

# **Clone and OS Customization**

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# **Clone and OS Customization Process**



# **Automated Cloning and OS Customization**

For the following automation software and download information see, *Automation Software* section in *Cisco HCS for Contact Center Installing and Upgrading Guide* http://www.cisco.com/c/en/us/support/ unified-communications/hosted-collaboration-solution-contact-center/products-installation-guides-list.html

- GoldenTemplateTool
- PowerCLI
- OVF Tool

• WinImage

## **Automated Cloning and OS Customization Using Golden Templates**

Sequence	Task	Done
1	Download Golden Template Automation Tool, on page 3	
2	Complete Automation Spreadsheet, on page 4	
3	Run Automation Script, on page 5	
4	OS Customization Process, on page 7	

### **Download Golden Template Automation Tool**

Golden Template Tool is required for automated cloning of Golden Templates and deploying the customized Virtual machines in a customer instance. To download and extract the Golden Template Tool, see Automated Cloning and OS Customization, on page 2 to the root of the **C: drive** on your system. You can browse the automation scripts using VMware vSphere PowerCLI.

The extracted content includes the following:

- The automation spreadsheets, which is the interface to the scripts.
- The *scripts* folder that contains five scripts. The deployVM.PS1 file is the primary automation script, which calls the other four scripts.
- The Archive, Log, OVF, PlatformConfigRepository, and Report folders are empty until you run the automation script for export.

#### Figure 1: Download Automation Tool

Туре	Compressed size	Password	Size	
File folder				
FLP File	2 KB	No	1,440	KB
Microsoft Excel 97-2003	470 KB	No	3,132	KB
Microsoft Excel 97-2003	467 KB	No	3,116	KB
Microsoft Excel 97-2003	636 KB	No	4,033	KB 🎦
Microsoft Excel 97-2003	323 KB	No	2,452	KB 102
	Type File folder FLP File Microsoft Excel 97-2003 Microsoft Excel 97-2003 Microsoft Excel 97-2003 Microsoft Excel 97-2003	Type         Compressed size           File folder            FLP File         2 KB           Microsoft Excel 97-2003         470 KB           Microsoft Excel 97-2003         467 KB           Microsoft Excel 97-2003         636 KB           Microsoft Excel 97-2003         323 KB	Type         Compressed size         Password           File folder             FLP File         2 KB         No           Microsoft Excel 97-2003         470 KB         No           Microsoft Excel 97-2003         467 KB         No           Microsoft Excel 97-2003         636 KB         No           Microsoft Excel 97-2003         323 KB         No	Type         Compressed size         Password         Size           File folder         File         No         1,440           Microsoft Excel 97-2003         470 KB         No         3,132           Microsoft Excel 97-2003         467 KB         No         3,116           Microsoft Excel 97-2003         636 KB         No         4,033           Microsoft Excel 97-2003         323 KB         No         2,452

🌗 scripts	10/3/2018 7:11 AM	File folder	
base.flp	1/24/2018 2:12 PM	FLP File	1,440 KB
GoldenTemplate_VMDataSheet_12.0.1_2K.xls	9/27/2018 7:33 AM	Microsoft Excel 97	3,126 KB
GoldenTemplate_VMDataSheet_12.0.1_4K.xls	9/27/2018 7:33 AM	Microsoft Excel 97	3,118 KB
GoldenTemplate_VMDataSheet_12.0.1_12K.xls	9/27/2018 7:33 AM	Microsoft Excel 97	4,040 KB
GoldenTemplate_VMDataSheet_12.0.1_24K.xls	10/3/2018 6:13 AM	Microsoft Excel 97	4,082 KB
GoldenTemplate_VMDataSheet_12.0.1_SCC.xls	9/27/2018 7:33 AM	Microsoft Excel 97	2,456 KB

After you run the script for the first time:

- Archive holds the prior versions of the automation spreadsheet, saved with a date and a time stamp.
- Log holds all the log files saved with a date and a time stamp.
- *OVF*, when the tool runs the Export operation, a sub folder is created for each virtual machine. The folders take their names from the GOLDEN\_TEMPLATE\_NAME cells in the spreadsheet. These folders are used to import the virtual machines to the customer ESXi host.
- *PlatformConfigRepository* is populated with three subfolders that holds XML files generated as part of the golden template process.
- *Report* holds all automation reports, saved with a date and a time stamp.

#### **Related Topics**

Automated Cloning and OS Customization, on page 2

### **Complete Automation Spreadsheet**

Fill the information provided in the table to complete the automation spreadsheet for cloning process. Deploy VM automation script requires this information to clone the virtual machines to the customer instance.

The table describes the values of each virtual server and associated properties:

Column	Domain-based VM	Workgroup-based VM	VOS-based VM
CREATEVM	YES	YES	YES
CUSTOMIZATION	YES	YES	YES
OPERATION			
SOURCE_HOST_IP	10.10.0.10	10.10.0.10	10.10.0.10
SOURCE_DATASTORE_NAME	Datastore-A0	Datastore-A0	Datastore-A0
SOURCE_VMNAME			
OVF_NETWORK1			
OVF_NETWORK2			
GOLDEN_TEMPLATE_NAME	GT-Rogger	GT-CVP-Server	GT-CUCM
NEW_VM_NAME	CCE-RGR-SIDE-A	CVP-SVR-SIDE-A	UCM-SUB-SIDE-A
DEST_HOST_IP	10.10.1.10	10.10.1.11	10.10.1.12
DEST_DATASTORE_NAME	Datastore-A1	Datastore-A3	Datastore-A6
PRODUCT_VERSION			10.0.1
COMPUTER_NAME	CCE-RGR-SIDE-A	CVP-SVR-SIDE-A	UCM-SUB-SIDE-A
WORK_GROUP	NO	YES	
WORK_GROUP_NAME		WORKGROUP	
DOMAIN_NAME	HCSCC.COM		HCSCC.COM
			(Optional)

Column	Domain-based VM	Workgroup-based VM	VOS-based VM
TIME_ZONE_LINUX_AREA			America
TIMEZONE_LINUX_LOCATION			Los Angeles
TIME_ZONE_WINDOWS	(GMT-08:00)	(GMT-08:00)	
DOMAIN_USER	<i>HCSCC</i> \ <i>administrator</i>		
DOMAIN_PASSWORD	•••••		
PRODUCT_KEY	XXXX-XXXX-XXXX-XXXX	XXXX-XXXX-XXXX-XXXX	
OWNER_NAME	HCS	HCS	
ORGANIZATION_NAME	CISCO	CISCO	CISCO
ORGANIZATION_UNIT			HCS
ORGANIZATION_LOCATION			San Jose
ORGANIZATION_STATE			СА
ORGANIZATION_COUNTRY			USA
NTP_SERVER			10.81.254.131
NIC_NUM	2	1	1
IP_ADDRESS_NIC1	10.10.10.10	10.10.10.20	10.10.10.30
SUB_NET_MASK_NIC1	255.255.255.0	255.255.255.0	255.255.255.0
DEFAULT_GATEWAY_NIC1	10.10.10.1	10.10.10.1	10.10.10.1
DNS_IP_NIC1	10.10.10.3	10.10.10.3	10.10.10.3
DNS_ALTERNATE_NIC1			
IP_ADDRESS_NIC2	192.168.10.10		
SUB_NET_MASK_NIC2	255.255.255.0		
DEFAULT_GATEWAY_NIC2	192.168.10.1		
DNS_IP_NIC2	192.168.10.3		
DNS_ALTERNATE_NIC2			

## **Run Automation Script**

### Before you begin

Download and install VMware vSphere PowerCLI on the client computer.



Note

Ensure WinImage (32-bit) is installed in the following location: C:\Program Files (x86)\WinImage

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Note

If you import any of the VOS VMs and have an unlicensed copy of WinImage, displays the popup for each VOS platform. Click **OK** to continue the import process.

### Procedure

- Step 1 Sign-in as an administrator and open VMware vSphere PowerCLI (32-bit) application.
- **Step 2** Enter the **get-executionPolicy** command to determine the restricted execution policy.
- Step 3 If the policy is restricted, enter set-executionPolicy command. At the supply Values prompt, enter Unrestricted, then enter Y.

Change the execution policy to run unsigned scripts on your local computer and signed scripts from other users.

#### **Step 4** Enter the CD < GoldenTemplate directory> command.

**Step 5** Run the automation script using the following syntax:

Syntax:	Example:
<path script="" the="" to=""> <path< th=""><th>.\scripts\DeployVM.PS1</th></path<></path>	.\scripts\DeployVM.PS1
of the spreadsheet>	C:\GoldenTemplate\GoldenTemplate VMDataSheet.xls
<vcenter hostname="" ip=""></vcenter>	testvCenter testuser testpassword
<vcenter user=""> <password< th=""><th></th></password<></vcenter>	
to connect to vCenter>	
1	

This starts the script that parses and validates the data, creates entries in the GoldenTemplate directory. Displays the completion percentage on the screen and generates the Status Report in the Report folder.

Click the Log File link in the Status report to debug error conditions and to consult Cisco Support.

#### Figure 2: Status Report of Golden Template Tool

### **Status Report of Golden Template Tool**

VM NAME	OPERATION	HOST IP	DATASTORE NAME	STATUS	DESCRIPTION
40PG-CUCM-Cust9-Pub	CREATE VM from A Template	aurora-f1-ch10-b3.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-CUCM-Cust9-Sub	CREATE VM from A Template	aurora-f1-ch10-b6.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-Finesse-Cust9-Pub	CREATE VM from A Template	aurora-f1-ch10-b3.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-Finesse-Cust9-Sub	CREATE VM from A Template	aurora-f1-ch10-b6.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-CUCM-Cust10-Pub	CREATE VM from A Template	aurora-f1-ch10-b3.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-CUCM-Cust10-Sub	CREATE VM from A Template	aurora-f1-ch10-b6.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-Finesse-Cust10-Pub	CREATE VM from A Template	aurora-f1-ch10-b3.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-Finesse-Cust10-Sub	CREATE VM from A Template	aurora-f1-ch10-b6.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully

Log File

#### **Related Topics**

Automated Cloning and OS Customization, on page 2 OS Customization Process, on page 7

### **OS Customization Process**

Sequence	Task	Done		
Windows Customization Process				
1	Validate Network Adapter Settings and Power On, on page 7			
2	Edit Registry Settings and Restart VM, on page 8			
VOS Customization Process	VOS Customization Process			
1	Configure DNS Server			
2	Configure Host in DNS Server			
3	Validate Network Adapter Settings and Power On, on page 7			

### Validate Network Adapter Settings and Power On

Perform this procedure for all Windows VMs.

### Procedure

Step 1 Step 2	Select the Virtual Machine in the vSphere client. Right-click the VM and choose <b>Edit settings</b> . On the <b>Hardware</b> tab, select each Network adapter. Make sure that <b>Connect at power on</b> in the Device Status group is checked:			
Step 3	<b>3</b> Power on the virtual machine.			
	Important	Do not press Ctrl-Alt-Delete. If you press Ctrl-Alt-Delete after powering on, the customization does not take effect. You must complete it manually.		
Step 4	Wait for th	e VM to restart and to apply customization. This can take five to ten minutes.		

### Recover from Pressing Ctrl-Alt-Del During Power-On

Validate Network Adapter Settings and Power On initializes the customization process. Although you are prompted to press **Ctrl-Alt-Delete** after powering on, doing do prevents the customization from taking effect. DO NOT press **Ctrl-Alt-Del**. If you inadvertently press **Ctrl-Alt-Del**, you have the following option to restore the customization.

### Procedure

Step 1Get the GoldenTemplate\_VMDataSheet.xls from the C:/GoldenTemplateTool/Archive.Step 2Copy and paste the GoldenTemplate\_VMDataSheet.xls to C:/GoldenTemplateTool.

Step 3 In the GoldenTemplate\_VMDataSheet.xls select No in all the rows for the column CREATEVM except for those which needs to re-deploy.
Step 4 Else, you can enter that data manually for the VM.

### **Edit Registry Settings and Restart VM**

Perform this procedure for all Windows VMs.

### Procedure

Step 1	Select Start > All Programs > Administrative Tools > Computer Management.
Step 2	On the left panel, expand Computer Management (Local) > System Tools > Local Users and Groups > Users.
Step 3	On the right panel, right-click the administrator and select Set Password.
Step 4	Click Proceed at the warning message, then enter the new password.
Step 5	Click OK.
Step 6	Access the Registry Editor (Start > Run > regedit).
Step 7	Select HKEY_LOCAL_MACHINE > SOFTWARE > Microsoft > Windows NT > Current Version > Winlogon.
	<ul> <li>a) Set AutoAdminLogon to 0.</li> <li>b) Remove these keys if they exist: DefaultDomainName and DefaultUserName.</li> </ul>
Step 8 Step 9	Restart the machine. If the machine is in the domain, log in to the domain. Enter <b>NET TIME /DOMAIN:<domain></domain></b> command to synchronize time with the domain controller.

## **Automated Cloning and OS Customization Using OVF**

Sequence	Task	Done
1	Download Golden Template Automation Tool, on page 3	
2	Complete Automation Spreadsheet for Export, on page 9	
3	Run Automation Script for Export, on page 9	
4	Transport to Desired Location, on page 10	
5	Ensure Readiness of the Location, on page 11	
6	OS Customization Process, on page 7	

### **Complete Automation Spreadsheet for Export**

### Prerequisite:

Before the Export process, ensure that the VM has only one Network Adapter to export.

When you complete the automation spreadsheet to export, fill only the columns so that the export automation script creates export *OVFs* in the *OVF* subfolder of the GoldenTemplate directory.

Column	Description	Example
CREATEVM	Select <b>NO</b> to skip VM creation.	NO
OPERATION	Select <b>ExportServer</b> to specify the operation you are performing with the script.	ExportServer
SOURCE_HOST_IP	The IP address of the physical server hosting the VM to be exported.	XX.XX.XXX.XXX
SOURCE_DATASTORE_NAME	The name of the Datastore defined in VMware.	datastore1(3)
SOURCE_VMNAME	The name of the VM that will be exported cannot contain spaces or special characters. Maximum of 32 characters.	TemplateRoggerA
GOLDEN_TEMPLATE_NAME	New Name for the Exported VM cannot contain spaces or special characters. Maximum of 32 characters.	CustomerRoggerA

Leave all the other columns blank.

## **Run Automation Script for Export**

The export script processes the data in the export spreadsheet and validates that the required fields are present in the correct format.

The script creates a folder from which you can import the OVF at the desired location.



Run the script from the GoldenTemplate directory.

### Before you begin

Download and install VMware vSphere PowerCLI on the client computer.

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Procedure
Launch VMware vSphere PowerCLI (32-Bit) as administrator.
Enter <b>get-executionPolicy</b> command to determine whether the Restricted Execution policy is in effect or is unrestricted.
If the policy is restricted, enter <b>set-executionPolicy</b> command. At the Supply Values prompt, enter <b>Unrestricted</b> and then enter <b>Y</b> . This changes the execution policy, so that you can run unsigned scripts that you write on your local computer and signed scripts from other users
Enter cd < GoldenTemplate directory> command.
Enter the command to run the automation script using the following syntax:

Example:
.\scripts\DeployVM.PS1
C:\GoldenTemplate\GoldenTemplate_VMDataSheet.xls
testvCenter testuser testpassword

This starts a script that parses the data, validates the data, and creates entries in the OVF folder in the GoldenTemplate directory.

Script is run despite errors. Errors get displayed on the screen and stored in the log file.

Script takes several hours to complete.

After completion, script generates a status report in the Report folder. The status report has a link to the Log file. Use this file to debug error conditions and to consult with Cisco Support.

Figure 3: Status Report of Golden Template Tool

### **Status Report of Golden Template Tool**

VM NAME	OPERATION	HOST IP	DATASTORE NAME	STATUS	DESCRIPTION
40PG-CUCM-Cust9-Pub	CREATE VM from A Template	aurora-f1-ch10-b3.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-CUCM-Cust9-Sub	CREATE VM from A Template	aurora-f1-ch10-b6.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-Finesse-Cust9-Pub	CREATE VM from A Template	aurora-f1-ch10-b3.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-Finesse-Cust9-Sub	CREATE VM from A Template	aurora-f1-ch10-b6.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-CUCM-Cust10-Pub	CREATE VM from A Template	aurora-f1-ch10-b3.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-CUCM-Cust10-Sub	CREATE VM from A Template	aurora-f1-ch10-b6.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-Finesse-Cust10-Pub	CREATE VM from A Template	aurora-f1-ch10-b3.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully
40PG-Finesse-Cust10-Sub	CREATE VM from A Template	aurora-f1-ch10-b6.cisco.com	Solidfire-HCS-40PG-3	Success	VM deployed successfully

Log File

**Related Topics** 

Automated Cloning and OS Customization, on page 2

### **Transport to Desired Location**

After the successful completion of export process, the OVF files can be transferred to any desired location.

You can also transfer the GoldenTemplate directory to a USB device.

Note In that case, you would complete the import spreadsheet and run the import script from the USB drive.

### **Ensure Readiness of the Location**

Before completing the import spreadsheet and running the import script, the environment must be set up with the following:

- the ESXihost or vCenter
- the datastores

# **Manual Cloning and OS Customization**

- Create Customization File for Windows Based Components, on page 11
- Deploy Virtual Machine from the Golden Template, on page 12
- Generate Answer File for VOS Product Virtual Machines, on page 12
- Copy Answer Files to Virtual Machines, on page 14

### **Create Customization File for Windows Based Components**

Complete the following procedure to create the customization file for windows based components .

### Procedure

Step 1	In VMware vSphere Client, choose View > Management > Customization Specification Manager.
Step 2	Click <b>New</b> .
Step 3	<ul> <li>On the New Customization Specification page, complete the new customization specification:</li> <li>a) From the Target Virtual Machine OS menu, choose Windows.</li> <li>b) Under the Customization Specification Information, enter a name for the specification and an optional description and click Next.</li> </ul>
Step 4	On the Registration Information page, specify the registration information for this copy of the guest operating system. Enter the virtual machine owner's name and organization and click <b>Next</b> .
Step 5	On the Computer Name page, click the most appropriate computer name option that identifies this virtual machine on the network.
Step 6	On the Windows License page, specify the Windows licensing information for this copy of the guest operating system:
	<ul> <li>a) Enter your product volume license key.</li> <li>b) Check Include Server License information (required to customize a server guest operating system).</li> <li>c) Click Per server to specify the server license mode. Enter 5 as the maximum number of connections you want the server to accept. Click Next</li> </ul>

Step 7	On the Administrator Password page, enter a password for the administrator account and confirm the password by reentering it. Click <b>Next</b> .
Step 8	On the Time Zone page, choose the time zone for the virtual machine and click Next.
Step 9	On the Run Once page, click Next.
Step 10	On the Network page, choose the type of network settings to apply to the guest operating system and click <b>Next</b> :
	<ul><li>a) Typical settings allow the vCenter server to configure all network interfaces from a DHCP server.</li><li>b) Custom settings require you to manually configure the network settings.</li></ul>
Step 11	On the Workgroup or Domain page, click Windows Server Domain and enter the destination domain, the username, and the password for a user account that has permission to add a computer to the specified domain.
Step 12	On the Operating System Options page, check Generate New Security ID (SID) to generate a new security identity and click <b>Next</b> .
Step 13	On the Ready to complete page, review your Customization File Summary, and then click Finish.

## **Deploy Virtual Machine from the Golden Template**

Complete the following procedure to deploy the virtual machine from the golden template. Use the deployment checklists to record the hosts, IP addresses, and SAN locations for your deployment.

### Procedure

Step 1	Right-click the template and choose Deploy Virtual Machine from this template.
Step 2	Enter a virtual machine name, choose a location, and click Next.
Step 3	On the Host/Cluster page, specify the host on which you want to store the template. Make sure that the host/cluster is valid. Click <b>Next</b> .
Step 4	Click <b>Advanced</b> . Specify a valid datastore for the virtual machine that complies with the Cisco HCS for CC for Contact Center component you deploy.
Step 5	Click Next.
Step 6	Make sure that the data store RAID levels for the component that you install comply with conditions specified in the table of SAN Configuration for your deployment model.
Step 7	Click <b>Thick provisioned Lazy Zeroed</b> to allocate a fixed amount of storage space to the virtual disk. Click <b>Next</b> .
Step 8	Click Customize using an existing customization specification and click Next.
Step 9	Select the customization file created in the Customization File for the Template.
Step 10	Review the settings for the new virtual machine. Click Finish.

## **Generate Answer File for VOS Product Virtual Machines**

Complete the following procedure to generate an answer file for VOS product Virtual machines.

### Procedure

0	pe	n the lir	nk http://www.cisco.com/web/cuc_afg/index.html.
С	Config		he following cluster-wide parameters:
a)	) 1	Under H	Hardware, select Virtual Machine for Primary Node Installed On.
b)	) 1	Under I	Product, select the product name and the product version.
c)	) 1	Under A	dministrator credentials, enter the administrator username and password, and confirm the password.
d)	) 1	Under S	Security Password, enter a password and confirm password.
e)	) 1	Under tl	ne Application user credentials, enter the application username, password, and confirm the password.
	1	Use the	same System Application or Administrator credentials for all nodes.
f)		Under C CM and	Certificate information, enter the organization name, unit, location, state, and country for the Unified I Unified Intelligence Center.
g)	) 1	Under S	SMTP, check the box Configure SMTP host and enter the SMTP location.
С	on	figure t	he following primary node parameters:
a)	) 1	Under N	VIC Interface Settings, check the check box Use Auto Negotiation.
	I	Note	Do not change the MTU settings.
b)	) 1	Under M	Network Information, enter the IP address, hostname ,IP mask, and gateway information.
	]	Do not	select the option Use DHCP for IP Address Resolution.
c)	) 1	Under I	DNS, select the option Configure Client DNS, and enter Primary DNS IP and DNS name.
d)	) 1	Under 7	Timezone, select the option Use Primary Time Zone Settings.
e)	)   ]	Under N name, o	Vetwork Time Protocol, check Use Network Time Protocol and enter the IP address, NTP server or NTP Server Pool name for at least one external NTP server.
С	on	figure t	he following secondary node parameters:
a)	) 1	Under N	VIC Interface Settings, check the check box Use Auto Negotiation.
	I	Note	Do not change the MTU settings.
b)	) 1	Under 1	Network Information, enter the IP address, hostname, IP mask, and gateway information.
	]	Do not	select the option Use DHCP for IP Address Resolution.
c) d) e)	) 1 ) 1	Under I Under 7 Under I	DNS, select the option <b>Configure Client DNS</b> , and enter primary DNS IP and DNS name. Fimezone, check <b>Use Primary Time Zone Settings</b> check box. List of Secondary Nodes, click <b>Add Secondary Node</b> .
C	lic	k <b>Gene</b>	rate Answer files & License MAC to download the answer file for publisher and first subscriber.
N	ote		For Unified CM, where an answer file for a second subscriber is required, close and open the answer file generator web page and enter the details for the publisher and second subscriber. Download the answer file for the second subscriber only, because you already downloaded the
P	erf	orm ste	provision in section for mounting the answer files to VM.

#### **Related Topics**

Copy Answer Files to Virtual Machines, on page 14

## **Copy Answer Files to Virtual Machines**

Golden Template automation tool generates answer files for unattended installations. Individual answer files get copied to the *C:\GoldenTemplateTool\_lO\PlatformConfigRepository* directory. These answer files are then converted to a floppy diskette file format and are used in addition to your VOS product DVD during the installation process.

### Before you begin

Download and then install WinImage 8.5 on the client computer from which the automation scripts will be run. http://winimage.com/download.htm

### Procedure

Step 1	Copy the generated Answer file to the folder and rename it to platformConfig.xml
	Example:
	Copy CUCM_PUB_SideA_platformConfig.xml to other location and rename it to platformConfig.xml
Step 2	Launch WinImage and select File > New > 1.44 MB and click OK
Step 3	Drag and drop <i>platformConfig.xml</i> into WinImage
Step 4	When prompted to inject the file, click Yes.
Step 5	Select File > Save As
Step 6	From the <b>Save as type</b> list, choose <b>Virtual floppy image</b> . Provide the file name as <i>platformConfig.flp</i> and click <b>Save</b>
Step 7	Open vSphere infrastructure client and connect to the vCenter. Go to the customer ESXi host where the VMs are deployed
Step 8	Navigate to the <b>Configuration</b> tab. In the storage section, right click on the Datastore and choose <b>Browse Datastore</b> , create a folder named <product_node></product_node>
	Example:
	CUCM_PUB.
Step 9	<b>Upload</b> the <i>platformConfig.flp</i> file to the folder <product_node>.</product_node>
	Example:
	CUCM_PUB.
Step 10	Navigate to the <product_node> Virtual Machine(<i>Ex; CUCM_PUB_SideA</i>). Right-click and choose <b>Edit Settings</b></product_node>
Step 11	On the Hardware tab, click <b>Floppy drive 1</b> , choose the radio button <b>Use The Existing Floppy Image in Datastore</b> .
Step 12	Mount the <b>platformConfig.flp</b> from the <product_node> folder (<i>Ex: CUCM_PUB</i>) on the data store and click <b>OK</b></product_node>
Step 13	Ensure that the Device status shows <b>Connect at Power On</b> checked for the Network adapter and for the Floppy drive and click <b>OK</b> .