Microsoft System Center 2012 Configuration Manager RTM Operating System Deployment

Apr .1 2012



1. Deploy Environment Introduction:

This operations process including four servers.

1. DC:

Role: ADDS + ADCS + DHCP

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. ConfigMgr2012:

Role: SC2012 ConfigMgr RTM + SC2012 ConfigMgr 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. Client:

Role: Domain Member and SC2012 ConfigMgr RTM Client

OS: Windows 7 Enterprise Edition with SP1 x64

IE: IE 9.0

IP: 192.168.0.200/24

DNS: 192.168.0.100

4. BareMetal:

2. Deploy Active Directory:

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

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

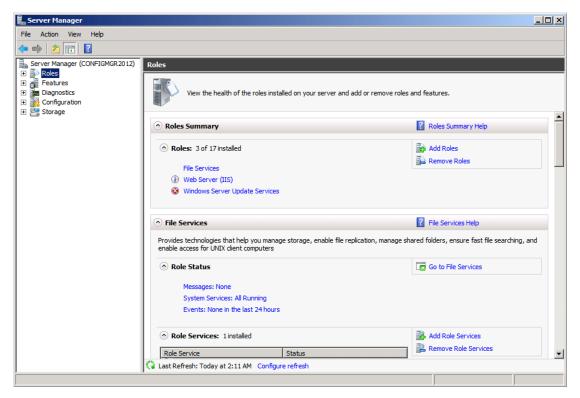
This process is no longer described in this part.

3. Deploy and Configure SC2012 ConfigMgr RTM:

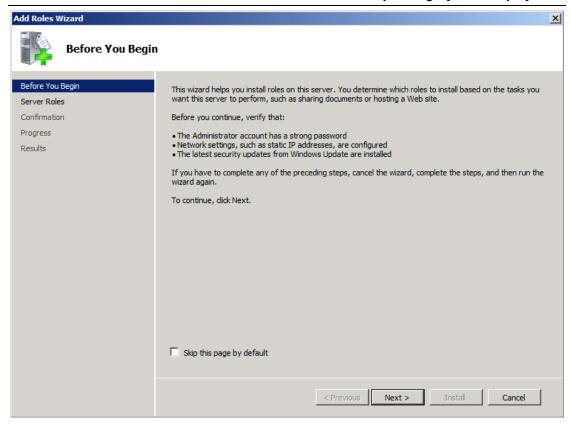
- This process is no longer described in this part. You can reference 《System
 Center 2012 Configuration Manager RTM Deployment Document》.
 - 2) Default as you have already deployed and no any error.
- 3) SC2012 ConfigMgr RTM need to configuration , about this part , you can reference 《 System Center 2012 Configuration Manager RTM Configure Document》

4. Configuring a Distribution Point to Support PXE:

Logon to ConfigMgr2012 server , on the Start menu , point to
 Administrative Tools , and then click Server Manager , in the tree pane , click
 Roles :

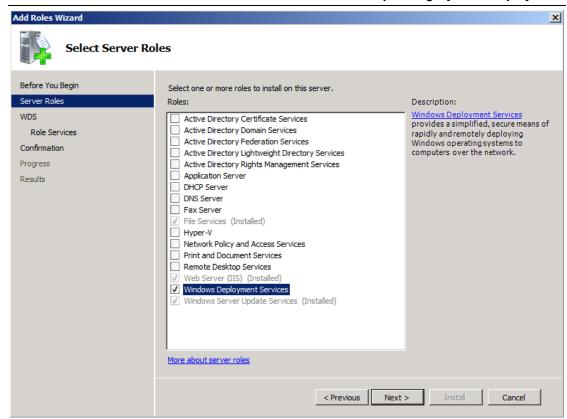


2) In the results pane , click Add Roles , the Add Roles Wizard Before You Begin dialog box appears :

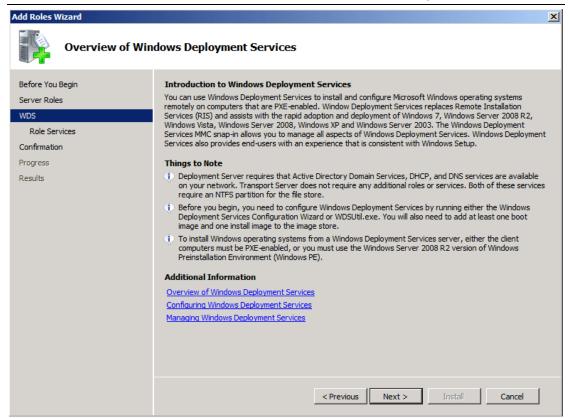


3) Click **Next**, the **Select Server Roles** dialog box appears, under **Roles**, click

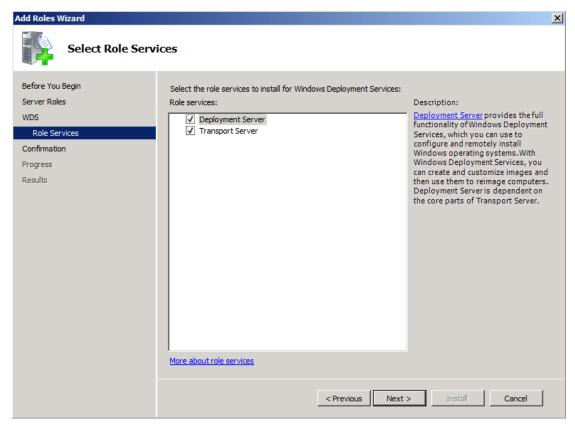
Windows Deployment Services:



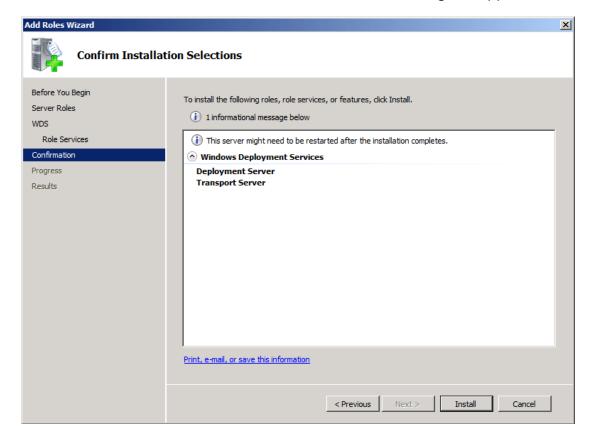
4) Click **Next**, the **Overview of Windows Deployment Services** dialog box appears:



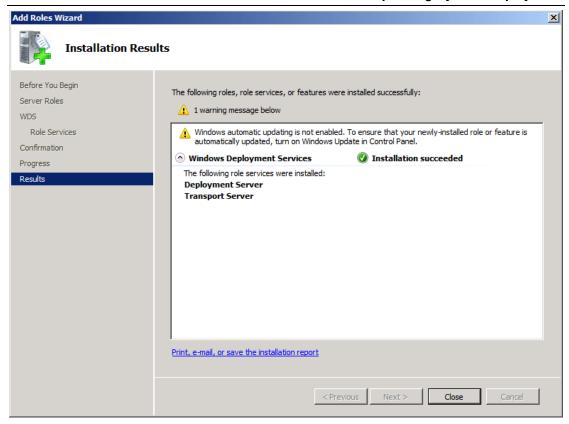
5) Click **Next**, the **Select Role Services** dialog box appears:



6) Click **Next**, the **Confirm Installation Selections** dialog box appears:

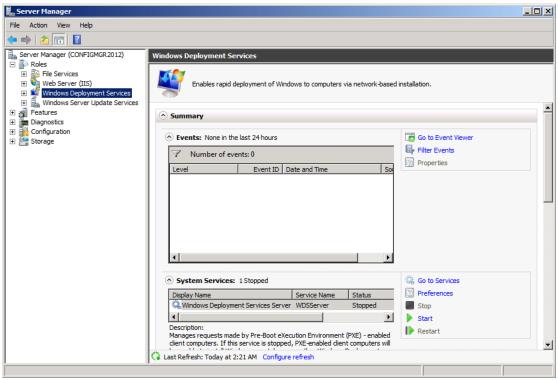


7) Click **Install** . The **Windows Deployment Services** role is installed . When complete , the **Add Roles Wizard Installation Results** dialog box appears indicating that the installation was successful :

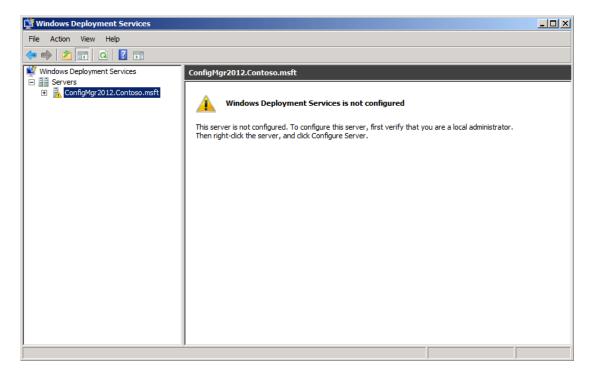


8) Click Close, the Server Manager window appears, the Windows

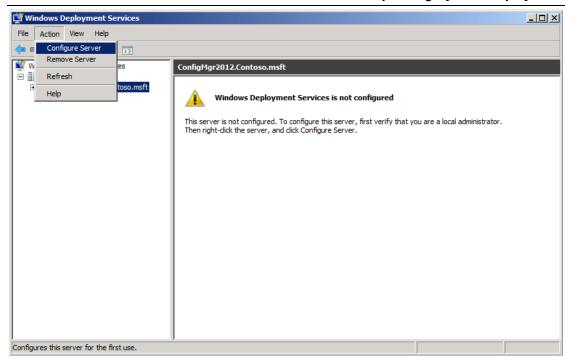
Deployment Services is now listed as an installed role:



9) Close Server Manager window . On the Start menu , point to Administrative Tools , and then click Windows Deployment Services , the Windows Deployment Services window appears , in the tree pane , expand Servers , and then click ConfigMgr2012.Contoso.msft :

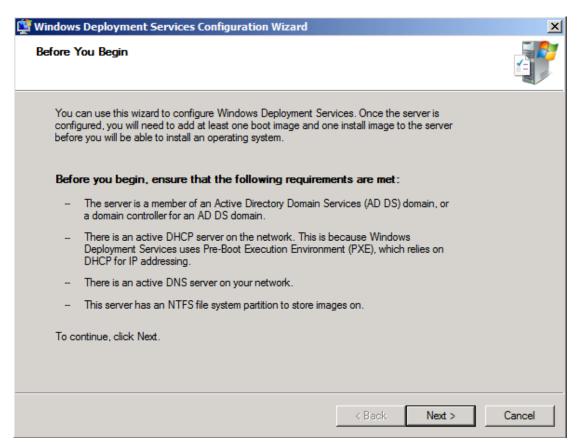


10) On the Action menu, click Configure Server:

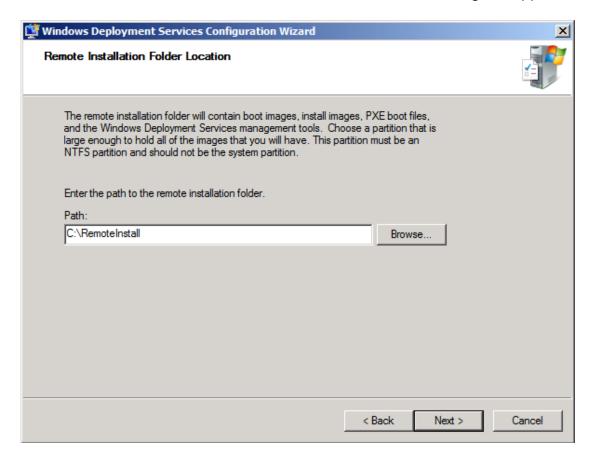


11) The Windows Deployment Services Configuration Wizard Before You

Begin dialog box appears:

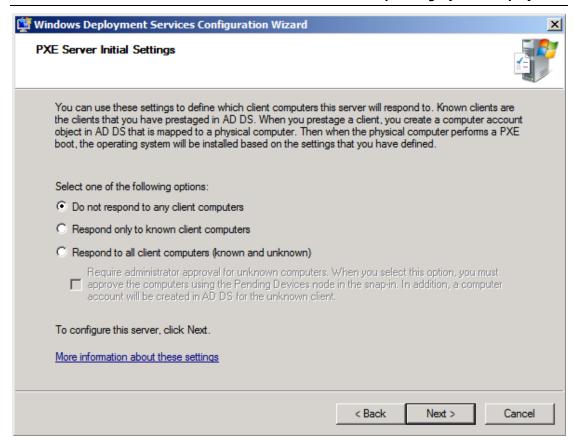


12) Click **Next**, the **Remote Installation Folder Location** dialog box appears:

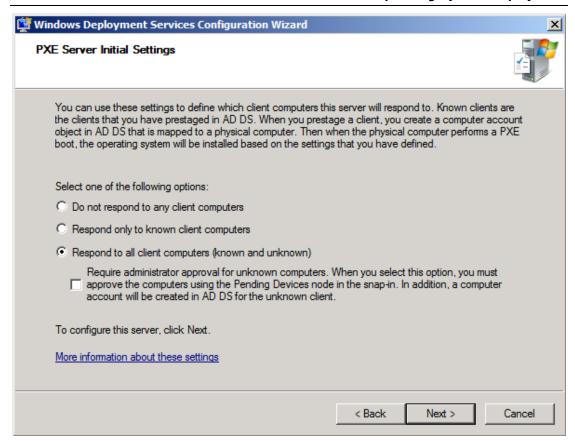


13) Enter the path and then click Next, the PXE Server Initial Settings dialog

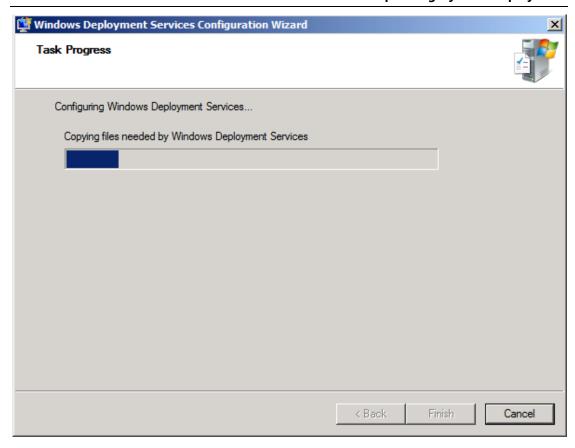
box appears:



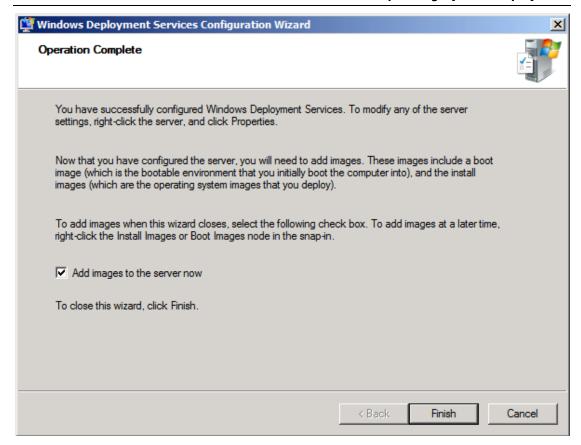
14) Click Respond to all client computers (known and unknown):



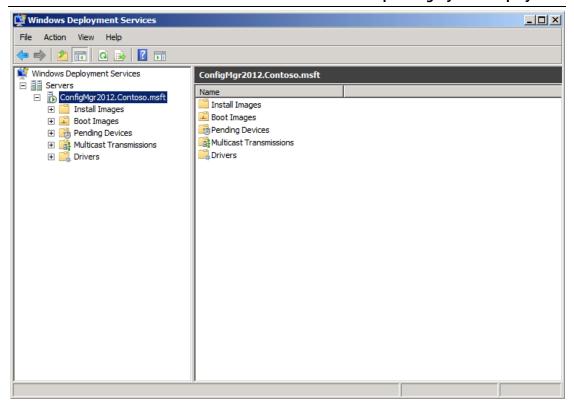
15) Click **Next**, the **Task Progress** dialog box appears:



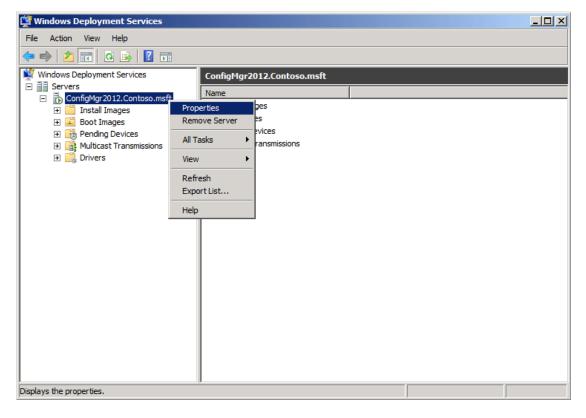
16) When complete, the **Operation Complete** dialog box appears:



17) Click to clear **Add images to the server now** , and then click **Finish** , notice that the server is now configured :

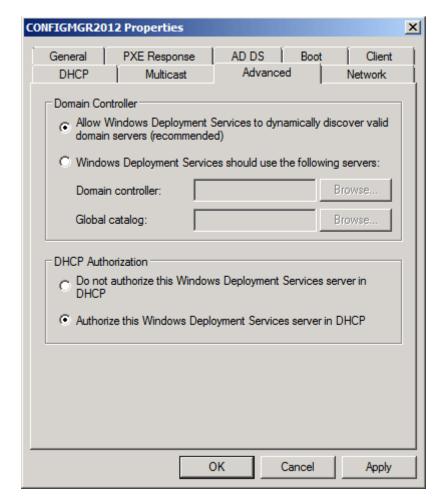


18) Right-click ConfigMgr2012.Contoso.msft , click Properties :

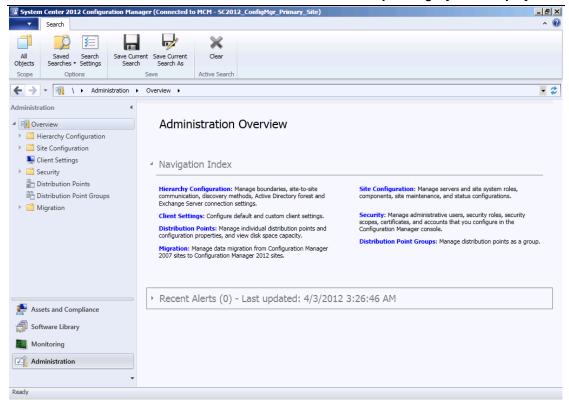


19) The ConfigMgr2012 Properties dialog box appears, click Advanced tab,

under the **DHCP Authorization** , click **Authorize this Windows Deployment**Services server in **DHCP**:

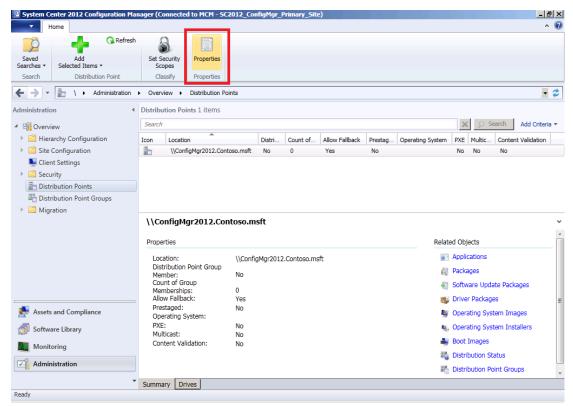


- 20) Click Apply --- OK . Close the Windows Deployment Services window.
- 21) On the **Start** menu , point to **All Programs** , point to **Microsoft System Center 2012** , point to **Configuration Manager** , and then click **Configuration Manager Console** , click the **Administration** workspace :

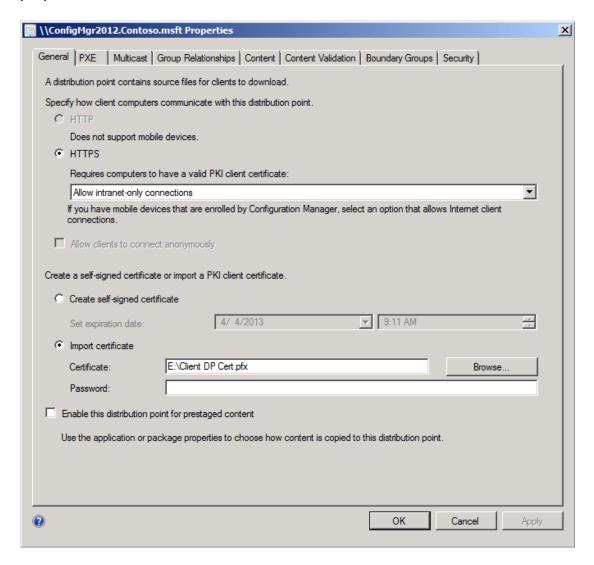


22) Click **Distribution Points** , in the result pane , click **ConfigMgr2012** , and

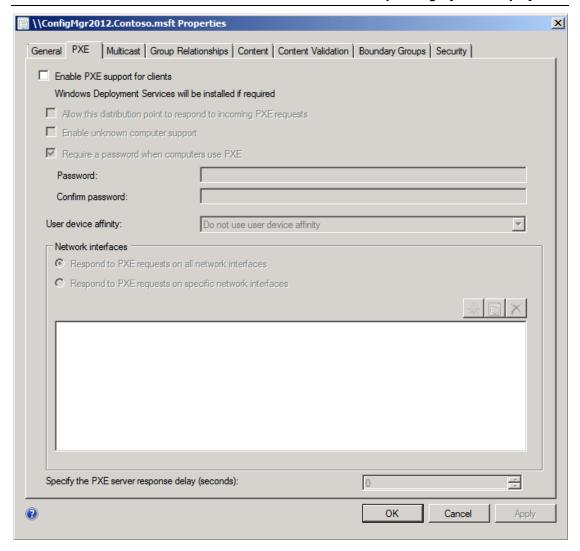
then on the Ribbon, click Properties:



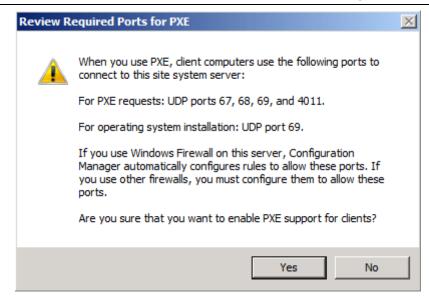
23) The **\\ConfigMgr2012** Properties dialog box appears displaying **General** properties :



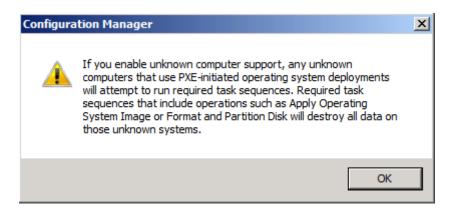
24) Click the PXE tab, the PXE tab displaying:



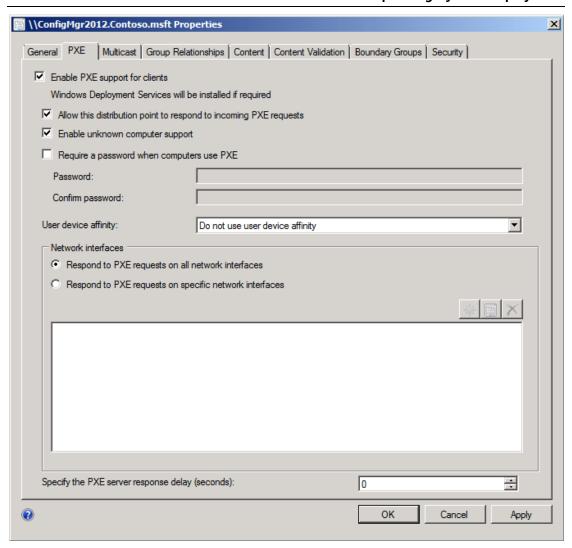
25) Select **Enable PXE support for clients**, a **Review Required Ports for PXE** message box appears indicating that specific ports (UDP 67,68,69 and 4011) must be opened in order to respond to PXE requests:



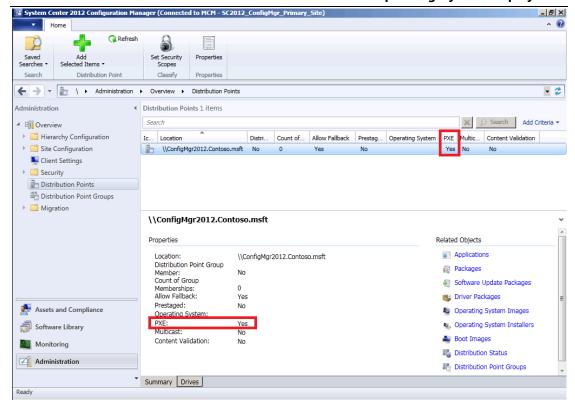
26) Click **Yes** to allow Configuration Manager to open those ports . Click to select both **Allow this distribution point to respond to incoming PXE requests** and **Enable unknown computer support**, a **Configuration Manager** message box appears indicating that with unknown computer support enabled , any unknown computers will attempt to install a new operating system from a mandatory task sequence , and thus may be reimaged and lose data :



27) Click **OK** and to clear **Require a password when computers use PXE**:

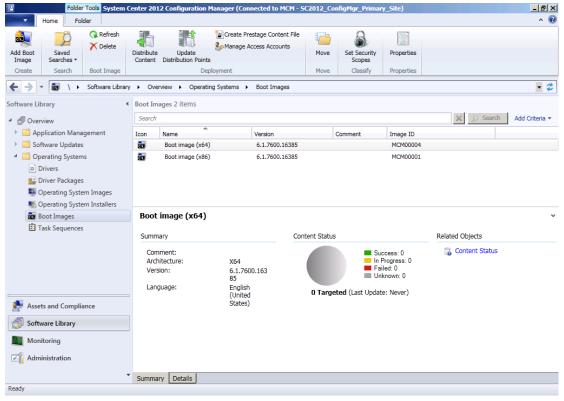


28) Click \mathbf{OK} , the distribution points appear in the results pane , you can see the \mathbf{PXE} status changed to \mathbf{Yes} :

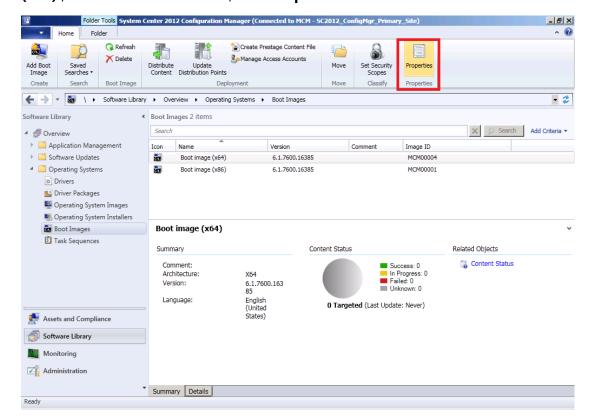


29) Click the **Software Library** workspace , expand **Operating Systems** , and

then click **Boot Images**:

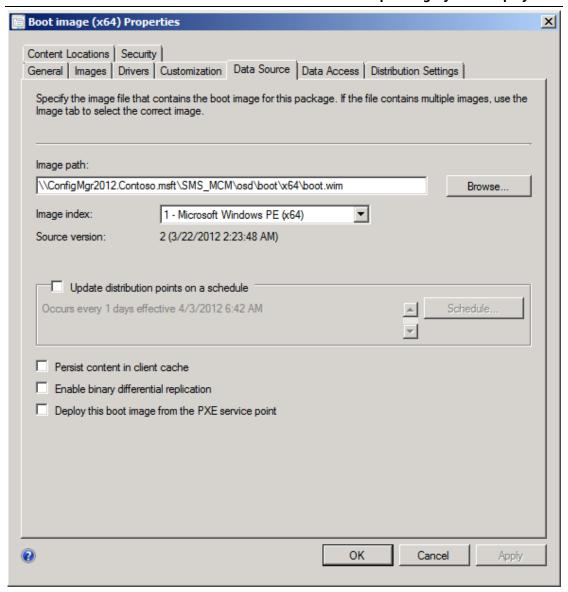


30) The list of boot images appear in the results pane . Click **Boot image** (x64) ,and then on the Ribbon , click **Properties** :

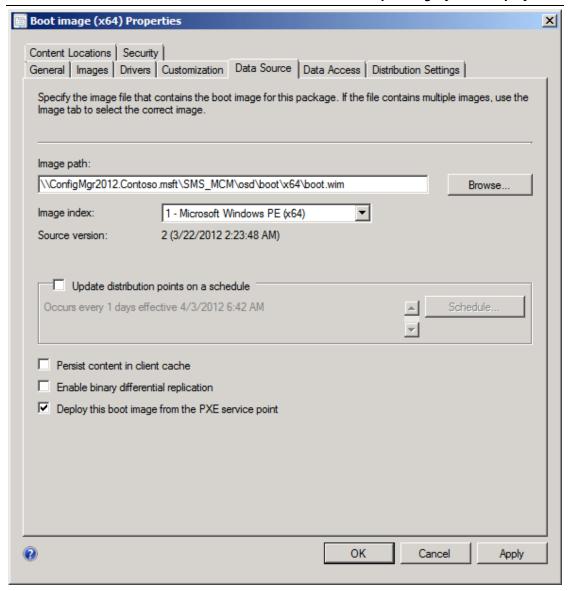


31) The **Boot image (x64) Properties** dialog box appears , click the **Data**

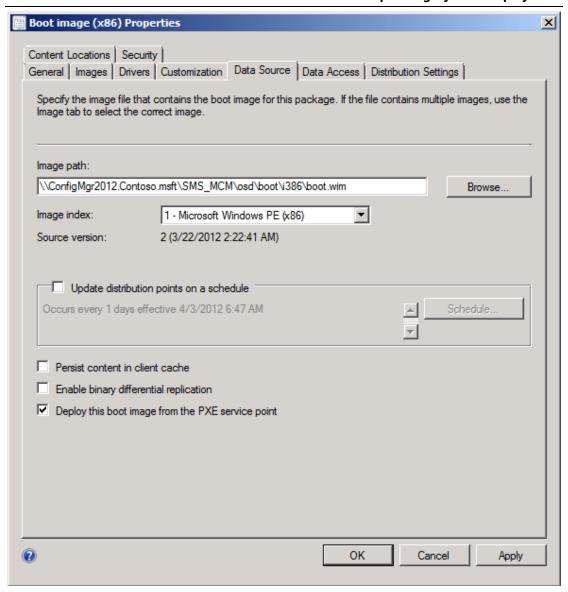
Source tab:



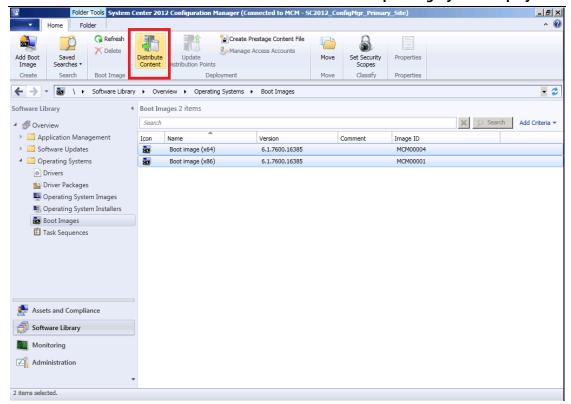
32) Select Deploy this boot image from the PXE service point :



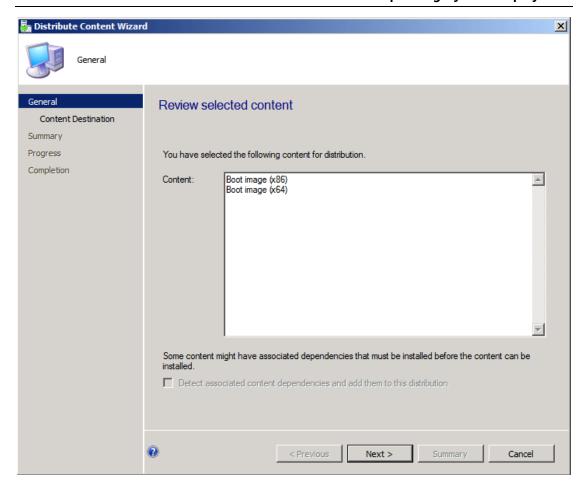
33) Click **OK** . Repeat this steps to enable PXE deployment support for the 32-bit boot image :



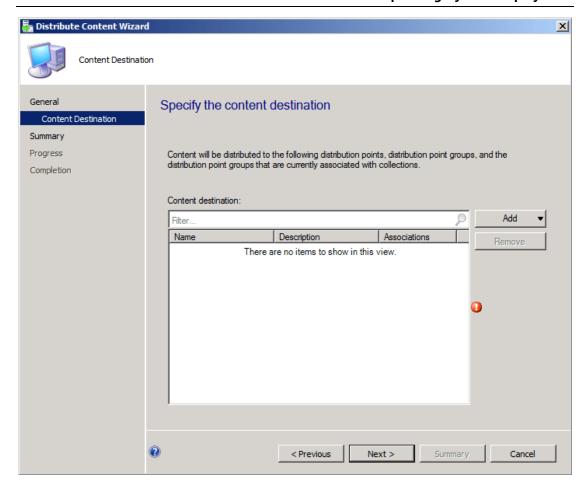
34) Multi-select both **Boot image (x64)** and **Boot image (x86)**, and then on the Ribbon, click **Distribute Content**:



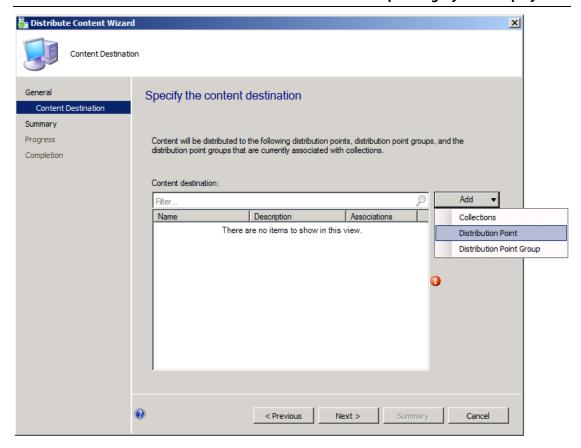
35) The **Distribute Content Wizard General** dialog box appears:



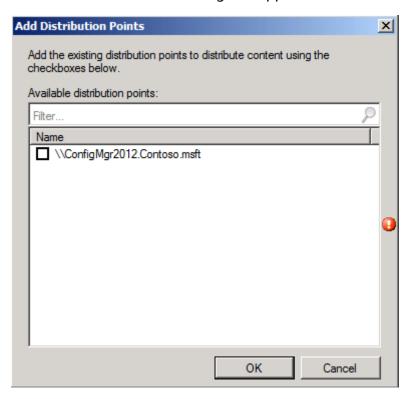
36) Click ${f Next}$, the ${f Content\ Destination}$ dialog box appears :



37) Click Add, click Distribution Point:

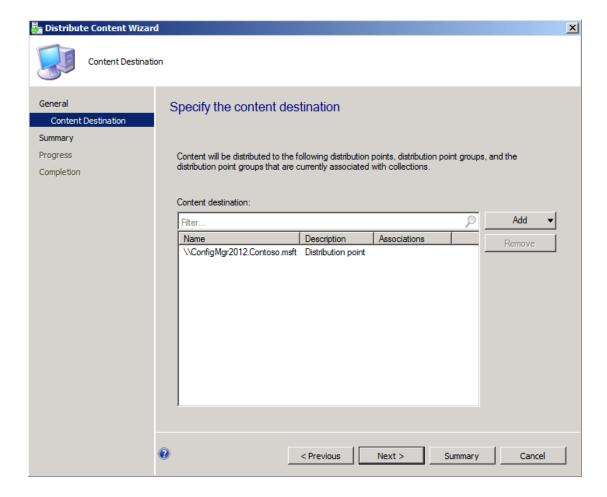


38) The Add Distribution Points dialog box appears :

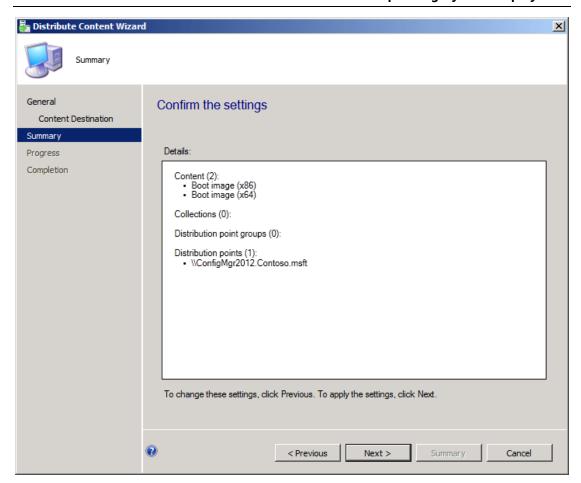


39) Under Available distribution points, click to select DP server and then

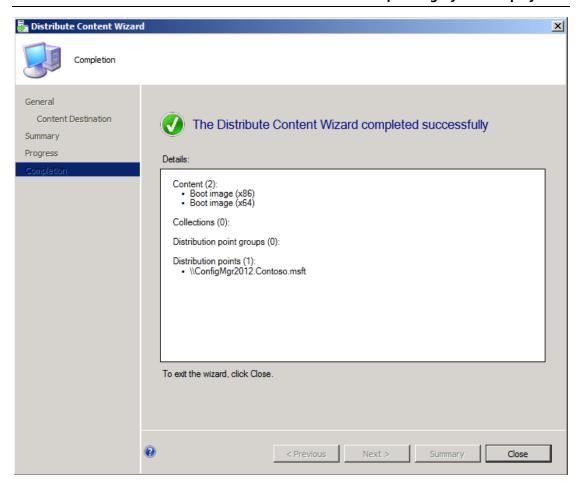
click **OK**:



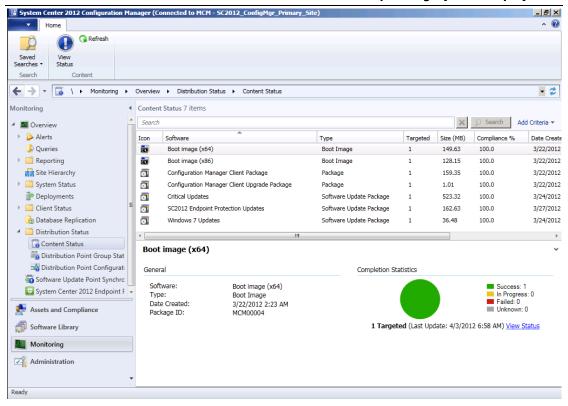
40) Click Next, the Summary dialog box appears:



41) Click **Next**, the **Completion** dialog box appears indicating that the wizard completed successfully :



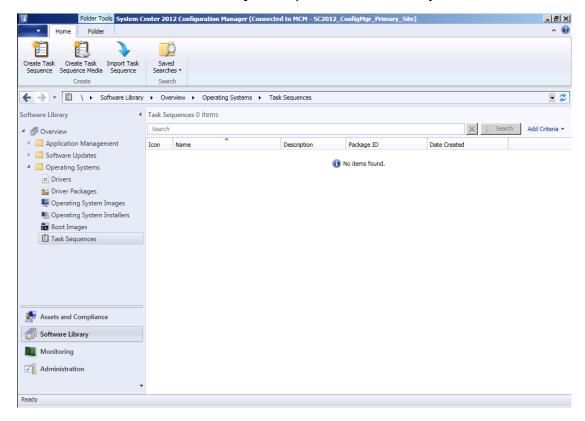
42) Click **Close** , and then click the **Monitoring** workspace , expand **Distribution Status** , and then click **Content Status** :



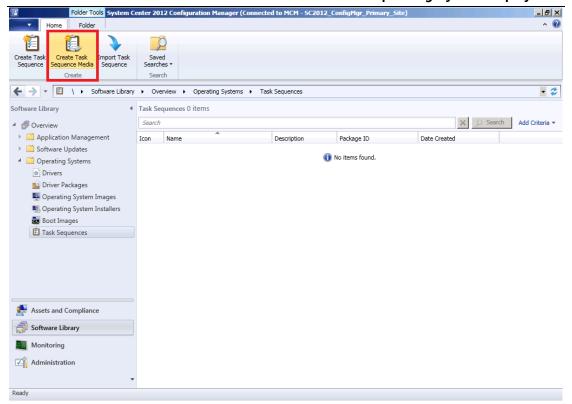
43) The content distribution status appears in the results pane. Notice that the content for both boot images have been successfully distributed to your distribution point .

5. Capturing a Reference Computer:

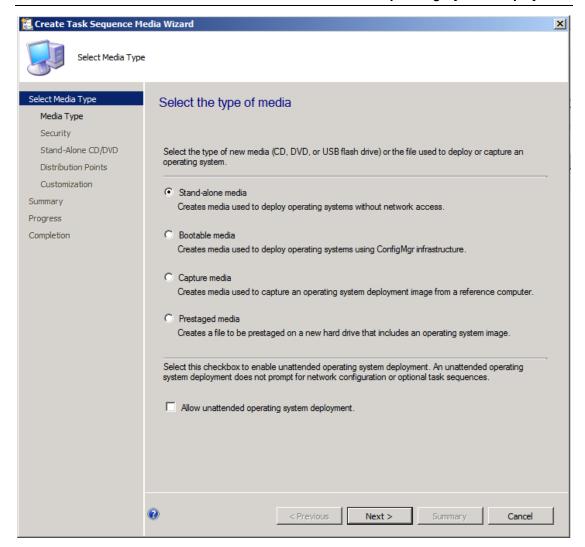
1) Click the **Software Library** workspace, click **Task Sequences**:



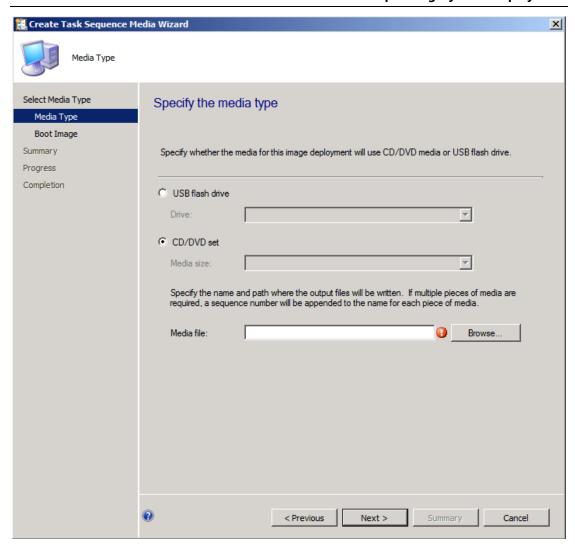
2) On the Ribbon , click Create Task Sequence Media :



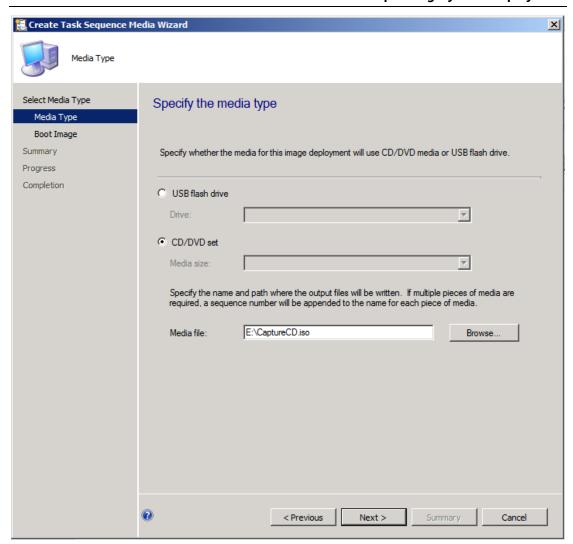
3) The Create Task Sequence Media Wizard Select Media Type dialog box appears :



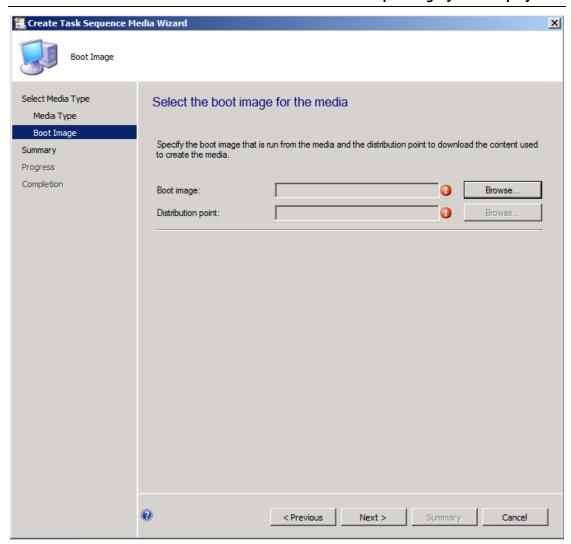
4) Click **Capture media** , and then click **Next** , the **Media Type** dialog box appears :



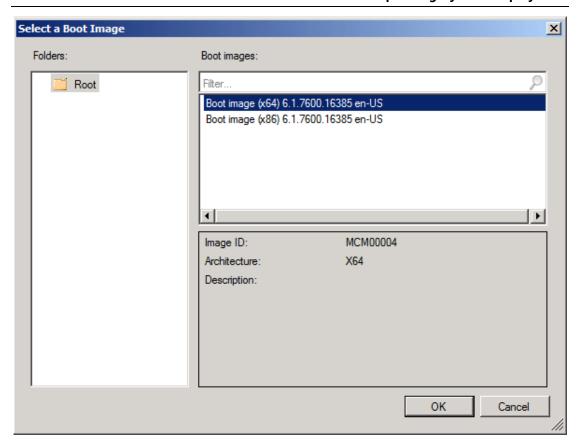
5) In the **Media file** box , type a path :



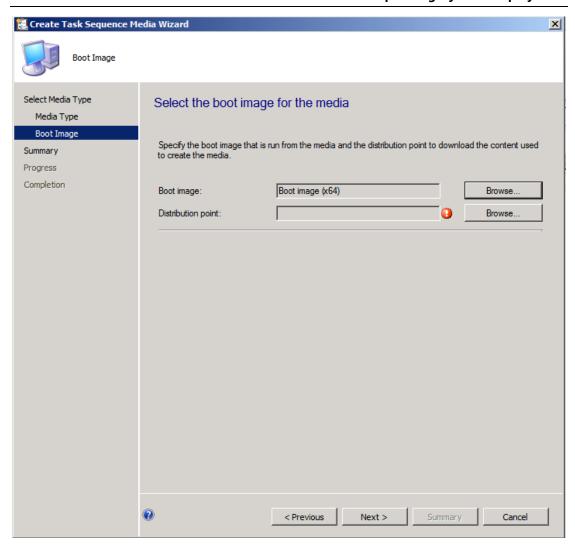
6) And then click **Next**, the **Boot Image** dialog box appears:



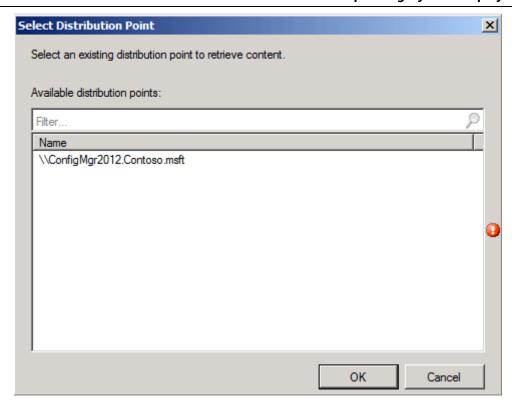
7) After **Boot image** , click **Browse...** , the **Select a Boot Image** dialog box appears :



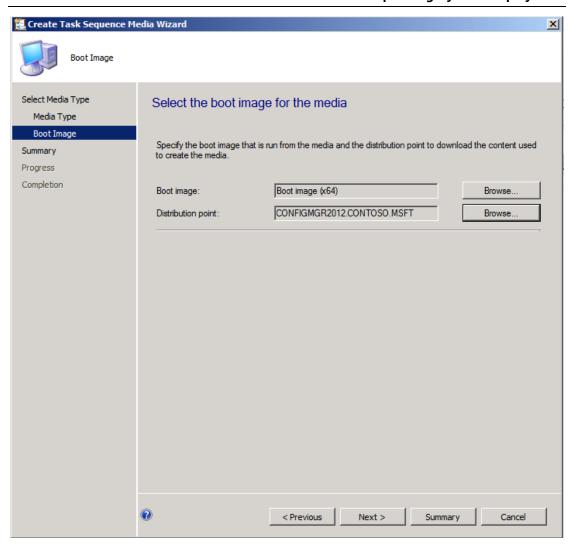
8) Under **Boot images**, click **Boot image (x64)**, and then click **OK**, the **Boot Image** dialog box appears :



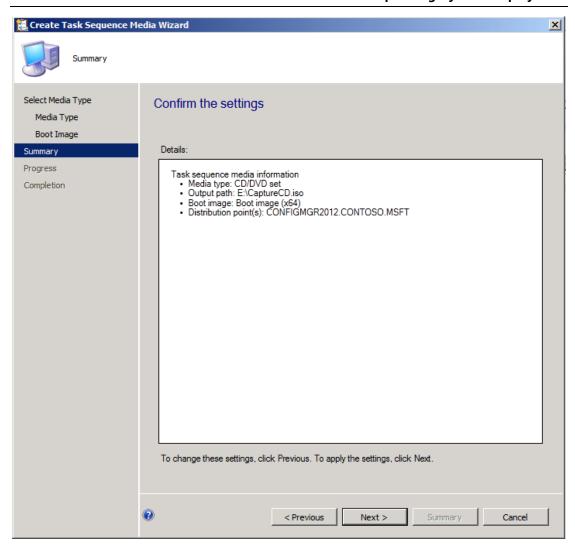
9) After **Distribution point**, click **Browse...**, the **Select Distribution Point** dialog box appears :



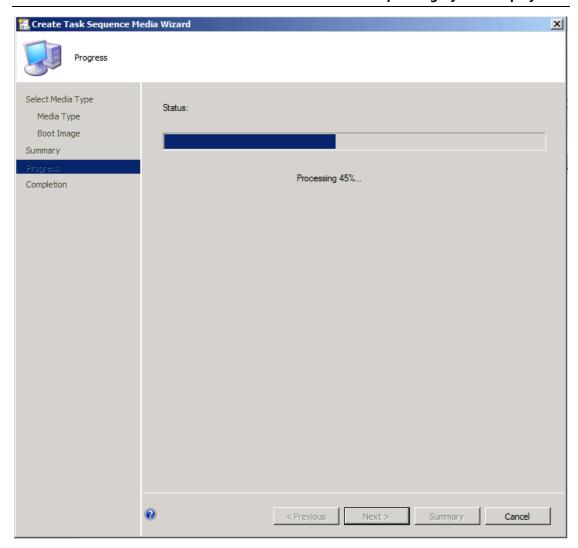
10) Under Name , click DP , and then click OK , the $\textbf{Boot\ Image}$ dialog box appears :



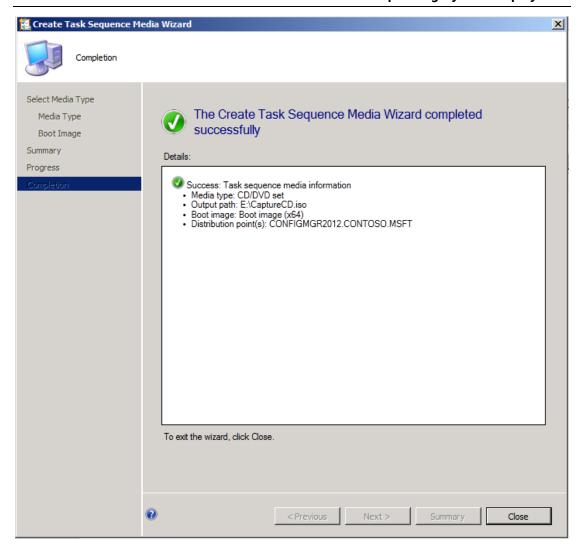
11) Click **Next**, the **Summary** dialog box appears:



12) Click Next, the Progress dialog box appears:



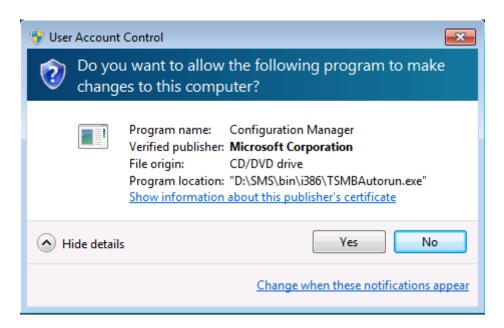
13) Wait some seconds , the **Completion** dialog box appears indicating that the wizard successfully created the capture media :



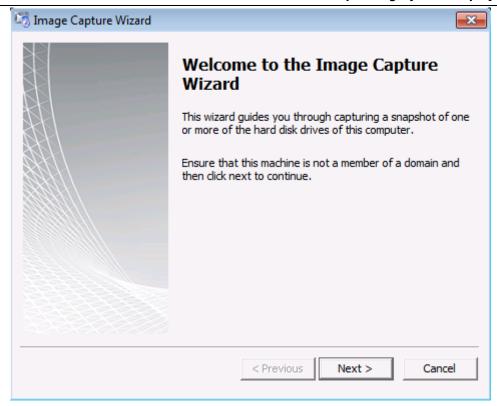
- 14) Click **Close** . You can find the **CaptureCD.iso** file and you need to burn it to a physical CD .
- 15) You will prepare the Windows 7 client computer to be captured , the reference computer cannot be domain joined , so you will remove the client from the domain for capturing . Remove the **Client** computer from the Contoso.msft domain , and restart the computer and logon as LocalAdmin . Insert CaptureCD image , will display :



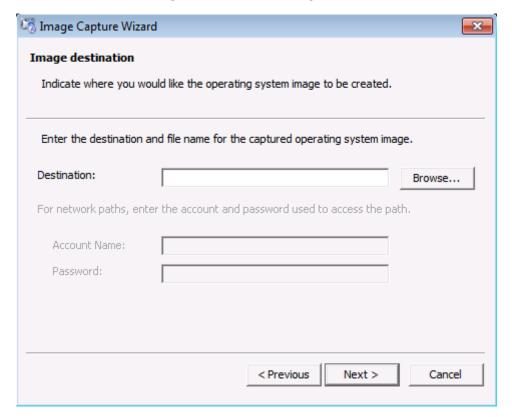
16) Click **Run TSMBAutorun.exe** , a **User Account control** message box appears prompting :



17) Click **Yes**, the **Image Capture Wizard Welcome to the Image Capture Wizard** dialog box appears:

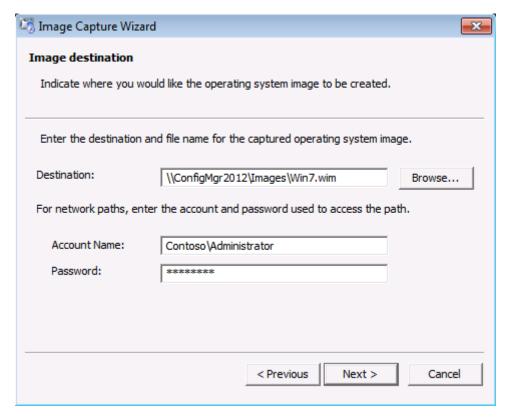


18) Click **Next**, the **Image destination** dialog box appears:

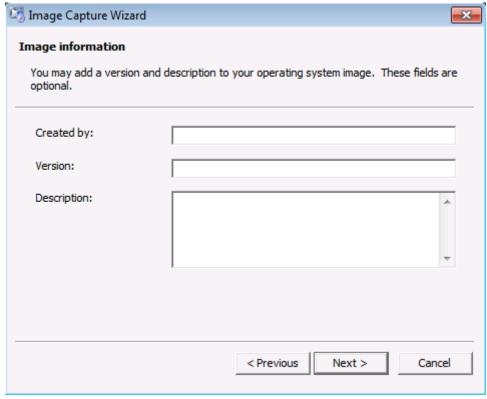


19) In the **Destination** box , type a path and captured image name , in the

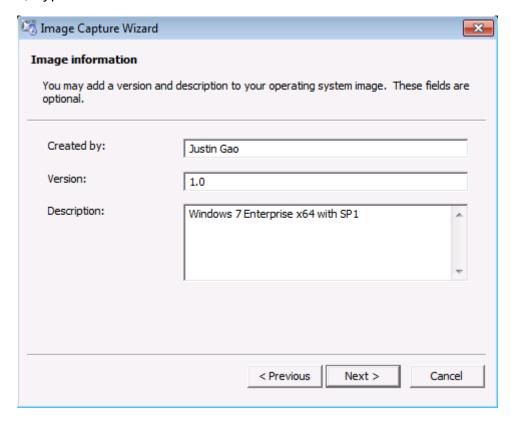
Account Name and Password box , type Domain\User information :



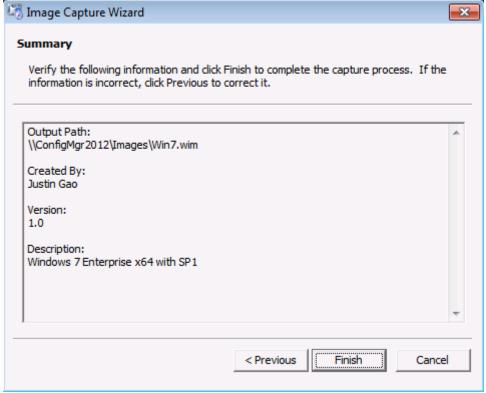
20) Click **Next**, the **Image information** dialog box appears:



21) Type related information:



22) Click Next, the Summary dialog box appears:



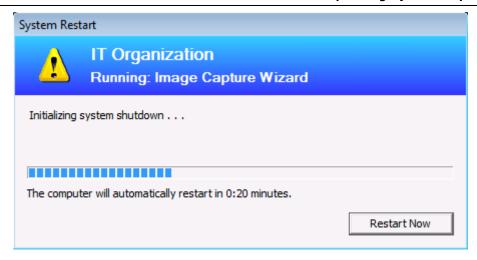
23) Click **Finish**, the image capture preparation process begins. When ready, an **Installation Progress** message box appears displaying the progress of the image preparation process:



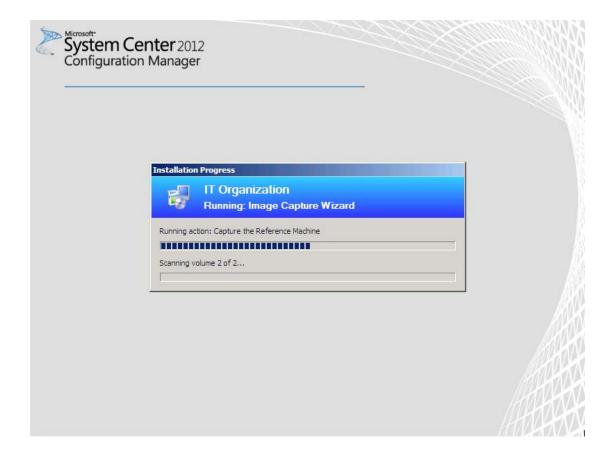
24) Part of the capture process involves running sysprep on the computer to depersonalize the system for imaging :

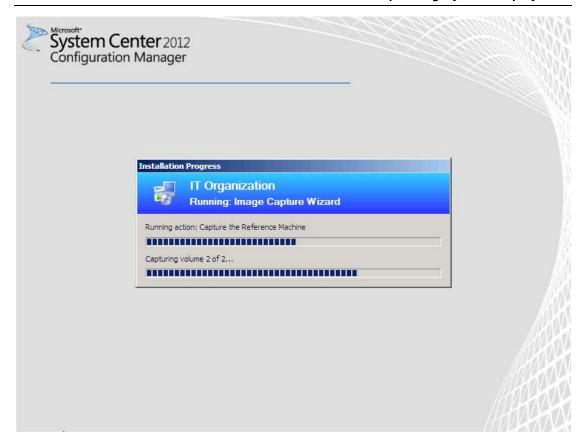


25) After sysprep has completed , the computer will restart automatically and boot using the boot image that was configured for the capture media :

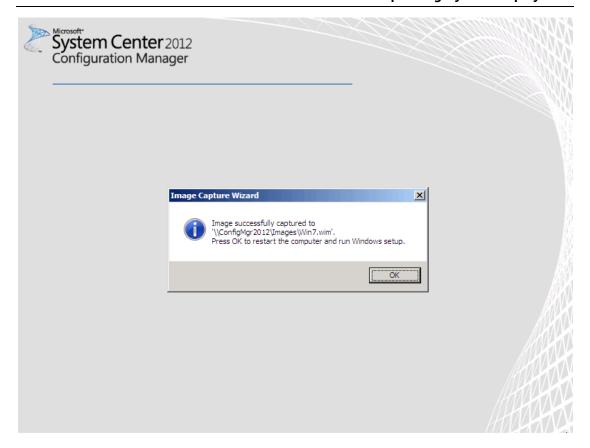


26) After the computer restart, an **Installation Progress** message box appears again as part of the capture process. Notice that the **Installation Progress** message box indicates that it is currently running the **Image Capture Wizard**:

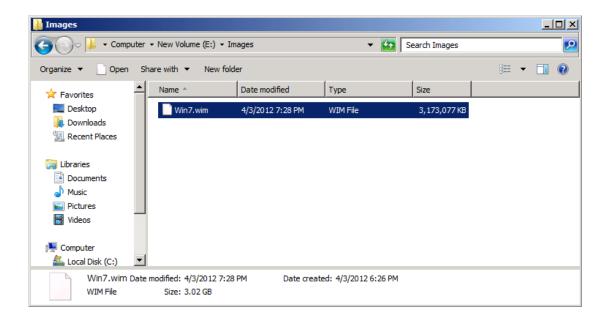




27) This process may take over an hour to complete , depending on the hardware used in your own environment . When completed , a **Image Capture**Wizard will displaying :

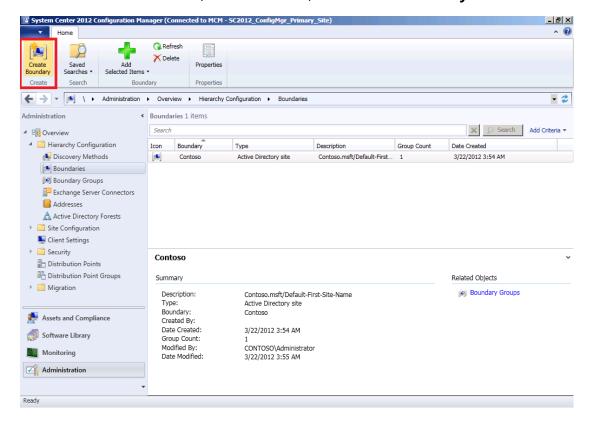


28) Click **OK** and shutdown this computer . You can see this captured image in **Images** folder on **ConfigMgr2012** server :

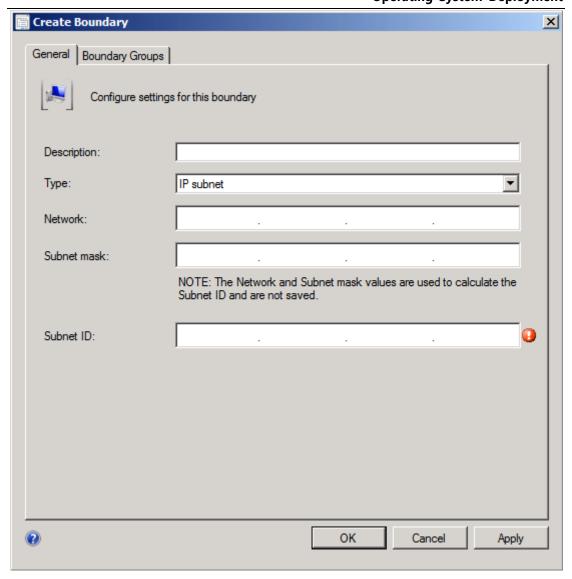


6. Preparing the Site to Support Operating System Deployment:

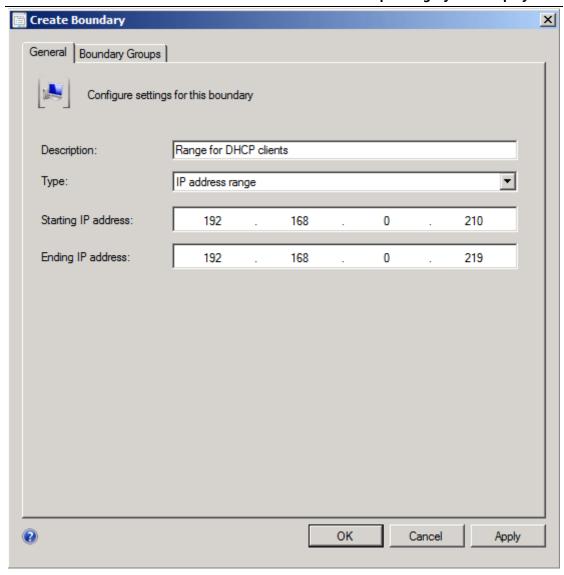
Click the Administration workspace , expand Hierarchy Configuration ,
 and then click Boundaries , on the Ribbon , click Create Boundary :



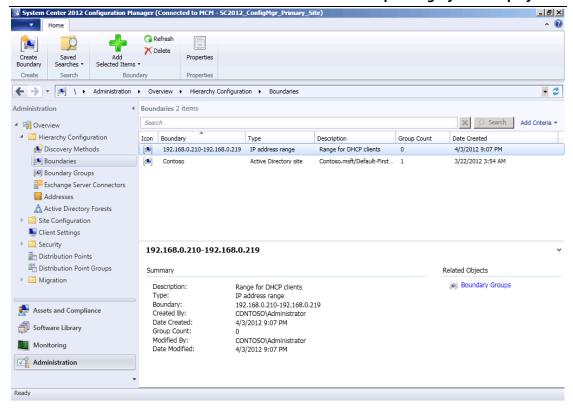
2) The **Create Boundary** dialog box appears:



3) Type related information:

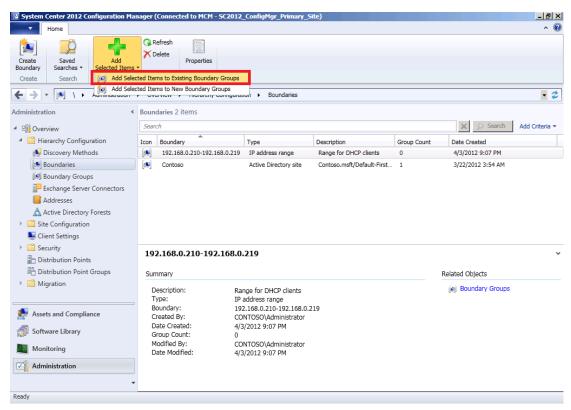


4) Click **OK**, there are now two boundaries in the site:

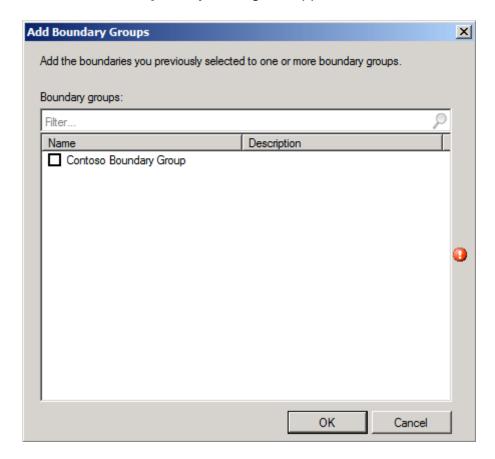


5) Click new created boundary, and then on the Ribbon, click Add Selected

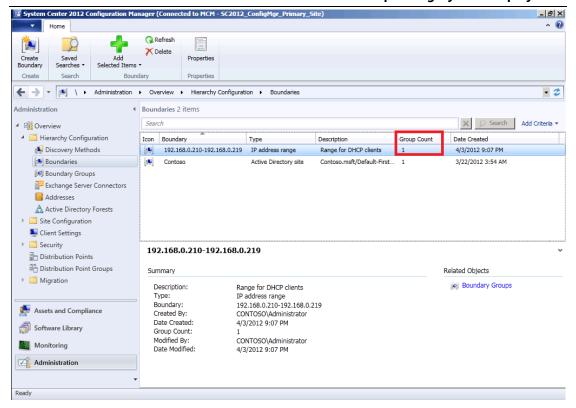
Items, and then click Add Selected Items to Existing Boundary Groups:



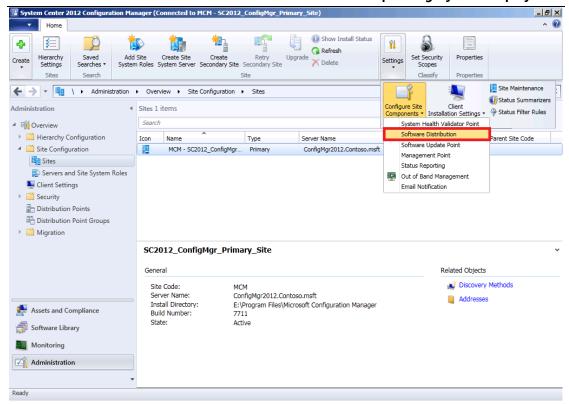
6) The **Add Boundary Groups** dialog box appears:



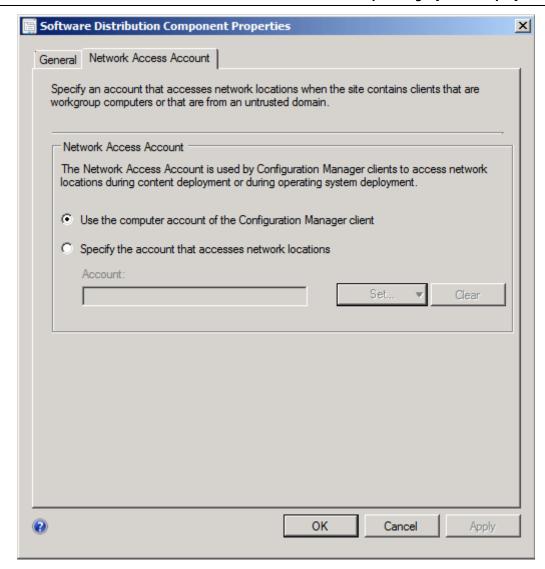
7) Click to select **Contoso Boundary Group** , and then click **OK** , the list of boundaries appears in the results pane . Notice that new boundary created is now a member of one group :



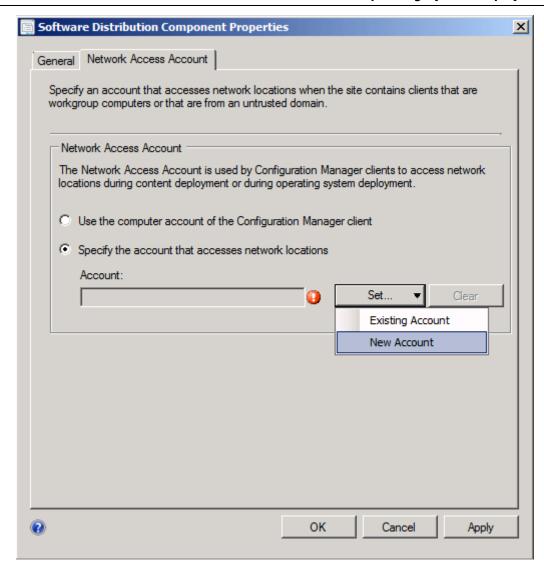
8) Expand **Site Configuration**, and then click **Sites**, on the Ribbon, click **Settings**, click **Configure Site Components**, and then click **Software Distribution**:



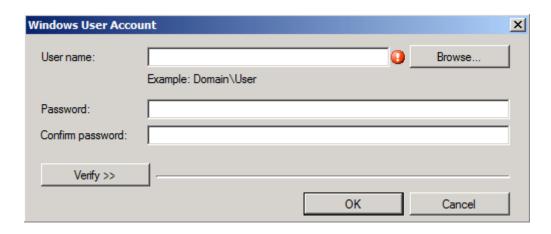
9) The **Software Distribution Component Properties** dialog box appears , click the **Network Access Account** tab :



10) Click **Specify the account that accesses network locations** , and then click **Set...** ,then click **New Account** :

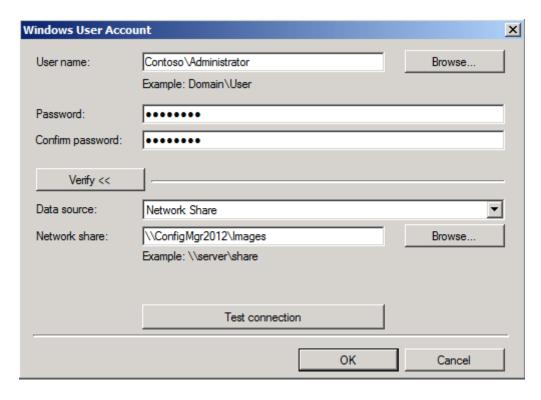


11) The Windows User Account dialog box appears :

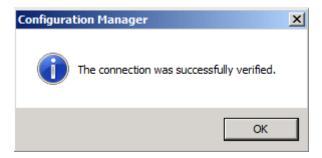


12) Type a user account and password and then click Verify , in the Network

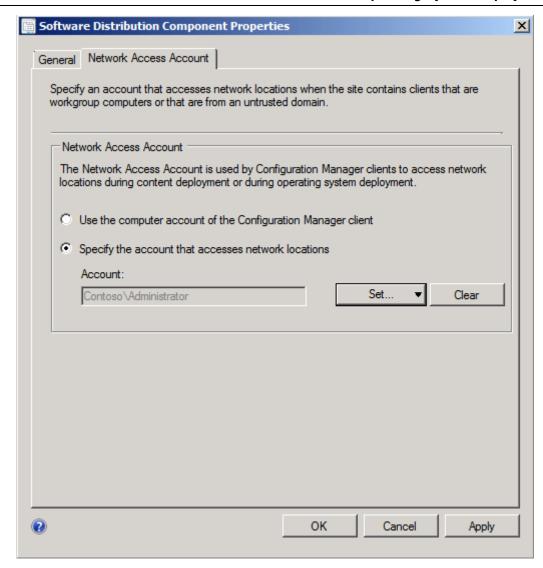
share box , type \\ ConfigMgr2012\Images :



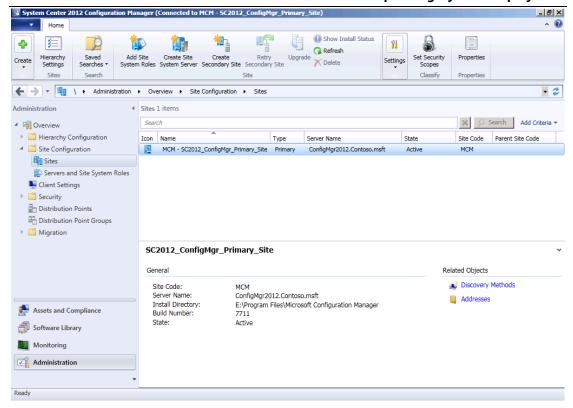
13) And then click **Test connection** , a **Configuration Manager** message box appears :



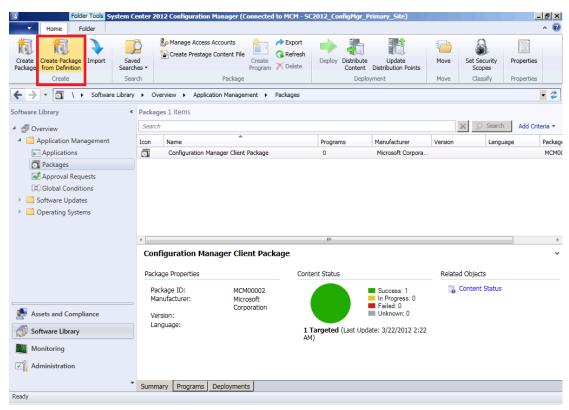
14) Click **OK** twice , the **Software Distribution Component Properties** dialog box appears , notice that there is now a network access account specified :



15) Click **OK**, the list of sites appears in the results pane:

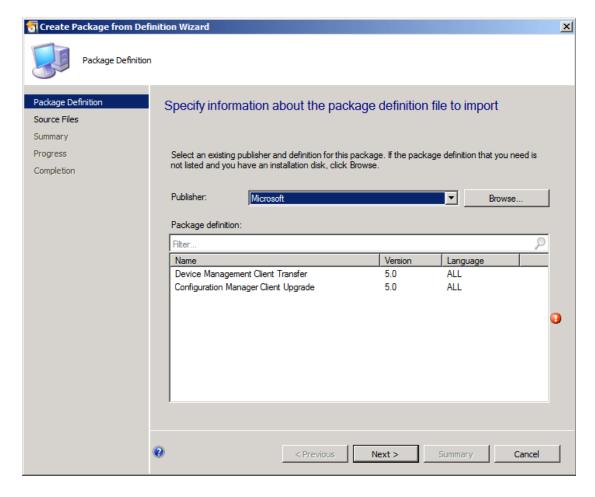


16) Click the **Software Library** workspace, expand **Application Management**, and then click **Packages**, on the Ribbon, click **Create Package from Definition**:

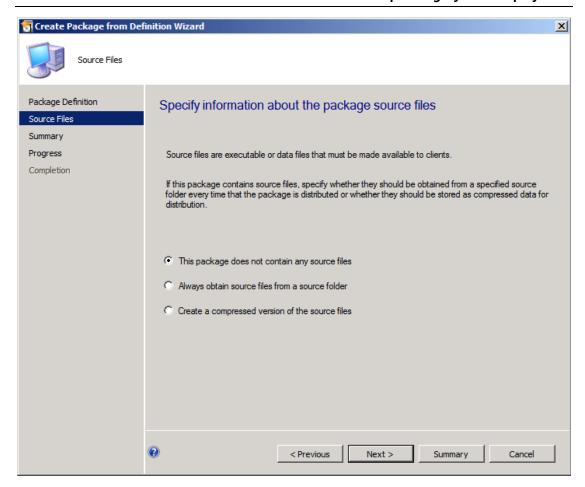


17) The Create Package from Definition Wizard Package Definition dialog

box appears:

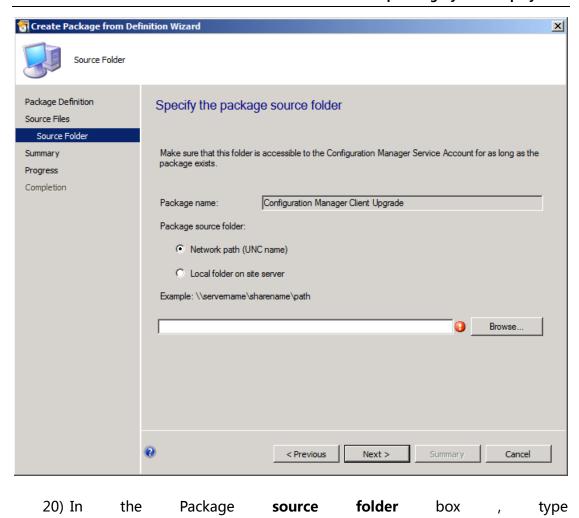


18) Under **Package definition**, click **Configuration Manager Client Upgrade**, and then click **Next**, the **Source Files** dialog box appears:

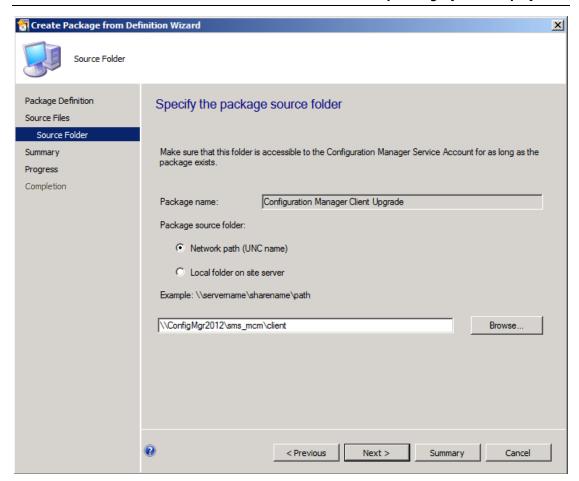


19) Click Always obtain source files from a source folder , and then click

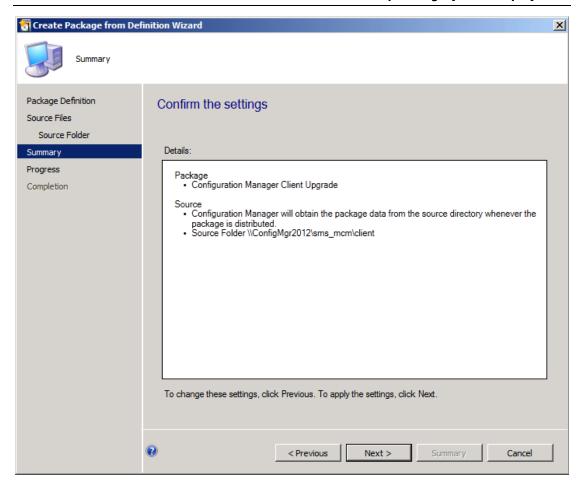
Next, the Source Folder dialog box appears:



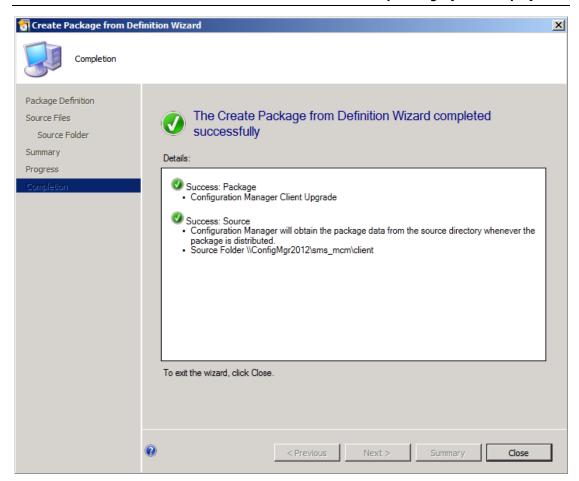
\\ConfigMgr2012\sms_mcm\client:



21) Click Next, the Summary dialog box appears:

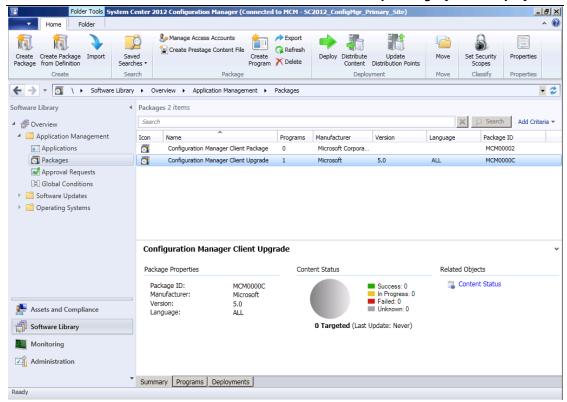


22) Click **Next**, the **Completion** dialog box appears indicating that the wizard successfully created the package :

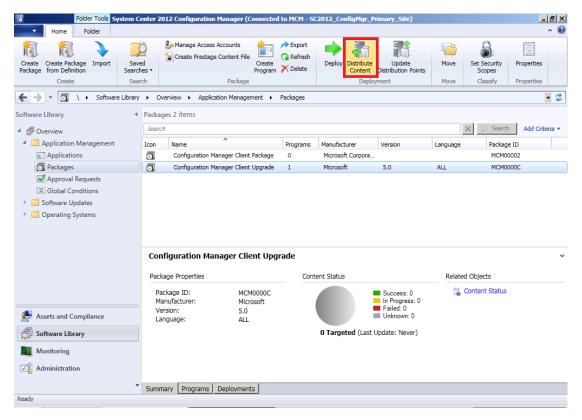


23) Click **Close** . The list of packages appears in the results pane , notice that the **Configuration Manager Client Upgrade** package is listed :

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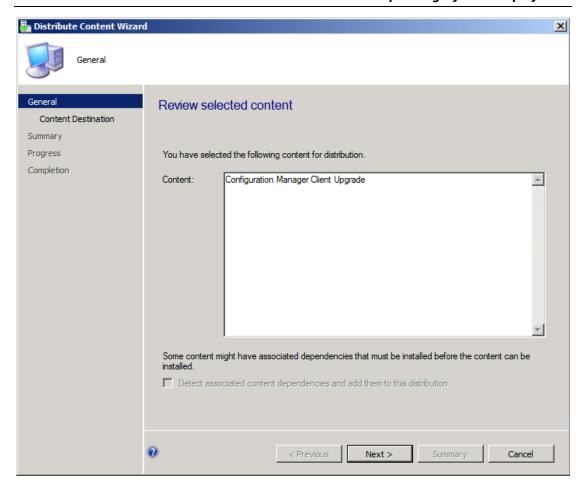


24) On the Ribbon, click Distribute Content:

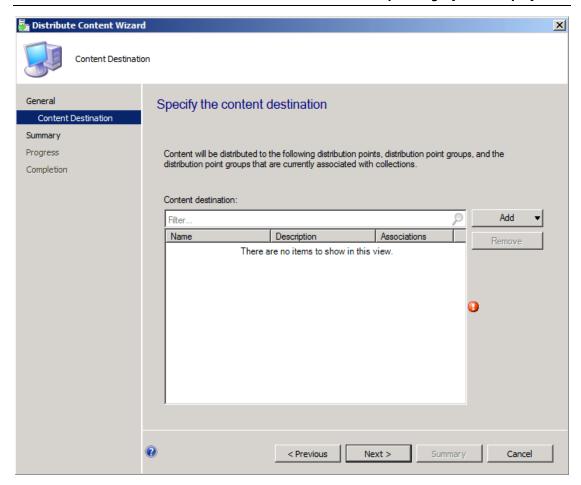


25) The **Distribute Content Wizard General** dialog box appears :

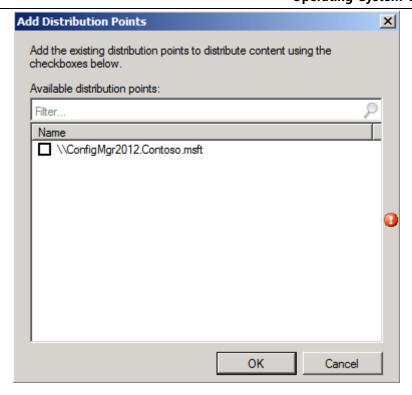
Justin Gao 高扬 yanga@microsoft.com http://blogs.technet.com/b/justin_gao



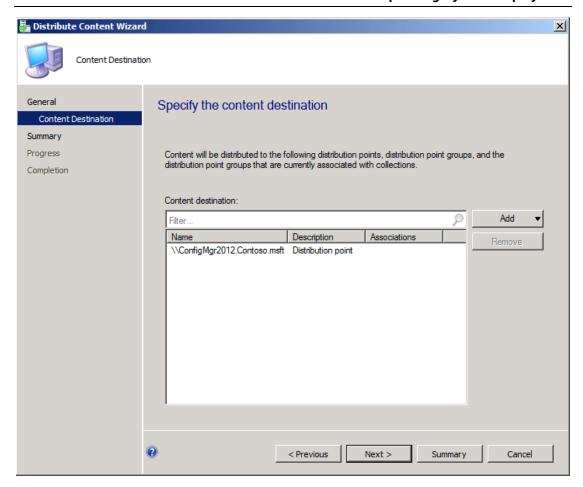
26) Click Next, the Content Destination dialog box appears:



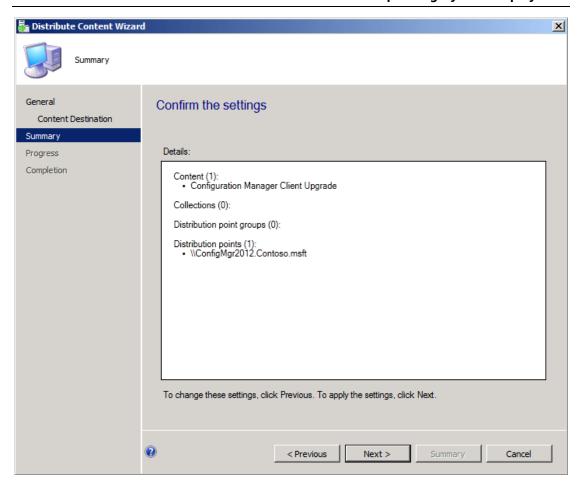
27) Click **Add** and click **Distribution Point**, the **Add Distribution Points** dialog box appears :



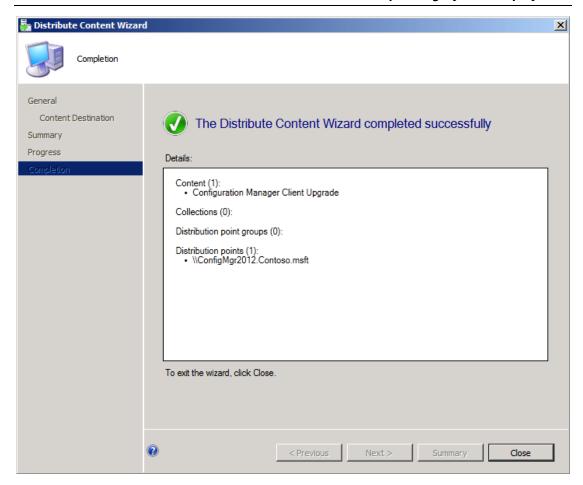
28) Select a DP and click \mathbf{OK} , will back to $\mathbf{Content}$ $\mathbf{Destination}$ dialog box:



29) Click Next, the Summary dialog box appears:

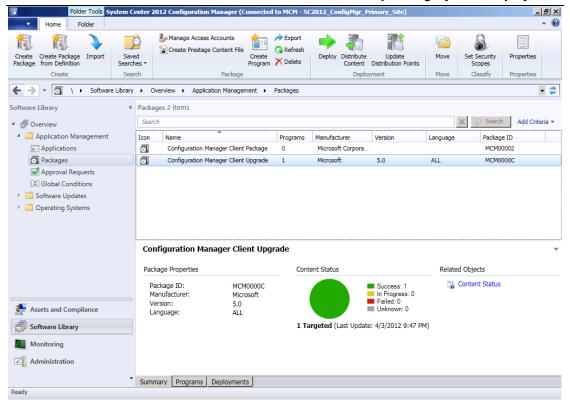


30) Click **Next**, the **Completion** dialog box appears indicating that the wizard completed successfully:



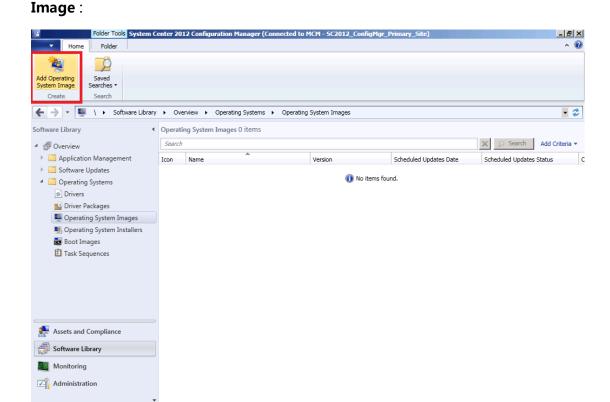
31) Click **Close** . The list of packages appear in the results pane , you would normally verify that the distribution of the content to the distribution point was successful :

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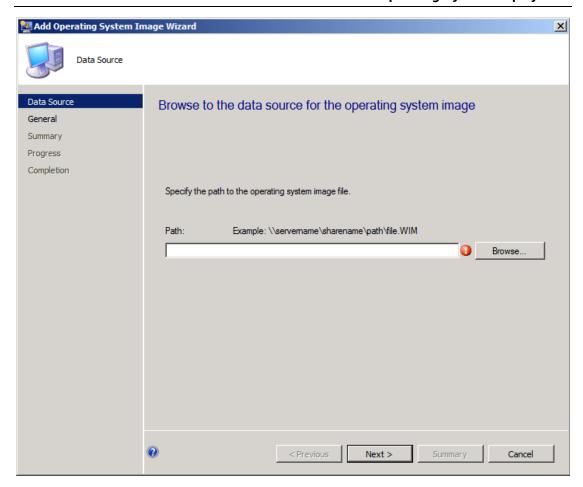


7. Deploying an Operating System Image to a Bare Metal Client:

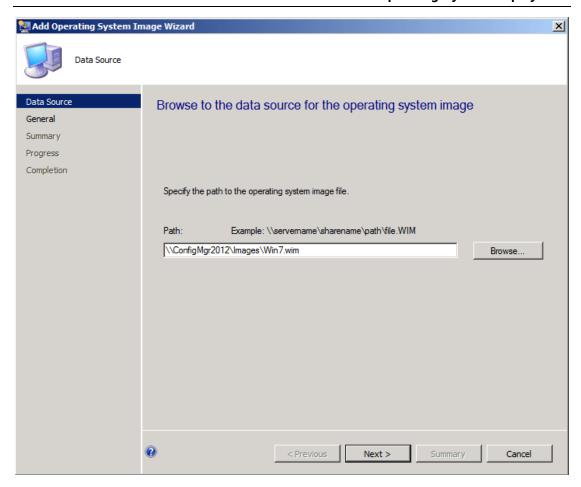
1) Click the **Software Library** workspace , expand **Operating Systems** , and then click **Operating System Images** , on the Ribbon , click **Add Operating System**



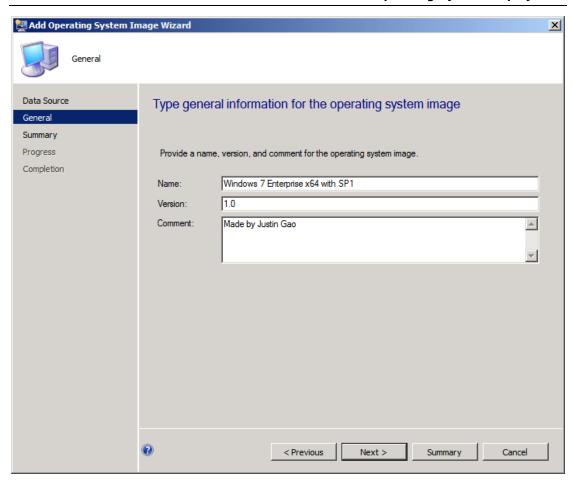
2) The Add Operating System Image Wizard Data Source dialog box appears:



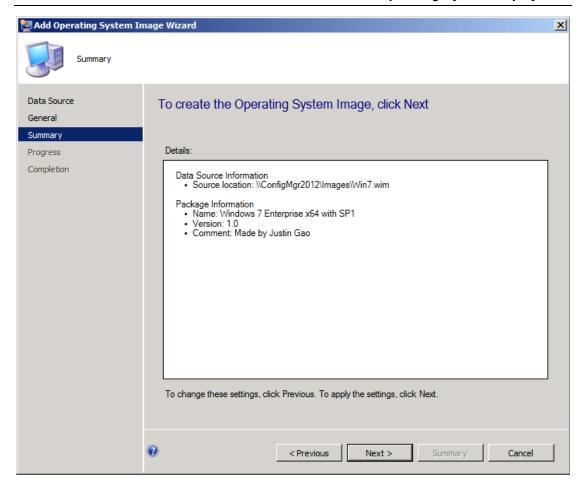
3) In the Path box, type \\ConfigMgr2012\Images\Win7.wim:



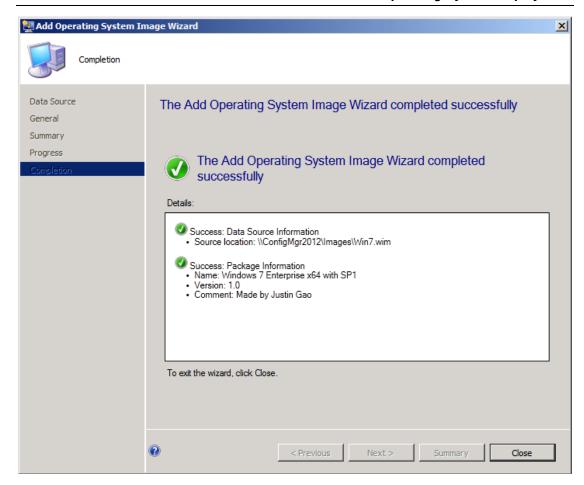
4) Click Next, the General dialog box appears :



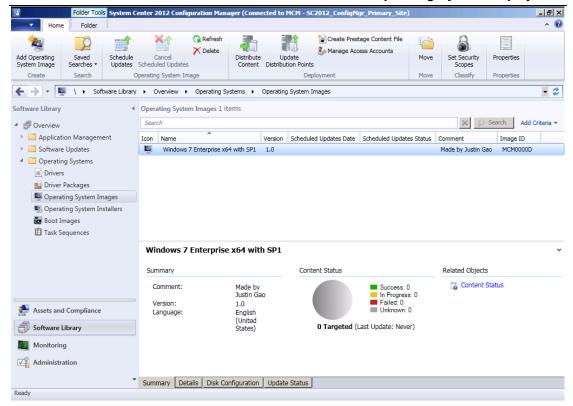
5) Click **Next**, the **Summary** dialog box appears:



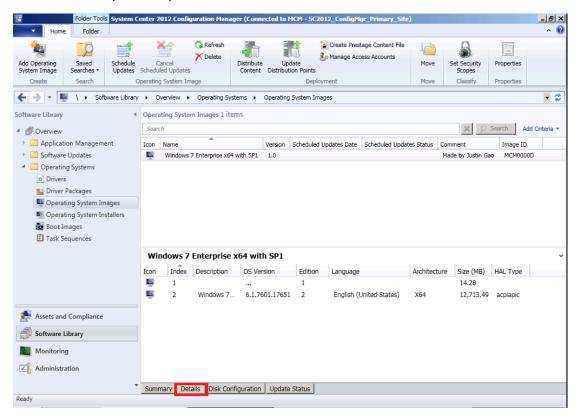
6) Click **Next**, the **Completion** dialog box appears indicating that the wizard successfully created the operating system image :



7) Click **Close**, the new operating system image is now displayed:

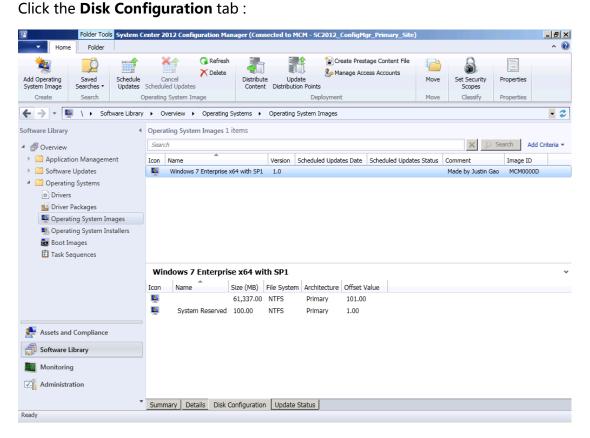


8) In the preview pane, click the **Details** tab:

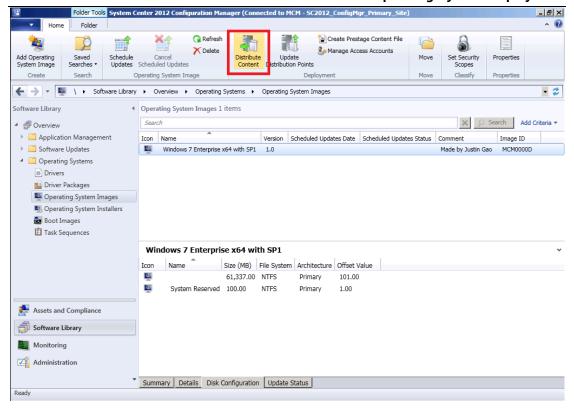


9) The details of Windows 7 x64 Enterprise operating system image appears

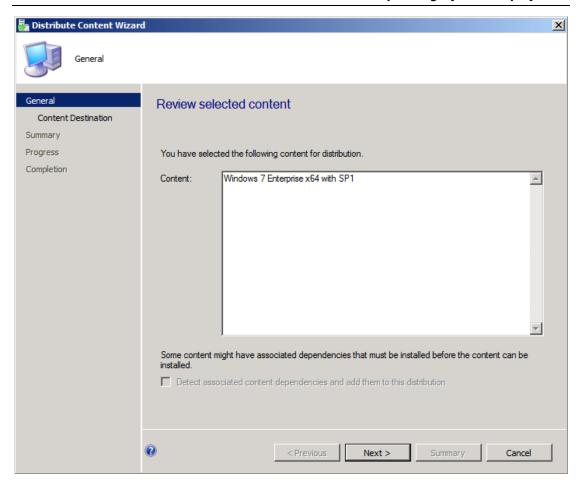
Justin Gao 高扬 yanga@microsoft.com http://blogs.technet.com/b/justin_gao in the preview pane. Notice that the reference computer had two partitions, with the primary partition being 13GB in **Size**, though the .wim file was less than 3GB.



- 10) The reference computer's primary partition was almost 100GB in **Size**, the **Details** tab indicated that 13GB was actually used.
 - 11) On the Ribbon , click **Distribute Content** :

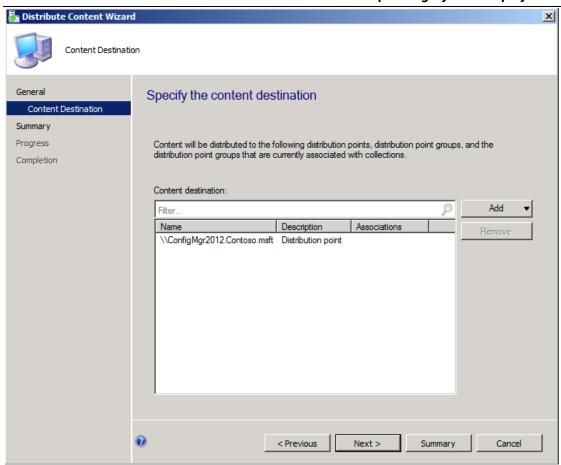


12) The **Distribute Content Wizard General** dialog box appears :

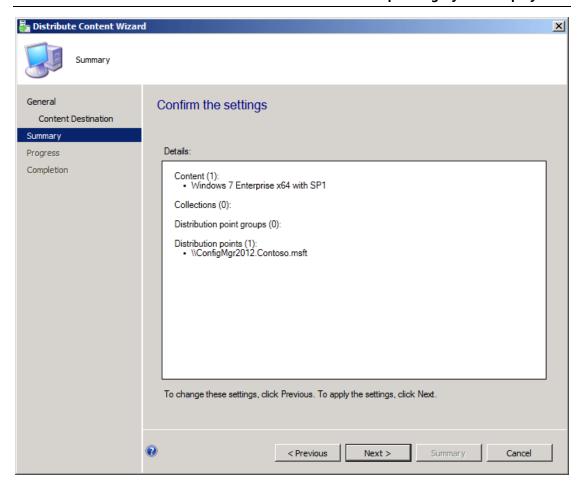


13) Click Next , the Content Destination dialog box appears , click Add to a

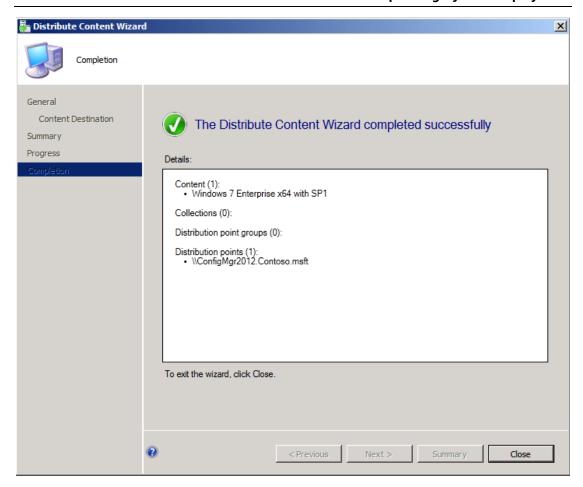
DP:



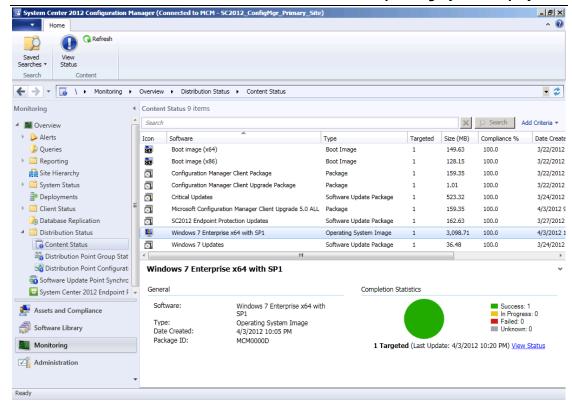
14) Click Next, the Summary dialog box appears:



15) Click **Next**, the **Completion** dialog box appears indicating that the wizard completed successfully:

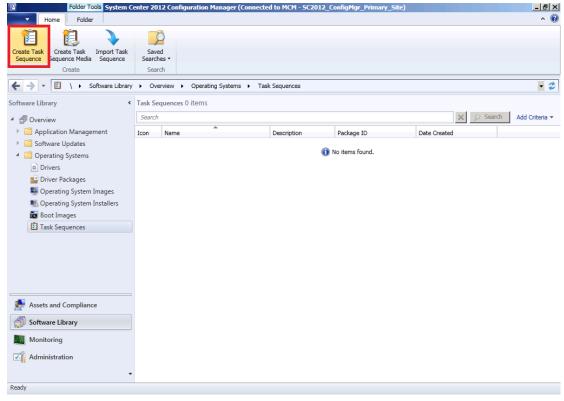


16) Click **Close**, and then click the **Monitoring** workspace, and then in the navigation pane, click **Content Status**, the **Windows 7 Enterprise x64 with SP1** content is currently being distributed to the distribution point:

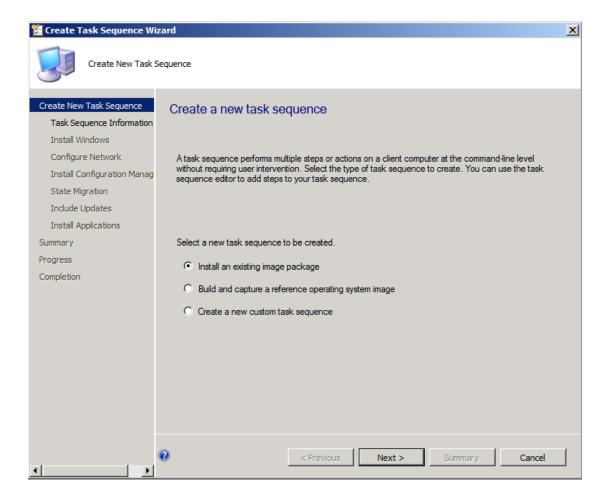


17) Click the **Software Library** workspace , and then in the navigation pane ,

click Task Sequences, on the Ribbon, click Create Task Sequence:

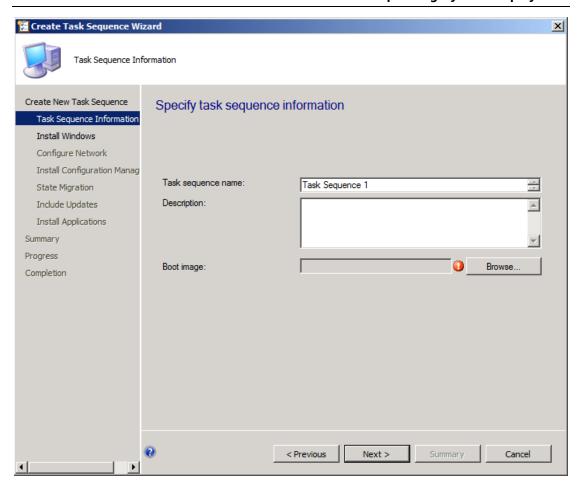


Justin Gao 高扬 yanga@microsoft.com http://blogs.technet.com/b/justin_gao 18) The Create Task Sequence Wizard dialog box appears:



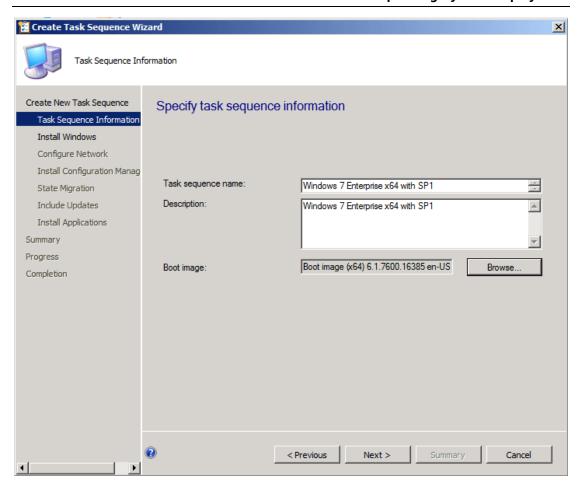
19) Verify that **Install an existing image package** is selected , and then click

Next, the **Task Sequence Information** dialog box appears:

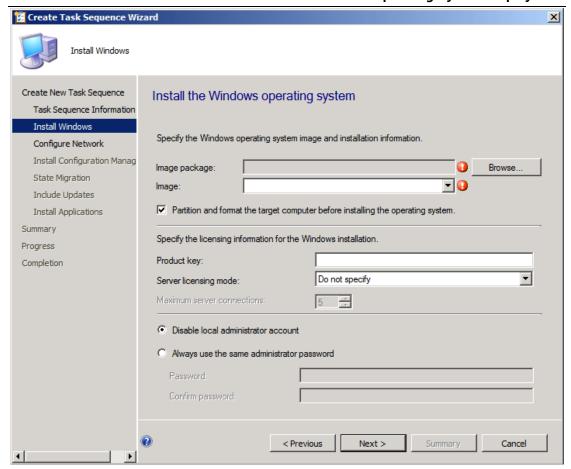


20) Type a name in Task sequence name box, and click Browse... to select a

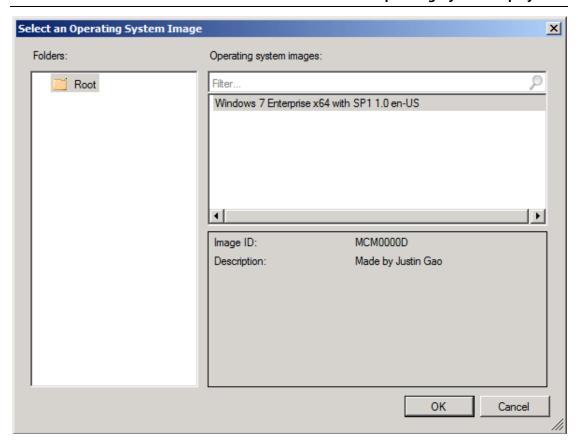
Boot image:



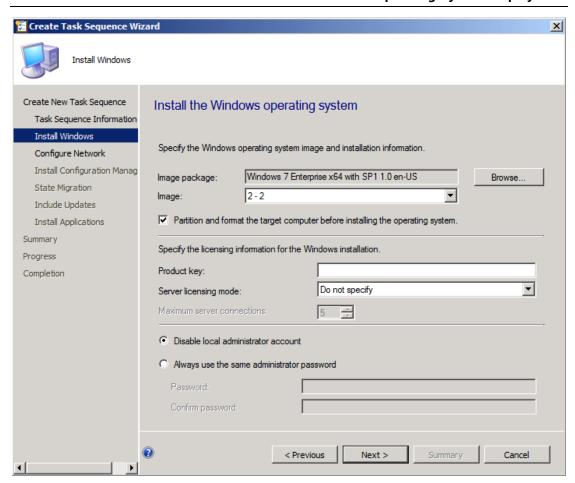
21) Click Next, the Install Windows dialog box appears:



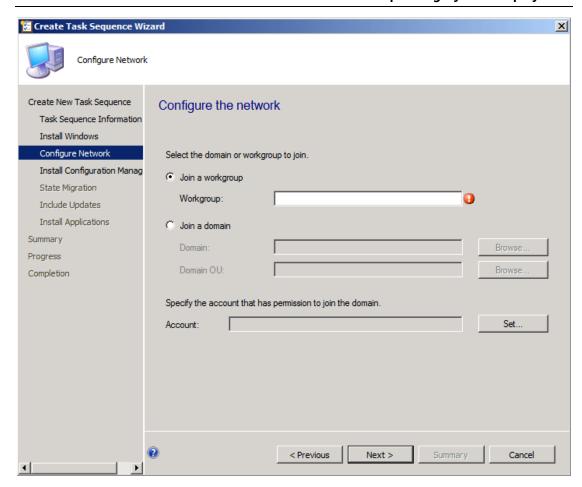
22) After Image package , click Browse... , the Select an Operating System Image dialog box appears :



23) Select image and click **OK**, in the **Image** box, click **2-2**:

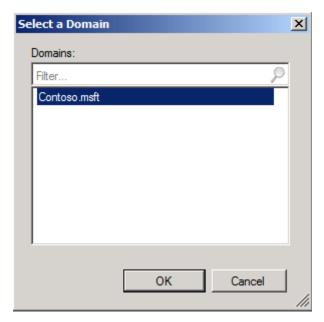


24) Click Next, the Configure Network dialog box appears:

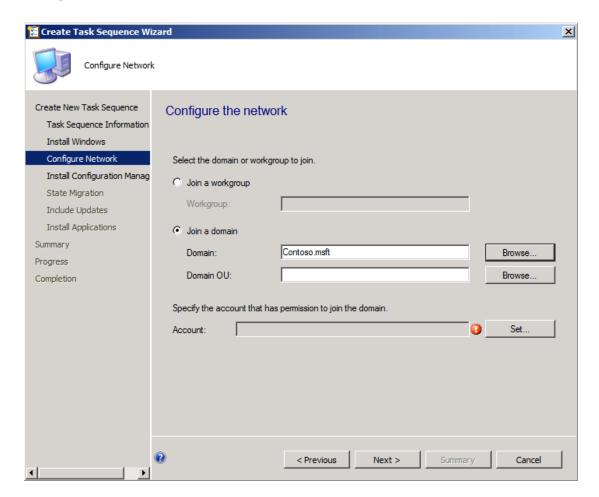


25) Click Join a domain , and then after Domain , click Browse... , the Select a

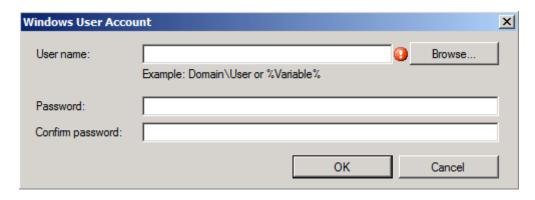
Domain dialog box appears:



Justin Gao 高扬 yanga@microsoft.com http://blogs.technet.com/b/justin_gao 26) Click **Contoso.msft** and then click **OK** , will back to **Configure Network** dialog box :

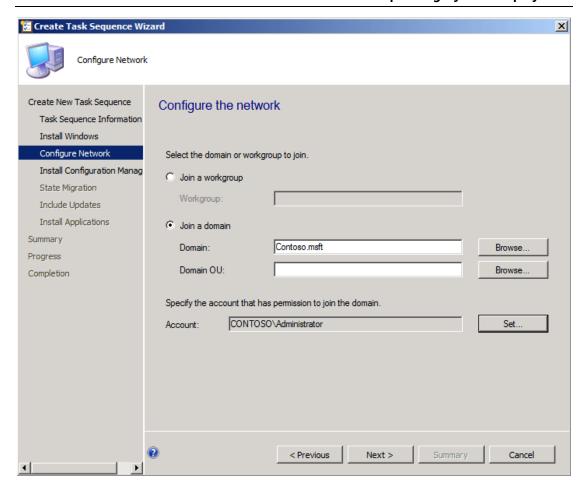


27) After **Account** , click **Set...** , the **Windows User Account** dialog box appears :

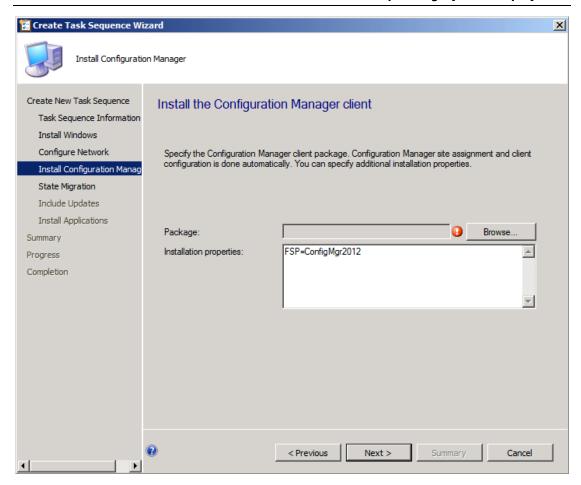


28) Type a user account information and then click **OK**:

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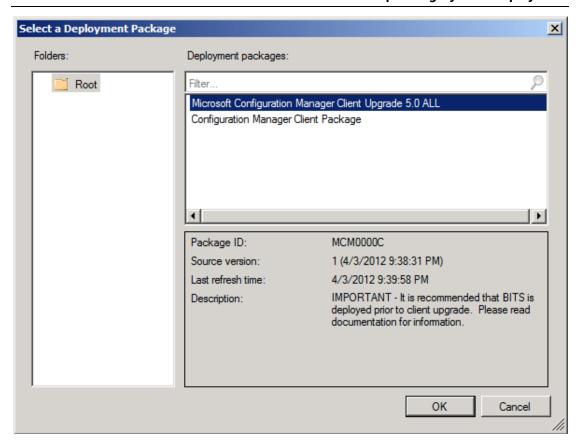


29) Click Next, the Install Configuration Manager dialog box appears:

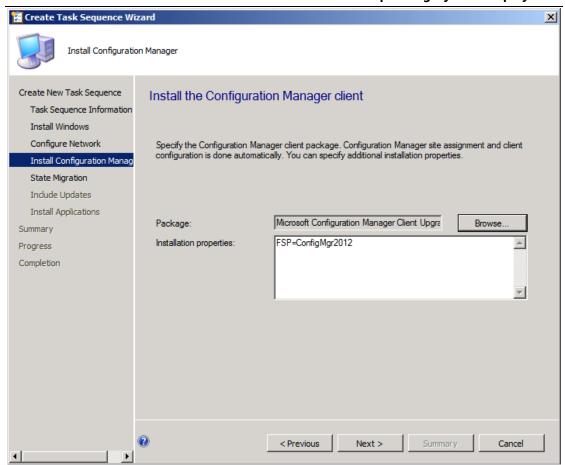


30) After ${\bf Package}$, click ${\bf Browse...}$, the ${\bf Select}$ a ${\bf Deployment}$ ${\bf Package}$ dialog

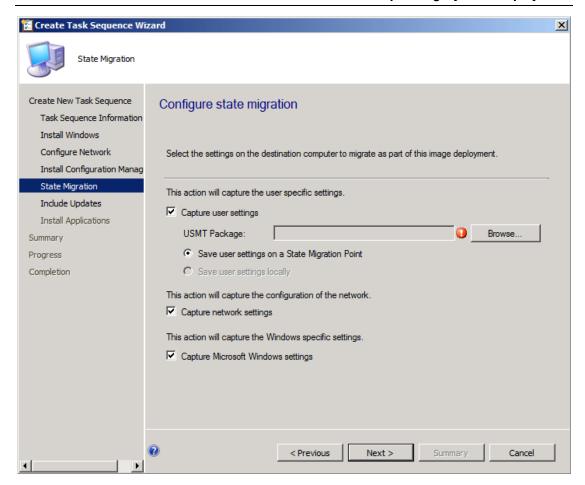
box appears:



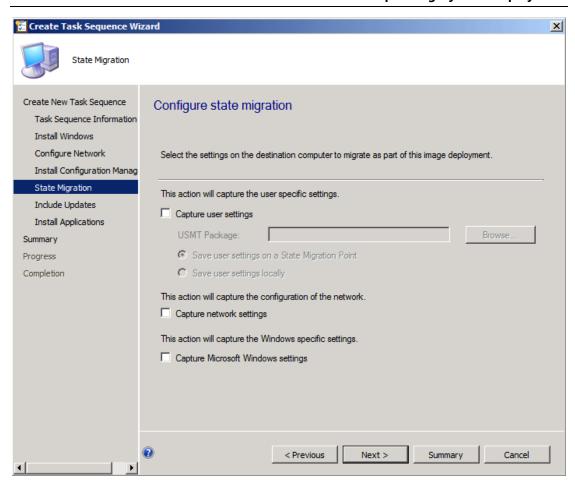
31) Select **Microsoft Configuration Manager Client Upgrade 5.0 ALL** and then click **OK**:



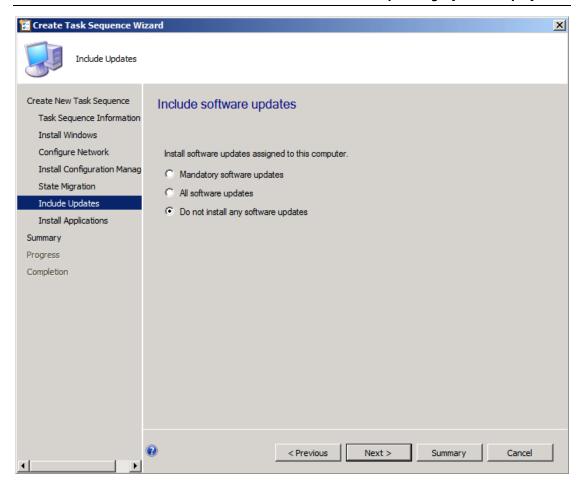
32) Click Next, the State Migration dialog box appears:



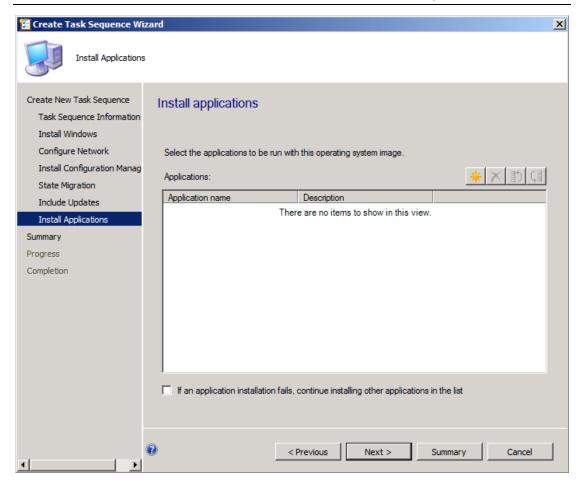
33) Click to clear **Capture user settings** , **Capture network settings** and **Capture Microsoft Windows settings** :



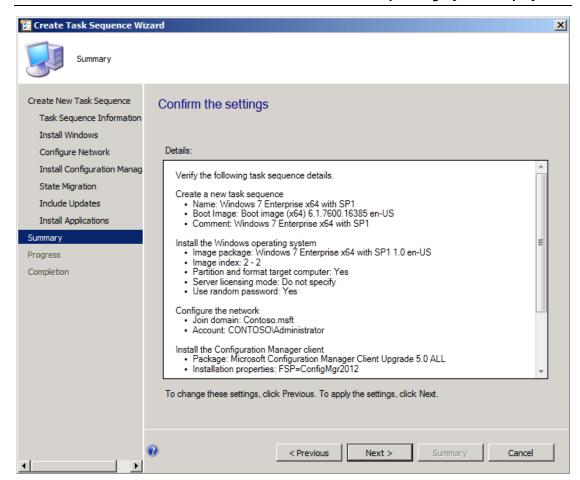
34) Click Next, the Include Updates dialog box appears:



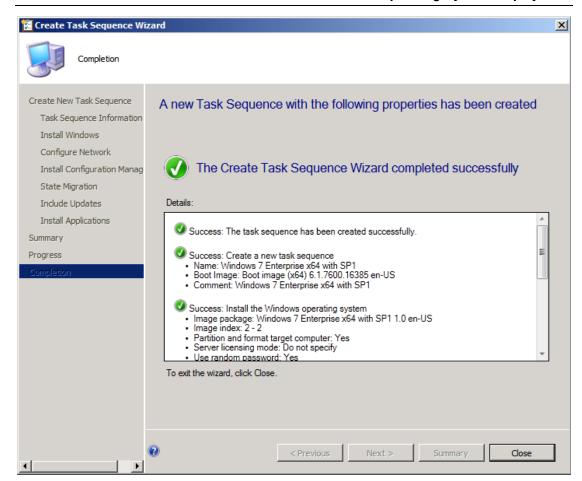
35) Click **Next** to not deploy any software updates , the **Install Applications** dialog box appears :



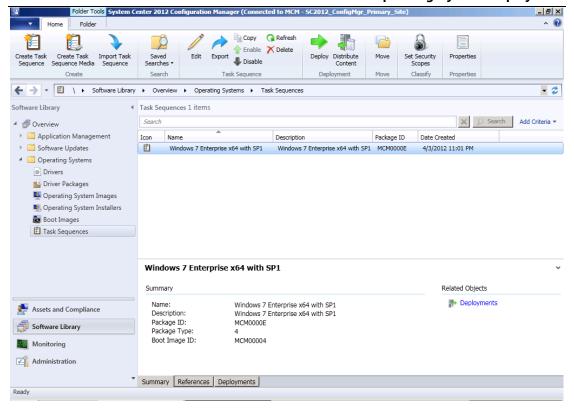
36) Click **Next** to not install any applications through the task sequence deployment process , the **Summary** dialog box appears :



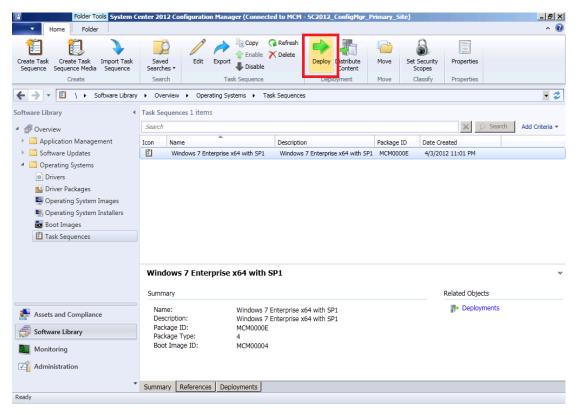
37) Click **Next**, the **Completion** dialog box appears indicating that the wizard successfully created the task sequence :



38) Click **Close**, the list of task sequences appears in the results pane. Notice that your new task sequence is displayed:

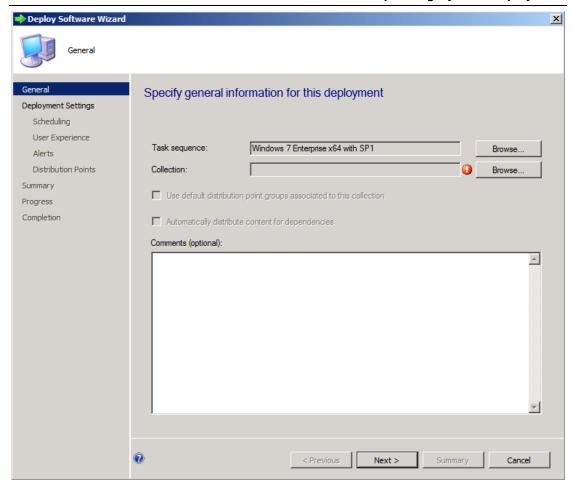


39) On the Ribbon, click **Deploy**:

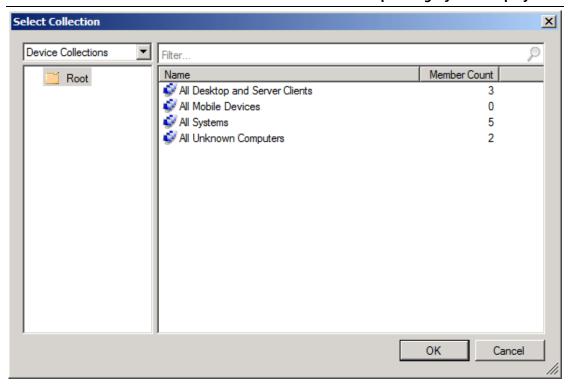


40) The **Deploy Software Wizard General** dialog box appears:

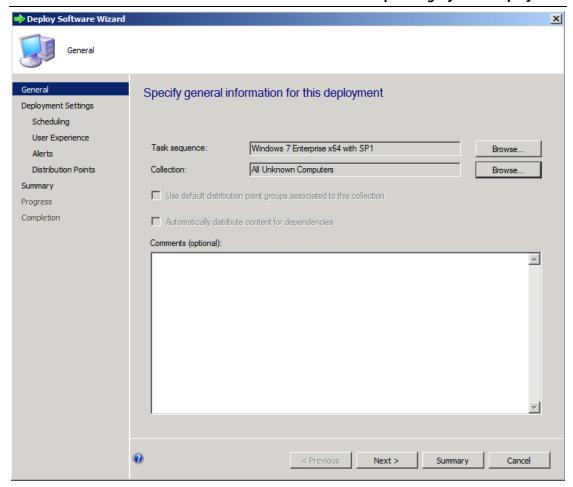
Justin Gao 高扬 yanga@microsoft.com http://blogs.technet.com/b/justin_gao



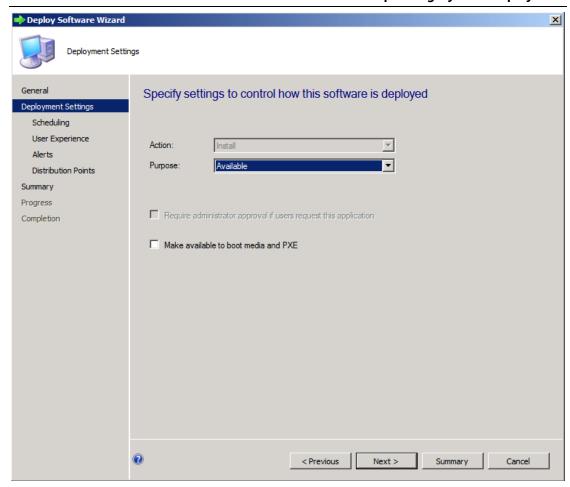
41) After **Collection**, click **Browse...**, the **Select Collection** dialog box appears displaying the available device collections :



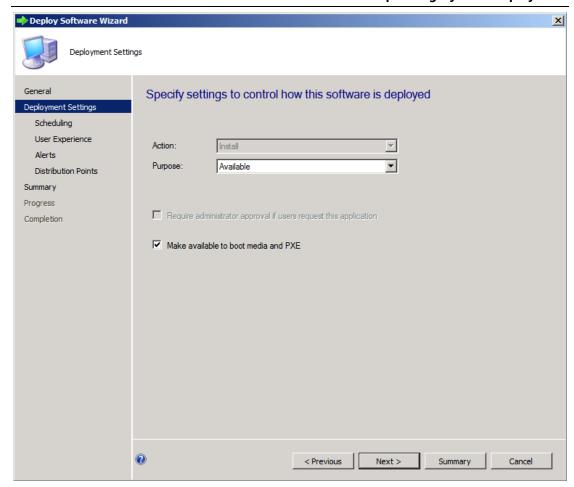
42) Under Name , click All Unknown Computers , and then click OK , the General dialog box appears :



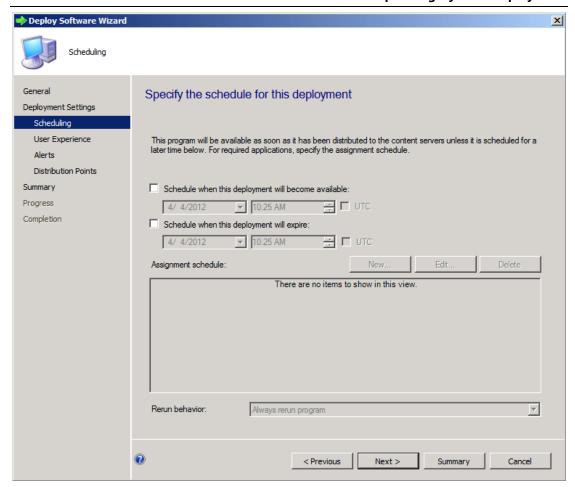
43) Click Next , the Deployment Settings dialog box appears :



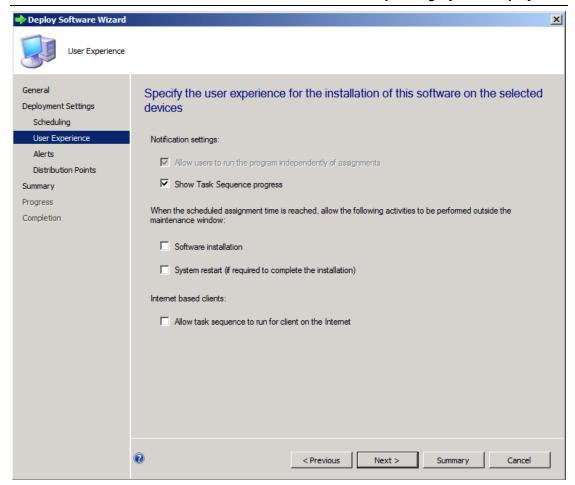
44) In the **Purpose** box , select **Available** , and then click to select **Make** available to boot media and PXE:



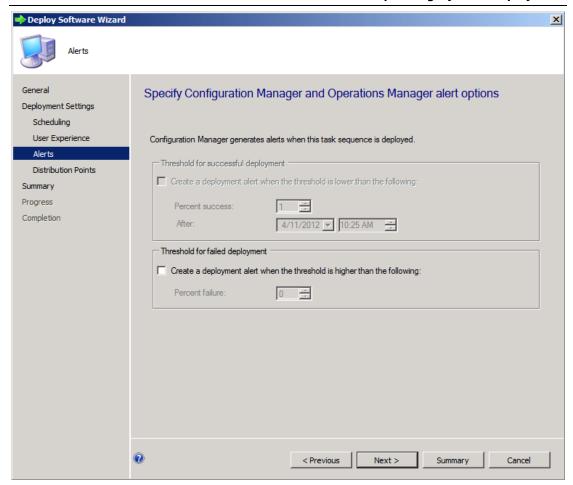
45) Click **Next**, the **Scheduling** dialog box appears:



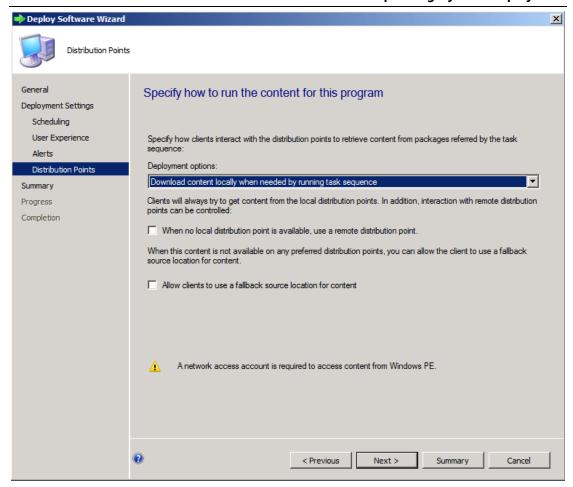
46) Click Next, the User Experience dialog box appears:



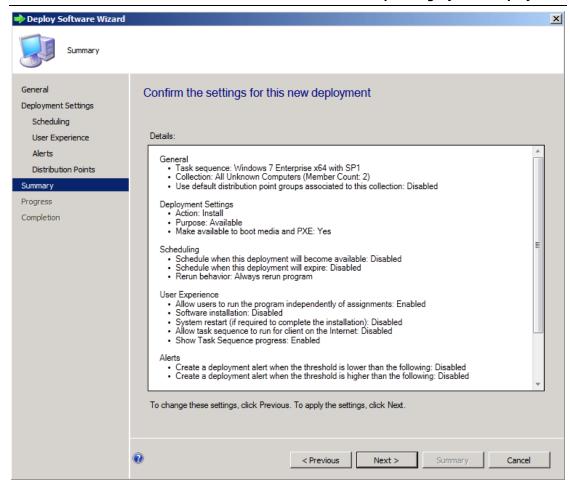
47) Click **Next** to accept the default configuration , the **Alerts** dialog box appears :



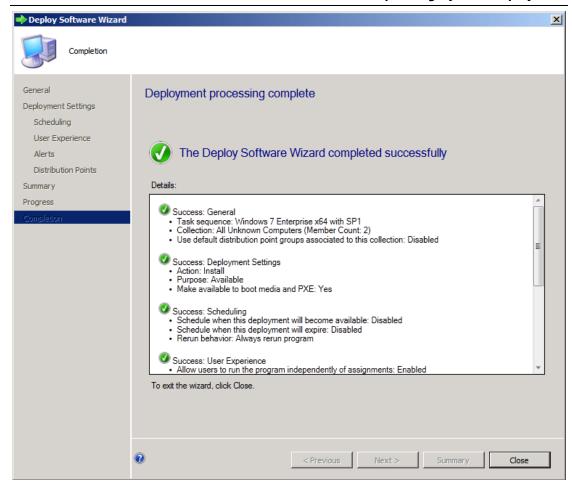
48) Click **Next** to accept the default configuration of no alerts , the **Distribution Points** dialog box appears :



49) Click **Next** to accept the default configuration , the **Summary** dialog box appears :

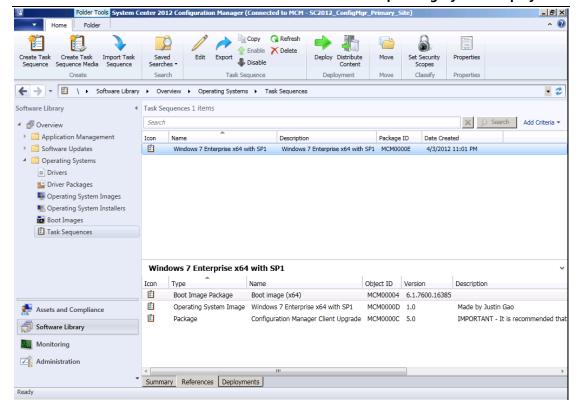


50) Click **Next**, the **Completion** dialog box appears indicating that the wizard successfully deployed the task sequence :



51) Click **Close** , the list of task sequences appear in the results pane . In the preview pane , click the **References** tab :

System Center 2012 Configuration Manager RTM Operating System Deployment



52) The packages that this task sequence requires is displayed in the preview pane .

8. Installing the Operating System Image on a Bare Metal System:

1) Boot the Bare Metal computer:

```
Hyper-U
PXE Network Boot 03.23.2009
(C) Copyright 2009 Microsoft Corporation, All Rights Reserved.

CLIENT MAC ADDR: 00 15 5D 14 73 46 GUID: 9FEEDE5E-02B9-4C74-9FB6-0456DB507B7B
CLIENT IP: 192.168.0.210 MASK: 255.255.255.0 DHCP IP: 192.168.0.100

Downloaded WDSNBP...

Press F12 for network service boot
-
```

2) Click **F12**:

```
Hyper-U
PXE Network Boot 03.23.2009
(C) Copyright 2009 Microsoft Corporation, All Rights Reserved.

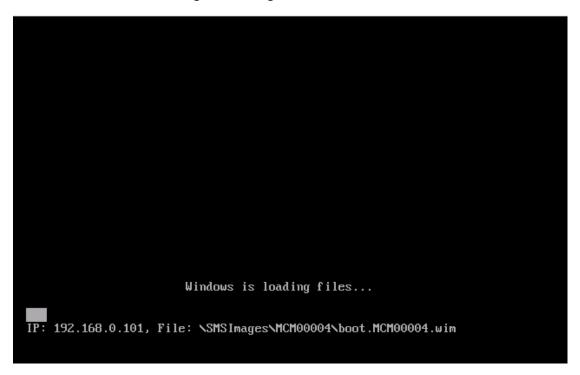
CLIENT MAC ADDR: 00 15 5D 14 73 46 GUID: 9FEEDE5E-02B9-4C74-9FB6-0456DB507B7B
CLIENT IP: 192.168.0.210 MASK: 255.255.255.0 DHCP IP: 192.168.0.100

Downloaded WDSNBP...

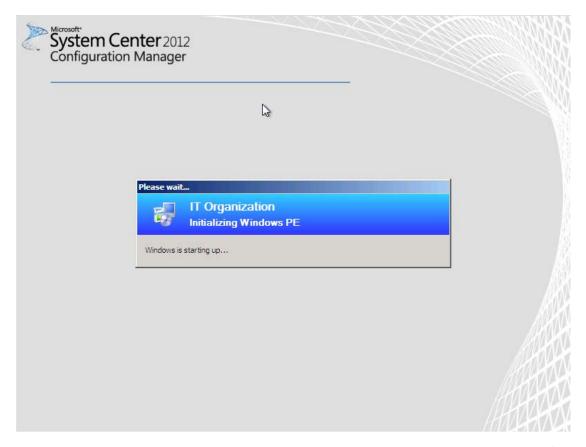
Press F12 for network service boot
Architecture: x64
Contacting Server: 192.168.0.101.

TFTP Download: boot\x64\pxeboot.n12
```

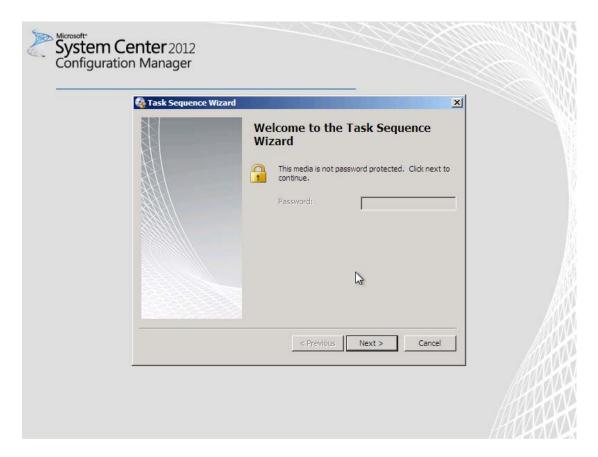
Justin Gao 高扬 yanga@microsoft.com http://blogs.technet.com/b/justin_gao 3) Will start to loading boot image:



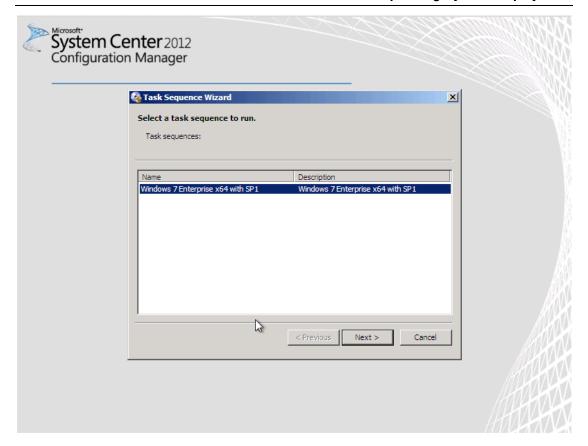
4) Wait some seconds will display Windows PE message box :



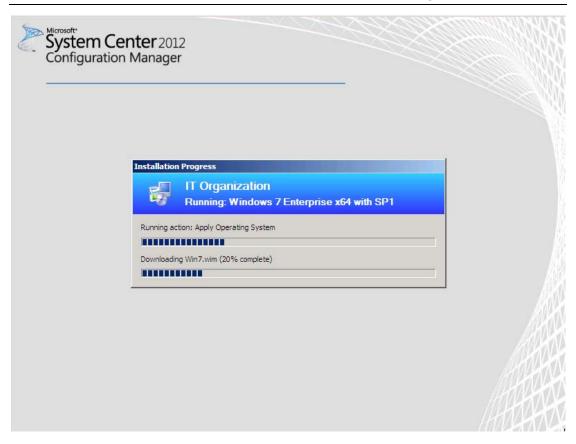
Justin Gao 高扬 yanga@microsoft.com http://blogs.technet.com/b/justin_gao 5) And then the **Task Sequence Wizard** dialog box appears:

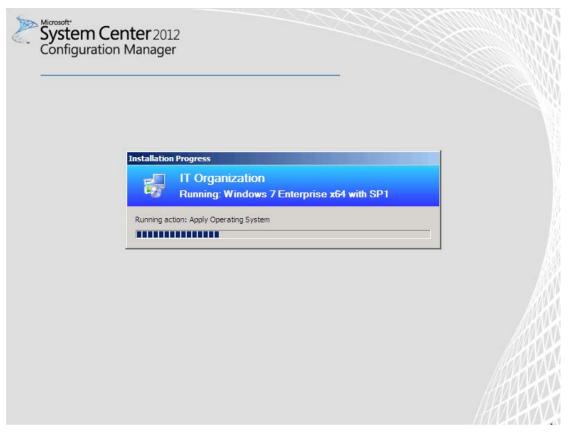


6) Click **Next**, the **Select a task sequence to run** dialog box appears:

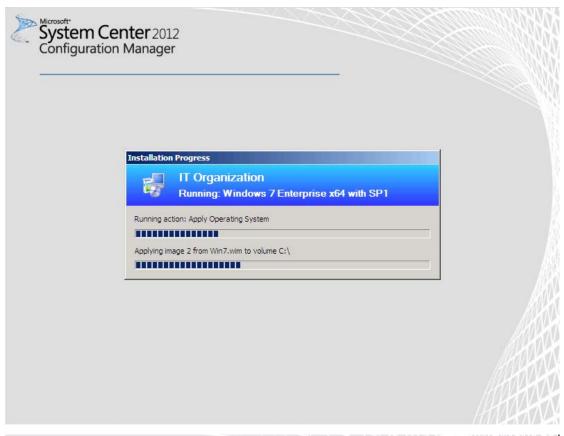


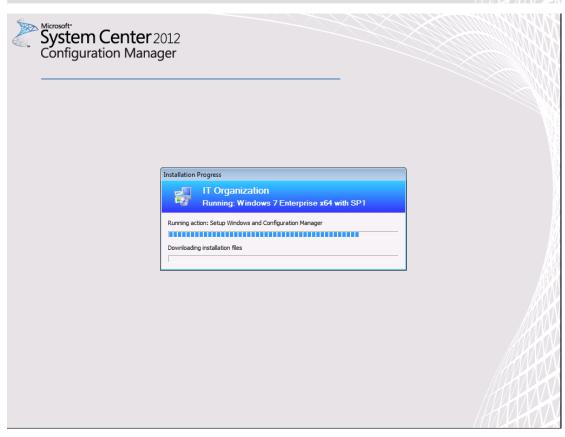
7) You can see created task sequence , and then click **Next** , the **Installation Progress** message box appears , the operating system installing start :



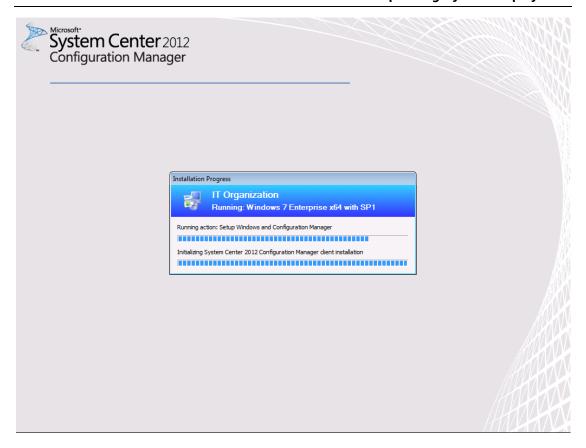


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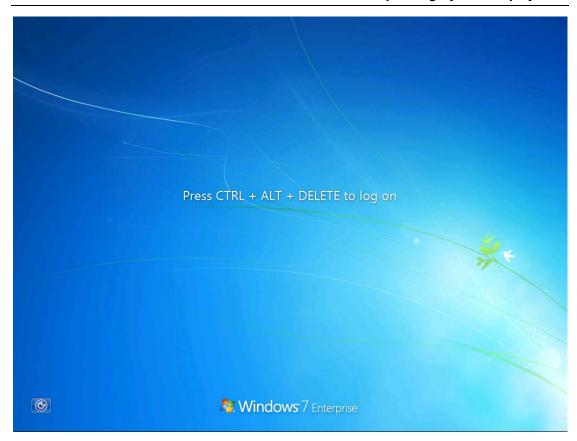




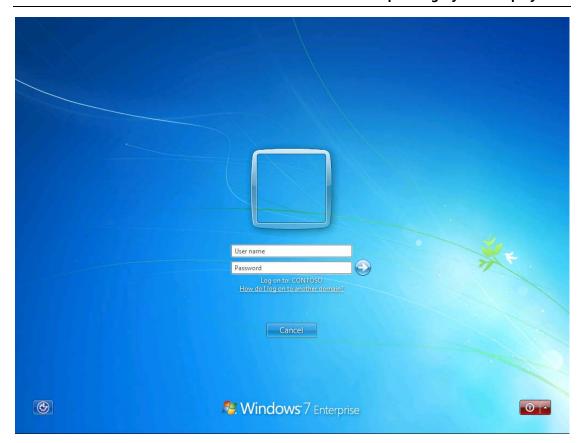
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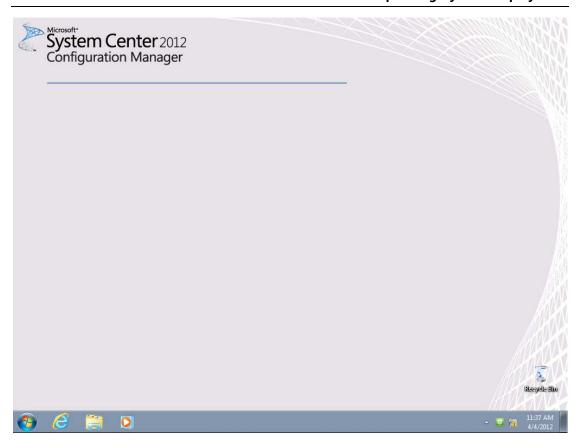
8) Wait about 15-20 minutes, the OS installed, display OS logon screen:



9) Press Crtl+Alt+Delete, will displaying:

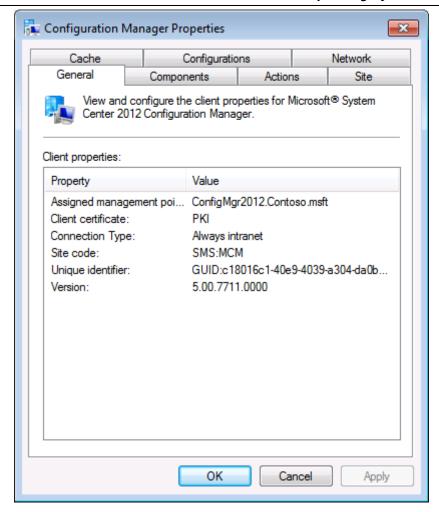


10) Use domain user **Justin Gao** to logon:

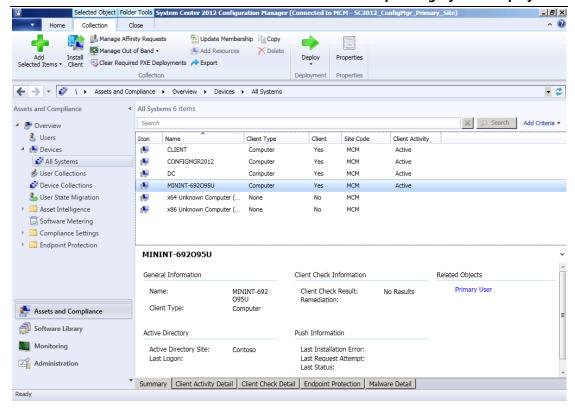


11) Open Control Panel , click System and Security , click Configuration

Manager , the Configuration Manager Properties dialog box appears :

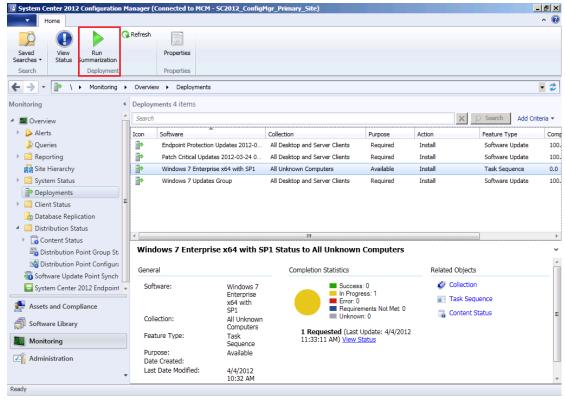


12) Logon to ConfigMgr2012 server , in the Configuration Manager Console , click the Assets and Compliance workspace , click Device Collections , double-click All Systems , you can see just installed client :



13) Click the Monitoring workspace, click Deployments, click Windows 7

Enterprise x64 with SP1, on the Ribbon, click Run Summarization:

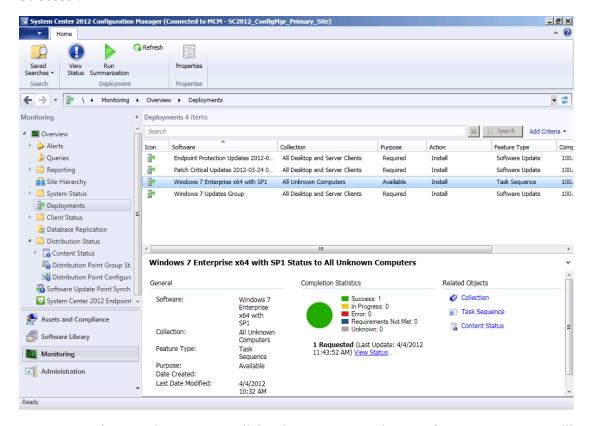


Justin Gao 高扬 yanga@microsoft.com http://blogs.technet.com/b/justin_gao 14) A Configuration Manager message box appears :

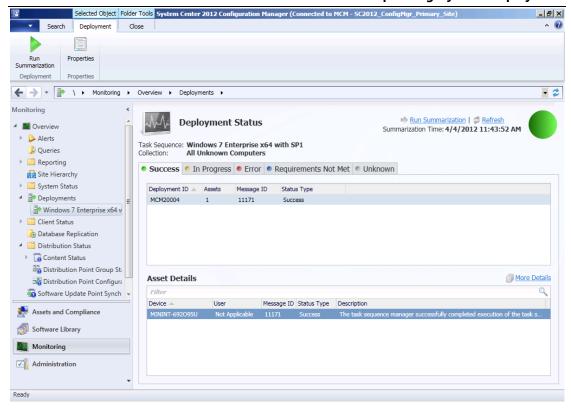


15) Click **OK** , the **Completion Statistics** from **In Progress** changed to

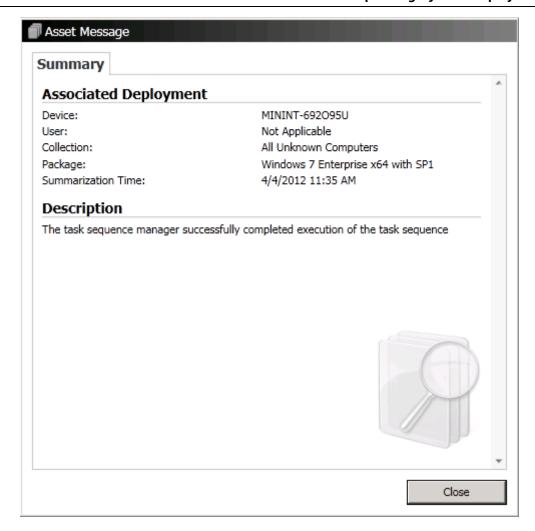
Success:



16) In the preview pane , click **View Status** , the **Deployment Status** will displaying :



17) Click More Details , the Asset Message dialog box appears :



- 18) Click Close.
- 19) You have now successfully used System Center 2012 Configuration Manager RTM to capture a reference computer running Windows 7, and then deployed that captured image to a bare metal system.