact you.
Read the CEIP privacy statement online
Read the privacy statement online
C Join the Customer Experience Improvement Program C I don't want to join the program at this time
< Previous Next > Cancel

14) Select your needed item and click ${\bf Next}$, the ${\bf Settings}\ {\bf Summary}\ {\rm dialog}\ {\rm box}$

appears :

	Component Details
Setup Type	Central administration site installation
Site Code	CAS
Site Name	SC2012_ConfigMgr_Central Administration Site
Product Key	EVAL
Installation Directory	C:\Program Files\Microsoft Configuration Manager
External File Folder	C:\Updates
SQL Server	Central.Contoso.msft
SSB Port	4022
Database Name	CM_CAS
SMS Provider	Central.Contoso.msft
Enable All Languages for Mobile Device Clients	No

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

appears :

System Center 2012 Configuration Manager RTM

Hierarchy Deployment Document

quisite Check			
Setup is checking for potential installation prob	lems. If installation problems are found,	, Setup will display details at	bout how to
resolve them.			
Details:			
Prerequisite	Status	System	
I			
Checking			
			*
I			*
			Run Check
	< P	revious Next >	Can

16) Please wait some minutes check completed :

Microsoft System Center 2012 Configuration Manager Setup	Wizard		
Prerequisite Check			
Setup is checking for potential installation problems. If insta resolve them.	llation problems are found	, Setup will display details abo	ut how to
Details:			
Prerequisite	Status	System	
All prerequisite rules pass successfully.			
I			
			Run Check
			MILLAN
	< P	revious Begin Install	Cancel

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

i c	ConfigMgrPrereq - Notepad				
File	Edit	Forma	t View	Help	
<pre><03 <03 <03 <03 <03 <03 <03 <03 <03 <03</pre>	-29- -29- -29- -29- -29- -29- -29- -29-	2012 2012 2012 2012 2012 2012 2012 2012	08:10 08:10 08:10 08:10 08:10 08:10 08:10 08:10 08:10	:41> :41> :41> :41> :41> :41> :41> :41>	INFO: Connected to the HKEY_LOCAL_MACHINE of Central.Contoso.msft. Central.Contoso.msft; WIM filter driver; Passed INFO: Registry key SOFTWARE\Microsoft\Windows\CurrentVersion\Uninstall\ INFO: Checking disk size, SMS Provider server <central.contoso.msft>. INFO: Free space on C drive = 39008 MB Central.Contoso.msft; Free disk space for Windows Automated Install: INFO: The rule 'Pending system restart' has been run on server 'Central <<<rulecategory: components="" dependent="">>> <<<categorydesc: checking="" components="" configmgr="" dependent="" for="">>></categorydesc:></rulecategory:></central.contoso.msft>
<pre><03 <03 <03 <03 <03 <03 <03 <03 <03 <03</pre>	-29- -29- -29- -29- -29- -29- -29- -29-	2012 2012 2012 2012 2012 2012 2012 2012	08:10 08:10 08:10 08:10 08:10 08:10 08:10 08:10 08:10 08:10	:41> :41> :41> :41> :41> :41> :41> :41>	INFO: Check WAIK language version on Central.Contoso.mstt INFO: Current OS language is 1033 INFO: WAIK isn't installed. Configuration Manager 2012 setup will insta Central.Contoso.msft; Windows Automated Installation Kit (Windows AJ ===== INFO: Prerequisite Type & Server: UI:Central.Contoso.msft ===== << <rulecategory: access="" permissions="">>> <<<categorydesc: access="" checking="" permissions="">>> <<<categorydesc: checking="" configmgr="" for="" requirements="" system="">>> <<<categorydesc: checking="" configmgr="" for="" requirements="" system="">>></categorydesc:></categorydesc:></categorydesc:></rulecategory:>
<03 <03 <03 <03 <03 <03 <03 <03 <03 <03	-29- -29- -29- -29- -29- -29- -29-	2012 2012 2012 2012 2012 2012 2012 2012	08:10 08:10 08:10 08:10 08:10 08:10 08:10 08:10	:41> :41> :41> :41> :41> :41> :41> :41>	INFO: The rule 'Domain membership' has been run on server 'Central.Cont INFO: The rule 'Pending system restart' has been run on server 'Central << <rulecategory: components="" dependent="">>> <<<categorydesc: checking="" components="" configmgr="" dependent="" for="">>> INFO: Checking .NET framework versions 4.0 INFO: .NET is installed Central.Contoso.msft; Minimum .NET Framework version for Configurati</categorydesc:></rulecategory:>
<03 <03 <03 <03 <03 <03 <03 <03 <03	-29- -29- -29- -29- -29- -29- -29-	2012 2012 2012 2012 2012 2012 2012 2012	08:10 08:10 08:10 08:10 08:10 08:10 08:10	:41> :41> :41> :41> :41> :41> :41> :41>	INFO: The rule 'Microsoft XML Core Services 6.0 (MSXML60)' has been rur Central.Contoso.msft; Windows Remote Management (WinRM) v1.1; Pas ********* Prerequisite checking is completed. ******* INFO: Updating Prerequisite checking result into the registry INFO: Connecting to Central.Contoso.msft registry
<03	-29-	2012	08:10	:41>	INFO: Setting registry values

18) Click Begin Install to starting installing progress :

System Center 2012 Configuration Manager RTM Hierarchy Deployment Document

Microsoft System Center 2012 Configuration Manager Setup Wizard		
Install		
Overall progress		
	Elapsed time: 00:00:23	
Contration and a service ment		
View Log		
	< Previous Next > Cancel	
	////JPA/V	1
Microsoft System Center 2012 Configuration Manager Setup Wizard		
Install		
Overall progress		
	Elapsed time: 00:01:29	
O Subatian anti-a anti-anant		
Evaluating setup environment Evaluating and installing Configuration Manager dependencies		
Generating public key and SOL Server certificate		
Removing pre-existing Configuration Manager services and registry keys		
Setting up server accounts		
🕖 Updating registry		
🟹 Setting up the SQL Server database		
View Log		
	< Previous Next > Cancel	1
	///////////////////////////////////////	Ľ
		_

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

administration site will be dependent on the hardware available , it could take over

20 minutes . When complete , the Core setup has completed dialog box appears

indicating that setup completed each action successfully :

Microsoft System Center 2012 Configuration Manager Setup Wizard	
Install	
Core setup has completed	
	Elapsed time: 00:16:41
Jostalling Component Monitor	
Installing SMS Executive	
Installing Database Notification Monitor	
Installing Site Control Manager	
Installing Hierarchy Manager	
🕢 Installing Inbox Manager	
🕢 Installing boot image package	
Ocnfiguring data replication service	
🕢 Installing Configuration Manager console	
Creating program group	.
You can close the wizard while Setup completes site installation in the background. For a list of tag your site, see <u>Post-Setup Configuration Tasks</u> in the Configuration Manager Documentation Library	sks to help you configure ,.
View Log	
< Previous	Next > Close

20) Click View Log can open ConfigMgrSetup.log file :
| ConfigMgrSetup - Notepad | |
|---|--|
| File Edit Format View Help | |
| ConfigMgrSetup - NotepadFileEditFormatViewHepINFO:Successfully completed monitoring.\$\$ <configuration manager<="" td="">Setup><03-29-2012</configuration> | 9:0 9:0 9:0 9:0 9:0 9:0 9:0 9:0 |
| INFO: Shortcut string is C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft S
INFO: Failed to locate the exe path for icon Configuration Manager Documentation, skip it | yst
 |
| WARN: Failed to begin Automatic updates detection task - lautomaticUpdates->DetectNow fa
INFO: CAS installation is complete. \$\$ <configuration manager="" setup=""><03-29-2012 08:30:07.
</configuration> | 822- |
| | |
| | |

21) Close log file and click Close .

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

--- Configuration Manager, and then click Configuration Manager Console, the

System Center 2012 Configuration Manager console window appears , click the

Monitoring workspace, in the navigation pane, expand System Status, and then

click Site Status :

System Center 2012 Configuration Manager RTM

Hierarchy Deployment Document

System Center 2012 Configuration Manager (Configuration Manager (Con	necte	d to CAS -	SC2012_ConfigMgr_Centra	l Administration Site	e) (Evaluation, 180 days left)			- 8 × ^ (?)
Saved Searches - Search								
A total state of the state o	> Sy	stem Status	 Site Status 					- 2
Monitoring <	Site	Status 4 i	ems					
A Dverview	Sec	arch				X 💭 Searc	h Add	Criteria 🔻
Alerts	Icon	Status	Site System	Site System Role	Storage Object	Total	Site Code	
🐊 Queries	0	OK	\\Central.Contoso.msft	Site database server	CM_CAS Database	5 GB	CAS	
Reporting	0	OK	\\Central.Contoso.msft	Site database server	CM_CAS Transaction Log	214.1 MB	CAS	
Site Hierarchy	0	OK	\\CENTRAL.CONTOSO.MSFT	Component server	\\CENTRAL.CONTOSO.MSFT\C\$\Pro	59.9 GB	CAS	
A 📔 System Status	0	OK	\\Central.Contoso.msft	Site server	\\Central.Contoso.msft\C\$\Program.		CAS	
No Site Status								
Gomponent Status								
Conflicting Records								
10 Status Message Queries								
P Deployments								
Client Status								
Database Replication								
Distribution Status								
Software Update Point Synchronization Sta								
Assets and Compliance								
👘 Software Library								
Monitoring								
Administration								
Ready								

23) Click **Component Status** , in the results pane , click **SMS_SITE_COMPONENT_MANAGER** , and then on the Ribbon , click **Show Messages** --- **All** :

System Center 2012 Configuration Manager RTM

Hierarchy Deployment Document

System Center 2012 Configuration Manager (Configuration Manager)	Conne	cted to CAS -	SC2012_ConfigMgr_Central Administ	ration Site) (Evaluation, 180 da	ys left)	_ <u>8</u> ×
Home						^ 🔞
🖸 🔽 🔊 🕨 ^{Q. Re}	fresh					
Saved Show Reset Start		Properties				
Search All onent		Properties				
Error						
Warning Ig Verview	~ •	System Statu	s Component Status			📕 🌳
Monitoring (1) Information	< (Component S	tatus 39 items			
 Overview 	^	Search			🗙 🔎 Seard	h 🛛 Add Criteria 🔻
Alerts	1	con Statu	us Component	Site System	Туре	Site Code
👂 Queries		🕢 ок	SMS_MIGRATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
Reporting		🕢 ок	SMS_MP_FILE_DISPATCH_MANAGE	ER CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
🙀 Site Hierarchy		🕑 ок	SMS_OBJECT_REPLICATION_MANA	G CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
🔺 🚞 System Status		🕑 ок	SMS_OFFLINE_SERVICING_MANAG	ER CENTRAL.CONTOSO.MSFT	Unmonitored Thread Co	CAS
bite Status	E	🕑 ок	SMS_OUTBOX_MONITOR	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
Gomponent Status		🕑 ок	SMS_REPLICATION_CONFIGURATI	0 CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
Conflicting Records		🔮 ок	SMS_REPLICATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
🚯 Status Message Queries		🕑 ок	SMS_RULE_ENGINE	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
Deployments		🕑 ок	SMS_SCHEDULER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
Client Status		🕑 ок	SMS_SITE_BACKUP	CENTRAL.CONTOSO.MSFT	Unmonitored Service Co	CAS
🕞 Database Replication		🕑 ок	SMS_SITE_COMPONENT_MANAGE	CENTRAL.CONTOSO.MSFT	Component Not Installe	CAS
Distribution Status		🕑 ок	SMS_SITE_CONTROL_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
Software Update Point Synchronization Sta	a 👻	🕑 ок	SMS_SITE_SQL_BACKUP	CENTRAL.CONTOSO.MSFT	Monitored Service Comp	CAS
Assets and Compliance		🔮 ок	SMS_SITE_SYSTEM_STATUS_SUM	M CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
		🔮 ок	SMS_SITE_VSS_WRITER	CENTRAL.CONTOSO.MSFT	Monitored Service Comp	CAS
👘 Software Library		🔮 ок	SMS_SOFTWARE_METERING_PROC	CE CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
Monitoring		🕑 ок	SMS_STATE_SYSTEM	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
	_	🕑 ок	SMS_STATUS_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
Administration		🕑 ок	SMS_WINNT_SERVER_DISCOVERY	CENTRAL.CONTOSO.MSFT	Unmonitored Thread Co	CAS
	•	🕑 ок	SMS_WSUS_CONFIGURATION_MAI	N CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS
Ready			SMS WISHS SYNC MANAGER	CENTRAL CONTOSO MSET	Monitored Thread Comp	CAS

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

atus	Messages: Set Viewing Period
Set a	date and time or select a preset date and time. The viewer will e only messages on or after this time.
-Valu	e
0	Specify date and time
	3/29/2012 ▼ 8:45:51 AM ×
	(UTC-08:00) Pacific Time (US & Canada)
۲	Select date and time
	1 day ago 💌
	1 day ago 💌
	OK Cancel Skip

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

window appears :

Con	Configuration Manager Status Message Viewer for <cas> <sc2012_configmgr_central administration="" site=""></sc2012_configmgr_central></cas>								
File E	dit View He	lp							
∐ 🖬 ∉	3 🖻 🗙		Original Query				•		
Severit	y Type	Site code	Date / Time	System	Component	Message ID	Description		
٩	Milestone	CAS	3/29/2012 8:29:13 AM	CENTRAL.C	SMS_SITE_C	4629	Component Status Summari		
Q	Milestone	CAS	3/29/2012 8:29:13 AM	CENTRAL.C	SMS_SITE_C	4611	Component Status Summari		
Q	Milestone	CAS	3/29/2012 8:28:21 AM	CENTRAL.C	SMS_SITE_C	4610	Component Status Summari		
9	Milestone	CAS	3/29/2012 8:28:21 AM	CENTRAL.C	SMS_SITE_C	4631	Component Status Summari		
Q	Milestone	CAS	3/29/2012 8:25:45 AM	Central.Cont	SMS_SITE_C	1026	Site Component Manager is		
9	Milestone	CAS	3/29/2012 8:25:45 AM	Central.Cont	SMS_SITE_C	1027	Site Component Manager s		
Q.	Milestone	CAS	3/29/2012 8:25:44 AM	Central.Cont	SMS_SITE_C	500	This component started.		
	d Queru i 7 of	7 managan diadau	ind 1 coloriad						
Comman	d Query : 7 of	7 messages display	ed. 1 selected.						

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

Status Message Details dialog box appears :

Status Message D	etails			×					
Date:	3/29/2012	Type:	Milestone						
Time:	8:25:45.387 AM	25:45.387 AM Severity: Information							
Site code:	CAS	Message ID:	1027						
System:	Central.Contoso.msft	Process ID:	1564						
Source:	SMS Server	Thread ID:	2364						
Component:	SMS_SITE_COMPONENT	_MANAGER							
Description:									
Site Component M \CENTRAL.CONTC Component Manag	lanager successfully configur DSO.MSFT" to receive Config ger will now begin installing t	red site system "\ uration Manager S he components on	erver Components. Site the site system.	×					
Properties:									
				4 F					
	∧ <u>P</u> revious	<u>∨</u> <u>N</u> ext	ОК						

27) Click OK , in the results pane , click SMS_HIERARCHY_MANAGER , and

😨 System Center 2012 Configuration Manager (Connected to CAS - SC2012_ConfigMgr_Central Administration Site) (Evaluation, 180 days left) 📃 🙆 🔀								
Home								^ 🕜
Saved Show Reset Start	resh	Prop	perties					
Searches • Messages • Ounts • •		Dror	artion					
Search All phent	_	Prop	berties					
← → ▼ Marning g ► Overview	•	System	n Status 🔸	Component Status				- 2
Monitoring Difformation	۰	Compo	nent Status	39 items				
Overview	-	Search				🗙 🔎 Searc	h Add C	iriteria 🔻
Alerts		Icon	Status	Component	Site System	Туре	Site Code	*
🐊 Queries		0	ок	SMS_EXECUTIVE	CENTRAL.CONTOSO.MSFT	Monitored Service Comp	CAS	
Reporting		0	OK	SMS_HIERARCHY_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
🙀 Site Hierarchy		0	ОК	SMS_INBOX_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
🔺 🚞 System Status			ОК	SMS_INBOX_MONITOR	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
🎝 Site Status	=		OK	SMS_INVENTORY_DATA_LOADER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Gomponent Status		v	ОК	SMS_LAN_SENDER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Conflicting Records		v	ОК	SMS_MIGRATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
🚯 Status Message Queries		Ø	OK	SMS_MP_FILE_DISPATCH_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Deployments			ОК	SMS_OBJECT_REPLICATION_MANAG	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Client Status			OK	SMS_OFFLINE_SERVICING_MANAGER	CENTRAL.CONTOSO.MSFT	Unmonitored Thread Co	CAS	
🕞 Database Replication			OK	SMS_OUTBOX_MONITOR	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Distribution Status			ОК	SMS_REPLICATION_CONFIGURATIO	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	=
듋 Software Update Point Synchronization Sta	Ŧ	0	ОК	SMS_REPLICATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
	-		ОК	SMS_RULE_ENGINE	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Assets and Compliance			ОК	SMS_SCHEDULER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
👘 Software Library		0	ОК	SMS_SITE_BACKUP	CENTRAL.CONTOSO.MSFT	Unmonitored Service Co	CAS	
Manitaring			ОК	SMS_SITE_COMPONENT_MANAGER	CENTRAL.CONTOSO.MSFT	Component Not Installe	CAS	
Monitoring			ОК	SMS_SITE_CONTROL_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Administration			ОК	SMS_SITE_SQL_BACKUP	CENTRAL.CONTOSO.MSFT	Monitored Service Comp	CAS	
			OK	SMS_SITE_SYSTEM_STATUS_SUMM	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Ready		•	OK	SMS SITE VSS WDITED	CENTRAL CONTOSO MSET	Monitored Service Comp	CAS	Ŧ

then on the Ribbon , click Show Messages --- All :

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

Click the **3306** message , and then on the **View** menu , click **Detail** , the **Status Message Details** dialog box appears :

tatus Message [)etails			X
Date:	3/29/2012	Type:	Milestone	
Time:	8:28:07.620 AM	Severity:	Information	
Site code:	CAS	Message ID:	3306	
System:	Central.Contoso.msft	Process ID:	3392	
Source:	SMS Server	Thread ID:	3648	
Component:	SMS_HIERARCHY_MANA	AGER		
"SC2012_Config!	Mgr_Central Administration Sit	te" (CAS).	te control ne for site	•
Properties:				
				*
	Previous	<u>Next</u>	ОК	
) Click O	K , in t	the result	ts pane	,

SMS_WINNT_SERVER_DISCOVERY_AGENT , and then on the Ribbon , click Show

Messages --- All :

System Center 2012 Configuration Manager RTM

Hierarchy Deployment Document

System Center 2012 Configuration Manager (Configuration Manager)	onne	cted to	CAS - 5C2	012_ConfigMgr_Central Administration Si	ite) (Evaluation, 180 days le	ft)	- ć	× ا
Home							^	?
Saved Searches * Search All Double * Start	resh	Prope	erties					
← → ▼ S Error ng ► Overview	•	System	Status 🔸	Component Status			-	2
Machanian (i) Information				20 items				-
Monitoring		ompon	ent status	39 items			1	
Verview	n-	Search		· •		X Search	Add Criteria	а т
Alerts	1	lcon	Status	Component	Site System	Туре	Site Code	^
👂 Queries		0	OK	SMS_MP_FILE_DISPATCH_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Reporting			OK	SMS_OBJECT_REPLICATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
🙀 Site Hierarchy			OK	SMS_OFFLINE_SERVICING_MANAGER	CENTRAL.CONTOSO.MSFT	Unmonitored Thread Co	CAS	
🔺 🧰 System Status			OK	SMS_OUTBOX_MONITOR	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
No Site Status	Ξ		OK	SMS_REPLICATION_CONFIGURATION_M	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Gomponent Status			OK	SMS_REPLICATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Conflicting Records			OK	SMS_RULE_ENGINE	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
🚯 Status Message Queries			OK	SMS_SCHEDULER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Deployments			OK	SMS_SITE_BACKUP	CENTRAL.CONTOSO.MSFT	Unmonitored Service Co	CAS	
Client Status			OK	SMS_SITE_COMPONENT_MANAGER	CENTRAL.CONTOSO.MSFT	Component Not Installe	CAS	
🕞 Database Replication			ОК	SMS_SITE_CONTROL_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Distribution Status			ОК	SMS_SITE_SQL_BACKUP	CENTRAL.CONTOSO.MSFT	Monitored Service Comp	CAS	
🖏 Software Update Point Synchronization Sta	Ŧ	v	OK	SMS_SITE_SYSTEM_STATUS_SUMMARIZ	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Access and Compliance			ОК	SMS_SITE_VSS_WRITER	CENTRAL.CONTOSO.MSFT	Monitored Service Comp	CAS	
Assets and compliance			ок	SMS_SOFTWARE_METERING_PROCESSOR	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	=
👘 Software Library			OK	SMS_STATE_SYSTEM	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Monitoring			ОК	SMS_STATUS_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
montoning	-		ОК	SMS_WINNT_SERVER_DISCOVERY_AGENT	CENTRAL.CONTOSO.MSFT	Unmonitored Thread Co	CAS	
Administration			ОК	SMS_WSUS_CONFIGURATION_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
	-		ОК	SMS_WSUS_SYNC_MANAGER	CENTRAL.CONTOSO.MSFT	Monitored Thread Comp	CAS	
Ready								¥

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

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

Message Details dialog box appears :

Status Message Deta	ails			×
Date:	3/29/2012	Type:	Milestone	
Time:	8:31:00.097 AM	Severity:	Information	
Site code:	CAS	Message ID:	4202	
System:	CENTRAL.CONTOSO.MS	Process ID:	3392	
Source:	SMS Server	Thread ID:	3248	
Component:	SMS_WINNT_SERVER_DI	SCOVERY_AGENT		
Description: Server Discovery Ag control file. Properties:	ent read the system roles a	and found 4 server role	e entries in the site	•
			<u> </u>	
	∧ Previous	Next	ОК	

31) Click OK , click the Administration workspace , expand Site

Configuration , and then click Sites :

🔢 System Center 2012 Configuration Manager	r (Connected to CAS - SC2012_	_ConfigMgr_Central Admin	istratio	on Site) (Eva	aluation, 18	30 days left)		_ 8 ×
Home								^ 🔞
Create Settings Searches Searches Searches	e Create Retry er Secondary Site Secondary Site	Upgrade Contract State S	itatus	Settings S	Set Security Scopes Classify	Properties Properties		
← → - 🖏 \ ► Administration ► O	verview Site Configuration	 Sites 						- 2
Administration <	Sites 1 items							
Overview	Search						🗙 🔎 Se	arch Add Criteria 🔻
Hierarchy Configuration	Icon Name	•	Туре	Server Name	e	State	Site Code	Parent Site Code
Site Configuration	CAS - SC2012_ConfigMg	r_Central Administration Site	CAS	Central.Con	ntoso.msft	Active	CAS	
Image: Stress Image: Stress <t< td=""><td>SC2012_ConfigMgr_C General Site Code: Server Name:</td><td>CAS Central.Contoso.msft</td><td>n Site</td><td></td><td></td><td>Rela</td><td>ated Objects</td><td>¥ iethods</td></t<>	SC2012_ConfigMgr_C General Site Code: Server Name:	CAS Central.Contoso.msft	n Site			Rela	ated Objects	¥ iethods
Software Library Monitoring Administration Ready	Install Directory: Build Number: State:	C:\Program Files\Microso 7711 Active	ft Confi	iguration Ma	anager		Audresses	

32) The list of sites appears in the results pane , notice that we only have one

Selected Object System Cer	ter 201	2 Configuration Manager (C	Connected to CAS -	SC2012_ConfigMg	gr_Central Administration S	iite) (Evaluation, 180 d	ays <u>- B ×</u>
Home Site Role							^ 🕑
Remove Properties Site Role Properties							
🗲 🔶 👻 🔝 👌 🖌 🕹	verview	Site Configuration	Servers and Site Syste	m Roles			- 😂
Administration 4	Servers	and Site System Roles 1 ite	ems				
 Overview 	Search	i				🗙 🔎 Search	Add Criteria 🔻
Hierarchy Configuration	Icon	Name	Site Code	Count of roles			
🔺 🚞 Site Configuration	Ē.	\\Central.Contoso.msft	CAS	4			
Client Settings Clien							
	Site	System Roles					~
	Icon	Role Name	Role Description				
	P	Component server	Any server that r	uns the SMS Execu	itive service.		
	1 2	Site database server	A site system rol	e that runs Microso	oft SQL Server and hosts the	Configuration Manager	sit
ssets and Compliance		Site server Site system	The main site sys A server or serve	stem role that host or share that hosts	s the Configuration Manager one or more site system role	components and services for a Configuration M	ies. an
👘 Software Library						-	
Monitoring							
Administration							
▼ Ready							

site as this time , is CAS , click Servers and Sites System Roles :

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

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

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

9. Installing SC2012 ConfigMgr Primary Site :

1) Logon to Primary server , insert SC2012 ConfigMgr RTM image , auto-run

and display install page :

💹 System Ce	nter 2012 Configuration Manager Setup		
N.	System Center 2012 Configuration Manager		
	Install (i) Restart may be required (ii) Before you begin		
	Tools and Standalone Components	Additional Resources	
	Assess server readiness	Release Notes	
	Get the latest Configuration Manager updates	Read Documentation	
	Install <u>C</u> onfiguration Manager console	Obtain Installation Assistance	
	Download System Center Updates Publisher	Configuration Manager Community	
		Configuration Manager <u>H</u> ome	
		<u>B</u> rowse the Installation Media	
© 2012 Micros	soft Corporation. All rights reserved.		E <u>x</u> it

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

Microsoft	System Center 2012 Configuration Manager Setup Wizard	
R	Before You Begin	
	This wizard walks you through the steps necessary to install or upgrade Configuration Manager 2012. Setup also provides you with options to recover a site, perform site maintenance, and uninstall the site.	
	Before starting this wizard, you should.	
	1. Have a supported Microsoft SQL Server installation available for Configuration Manager.	
	2. Obtain the name of the computer that is running Microsoft SQL Server.	
	3. Ensure that your computer systems meet the minimum system requirements.	
	4. Review the Release Notes.	
	WARNING: This program is protected by copyright law and international treaties.	
	Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.	
	To continue, click Next.	
	< Previous Next > Cancel	

3) Click Next , verify that Install a Configuration Manager primary site is

selected :

Microsoft System Center 2012 Configuration Manager Setup Wizard	
Getting Started	
Available Setup Options	
Setup has not detected an existing installation of a primary site server, secondary site server, site system, or Config Manager console on this computer.	guration
 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 	
C Install a Configuration Manager central administration site	
C Upgrade an existing Configuration Manager 2012 installation	
C Recover a site	
C Perform site maintenance or reset this Site	
C Uninstall a Configuration Manager site	
< Previous Next >	Cancel

4) Click Next, the Product Key dialog box appears, please enter product key

or select Install this product as an evaluation :

System Center 2012 Configuration Manager RTM Hierarchy Deployment Document

Microsoft System Center 2012 Configuration Manager Setup Wizard	
Product Key	
C Install this product as an evaluation The product can be installed in Evaluation mode. It will be a fully functional version of the product for 180 days. It can be converted to a full version by entering a product key after installation.	
• Enter your 25-character product key:	
· · 😡	
< Previous Next > C	ancel
///////	

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

Microsof	t System Cen	ter 2012 Configuration Manager Setup Wizard	
Micro	soft Softwa	re License Terms	
	MICROSO	FT EVALUATION SOFTWARE LICENSE TERMS	
	MICROSO	FT SYSTEM CENTER 2012 STANDARD EVALUATION	
	These licens live, one of above, whic Microsoft	se terms are an agreement between Microsoft Corporation (or based on where you its affiliates) and you. Please read them. They apply to the evaluation software named h includes the media on which you received it, if any. The terms also apply to any	
	•	updates,	
	•	supplements,	
	•	Internet-based services, and	
	•	support services	
	for this soft	ware, unless other terms accompany those items. If so, those terms apply.	
	By using the software the softw	he software, you accept these terms. If you do not accept them, do not use ire.	
	As describ	ed below, using some features also operates as your consent to the	
	Print	License Terms	
		< Previous Next >	Cancel

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

Licenses dialog box appears :

Microsoft System Center 2012 Configuration Manager Setup Wizard
Prereauisite 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

7) Select all items , and then click Next , the Prerequisite Downloads dialog

box appears , click any option and specify the path :

Microsoft System Cente	er 2012 Configuration Manager Setup Wizard
Prerequisite Down	nloads
Setup requires pr that have been d	erequisite files. Setup can automatically download the files to a location that you specify, or you can use files ownloaded previously.
Ownload required	uired files
	Example: \\ServerName\ShareName or C:\Downloads
Path:	Browse
C Use previously	downloaded files
	Example: \\ServerName\ShareName or C:\Downloads
Path:	Browse
	< Previous Next > Cancel

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

rosoft Syste	m Center 2012 Configuration Man	ager Setup Wizard		
erver Lang	juage Selection			
Seler Conf the (ct the server languages that Configurat iguration Manager installs support for 1 Configuration Manager console or repo	tion Manager displays in the Configura the languages that you select and use rts. English is the default language ar	ation Manager console and reports. es the display language of the server that runs nd it is used when Configuration Manager does	
not s	support the display language.			
You	can modify the server languages if you	urun setup again and select the Site N	Maintenance option.	
Cur	rently Supported Languages:			
	Name	Availability	State	
~	English	Not Downloaded	Installed	
	French	Downloaded	Not Installed	
	German	Downloaded	Not Installed	
	Chinese Simplified	Downloaded	Not Installed	
	Japanese	Downloaded	Not Installed	
	Russian	Downloaded	Not Installed	
		<	Previous Next > Cance	

9) Select your needs language and the click Next , the Client Language

Selection dialog box appears :

	t the client languages for Config	guration Manager to support.		
When displa displa	you select a client language any stat language. English is the ys that language. English is the y language.	nd it matches the display language of a default language and it is used when	a client computer, the Configuration M n Configuration Manager does not supp	Manager client port the
Your	an modify the client languages	if you run setup again and select the	Site Maintenance ontion	
TOUC	an moully the client languages	ir you run setup again and select the	Site maintenance option.	
Our	ently Supported Languages:			
	Name	Availability	State	^
V	English	Not Downloaded	Installed	
	French	Downloaded	Not Installed	
		Downloaded	Not Installed	
	German		Not instance	
	German Chinese Simplified	Downloaded	Not Installed	
	German Chinese Simplified Japanese	Downloaded Downloaded	Not Installed Not Installed	-
	German Chinese Simplified Japanese Russian	Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed	
	German Chinese Simplified Japanese Russian Chinese Traditional	Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed Not Installed	
	German Chinese Simplified Japanese Russian Chinese Traditional Czech	Downloaded Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed Not Installed	
	German Chinese Simplified Japanese Russian Chinese Traditional Czech Danish	Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed	
	German Chinese Simplified Japanese Russian Chinese Traditional Czech Danish Greek	Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded Downloaded	Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed Not Installed	

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

Microsoft System Center 2012	Configuration Manager Setup Wizard
Site and Installation Se	ettings
The site code will be used	d to uniquely identify this Configuration Manager site in your hierarchy.
Site code:	PR1
Specify a site name that I	helps to identify the site. (Example: Contoso Headquarters Site)
Site name:	SC2012_ConfigMgr_Primary Site
Note: The site code must be un	ique in the Configuration Manager hierarchy and cannot be changed after you install the site.
Installation folder:	C: \Program Files \Microsoft Configuration Manager Browse
Specify whether to install can remotely manage the	the Configuration Manager console to manage the Configuration Manager site from this computer. You e site when you do not install the configuration Manager console.
☑ Install the Confi	guration Manager console
	< Previous Next > Cancel

11) Click Next, the Primary Site Installation dialog box appears, click Join

the primary site to an existing hierarchy , and then in the Central administration

site server (FQDN) box, type Central.Contoso.msft:

Primary Site Installation Specify whether to join the primary site to an existing Configuration Manager hierarchy or install the primary site as a stand-alone site.
Specify whether to join the primary site to an existing Configuration Manager hierarchy or install the primary site as a stand-alone site.
Specify whether to join the primary site to an existing Configuration Manager hierarchy or install the primary site as a stand-alone site.
O Join the primary site to an existing hierarchy
Central administration site server (FQDN): (Example: server1.corp.contoso.com)
Central.Contoso.msft
○ Install the primary site as a stand-alone site
< Previous Next > Cancel

12) Click Next, the Database Information dialog box appears :

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)
Primary.Contoso.msft
Instance name (leave blank for default): (Example: MyInstance)
Database name: (Example: CM_XYZ)
CM_PR1
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: 4022
< Previous Next > Cancel

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

SMS Provider Settings
The SMS Provider is used by the Configuration Manager console to communicate with the site database.
Enter the FODN of the server where the SMS Provider is to be installed:
Example: Server1.corp.contoso.com
Primary.Contoso.msrt
Note: The SMS Provider cannot be installed on a server configured for SQL Server clustering.
< Previous Next > Cancel

14) Click Next , the Client Computer Communication Settings dialog box

appears :

Microsoft System Center 2012 Configuration Manager Setup Wizard
Client Computer Communication Settings
Configuration Manager site system roles can accept HTTP or HTTPS communication from clients. Specify whether to require all site system roles to accept only HTTPS communication or allow the communication method to be configured on each site
system role.
All site system roles accept only HTTPS communication from clients
C Configure the communication method on each site system role
Clients will use HTTPS when they have a valid PKI certificate and HTTPS-enabled site roles are available
Note: HTTPS communication requires client computers to have a valid PKI certificate for client authentication.
< Previous Next > Cancel

15) Keep the default setting and then click Next, a Configuration Manager

dialog box appears :



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

SOIT SY	stem Center 2012 Configuration Manager Setup Wizard	
e Sys	em Roles	
	Specify whether to have Setup install a management point or distri	bution point.
	A management point provides clients with policy and content locati clients.	on information. It also receives configuration data from
	✓ Install a management point.	
	FQDN:	Client connection:
	Primary.Contoso.msft	HTTPS 🔻
	Install a distribution point. FQDN:	Client connection:
	Primary.Contoso.msft	HTTPS v
	The site server's computer account is used to install the selected si he local administrators group for the specified servers.	te system roles. Ensure that this account is a member of
	You can install additional site system roles from the Configuration 1	Manager console after Setup finishes.
	Site system roles configured to use HTTPS must have a valid PKI se	erver certificate.
		< Previous Next > Cancel

17) Keep the default settings , and then click Next , the Customer Experience

Improvement Program Configuration dialog box appears :

Microsoft System Center 2012 Configuration Manager Setup Wizard
Customer Experience Improvement Program Configuration
Do you want to join the Customer Experience Improvement Program (CEIP)?
The program collects information about computer hardware and how you use Configuration Manager, without interrupting you. This helps Microsoft to improve Configuration Manager features. No information collected is used to identify or contact you.
Read the CEIP privacy statement online
Read the privacy statement online
C Join the Customer Experience Improvement Program
$\mathbb C$ I don't want to join the program at this time
< Previous Next > Cancel

18) Select any option , and then click Next , the Settings Summary dialog box

appears :

Satur Component	Company Dataila	
Setup Component	Primary site installation	
Site Code	Philary site installation	
Site Name	FRI SC2012 ConfigMar Brimany Site	
Role Communication Protocol	Client configured to communicate over HTTPS only	
Clients Use PKI Certificate	No	
Product Key	EVAL	
Installation Directory	C:\Program Files\Microsoft Configuration Manager	
External File Folder	C:\Updates	
SOL Server	Primary.Contoso.msft	
SSB Port	4022	
Database Name	CM PR1	
SMS Provider	– Primary.Contoso.msft	
Management Point	Primary.Contoso.msft	
Protocol for Management Point	HTTPS	
Distribution Point	Primary.Contoso.msft	
Protocol for Distribution Point	HTTPS	
Central administration site server	Central Contoso msft	

19) Confirm all settings and click ${\bf Next}$, the ${\bf Prerequisite}\ {\bf Check}\ {\rm dialog}\ {\rm box}$

appears , please wait some minutes check completed :

System Center 2012 Configuration Manager RTM

Hierarchy Deployment Document

		12010		
reauisite Check				
Cabus is shard in a few and				
resolve them.	tential installation problems. If installa	tion problems are found, :	setup will display details at	DOUT NOW TO
Details				
	-			
	Prerequisite	Status	System	
All prerequisite rules pas	ss successfully.			
All prerequisite rules pas	ss successfully.			
All prerequisite rules pas	ss successfully.			
All prerequisite rules pas	ss successfully.			
All prerequisite rules pas	ss successfully.			
All prerequisite rules pas	ss successfully.			
All prerequisite rules pas	ss successfully.			
All prerequisite rules pas	ss successfully.			*
All prerequisite rules pas	ss successfully.			Run Check
All prerequisite rules pas	ss successfully.			Run Check
All prerequisite rules pas	ss successfully.			Run Check
All prerequisite rules pas	ss successfully.			Run Check
All prerequisite rules pas	ss successfully.	<pre></pre>	vious Begin Install	Run Check

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

📕 ConfigMgrPrereq - Notepad	
File Edit Format View Help	
<03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05> <03-29-2012 22:58:05>	<pre><<<rulecategory: access="" permissions="">>> <!--<CategoryDesc: Checking access permissions-->>> <!--<CategoryDesc: Checking access permissions-->>> <!--<CategoryDesc: Checking system requirements for ConfigMgr-->>> INFO: The rule 'Unsupported site server operating system version for Se INFO: The rule 'Domain membership' has been run on server 'Primary.Cont INFO: The rule 'Pending system restart' has been run on server 'Primary <<<categorydesc: checking="" components="" configmgr="" dependent="" for="">>> <!--<CategoryDesc: Checking dependent Components for ConfigMgr-->>> </categorydesc:>>> >> </rulecategory:></pre>
<03-29-2012	<pre><<<categorydesc: access="" checking="" permissions="">>> <<<categorydesc: access="" checking="" permissions="">>> <<<categorydesc: checking="" configmgr="" for="" requirements="" system="">>> Primary.Contoso.msft; Unsupported Configuration Manager console oper INF0: The rule 'Domain membership' has been run on server 'Primary.Cont INF0: The rule 'Pending system restart' has been run on server 'Primary.Cont INF0: The rule 'Pending system restart' has been run on server 'Primary.Cont INF0: Checking .NET framework versions 4.0 INF0: Checking .NET framework versions 4.0 INF0: .NET is installed Primary.Contoso.msft; Minimum .NET Framework version for Configurati INF0: The rule 'Windows Remote Management (WinRM) v1.1' has been run or ************************************</categorydesc:></categorydesc:></categorydesc:></pre>
•	

Microsoft System Center 2012 Configuration Manager Setup Wizard	
Install	
Overall progress	
	Florend times 00:07:07
	Elapsed time: 00:02:05
Evaluating setup environment	
Generating public key and SQL Server certificate	
Evaluating and installing Configuration Manager dependencies	
Removing pre-existing Configuration Manager services and registry keys	
View Log	
	< Previous Next > Cancel
	Calica
Microsoft System Center 2012 Configuration Manager Setup Wizard	
Install	
1 iscai	
Overall progress	
	Elapsed time: 00:06:22
Conception sublic law and SOL Conceptions	
Generating public key and SQL Server certificate Evaluation and installing Configuration Manager dependencies	
Removing pre-existing Configuration Manager services and registry keys	
Setting up server accounts	
📀 Updating registry	
🕑 Setting up the SQL Server database	
Copying files	
C copying mes	
Copying mes	
Copying mes	
View Log	
View Log	
View Log	< Previous Next > Cancel

21) Click Begin Install to starting installing progress :

Microsoft System Center 2012 Configuration Manager Setup Wizard		
Install		
Overall progress		
	Elapsed time: 00:13:3	32
 Installing Component Monitor Installing SMS Executive Installing Database Notification Monitor Installing Site Control Manager Installing Hierarchy Manager Installing Inbox Manager Installing Inbox Manager Installing policy provider Installing management point control manager 	<u>-</u>	
 Configuring data replication service Installing Configuration Manager console View Log 		-
	< Previous Next > Can	cel

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

Install	
Core setup has completed	
Elapsed time: 00:13:55	
🔮 Installing policy provider	
🕑 Installing management point control manager	
🔮 Configuring data replication service	
🥑 Installing Configuration Manager console	
🕑 Creating program group	
🕑 Initializing replication data	
🕑 Creating database snapshot	
🕐 Receiving database snapshot	
Applying the snapshot data	
-	
_	
You can close the wizard while Setup completes site installation in the background. For a list of tasks to help you configure your site, see <u>Post-Setup Configuration Tasks</u> in the Configuration Manager Documentation Library.	
View Log	
< Previous Next > Close	

23) Click Close and then click Exit .

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

--- Configuration Manager , and then click Configuration Manager Console , the

System Center 2012 Configuration Manager console window appears :

System Center 2012

Configuration Manager RTM

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System Center 2012 Configuration Management System Center 2012 Configuration Management	r (Connected to PR1 - SC2012_ConfigMgr_Primary Site) (Evaluation, 180 days left)	×
Search	٨	0
All Saved Search Search Searches Searches Searches Search	Save Current Search As Active Search	
Assets and Complian	e > Overview >	2
Assets and Compliance	 Assets and Compliance Overview Navigation Index Users: Manage users and user groups for the hierarchy. User Collections: Manage user sale user collections for the hierarchy. User State Migration: Manage user state migration for when you deploy operating systems. Coftware Metering: Configure rules to monitor software application usage. Endpoint Protection: Manage Antimalware and Firewall policies. 	
Assets and Compliance	• Recent Alerts (0) - Last updated: 3/29/2012 11:51:34 PM]
Software Library		
Monitoring		
Administration		
Ready		

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

Site Status :

System Center 2012 Configuration Ma	nag	er (Connec	ted to I	PR1 - SC2012_ConfigMgr_P	rimary Site) (Evaluati	on, 180 days left)		_ 8 ×
Home								^ 😯
Saved Searches • Search	(Refresh						
🗲 🔶 👻 🎼 👌 🔸 Monitoring 🔸	Ove	erview 🕨	System	Status 🔸 Site Status				- 2
Monitoring	۰	Site Statu	s 6 item	15				
 Overview 	-	Search					🗙 🔎 Search	Add Criteria 🔻
Alerts		Icon 1	Status	Site System	Site System Role	Storage Object	Total	Site Code
🐊 Queries			ок	\\Primary.Contoso.msft	Site server	\\Primary.Contoso.msft\C\$\Program	59.9 GB	PR1
Reporting		0	ОК	\\Primary.Contoso.msft	Site database server	CM_PR1 Database	5 GB	PR1
🙀 Site Hierarchy		0	ОК	\\Primary.Contoso.msft	Site database server	CM_PR1 Transaction Log	417.4 MB	PR1
🔺 🚞 System Status		v	ОК	\\PRIMARY.CONTOSO.MSFT	Component server	\\PRIMARY.CONTOSO.MSFT\C\$\Pro	59.9 GB	PR1
Dite Status	E	0	ОК	\\Primary.Contoso.msft	Distribution point	\\Primary.Contoso.msft\C\$	59.9 GB	PR1
Gomponent Status		0	ОК	\\Primary.Contoso.msft	Management point	\\PRIMARY.CONTOSO.MSFT\C\$\Pro	59.9 GB	PR1
Conflicting Records								
时 Status Message Queries								
Peployments								
Client Status								
🔁 Database Replication								
Distribution Status								
Software Update Point Synchroniz	Ŧ							
ssets and Compliance								
👘 Software Library								
Monitoring								
Administration								
Ready	•							

System Center 2012 Configuration Manage	r (Conne	cted to PR1	- SC2012_ConfigMgr_Primary Site) (Evaluation, 180 days left)		X
Home						^ 🔞
0	Refresh					
Saved Show Reset Start Searches • Messages • Counts • •		Properties				
Search Component		Properties				
	view 🕨	System Stati	is Component Status			- 2
	them p	System State				
lonitoring <	Compo	nent Status	50 items			
Overview	Search				🗙 🔎 Search	Add Criteria 🔻
Alerts	Icon	Status	Component	Site System	Туре	Site Code
🐊 Queries	0	OK	SMS_AI_KB_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
Reporting	0	OK	SMS_ALERT_NOTIFICATION	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
Site Hierarchy		OK	SMS_AMT_PROXY_COMPONENT	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
 Gystem Status 		OK	SMS_CERTIFICATE_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
🎝 Site Status		OK	SMS_CLIENT_CONFIG_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
Gomponent Status		OK	SMS_CLIENT_HEALTH	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
Conflicting Records	0	OK	SMS_COLLECTION_EVALUATOR	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
📑 Status Message Queries	0	OK	SMS_COMPONENT_MONITOR	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
P Deployments	0	OK	SMS_COMPONENT_STATUS_SUMMA	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
Client Status	0	OK	SMS_DATABASE_NOTIFICATION_MO	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
🕞 Database Replication		OK	SMS_DESPOOLER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
Distribution Status	Ū 🕗 🗌	OK	SMS_DISCOVERY_DATA_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
🛐 Software Update Point Synchronizati 🤘	· 🕢	OK	SMS_DISTRIBUTION_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
1 • • • • •		OK	SMS_EN_ADSERVICE_MONITOR	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
Assets and Compliance	0	OK	SMS_ENDPOINT_PROTECTION_MAN	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
🗃 Software Library	0	OK	SMS_EXECUTIVE	PRIMARY.CONTOSO.MSFT	Monitored Service Component	PR1
Monitoring		ОК	SMS_HIERARCHY_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
wontoning		OK	SMS_INBOX_MANAGER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
Administration	0	OK	SMS_INBOX_MONITOR	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
	. 🕢	OK	SMS_INVENTORY_DATA_LOADER	PRIMARY.CONTOSO.MSFT	Monitored Thread Component	PR1
		OK	SMS INVENTORY PROCESSOR	DRIMARY CONTOSO MSET	Monitored Thread Component	DD1

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

27) Click the Administration workspace , expand Site Configuration , and

then click Sites ,

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System Center 2012 Configuration Mana	ager (Connected to PR1 - SC2012_Config	JMgr_Primary Site) (Evaluation, 180 days	s left)	_	8 ×
Home					^ 🕜
Create Settings Sites Searches*	Site Create Site Create R Roles System Server Secondary Site Secon Site	Upgrade Upgrade Collecte	Settings Classify	Properties Properties	
🗲 🔶 - 🍓 🔪 Administration 🕨	Overview Site Configuration Site	es		•	2
Administration <	Sites 1 items				
	Search			X Search Add Criter	ria 🔻
 Hierarchy Configuration 	Icon Name	Type Server Name State	Site Code Parent Site	Code	
 Site Configuration 	PR1 - SC2012_ConfigMgr_Primary Si	te Primary Primary.Contoso.msft Active	PR1 CAS		
 Servers and Site System Roles Client Settings Security Distribution Points Distribution Point Groups Migration 	SC2012_ConfigMgr_Primary S	Site			*
	General		Rela	ted Objects	
	Site Code: PR1		*	Discovery Methods	
Assets and Compliance Software Library Monitoring Administration	Server Name: Primary Install Directory: C:\Prog Build Number: 7711 State: Active	.Contoso.msft ram Files\Microsoft Configuration Manager		Addresses	

28) The list of sites appears in the results pane , notice that we only have one

🔢 System Cente	er 2012 Config	uration Man	ager (Co	nnected to PR1 - SC2012_C	onfigMgr_Primary	Site) (Evaluation	n, 180 days left)		_ 8 ×
Home	e								^ 🕐
*		6	. *	💦 📐 🔃 Refresh					
H.			la la	The Interview Provide America Contraction					
System Server	Servers with Role ▼	Saved Searches •	Syster	n Roles 🔹	Properties				
Create	View	Search		Server	Properties				
←→ -	👂 \ 🕨 Adn	ninistration 🕨	Overvi	ew 🕨 Site Configuration 🕨	Servers and Site S	ystem Roles			- 2
Administration		٠	Servers	and Site System Roles 1 iter	ms				
4 🕅 Overview			Search					🗙 🔎 Search	Add Criteria 🔻
🕨 📔 Hierarch	y Configuratio	n	Icon	Name	Site Code	Count of roles			
🔺 🚞 Site Con	figuration		Ē.	\\Primary.Contoso.msft	PR1	6			
💵 Sites									
🔝 Server	s and Site Syst	em Roles							
Nent Se	ettings								
🕨 📔 Security									
📄 Distribut	tion Points								
🖶 Distribut	tion Point Grou	ıps							
🕨 📔 Migratio	on								
			Site	System Roles					~
			Trees	Dala Nama	Bala Description				
			ICON I	Component server	Any server that	runs the SMS Ev	ecutive service		
				Distribution point	A Configuration	Manager server i	role that staries nackaries for distribu	ition to clients	
📌 Assets and	d Compliance			Management point	A site system r	na that renlies to	Configuration Manager client reques	its and accents mana	
	Library		1	Site database server	A site system r	ole that rups Micro	nooft SOL Server and hosts the Conf	iguration Manager sit	
Man Southard	Library		100 A	Site server	The main site s	vstem role that h	osts the Configuration Manager com	nonents and services	
Monitorin	g		E)	Site system	A server or sen	er share that hos	ts one or more site system roles for	a Configuration Man	
Administr	ation			0.00 0/0000				a comgaration nan.	
		•							
Ready									

site as this time , is **PR1** , click **Servers and Sites System Roles** :

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

30) Switch to Central server, in Administration workspace, expand Hierarchy

Configuration , click Discovery Methods , you can see the all discovery methods :

System Center 2012 Configuration Maintain	nager (Co	onnected to CAS - SC2012_ConfigMgr	_Central Ad	ministrati	on Site) (Evaluation, 180 days left)	_ 8 ×	
✓ Home						^ 🕐	
Saved Searches Searches Discovery Mow	Properti	ies					
← → ▼ 🕺 \ ► Administration	 Overv 	iew 🕨 Hierarchy Configuration 🕨 Dis	scovery Meth	ods		- 2	
Administration 4	Discove	ry Methods 7 items					
 Overview 	Search				X , Search Ad	d Criteria 🔻	
Hierarchy Configuration	Icon	Name	Status	Site	Description		
😥 Discovery Methods	N	Active Directory Forest Discovery	Disabled	PR1	Configures settings that Configuration Manager uses to find Active		
🛤 Boundaries	1	Active Directory Forest Discovery	Disabled	CAS	Configures settings that Configuration Manager uses to find Active		
🛤 Boundary Groups	Active Directory Group Discovery Disabled PR1 Configures settings that Configuration Manager uses to find group						
Exchange Server Connectors	Active Directory System Discovery Disabled PR1 Configures settings that Configuration Manager uses to find comput						
Reference Addresses	N	Active Directory User Discovery	Disabled	PR1	Configures settings that Configuration Manager uses to find user ac		
🛕 Active Directory Forests	N.	Heartbeat Discovery	Enabled	PR1	Configures interval for Configuration Manager clients to periodically		
Site Configuration	N.	Network Discovery	Disabled	PR1	Configures settings and polling intervals to discover resources on th		
Client Settings							
Security							
Distribution Points							
Distribution Point Groups							
Migration							
Note: Assets and Compliance							
👘 Software Library							
Monitoring							
Administration							
Ready							

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

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System Center 2012 Configuration Ma	nager	(Connected to CAS - SC2012_ConfigMgr_Central A	dministr	ation Site) (Evaluatio	n, 180 days left)			- 8	×
Home								^	0
*** 🐖 📰		Ö							
Add Site Create Site Hierarchy	Se	aved							
System Roles System Server Settings	Sea	rches *							
Create Sites	Se	earch							
← → ▼ 📲 \ ► Administration	► Ov	erview Site Configuration Sites						•	2
Administration <	Sites	2 items							
Overview	Sear	rch				×	Search	Add Criteria	Ŧ
Hierarchy Configuration	Icon	Name	Туре	Server Name	State	Site Code	Parent Sit	te Code	
🔺 🚞 Site Configuration	4	CAS - SC2012_ConfigMgr_Central Administration Site	CAS	Central.Contoso.msft	Active	CAS			
Film Sites	1	PR1 - SC2012_ConfigMgr_Primary Site	Primary	Primary.Contoso.msft	Active	PR1	CAS		
🔊 Servers and Site System Roles									
Client Settings									
Security									
Distribution Points									
Distribution Point Groups									
Migration									
👷 Assets and Compliance									
👘 Software Library									
Monitoring									
Administration									
-									
Ready									

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

System Center 2012 Configuration Mar	nager (Co	onnected to CAS - SC2012_(ConfigMgr_Centra	Administration S	5ite) (Evaluation, 180 days left)		_ 8 ×
Home							^ 🕜
Create Site System Servers Create View Searches •							
🗲 🔶 👻 👔 🖒 k Administration	 Overv 	iew 🕨 Site Configuration 🕨	Servers and Site	System Roles			- 2
Administration <	Servers	and Site System Roles 2 iter	ns				
Overview	Search					🗙 🔎 Search	Add Criteria 🔻
Hierarchy Configuration	Icon	Name	Site Code	Count of roles			
Site Configuration	£.,	\\Central.Contoso.msft	CAS	4			
Sites	.	\\Primary.Contoso.msft	PR1	6			
Servers and Site System Roles							
Security							
Distribution Points							
Distribution Point Groups							
Migration							
Note: Assets and Compliance							
👘 Software Library							
Monitoring							
Administration							
*							
Ready							

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

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

System Center 2012 Configuration Ma	anager (C	onnected to C/	\5 - 5C2012_	ConfigMgr_Central	Administration	Site) (Evaluation, 180 days left)		X
Home								^ 🔮
	3	😱 Refresh						
Saved Save Connect Re	eplication L	ink	Properties					
Search Database R	eplication		Properties					
A sector of the sector	Overview	 Database 	Replication					- 2
Monitoring «	Databa	se Replication	1 items					
🔺 🔳 Overview	Search						🗙 🔎 Search	Add Criteria 🔻
Alerts	Icon	Parent Site	Child Site	Link State	Des	ription		
🍃 Queries	6	CAS	PR1	Link Active	Link	is active		
Reporting								
Site Hierarchy	Repl	ication Stat	us					~
- Site Status								
Component Status	Site R	eplication Stati	JS			Global Data Replication Status	5	
Conflicting Records	Pan	ent Site:	CA	S		Parent Site to Child Site	Link Active	
🚺 Status Message Queries	Chi	d Site:	Re PR	plication Active		Parent Site to Child Site	Link Active	
P Deployments	Chi	d Site State:	Re	plication Active		Global Synchronization Time:	3/30/2012 5:29 AM	
Client Status						Child Site to Parent Site	Link Activo	
👌 Database Replication						Last Synchronization Time:	3/30/2012 5:33 AM	
Distribution Status						Global Data Initialization	100%	
Software Update Point Synchrc						reicentage.	10070	
Assets and Compliance						Site Data Replication Status		
취 Software Library						Child Site to Parent Site		
Monitoring						State: Child Site to Parent Site	LINK ACTIVE	
Administration						Synchronization Time:	3/30/2012 5:34 AM	
	Summa	ary Parent Sit	te Child Site	•				
Ready								

34) Click Parent Site, you can see the Replication Status :
System Center 2012

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System Center 2012 Configuration Ma	nager (C	onnected to C/	S - 5C2012_0	Config	Mgr_Central Administr	ation Sit	te) (Evaluation, 180 days left)	N ×
Home							^	?
		Q Refresh						
Saved Save Connect Re Searches	plication L Analyzer	ink	Properties					
Search Database Re	eplication		Properties					
← → ▼ 🔥 \ ► Monitoring ►	Overview	 Database 	Replication					2
Monitoring «	Databa	se Replication	1 items					
A Dverview	Search						🗙 🔎 Search 🛛 Add Criteria	a 🔻
Alerts	Icon	Parent Site	Child Site	Link S	tate	Descripti	ion	
Queries		CAS	PR1	Link	Active	Link is a	active	
Reporting								_
🙀 Site Hierarchy								
 System Status 	Repl	ication Stat	us					~
🌄 Site Status	Icon	Monitored Ite	em		Current Configuration		Description	
Gomponent Status		Computer a	count		CONTOSO\Central\$		Configuration Manager Site Server Account Central.Contoso.msft	still v
Conflicting Records	0	Database fil	e disk free spa	ce	C:\ 27GB		Configuration Manager Database File Disk still has enough free sp	oace.
🔂 Status Message Queries		Database fil	e location		C:\Program Files\Micr	rosoft	Configuration Manager Database file location is still valid.	
Poployments		Firewall port	S		1433,4022		Configuration Manager SQL Server ports 1433,4022 still active on	i Firev
Client Status	0	Machine cer	tificate		Expiry date: 2112-03-	-05, cn	Certificate is still valid for Central.Contoso.msft.	
🚡 Database Replication	0	SQL Server	certificate		Expiry date: 2029-01-	-01, cn	Service Broker certificate is still valid for Central.Contoso.msft.	
Distribution Status		SQL Server	port		1433		Port 1433 still valid for Central.Contoso.msft.	
🐻 Software Update Point Synchrc 👻		SQL Server	role		smsdbrole_MP,smsdb	role_M	All Configuration Manager SQL Roles still valid.	
E Assets and Compliance		SQL Server	service broker	port	4022		Service Broker Central.Contoso.msft Port 4022 still valid.	
👘 Software Library								
Monitoring								
Administration								
	<			1				•
Deads	Summa	ary Parent Si	te Child Site					
Reduy								

35) Click the Child Site :



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

🔢 System Center 2012 Config ation Manager (Connected to PR1 - SC2012_ConfigMgr_Primary Site) (Evaluation, 180 days left) _ 8 × Home Search ^ 🕜 🚠 Hierarchy Diagram 🛞 🙈 🔚 🛹 Expand Collapse Configure View Print All All Settings Site Hierarchy 🚸 Geographical View View ← → ▼ 👬 \ ► Monitoring ► Overview ► Site Hierarchy - 2 Monitoring < 🔺 🥅 Overview 4 🕨 ≽ Alerts -CAS 〕 Queries Reporting Site Hierarchy 🔺 🚞 System Status 挶 Site Status 🕞 Component Status Conflicting Records PR1 P Deployments Client Status Actual Size Fit Screen 👍 🕎 🔍 😔 👍 Database Replication Distribution Status Navigator 🖏 Software Update Point Synchror 👻 . Assets and Compliance <u>a</u> oftware Library Monitoring Administration 100 % 🔍 — 🗨 Ready

Hierarchy, you can see all site hierarchy :

10. Installing SC2012 ConfigMgr Secondary Site requirement Windows components :

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

11. Installing SC2012 ConfigMgr Secondary Site :

1) Logon to **Secondary** server , grant local administrators group permission

for the **Primary** site server computer account :



2) Click OK and switch to Primary server . In the Administration workspace ,

expand Site Configuration , and then click Sites :

System Center 2012 Configuration Manager RTM

Hierarchy Deployment Document

System Center 2012 Configuration Man	ager (Connected to PR1 - SC2012_ConfigMgr_Primary Site) (Evaluation, 180 days left)	_ 8 ×
✓ Home		^ 🔞
Add Site Create Site System Roles System Server Create Sites	Saved Searches* Searches*	Set Security Scopes Properties Classify Properties
← → - 📴 \ ► Administration ►	Overview Site Configuration Sites	. 2
Administration 4	Sites 1 items	
	Search X	Search Add Criteria -
Hierarchy Configuration	Icon Name Type Server Name State Site Code Parent Site Code	
 Site Configuration 	PR1 - SC2012_ConfigMgr_Primary Site Primary Primary Primary.Contoso.msft Active PR1 CAS	
Fig Sites		
Servers and Site System Roles		
Security	SC2012 ConfigMar Drimary Site	~
Distribution Points	Sozorz_comgragrmmary site	
📇 Distribution Point Groups	General Related Obje	cts
Migration	Site Code: PR1 🔊 Discov	ery Methods
	Server Name: Primary.Contoso.msft Install Directory: C:\Program Files\Microsoft Configuration Manager Build Number: 7711 State: Active	ises
💭 Assets and Compliance		
i Software Library		
Monitoring		
Administration		
•		
Ready		

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



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

👫 Create Secondary Site W	izard
Before You Begin	
Before You Begin	Welcome to the Create Secondary Site Wizard
General	
Installation Source Files	
SQL Server Settings	Use this wizard to create a Configuration Manager secondary site under the following primary site: PR1 - SC2012_ConfigMgr_Primary Site.
Distribution Point	
Drive Settings	
Content Validation	The following site system roles will be installed on the secondary site server:
Boundary Groups	Management point
Summary	Distribution point
Progress	
Completion	
	To create the secondary site, click Next.
	<previous next=""> Summary Cancel</previous>

5) Click Next, the General dialog box appears :

👫 Create Secondary Site Wi	zard	×
General		
Before You Begin General Installation Source Files SQL Server Settings Distribution Point Drive Settings Content Validation Boundary Groups Summary Progress Completion	Specify settings for a new secondary site Enter the site code that is used to uniquely identify this Configuration Manager secondary site in your hierarchy. Site code: Example: XYZ Enter the FQDN for the secondary site server: Example: server1 corp.contoso.com Site server name: @ Browse Specify the site name that helps to identify the site. Example: Contoso remote site Site name: The site code and site name must be unique in the Configuration Manager hierarchy and cannot be changed after you install the site. Specify the installation folder for the secondary site. Installation folder for the secondary site. CNProgram Files/Microsoft Configuration Manager\ Browse Click Summary to install the new secondary site by using default settings, or click Next to configure settings for the secondary site. The default settings will not associate the distribution point with a boundary group, which might prevent clients from using this distribution point for content location.]
	<pre> <pre></pre></pre>	

6) Type relate information in the box :

👫 Create Secondary Site W	izard X
General	
Before You Begin General Installation Source Files	Specify settings for a new secondary site
SQL Server Settings Distribution Point	Enter the site code that is used to uniquely identify this Configuration Manager secondary site in your hierarchy.
Drive Settings	Site code: Example: XYZ SEC
Content Validation Boundary Groups	Enter the FQDN for the secondary site server. Example: server1.corp.contoso.com
Summary	Site server name: SECONDARY.Contoso.msft Browse
Progress	Specify the site name that helps to identify the site. Example: Contoso remote site
Completion	Site name: SC2012_ConfigMgr_Secondary Site
	The site code and site name must be unique in the Configuration Manager hierarchy and cannot be changed after you install the site.
	Specify the installation folder for the secondary site.
	Installation folder: C:\Program Files\Microsoft Configuration Manager\ Browse
	Click Summary to install the new secondary site by using default settings, or click Next to configure settings for the secondary site.
	The default settings will not associate the distribution point with a boundary group, which might prevent clients from using this distribution point for content location.
	Next > Summary Cancel

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

👫 Create Secondary Site W	izard	×
Installation Source	e Files	
Before You Begin General	Specify the location of the Configuration Manager installation source files	
Installation Source Files		
SQL Server Settings	The Configuration Manager installation source files will be obtained from the following location to install the secondary site.	
Distribution Point		
Drive Settings	Copy installation source files over the network from the parent site server	
Content Validation		
Boundary Groups	C Use the source files at the following network location	
Summary	UNC path: Example: \\Server \SourceHies	
Progress		Browse
Completion		
	O Use the source files at the following location on the secondary site computer (most secure)	
	Local path: Example: C:\SourceFiles	
	J	
	<pre> <pre></pre></pre>	nary Cancel

8) Verify that Copy installation source files over the network from the

 $\ensuremath{\textbf{parent}}$ site server is selected , and then click $\ensuremath{\textbf{Next}}$, the $\ensuremath{\textbf{SQL}}$ Server Settings dialog

box appears :

👫 Create Secondary Site W	/izard	×
SQL Server Settin	ngs	
Before You Begin General Installation Source Files	Specify the SQL Server settings to be us	sed for this secondary site installation.
SQL Server Settings Distribution Point Drive Settings	Configuration Manager secondary sites require a Microsoft during secondary site setup or an existing SQL Server inst	SQL Server database to store site settings and data. SQL Server Express can be installed ance can be used.
Content Validation	Specify a TCP port number for the SQL Server Service Broker (specify a TCP port number for the SQL Server Service Bro	SSB) to replicate data between parent and child site database servers in the hierarchy. You must iker to use.
Boundary Groups		
Summary	This port is different from the SQL Server service port, whi	ch is detected automatically.
Progress	Install and configure a local copy of SQL Server Expr	ess on the secondary site computer
Completion	SQL Server service port:	1433 🙁
	SQL Server Service Broker port:	4022
	O Use an existing SQL Server instance	
	Specify the computer name, SQL Server instance nar	ne, and database name:
	SQL Server fully qualified domain name:	SECONDARY.Contoso.msft
		Example: sqlserver.contoso.com
	SQL Server instance name, if applicable:	
		Example: InstanceName
	ConfigMgr site database name:	CM_SEC
	COL Craves Craving Prolong and	
	SQL Server Service Broker port:	14UZZ
	v	< Previous Next > Summary Cancel

9) Verify that Install and configure a local copy of SQL Server Express on

the secondary site computer is selected , verify that the default ports of 1433 and

4022 are listed , and then click Next , the Distribution Point dialog box appears :

Distribution Point Before You Begin General Installation Source Files SQ: Server Settings Distribution Point Drive Settings Content Vaildation Bondary Groups Summary Progress Completion Completion If HTTP Description Mow intranet-only connections If you have mobile devices. Progress Completion If HTTP Description Allow intranet-only connections If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. Image: Select the option to anonymously Create a self-signed certificate Image: Select an option that allows Internet client connections. Image: Select an option that allows Internet client connections. Image: Select an option that allows Internet client connections. Image: Select an option that allows Internet client connections. Image: Select an option that allows Internet client connections. Image: Select an option that allows Internet client connections. Image: Sele epiratin d
Before You Begin Specify distribution point settings General Installation Source Files SQL Server Settings A distribution point contains source files for clients to download. Dirive Settings A distribution point contains source files for clients to download. Dirive Settings You must select this option to install the distribution point. Content Validation Specify how client computers communicate with this distribution point. Boundary Groups Image: The Pint Pint Pint Pint Pint Pint Pint Pint
SQL Server Settings A distribution point contains source files for clients to download. Distribution Point Install and configure IIS f required by Configuration Manager Drive Settings You must select this option to install the distribution point. Content Validation Specify how client computers communicate with this distribution point. Boundary Groups Image: HTTP Summary Does not support mobile devices. Progress Image: HTTPS Completion Requires computers to have a valid PKI client certificate: Allow intranet-only connections Image: Specify how clients to connect anonymously Create a self-signed certificate or import a PKI client certificate. Image: Specify client certificate. Image: Create a self-signed certificate Specify client certificate Image: Create a self-si
Distribution Point Install and configure IIS frequired by Configuration Manager Drive Settings You must select this option to install the distribution point. Content Validation Specify how client computers communicate with this distribution point. Boundary Groups IF HTTP Summary Does not support mobile devices. Progress IF HTTPS Completion Requires computers to have a valid PKI client certificate: Allow intranet-only connections If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you have a self-signed certificate If create self-signed certificate If create self-signed certificate Set expiration date: 3/30/2013
Drive Settings You must select this option to install the distribution point. Content Validation Specify how client computers communicate with this distribution point. Boundary Groups IPTP Summary Does not support mobile devices. Progress IPTPS Completion Requires computers to have a valid PKI client certificate: Allow intranet-only connections If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you clients to connect anonymously Create a self-signed certificate or import a PKI client certificate. Create a self-signed certificate Sto2 AM
Content Validation Specify how client computers communicate with this distribution point. Boundary Groups © HTTP Summary Does not support mobile devices. Progress © HTTPS Completion Requires computers to have a valid PKI client certificate: Allow intranet-only connections > If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. Create a self-signed certificate or import a PKI client certificate. © Create self-signed certificate Set expiration date: 3/30/2013 8:02 AM
Boundary Groups
Summary Does not support mobile devices. Progress C HTTPS Completion Requires computers to have a valid PKI client certificate: Allow intranet-only connections Image: select an option that allows Internet client connections. If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. Create a self-signed certificate or import a PKI client certificate. Create self-signed certificate Set expiration date: 3/30/2013 8:02 AM
Progress C HTTPS Completion Requires computers to have a valid PKI client certificate: Allow intranet-only connections If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If Allow clients to connect anonymously Create as self-signed certificate or import a PKI client certificate. © Create self-signed certificate Set expiration date: 3/30/2013
Completion Requires computers to have a valid PKI client certificate: Allow intranet-only connections If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. If Allow clients to connect anonymously Create as elf-signed certificate If create self-signed certificate Set expiration date: 3/30/2013 If 202 AM
Allow intranet-only connections If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client connections. Internet of the enrolled by Configuration Manager, select an option that allows Internet client client connections. Internet of the enrolled by Configuration the enroled by Configuration the enrolled by Configuration the
If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections. Allow clients to connect anonymously Create as elf-signed certificate or import a PKI client certificate.
Allow clients to connect anonymously Create a self-signed certificate or import a PKI client certificate. Create self-signed certificate Set expiration date: 3/30/2013 Sto2 AM
Create a self-signed certificate or import a PKI client certificate. Create self-signed certificate Set expiration date: 3/30/2013 8:02 AM
Create self-signed certificate Set expiration date: 3/30/2013 8:02 AM
Set expiration date: 3/30/2013 Store AM
C Import certificate
Certificate: Browse
Passuort
Enable this distribution point for prestaged content
Use the application or package properties to choose how content is copied to this distribution point.
<previous next=""> Summary Cancel</previous>

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

click HTTPS :

👫 Create Secondary Site V	Vizard X
Distribution Point	t
Before You Begin General Installation Source Files SQL Server Settings	A distribution point contains source files for clients to download.
Distribution Point	You must select this ontion to install the distribution point
Content Validation	Sperify how client computere communicate with this distribution point.
Boundary Groups	
Summary	Does not support mobile devices.
Progress	
Completion	Requires computers to have a valid PKI client certificate:
	Allow intranet-only connections
	If you have mobile devices that are enrolled by Configuration Manager, select an option that allows Internet client connections.
	Allow clients to connect anonymously
	Create a self-signed certificate or import a PKI client certificate.
	C Create self-signed certificate
	Set expiration date: 3/30/2013 💌 8:02 AM
	O Import certificate
	Certificate: Browse
	Password:
	E Fachle this distribution and for contrast
	Use the application or package properties to choose how content is copied to this distribution point.
	CPrevioue Next Summary Cancel

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

💱 Create Secondary Site W	lizard	X
Drive Settings		
Before You Begin General Installation Source Files	Specify drive settings for this distribution point	
SQL Server Settings Distribution Point	Specify the space to reserve on each drive that is used by this distribution po free on the drive after content is stored on it.	int. You can use drive space reserve to determine the space that remains
Drive Settings Content Validation	Drive space reserve (MB):	50 *
Boundary Groups Summary	The content library contains content that is distributed to this distribution point each content files. The package share is used when you configure a package and the share of the state	t. To optimize hard disk space, the content library stores only one instance of ge to allow clients to run a program from the distribution point.
Progress Completion	Specify the locations for the content library and package share on this distrib that has the most free space when the distribution point is installed. Configura insufficient space remains on the primary location.	ution point. If you select Automatic, Configuration Manager selects the drive tion Manager uses the secondary content library location only when
	Primary content library location:	Automatic
	Secondary content library location:	Automatic
	Secondary package share location:	
	0	< Previous Next > Summary Cancel

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

👫 Create Secondary Site Wi	izard	×
Content Validation	1	
Before You Begin General	Specify the content validation settings	
Installation Source Files SQL Server Settings Distribution Point Drive Settings	Content validation verifies the integrity of packages on this distribution point. To review the validation states for packages, check the Content Status node in the Monitoring workspace.	
Content Validation		
Boundary Groups	Validate content on a schedule	
Progress	Occurs every I weeks on Saturday enective 12/51/1957 4.00 PM	
Completion	Content validation priority	
	Select the priority that you want to use for content validation. A high priority value might increase the CPU usage and disk activity on the distribution point during content validation.	
	<previous next=""> Summary Cancel</previous>	

13) Click Next, the Boundary Groups dialog box appears :

💱 Create Secondary Site Wi	īzard
Boundary Groups	
Before You Begin General Installation Source Files SQL Server Settings Distribution Point Drive Settings Content Validation	Specify the boundary groups to associate with this site system You can associate a distribution point or state migration point with a boundary group. During content deployment, clients in a boundary group that is associated with this site system will use it as a source location for content.
Boundary Groups	Boundary groups:
Summary	Filer
Progress	Name Description
	Create Add Remove
	Specify whether to allow clients outside these boundary groups to fall back and use this site system as a source location for content when no other site systems are available.
	Allow fallback source location for content
	<previous next=""> Summary Cancel</previous>

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

eate boundary G	roup		<u>.</u>
Name:			
Description:			A V
Site assignment			
🗌 Use this bou	ndary group for site as	ssignment	
Assigned site	PR1-SC	2012_ConfigMgr_Primary Site	
Specify the bounda	ries referenced by this	boundary group:	
-			-
Hilter			P
Filter Name		Description	P
Name	There are no i	Description tems to show in this view.	
Name	There are no i	Description tems to show in this view.	
Name	There are no i	Description tems to show in this view.	
Name	There are no i	Description tems to show in this view.	
Name	There are no i	Description tems to show in this view.	
Name	There are no i	Description tems to show in this view.	~~~~~
Name	There are no i	Description tems to show in this view.	
Name	There are no i	Description tems to show in this view.	
Name	There are no i	Description tems to show in this view.	Remove

15) Type a name in the Name box , select Use this boundary group for site assignment , and then in the Assigned site box , verify that PR1-SC2012_ConfigMgr_Primary Site is listed :

System Center 2012 Configuration Manager RTM Hierarchy Deployment Document

Name:	Secondary Site Client	s	
Description:			-
- Site assignment			
Use this bo	undary group for site as	signment	
Assigned sit	e: PR1-SC	2012_ConfigMgr_Primary	/ Site
Specify the bounda	aries referenced by this	boundary group:	
Filter			S
Name		Description	
	i nere are no it	ems to snow in this view	Ν.
		Ad	Id Remove

16) Click OK , the Boundary Groups dialog box appears displaying the new

boundary group for the secondary site :

💱 Create Secondary Site W	zard	×
Boundary Groups		
Before You Begin General Installation Source Files SQL Server Settings Distribution Point Drive Settings Content Validation Boundary Groups Summary	Specify the boundary groups to associate with this site system You can associate a distribution point or state migration point with a boundary group. During content deployment, clients in a boundary group that is associated with this site system will use it as a source location for content. Boundary groups: Filter	
Progress	Name Description	
Completion	Create Add Remove Specify whether to allow clients outside these boundary groups to fall back and use this site system as a source location for content when no other site systems are available. Image: Create Content Content	
	<pre></pre>	

17) Click Next, the Summary dialog box appears :



18) Click Next, the Progress dialog box appears :

System Center 2012 Configuration Manager RTM Hierarchy Deployment Document

👫 Create Secondary Site W	fizard	×
Progress		
Before You Begin General Installation Source Files SQL Server Settings Distribution Point Drive Settings Content Validation Boundary Groups Summary Progress Completion	Statu: Working	

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

👫 Create Secondary Site W	izard	×
Completion		
Before You Begin General Installation Source Files SQL Server Settings Distribution Point Drive Settings Content Validation Boundary Groups Summary Progress Somoletion	<section-header><section-header><section-header> The Create Secondary Site Wizard completed successfully Jetain Denem The Site Hierarchy node in the Monitoring workspace. The Second Site Seco</section-header></section-header></section-header>	
	<previous next=""> Summary Close</previous>	

20) Click Close, the list of Configuration Manager sites appear in the results

pane . The secondary site appears in the list with a status of **Pending** :

System Center 2012 Configuration Manager RTM

Hierarchy Deployment Document

System Center 2012 Configuration Man	ager (Connected to PR1 - SC2012_ConfigMgr_	Primary Site) (Evaluation, 180 days left)			_ 8 ×
Home					^ 🕜
😻 🎁 📧	🗭 🚺 🚺	the short of the s	w Install Status		
Add Site Create Site Hierarchy System Roles System Server Settings	Saved Add Site Create Site Searches • System Roles System Server Sect	Create Retry Upgrade Kondary Site Secondary Site Secondary Site	ete	Settings Set Security Scopes	Properties
Create Sites	Search	Site		Classify	Properties
←→ - 🛄 \ ► Administration ►	Overview Site Configuration Sites				- 2
Administration <	Sites 2 items				
 Overview 	Search			🗙 🔎 Search	Add Criteria 🔻
Hierarchy Configuration	Icon Name	Type Server Name	State Site O	ode Parent Site Code	
 Site Configuration 	PR1 - SC2012_ConfigMgr_Primary Site	Primary Primary.Contoso.msft	Active PR1	CAS	
📴 Sites	SEC - SC2012_ConfigMgr_Secondary Site	Secondary SECONDARY.Contoso.msft	Pending SEC	PR1	
🕵 Servers and Site System Roles					
Lient Settings					
Security	SC2012_ConfigMgr_Secondary Sit	te			*
Distribution Points	General		P	alated Objects	
Distribution Point Groups					
Migration	Site Code: SEC	Contaca moft		JISCOVERY METHODS	
	Install Directory: C:\Program F	les\Microsoft Configuration Manager\		Addresses	
	Build Number: 7711	. 5 5 .			
	State: Pending				
Note: Assets and Compliance					
👘 Software Library					
Monitoring					
Administration					
-					
Ready	1				

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

22) Refresh the Sites node in the Administration workspace navigation pane,

the secondary site appears in the results pane of sites :

System Center 2012 Configuration Manager RTM

Hierarchy Deployment Document

System Center 2012 Configuration M	nager (Conne	octed to PP1 - Se	2012 ConfigMar P	rimary Site)	(Evaluation 180 days lef	F)	-	-	
Home	inger (conne		czorz_conngrigi_i	rindi y Siccy		-)			
Add Site Create Site System Roles System Server Create Site Sites	Saved Searches + Search	Add Site System Roles	Create Site C System Server Secon	ireate ndary Site Sec Site	Retry condary Site	now Install efresh elete	Status	ttings Set Security Scopes Classify	Properties Properties
← → - 🐚 \ ► Administration	 Overview 	 Site Configur 	ration 🕨 Sites						- 2
Administration	< Sites 2 iter	ns						V Search	Add Criteria
Overview	Juli			-				A p baren	Add Criticina -
Hierarchy Configuration	Icon Nam	- SC2012 Config	Mar Primany Site	Type Priman/	Server Name	State	Site Code	Parent Site Code	
Sites	SEC	- SC2012_Config	Mar Secondary Site	Secondary	SECONDARY.Contoso.msf	Active	SEC	PR1	
Servers and Site System Roles			· <u>3</u> ·,	,					
Sclient Settings									
Security	SC2012	2_ConfigMgr	Secondary Site	2					~
Distribution Points									
📇 Distribution Point Groups	General						Relat	ted Objects	
Migration	Site Co	de:	SEC				1	Discovery Methods	1
	Server Install Build N State:	Name: Directory: lumber:	SECONDARY.Co C:\Program File 7711 Active	ontoso.msft es\Microsoft C	Configuration Manager\			Addresses	
Assets and Compliance	_								
취 Software Library									
Monitoring									
Administration									
Pearly	•								

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

Status :

System Center 2012 Configuration Man.	ager (Connected to PR1 - SC2012_ConfigMgr_I	Primary Site) (Evaluation, 180 days left)	×
Home			^ Ø
😻 🎁 🖻	😥 🏇 🎒	Show Instal	Status 👔 🎒
Add Site Create Site Hierarchy System Roles System Server Settings	Saved Add Site Create Site (Searches • System Roles System Server Seco	Create Retry Upgrade Create Retry Delete	Settings Set Security Properties Scopes
Create Sites	Search	Site	Classify Properties
← → ▼ 📳 \ ► Administration ►	Overview Site Configuration Sites		- 3
Administration <	Sites 2 items		
✓ I Overview	Search		Search Add Criteria -
Hierarchy Configuration	Icon Name	Type Server Name State	Site Code Parent Site Code
 Site Configuration 	PR1 - SC2012_ConfigMgr_Primary Site	Primary Primary.Contoso.msft Active	PR1 CAS
📭 Sites	SEC - SC2012_ConfigMgr_Secondary Site	Secondary SECONDARY.Contoso.msft Active	SEC PR1
Servers and Site System Roles			
Lient Settings			
Security	SC2012_ConfigMgr_Secondary Site	e	*
Distribution Points	General		Related Objects
Distribution Point Groups	Cite Code: and		Discovery Methods
Migration	Site Code: SEC Server Name: SECONDARY.C	ontoso.msft	
	Install Directory: C:\Program Fil	es\Microsoft Configuration Manager\	Addresses
	Build Number: 7711 State: Active		
	State. Active		
E Assets and Compliance			
👘 Software Library			
Monitoring			
Administration			
P			
кеаду			

24) The Secondary Site Installation Status message box appears displaying

the status of the installation of the secondary site :

Time Stamp 🔻	Туре	Status	Description	[
3/30/2012 8:42:03 AM	Bootstrap	Passed	Secondary site server bootstrap installation service succeeded	
3/30/2012 8:42:03 AM	Install	Passed	Secondary site server installation completed	
3/30/2012 8:42:03 AM	Install	Passed	Installation of secondary site server component manager servic	
3/30/2012 8:39:11 AM	Install	Passed	Begin installation of secondary site server component manager	
3/30/2012 8:39:11 AM	Install	Passed	Installation of secondary site server component manager succe	
3/30/2012 8:39:11 AM	Install	Passed	Begin installation of secondary site server component manager	
Ӯ 3/30/2012 8:39:11 AM	Install	Passed	Replication of secondary site server data from primary site serve	
🖉 3/30/2012 8:39:11 AM	Install	Passed	Begin replication of secondary site server data from primary site	
🖉 3/30/2012 8:39:11 AM	Install	Passed	Secondary site server control registration succeeded	
🖉 3/30/2012 8:38:45 AM	Install	Passed	Register secondary site server controls	
🖉 3/30/2012 8:38:45 AM	Install	Passed	Transfer of secondary site server installation files from parent pri	
🖉 3/30/2012 8:38:45 AM	Install	Passed	Begin transfer of secondary site server installation files from par	
2/30/2012 8:38:45 AM	Install	Passed	Creation of secondary site server database succeeded	
escription:				

25) Click OK , the secondary site appears in the list with a status of Active .

Click the Monitoring workspace, in the navigation pane, click Site Hierarchy:

System Center 2012

Configuration Manager RTM

Hierarchy Deployment Document

Image: Search Search All Saved Search Objects Searches * Settings Search As Scope Options Save Current Save Active Search Save Active Search Monitoring Image: Case of the search search as the search of the search Save Save State Save Image: Case of the search search as the search Save Image: Case of the search Image: Case of the search search as the search search as the search searc	- 8 ×
All Objects Saved Search Searches V Settings Options Save Current Save Current Search As Save Clear Active Search Scope Options Save Current Search As Save Active Search V Image: A monitoring + Overview + Site Hierarchy Monitoring Image: Active Search Search Search Active Search Image: Active Search Monitoring Image: Active Search Image: Active Search Image: Active Sear	^ 🕐
All Objects Saved Search Searches > Settings Save Current Save Current Clear Scope Options Save Active Search Options Save Active Search Scope Image: Comparison of the search of the search Active Search Monitoring Image: Comparison of the search Image: Comparison of the search of the search Save Image: Comparison of the search Image: Comparison of the search Image: Comparison of the search Image: Comparison of the search Image: Comparison of the search of the search Image: Comparison of the search Image: Comparison of the search of the searc	
Ail Save Search Search set Stave Current Clear Objects Search set Stave Current Search set Stave Current Clear Scope Options Save Active Search Active Search Image: Search set Stave Current Search set Stave Current Search set Stave Current Image: Search search search search Save Active Search Active Search Image: Search search search search search Search search Search search Image: Search	
Scope Options Save Active Search Image: Search with the search withe search with the search with the searc	
Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring Monitoring <td></td>	
Monitoring Monitoring Acris Queries CAS	- 2
Queries Queries CAS	
 Reporting Site Hierarchy System Status Deployments Client Status Database Replication Distribution Status 	
Software Update Point Synchroniza	
Actual Size Fit Screen	<u>"</u> <u> </u>
Navigator	
Assets and Compliance	
Software Library	
Monitoring	
Administration	- •

26) In the results pane , expand PR1 , the hierarchy appears in the Sites view ,



notice that the secondary site (SEC) now appears in the view under PR1 :

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

Switch to Central server , click the Administration workspace , expand Site

n Manager (Connected to CAS - SC2012_ConfigMgr_Central Administration Site) (Evaluation, 180 days left) _ 8 × -Home ^ 🕜 ** Ŕ * 1 Add Site Create Site System Roles System Server Hierarchy Settings Saved Searches • Create Sites Search ← → ▼ 🤑 \ → Administration → Overview → Site Configuration → Sites - 2 Administration Sites 3 items 🗙 🔎 Search 🛛 Add Criteria 🕶 Search A Overview Hierarchy Configuration State Site Code Parent Site Code Type Server Name CAS - SC2012_ConfigMgr_Central Administration Site
 CAS - Central.Contoso.msft
 Fig. Sites
 Pri - SC2012_ConfigMgr_Primary Site
 Primary Primary.Contoso.msft
 Servers and Site System Roles
 Sec - SC2012_ConfigMar_Secondary Site
 Secondary SECONDARY.Contoso.msft Active CAS Active PR1 CAS Servers and Site System Roles 🕴 SEC - SC2012_ConfigMgr_Secondary Site Secondary SECONDARY.Contoso.msft Active SEC PR1 Nettings 📡 Security Distribution Points 造 Distribution Point Groups Migration Assets and Compliance 👘 Software Library Monitoring Administration Ready

Configuration , click Sites , you can see all sites server :

28) Click Servers and Site System Roles , you can see all site server system

roles, the Central server default roles:

System Center 2012

Configuration Manager RTM

Hierarchy Deployment Document

Selected Object System	n Center :	2012 Configuration Manage	r (Connected to C	AS - 5C2012_Co	nfigMgr_Central Adr	ministration Site)	(Evaluation, 180 d	ays <u>- 6 ×</u>
Home Site Role								^ 🕜
Remove Role Site Role Properties								
🗲 🔶 🔹 💽 🔪 ১ 🕨 Administration	 Overvi 	iew 🕨 Site Configuration 🕨	Servers and Site	System Roles				- 2
Administration <	Servers	and Site System Roles 3 iten	ıs					
 Overview 	Search						🗙 🔎 Search	Add Criteria 🔻
 Hierarchy Configuration 	Icon	Name	Site Code	Count of roles				
🔺 🚞 Site Configuration	8	\\Central.Contoso.msft	CAS	4				
🕎 Sites		\\Primary.Contoso.msft	PR1	6				
Servers and Site System Roles		\\SECONDARY.Contoso.msft	SEC	6				
Lient Settings								
Security								
Distribution Points								
Distribution Point Groups	Site 9	System Roles						~
Migration	Icon	Role Name	Role Description					
	P	Component server	Any server that n	uns the SMS Exec	cutive service.			
	1	Site database server	A site system role	e that runs Micros	soft SQL Server and h	nosts the Configura	ation Manager sit	
	-	Site server	The main site sys	tem role that hos	sts the Configuration	Manager compone	ents and services.	
	3	Site system	A server or serve	r share that hosts	s one or more site sy	stem roles for a Co	onfiguration Man	
Assets and Compliance								
👘 Software Library								
Monitoring								
Administration								
▼ Readv								

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

🂱 Add Site	System Roles W	Vizard	×
	System Role Selec	tection	
General System Role	e Selection	Specify roles for this server	
Summary			
Progress		Available roles:	
Completion		Asset Intelligence synchronization point Endpoint Protection point Reporting services point System Health Validator point	
		Description:	
		<previous next=""> Summary Cancel</previous>	

30) The Primary server default roles :

System Center 2012

Configuration Manager RTM

Hierarchy Deployment Document

Selected Object System	n Center :	2012 Configuration Manage	r (Connected to C	AS - 5C2012_C	onfigMgr_(Central Admin	istration Site	e) (Evaluation, 180 (iays <u>- 5 ×</u>
Home Site Role									^ 😈
Remove Properties									
Site Role Properties									
	 Over 	iow b. Site Configuration b	Convers and Site	Surtem Bolan					
C - Administration	, overv	iew v site configuration v	Servers and Site	System Koles					× 1
Administration <	Servers	and Site System Roles 3 iter	ns						
 Overview 	Search							🗙 🔎 Search	Add Criteria 🔻
Hierarchy Configuration	Icon	Name	Site Code	Count of roles					
 Site Configuration 	8	\\Central.Contoso.msft	CAS	4					
Sites		\\Primary.Contoso.msft	PR1	6					
Servers and Site System Roles	<u>.</u>	\\SECONDARY.Contoso.msft	SEC	6					
Client Settings									
Security Security									
Distribution Point Groups									
Migration	Site	System Roles							~
2	Icon	Role Name	Role Description						
		Component server	Any server that r	uns the SMS Exe	ecutive serv	rice.			
		Distribution point	A Configuration I	Manager server r	role that sta	ages packages	for distribution	on to clients.	
		Management point	A site system rol	e that replies to	Configurati	on Manager cli	ient requests	and accepts mana	
		Site database server	A site system rol	e that runs Micro	osoft SQL S	erver and host	ts the Configu	uration Manager sit	
ssets and Compliance		Site server	The main site sy	stem role that ho	osts the Cor	nfiguration Ma	nager compo	nents and services.	
······································		Site system	A server or serve	r share that nos	is one or m	iore site syster	n roles for a	Configuration Man	
Software Library									
Monitoring									
Administration									
Produ									

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

💱 Add Site System Roles W	Vizard	×
System Role Select	ction	
General System Role Selection Summary Progress	Specify roles for this server	
Completion	Available roles: Application Catalog Web Service Point Application Catalog Website Point Brollment print Fallback status point Quit of band service point Reporting services point State migration point System Health Validator point	
	Description:	

32) The Secondary server default roles :

System Center 2012

Configuration Manager RTM

Hierarchy Deployment Document

Selected Object System	Center	2012 Configuration Manage	r (Connected to C	\5 - 5C2012_C or	nfigMgr_Central Administration Site) (Evaluation, 180	days & ×
Home Site Role						^ 😈
Remove Properties						
Role						
Site Role Properties						
🗲 🔶 🝷 🕵 🔪 Administration	 Overvi 	iew 🕨 Site Configuration 🕨	Servers and Site 9	System Roles		- 2
Administration <	Servers	and Site System Roles 3 iter	ns			
Overview	Search				🗙 🔎 Search	Add Criteria 🔻
Hierarchy Configuration	Icon	Name	Site Code	Count of roles		
🔺 🚞 Site Configuration		\\Central.Contoso.msft	CAS	4		
🛱 Sites	<u>E</u>	\\Primary.Contoso.msft	PR1	6		
🔯 Servers and Site System Roles		\\SECONDARY.Contoso.msft	SEC	6		
🖳 Client Settings						
Security						
Distribution Points						
Distribution Point Groups	Site S	System Roles				~
	Icon	Role Name	Role Description			
	P	Component server	Any server that ru	ins the SMS Exec	cutive service.	
	1	Distribution point	A Configuration M	lanager server ro	ole that stages packages for distribution to clients.	
	1	Management point	A site system role	that replies to C	Configuration Manager client requests and accepts mana.	
	*	Site database server	A site system role	that runs Micros	soft SQL Server and hosts the Configuration Manager sit.	
* A - 16 F		Site server	The main site sys	tem role that hos	sts the Configuration Manager components and services.	
Assets and Compliance		Site system	A server or server	share that hosts	s one or more site system roles for a Configuration Man.	-
👘 Software Library						
Monitoring						
Administration						
•						
Ready						

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

🂱 Add Site	System Roles W	lizard	×
	System Role Selec	ction	
General	e Selection	Specify roles for this server	
Summary	e selection		
Progress		Available roles:	
Completion		State migration point	9
		Description:	
		<previous next=""> Summary Cancel</previous>	

34) In the Monitoring workspace , click $\ensuremath{\textbf{Database Replication}}$, you can see

each with sites Link State is Link Active :

System Center 2012

Configuration Manager RTM

Hierarchy Deployment Document

System Center 2012 Configuration Ma	nager (Co	onnected to CA	\S - SC2012_	ConfigMgr_Central A	dministration	Site) (Evaluation, 180 days left)		- 8 ×
▼ Home								^ 🔞
		📿 Refresh						
Saved Save Connect Re Searches Diagnostic Files to Site	plication Li Analyzer	nk	Properties	3				
Search Database Re	plication		Properties	5				
🗲 🌖 👻 🚡 🔪 🕨 Monitoring 🕨	Overview	 Database 	Replication					- 2
Monitoring <	Databas	e Replication	2 items					
	Search						X 🔘 Search	Add Criteria 🔻
Alerts	Icon	Parent Site	Child Site	Link State	Desc	ription		
Queries		CAS	PR1	Link Active	Link	is active		
Reporting	6	PR1	SEC	Link Active	Link	is active		
🙀 Site Hierarchy								
🕨 🧮 System Status								
Poployments	Repli	ication Stat	tus					~
Client Status	Cito D	oplication Ctate				Clobal Data Replication Status		
🚡 Database Replication	Sile N	epiication Stati	45				,	
Distribution Status	Pare	ent Site:	PR	1 -lienting Anti-		Parent Site to Child Site Global State:	Link Active	
🚡 Content Status	Chile	d Site:	SE	C		Parent Site to Child Site		
bistribution Point Group Status	Chile	d Site State:	Re	plication Active		Global Synchronization	3/30/2012 9:34 AM	
Bistribution Point Configuration						Child Site to Parent Site		
Software Update Point Synchroniz						Global State: Last Synchronization Time:	2/30/2012 9:33 AM	
달 System Center 2012 Endpoint Prof						Global Data Initialization	0,00,2012 0100 444	
						Fercentage.		
						Site Data Replication Status		
Assets and Compliance						Child Cite to Decent Cite		
👘 Software Library						State:	Not Applicable	
Monitoring						Child Site to Parent Site Synchronization Time:		
Administration								
-	Summa	ry Parent Sit	te Child Site					
Ready	Carrino							

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



and mp had created in System Management container :

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

🛔 DNS Manager				_0
File Action View Help				
🗢 🔿 🙋 📅 🗙 🖬 🧟 🗟				
DNS DC DC Forward Lookup Zones DC Contoso.msft D Co	Name	Type Service Location (SRV) Service Location (SRV) Service Location (SRV) Service Location (SRV) Service Location (SRV)	Data [0][100][3268] dc.contoso.msft. [0][100][88] dc.contoso.msft. [0][100][464] dc.contoso.msft. [0][100][389] dc.contoso.msft. [0][0][389] dc.contoso.msft. [0][0][443] primary.contoso.msft. [0][0][443] secondary.contoso.msft.	Timestamp 3/28/2012 6 3/28/2012 6 3/28/2012 6 3/28/2012 6 3/29/2012 1 3/30/2012 8
	,			

Primary server and Secondary server MP SRV record :

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