

Deploying Virtual Apps and Desktops with Citrix Provisioning using Oracle Cloud Infrastructure

Citrix Virtual Apps and Desktops (formerly XenApp and XenDesktop) on Oracle Cloud (also known as Oracle Cloud Infrastructure or OCI) provides greater agility in provisioning applications and desktops. Using Oracle Cloud can supplement resources of on-premises datacenters, allowing IT to satisfy sudden demand and support rapid geo expansion. This document guides you through the process of configuring Citrix Virtual Apps and Desktops using Citrix Provisioning (formerly Citrix Provisioning Service/PVS) with Oracle Cloud.

Introduction

Whether your organization is just beginning to adopt the cloud or has already achieved a cloud first approach, Citrix Cloud meets you where you are in your cloud journey. Citrix cloud services are available to help extend existing on-premises Citrix software deployments, to help create hybrid workspace services, and to provide simple approaches to consuming cloud-native technology. By deploying Citrix software as a service, Citrix cloud services simplify management of Citrix technologies. Unify virtual apps, desktops, data, device management, and networking on any cloud or infrastructure. This integrated approach is the simplest way to securely create and deliver digital workspaces.

This deployment guide also describes Oracle Cloud Infrastructure concepts and components, and basic OCI implementation with Citrix cloud services. The architecture presented here delivers

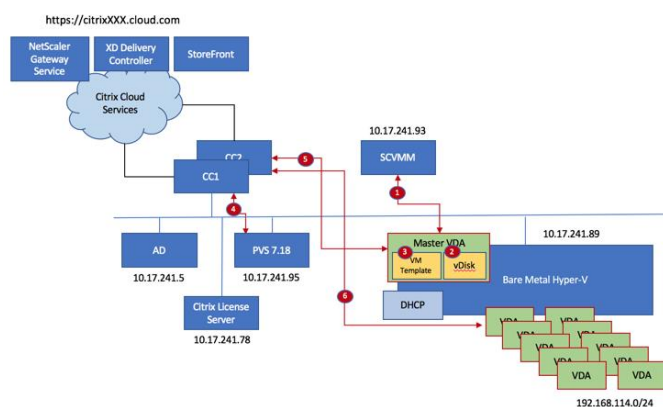
Citrix Virtual Apps and Desktops to users via Citrix cloud services using Citrix Provisioning. It enables a hybrid approach in which organizations can simplify the running of Citrix management services from on-premises to Citrix cloud services and use OCI to deliver cloud based virtual apps and desktop services. In the current release of this solution with OCI, there are some limitations within Citrix Cloud services that need to be considered when reviewing the overall solution. Oracle Cloud Infrastructure, is Oracle's second generational cloud infrastructure and was built from the ground up to be an Enterprise Cloud, equally capable of running traditional multi-tiered enterprise applications, high-performance workloads, and modern serverless and container-based architectures

To understand design decisions, this paper describes underlying Oracle Cloud and Citrix components that are required for a deployment and explains the process for deploying Citrix cloud services with OCI using Citrix Provisioning.

The first part of this guide describes the solution architecture. The second part is a "runbook" that gives specific procedures to install and configure a proof of concept Citrix Virtual Apps and Desktops deployment using Citrix Provisioning on Oracle Cloud Infrastructure from Citrix Cloud.

PVS image and VMM VM template creation for XenApp and XenDesktop delivery on Oracle Cloud Infrastructure (OCI) over Citrix Cloud.

PVS managed by Citrix Cloud deployment architecture	
PVS over Citrix Cloud requirements	1. XenApp and XenDesktop services in Citrix Cloud; OrgID needs to have <u>PVS support in Cloud toggle</u> enabled 2. Citrix Cloud Connectors located on-premises (OCI) 3. PVS server located on-premises (OCI); 7.18 or later 4. XenApp and XenDesktop Remote PowerShell SDK on PVS server which is available at https://docs.citrix.com/en-us/xenapp-and-xendesktop/service/sdk-api.html 5. The Licensing server located on on-premises (OCI) – the <u>PVS cloud feature license</u> to be retrieved from Citrix Cloud account to be imported to on-premises license server.



- Option **066** (Boot Server Host Name)
- Option **067** (Bootfile Name – pvsnbpx64.efi for Gen2 VM)

Option Name	Vendor	Value	Policy Name
003 Router	Standard	192.168.114.1	None
006 DNS Servers	Standard	10.17.241.5	None
011 Resource Location Ser...	Standard	10.17.241.95	None
066 Boot Server Host Name	Standard	PVS-178	None
067 Bootfile Name	Standard	pvsnp64.efi	None
121 Classless Static Routes	Standard	10.17.111.0, 255.255.255.0, 192.168...	None



pvs-7-18

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[Reboot](#)
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Instance Information

Availability Domain: `us-east-1-az-1`

OCID: `ocid1.instance.oc1-us-east-1...`

Launched: `Fri, 15 Jun 2018 14:19:02 GMT`

Compartment: `ocid1.compartment.oc1-us-east-1...`

Virtual Cloud Network: `vcn-ocid1.vcn.oc1-us-east-1...`

Launch Mode: `NATIVE`

Image: `Windows-Server-2012-R2-Standard-Edition-VM-2018.05.21-amzn2018.05.21.x86_64-hvm-gp2`

Region: `us-east-1`

Shape: `VM.Standard1.8`

Username: `opc`

Initial Password: `...`

Primary VNIC Information

Private IP Address: `10.17.241.95`

Public IP Address: `129.213.96.231`

Internal FQDN: `pvs-7-18...us-east-1.amazonaws.com`

Subnet: `subnet-ocid1.subnet.oc1-us-east-1...`

Provisioning Services 7.18

Release Date: Jun 5, 2018

Customer Success Services / Software Maintenance / Subscription Advantage eligibility date: May 18, 2018

For information, refer to the [Product Documentation](#).

Provisioning Services 7.18

Jun 5, 2018

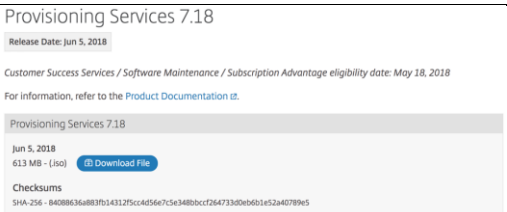
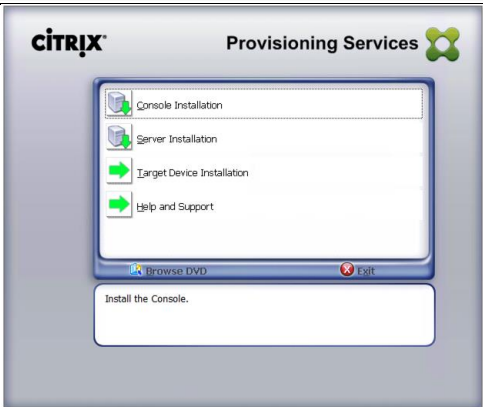
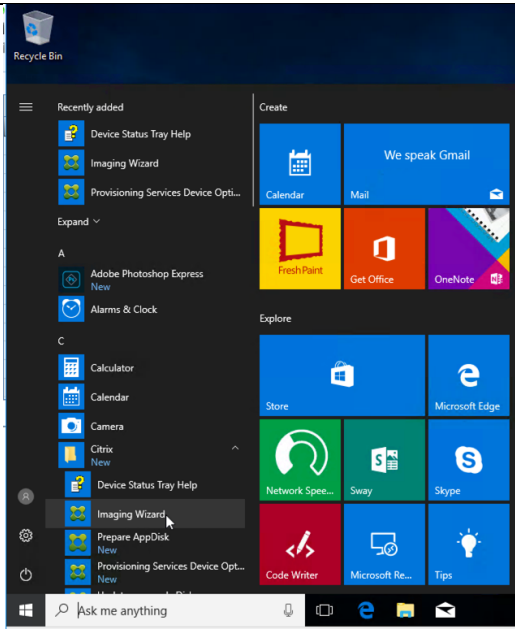
613 MB - (.iso) [Download File](#)

Checksum

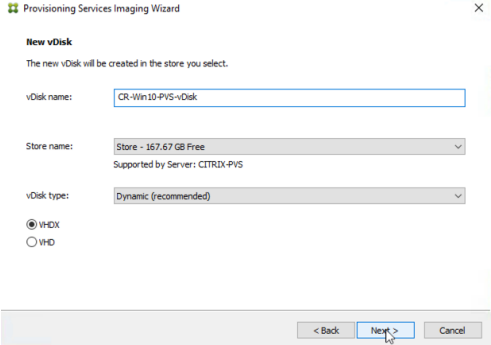
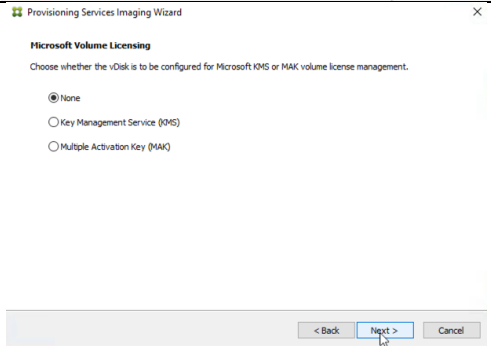
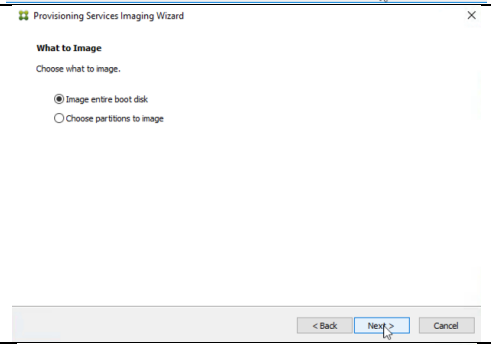
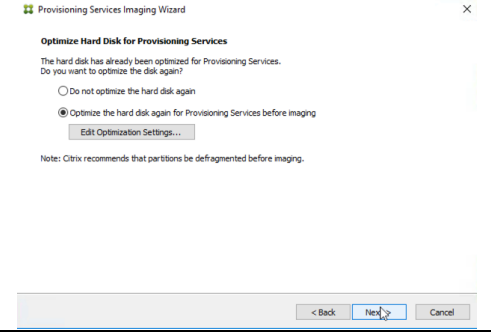
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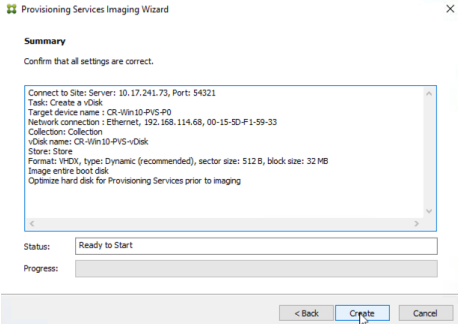
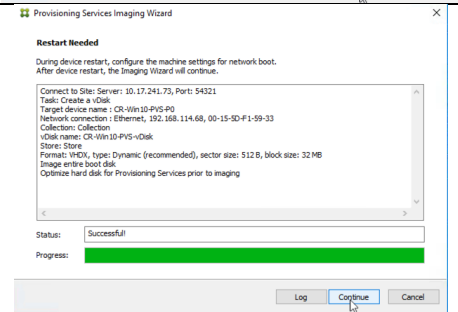
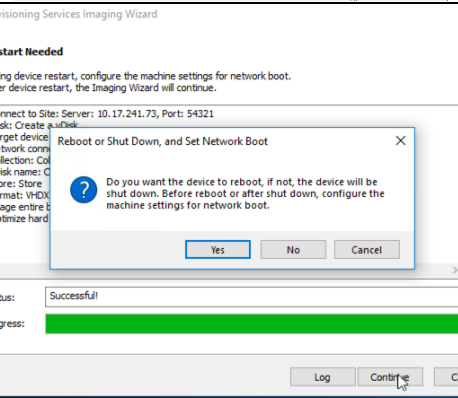
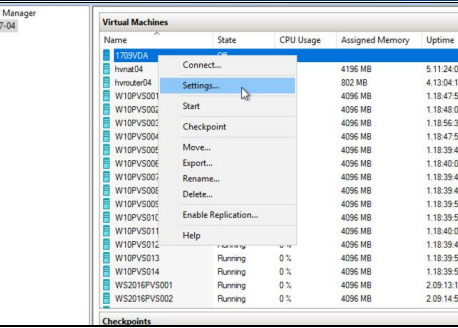
Choose PVS Server Installation	
Next	
DHCP - The service that runs on another computer	
PXE – Provisioning Services PXE service on this computer	

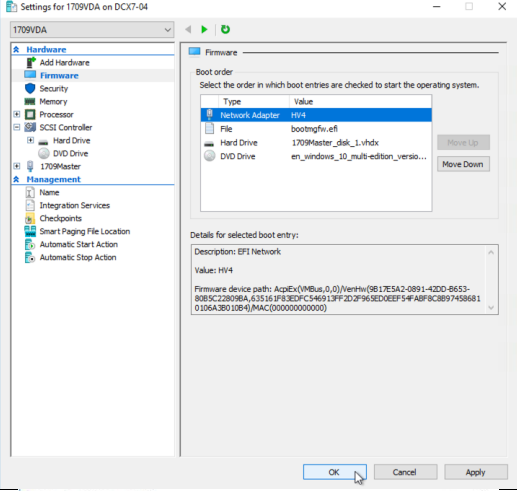
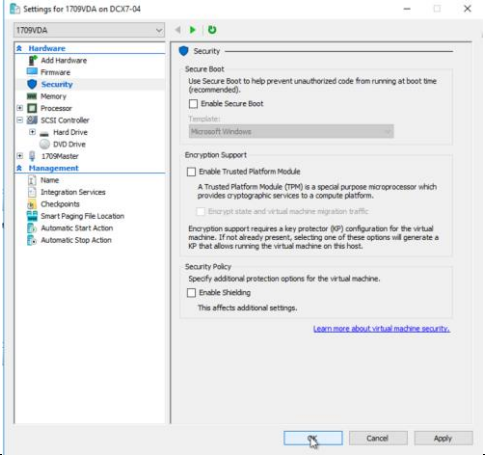
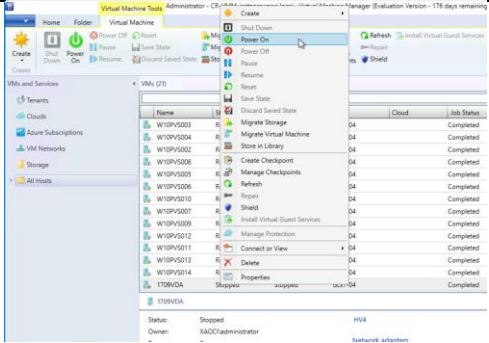
Database Server		
Farm – Create farm		
Choose PVS Console Installation		
Confirm that Farm and Site are configured successfully		
(1) Creating Master VDA		
On SCVMM, create a VM		

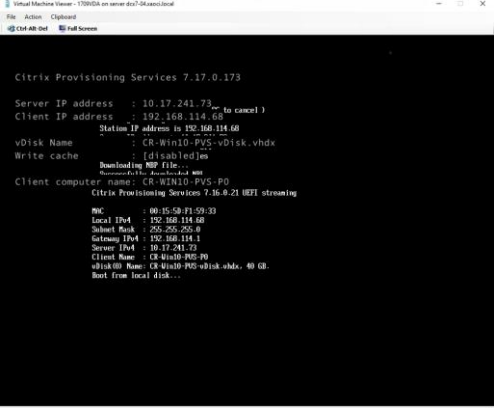
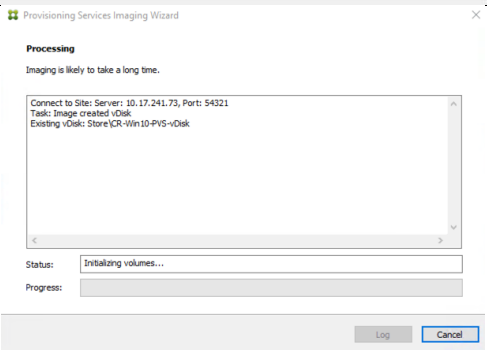
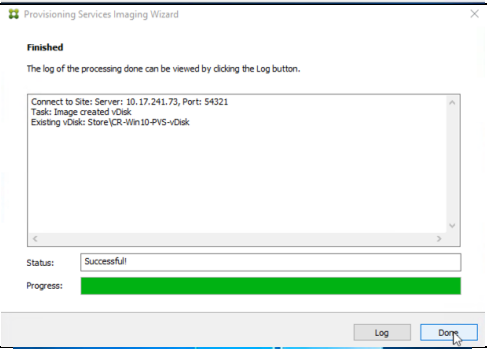
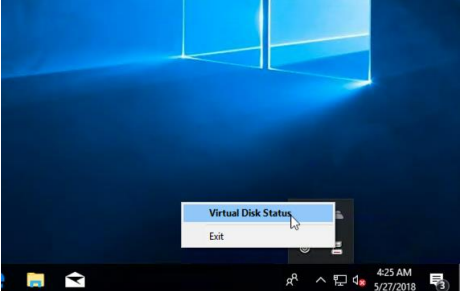
which will be used as a master image for vDisk and VM Template	VM needs to be joined to Active Directory Domain and Citrix VDA to be installed before next steps.
On <u>VM</u> which was just created, install latest PVS (7.18 or later) from Citrix	
Choose Target Device Installation	
On the same <u>VM</u> , open Imaging Wizard after PVS has been installed	
(2) Set up vDisk	

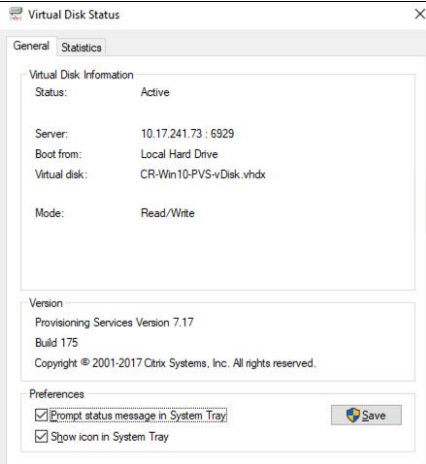
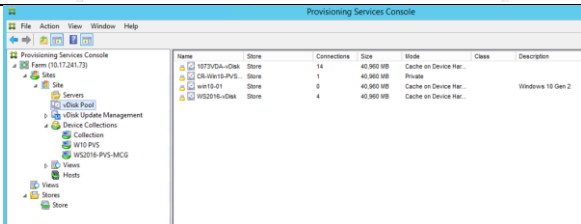
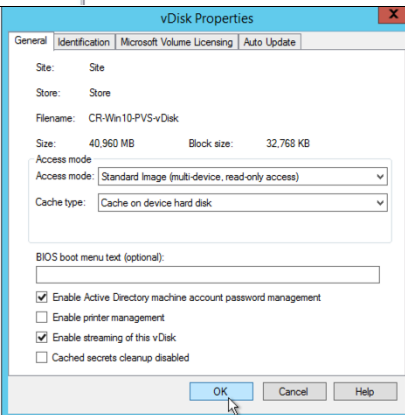
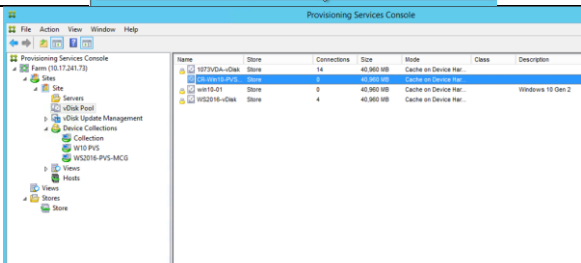
Click Next.	The Provisioning Services Imaging Wizard is a tool used to create and manage virtual disks (vDisks) for Citrix Provisioning. The welcome screen provides an overview of the wizard's purpose and the steps involved in the process.
Add PVS Server name or IP then Next.	This screen prompts the user to enter the details of the Provisioning Services site. The fields include the Server name or IP (10.17.241.73), Port (54321), and Logon Credentials (User name, Domain, Password). The 'Next' button is highlighted.
Choose Create a vDisk then Next.	This screen allows the user to select the task they want to perform. The options are: Create a vDisk (selected), Recreate an existing vDisk, Create an image file, and Copy a hard disk volume to a vDisk volume. The 'Next' button is highlighted.
Add Target device name then Next. This is your master VM host name.	This screen prompts the user to add a target device. The fields include the Target device name (CR-Win10-PVS-P0), Network connection (Ethernet, 192.168.114.68, 00-15-5D-F1-59-33), and Collection name (Collection). The 'Next' button is highlighted.

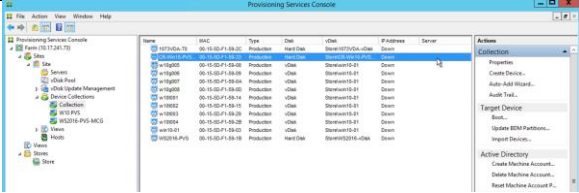
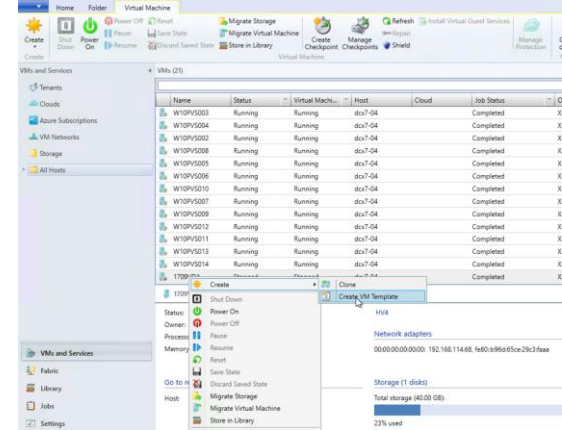
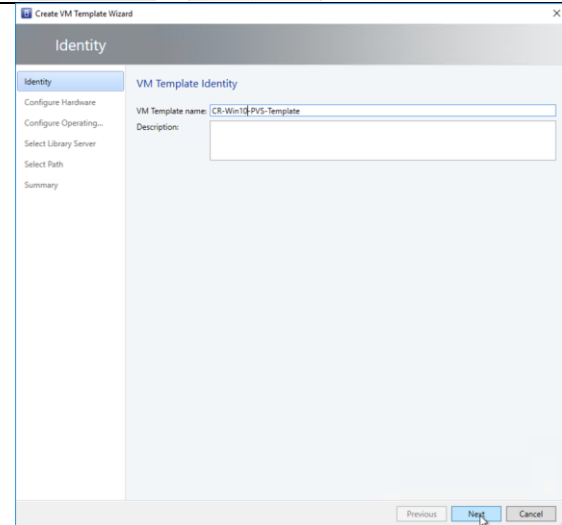
Add vDisk name then Next. This will be master vDisk to be streamed when provision is set up and will be listed under vDisk pool.	 The screenshot shows the 'New vDisk' step of the Provisioning Services Imaging Wizard. It includes fields for 'vDisk name' (CR-Win10-PVS-vDisk), 'Store name' (Store - 167.67 GB Free), and 'vDisk type' (Dynamic (recommended)). There are radio buttons for 'VHDX' (selected) and 'VHD'. Navigation buttons at the bottom are '< Back', 'Next >', and 'Cancel'.
Choose the correct Microsoft Volume Licensing option	 The screenshot shows the 'Microsoft Volume Licensing' step. It asks to choose whether the vDisk is to be configured for Microsoft KMS or MAK volume license management. There are three radio button options: 'None' (selected), 'Key Management Service (KMS)', and 'Multiple Activation Key (MAK)'. Navigation buttons at the bottom are '< Back', 'Next >', and 'Cancel'.
Image entire boot disk	 The screenshot shows the 'What to Image' step. It asks to choose what to image. There are two radio button options: 'Image entire boot disk' (selected) and 'Choose partitions to image'. Navigation buttons at the bottom are '< Back', 'Next >', and 'Cancel'.
Optimize the hard disk again for Provisioning Services before imaging	 The screenshot shows the 'Optimize Hard Disk for Provisioning Services' step. It states that the hard disk has already been optimized and asks if the user wants to optimize it again. There are two radio button options: 'Do not optimize the hard disk again' and 'Optimize the hard disk again for Provisioning Services before imaging' (selected). There is an 'Edit Optimization Settings...' button. A note at the bottom states: 'Note: Citrix recommends that partitions be defragmented before imaging.' Navigation buttons at the bottom are '< Back', 'Next >', and 'Cancel'.

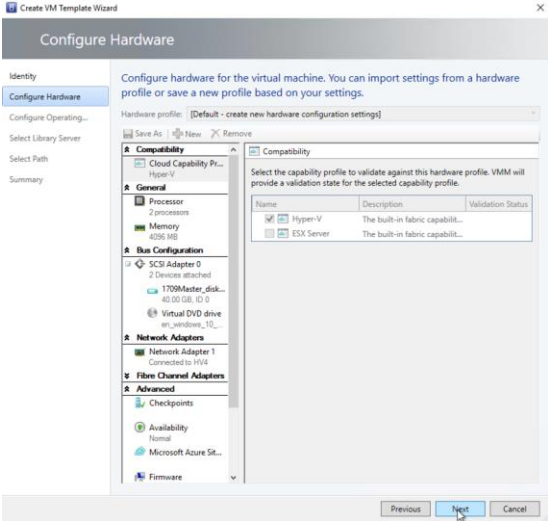
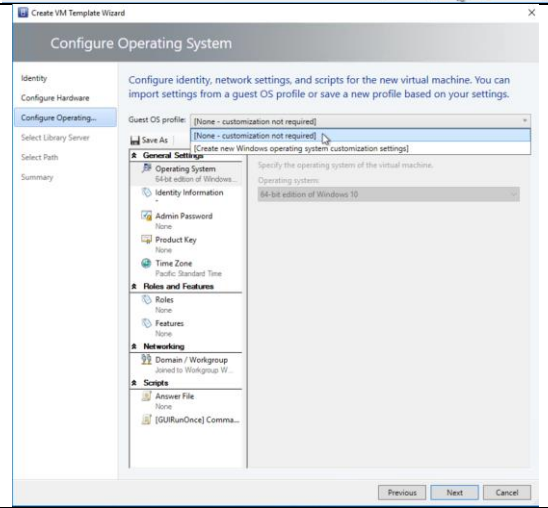
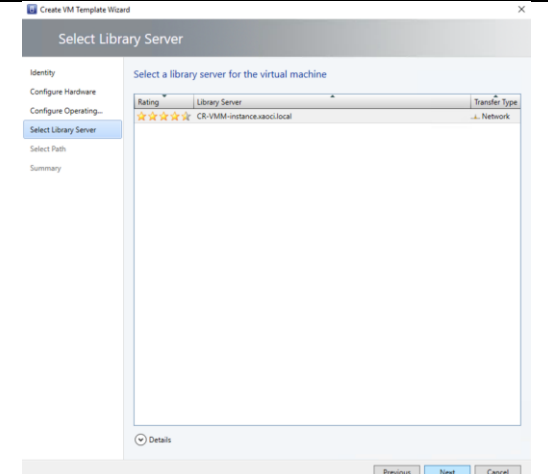
Confirm Summary and click Create.	 The screenshot shows the 'Summary' screen of the Provisioning Services Imaging Wizard. It lists configuration details such as 'Connect to Site: Server: 10.17.241.73, Port: 54321', 'Task: Create a vDisk', 'Target device name: CR-Win10-PVS-P0', 'Network connection: Ethernet, 192.168.114.68, 00-15-5D-F1-99-33', 'Collection: Collection', 'vDisk name: CR-Win10-PVS-vDisk', 'Store: Store', 'Format: VHDX, type: Dynamic (recommended), sector size: 512 B, block size: 32 MB', 'Image entire boot disk', and 'Optimize hard disk for Provisioning Services prior to imaging'. The status is 'Ready to Start' and the progress bar is empty. At the bottom, there are buttons for '< Back', 'Create', and 'Cancel'.
Continue	 The screenshot shows the 'Restart Needed' screen of the Provisioning Services Imaging Wizard. It contains the same configuration details as the previous screen. The status is 'Successful' and the progress bar is green. At the bottom, there are buttons for 'Log', 'Continue', and 'Cancel'.
Reboot or Shut Down and Set Network Boot. No to shutdown the VM in order to configure network boot and other boot configuration in Hyper-V manager and SCVMM.	 The screenshot shows the 'Restart Needed' screen of the Provisioning Services Imaging Wizard. A dialog box is overlaid on top of the main window. The dialog box has a question mark icon and the text: 'Reboot or Shut Down, and Set Network Boot. Do you want the device to reboot, if not, the device will be shut down. Before reboot or after shut down, configure the machine settings for network boot.' There are 'Yes', 'No', and 'Cancel' buttons in the dialog box. The main window's status is 'Successful' and the progress bar is green. At the bottom, there are buttons for 'Log', 'Continue', and 'Cancel'.
On Hyper-V manager, go to the VM then Settings	 The screenshot shows the Hyper-V Manager console. The 'Virtual Machines' list is displayed with columns: Name, State, CPU Usage, Assigned Memory, and Uptime. The list includes several VMs, with 'W10PVS001' through 'W10PVS014' and 'WS2016PVS001' through 'WS2016PVS002'. The 'Settings...' button is highlighted for the 'W10PVS001' VM.

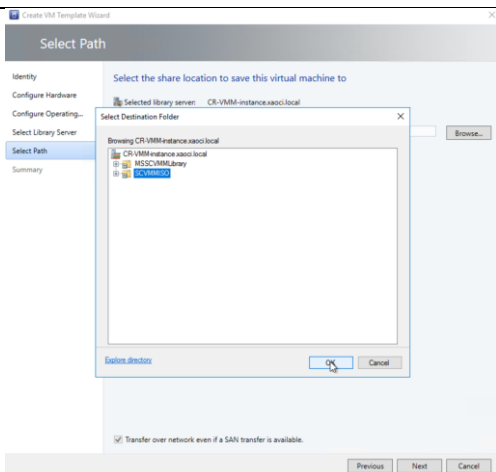
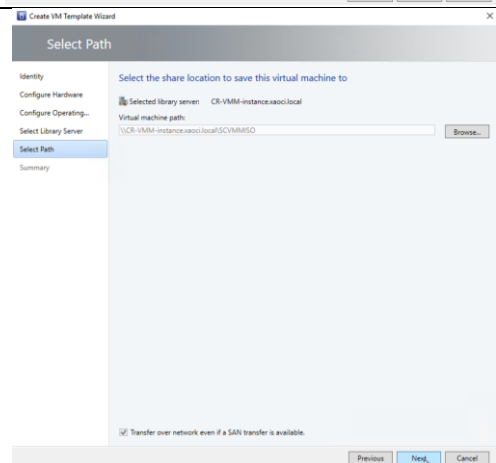
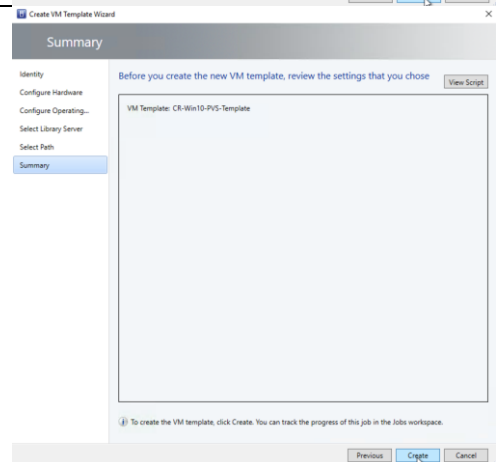
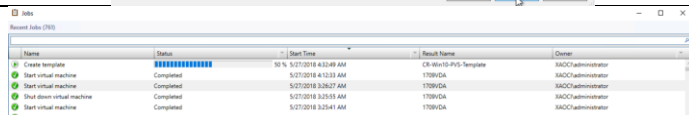
Under Firmware, Move up Network Adapter to the first line for network boot	
Under Security, uncheck Enable Security Boot option.	
On SCVMM, go to the VM, choose Power On	
Choose Connect via Console under Connect or View	

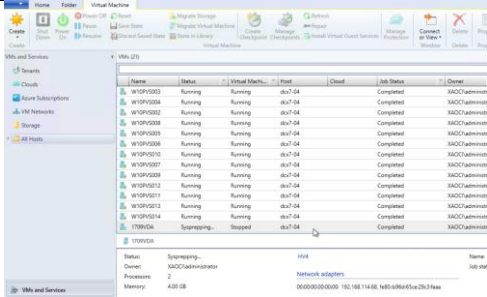
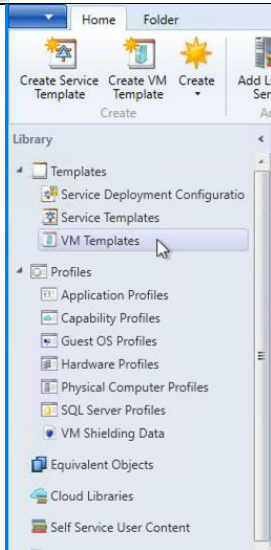
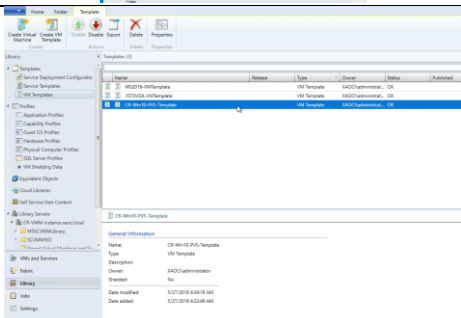
Confirm the VM was booted via network.	 <pre> Citrix Provisioning Services 7.17.0.173 Server IP address : 10.17.241.73 Client IP address : 192.168.114.68 Station IP address is 192.168.114.68 vDisk Name : CR-Win10-PVS-vDisk.vhdx Write cache : [disabled] Downloading MOP file... Client computer name: CR-WIN10-PVS-P0 Citrix Provisioning Services 7.16.0.21 HPT streaming NIC : 00:15:58-F1:59:33 Local IPv4 : 192.168.114.68 Subnet Mask : 255.255.255.0 Gateway IPv4 : 192.168.114.1 Server IPv4 : 10.17.241.73 Client Name : CR-Win10-PVS-P0 vDisk File Name: CR-Win10-PVS-vDisk.vhdx, 60 GB Boot from local disk... </pre>
Once the VM is up, the image creation process is automatically started.	 Processing Imaging is likely to take a long time. Connect to Site: Server: 10.17.241.73, Port: 54321 Task: Image created vDisk Existing vDisk: Store\CR-Win10-PVS-vDisk Status: Initializing volumes... Progress: [Progress bar] Log Cancel
After about 10 min, the process will be finished. Click Done.	 Finished The log of the processing done can be viewed by clicking the Log button. Connect to Site: Server: 10.17.241.73, Port: 54321 Task: Image created vDisk Existing vDisk: Store\CR-Win10-PVS-vDisk Status: Successful Progress: [Full green progress bar] Log Done
On VM, go to Virtual Disk Status from the tray.	 Virtual Disk Status Exit

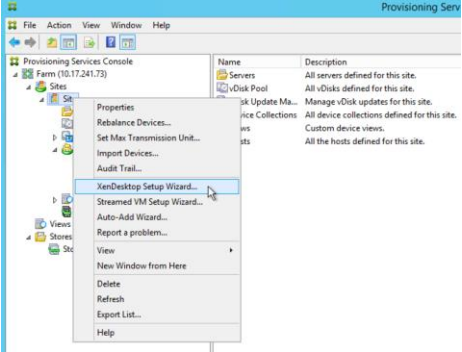
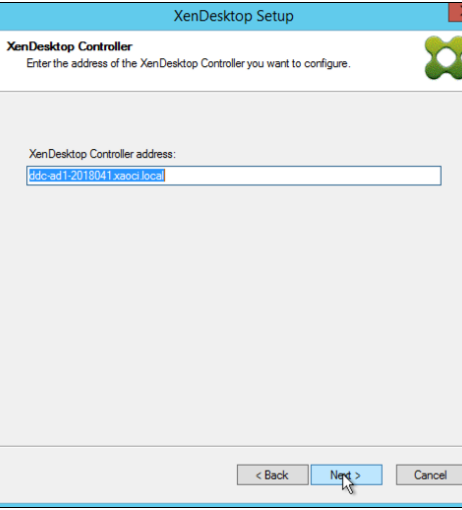
Confirm the VM was booted from Local Hard Disk .																																				
On <u>PVS server</u> , vDisk from VM was populated in vDisk Pool . Choose Properties.	 <table><thead><tr><th>Name</th><th>Store</th><th>Connections</th><th>Size</th><th>Role</th><th>Class</th><th>Description</th></tr></thead><tbody><tr><td>10775D5A-vDisk</td><td>Store</td><td>14</td><td>40,960 MB</td><td>Cache on Device Har...</td><td></td><td></td></tr><tr><td>CR-Win10-PVS-vDisk</td><td>Store</td><td>1</td><td>40,960 MB</td><td>Image</td><td></td><td></td></tr><tr><td>win10-01</td><td>Store</td><td>0</td><td>40,960 MB</td><td>Cache on Device Har...</td><td>Windows 10 Gen 2</td><td></td></tr><tr><td>W102016-c206</td><td>Store</td><td>4</td><td>40,960 MB</td><td>Cache on Device Har...</td><td></td><td></td></tr></tbody></table>	Name	Store	Connections	Size	Role	Class	Description	10775D5A-vDisk	Store	14	40,960 MB	Cache on Device Har...			CR-Win10-PVS-vDisk	Store	1	40,960 MB	Image			win10-01	Store	0	40,960 MB	Cache on Device Har...	Windows 10 Gen 2		W102016-c206	Store	4	40,960 MB	Cache on Device Har...		
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Under Access mode, choose Standard image and Cache on device hard disk as Cache type.																																				
Confirm the change under mode.	 <table><thead><tr><th>Name</th><th>Store</th><th>Connections</th><th>Size</th><th>Role</th><th>Class</th><th>Description</th></tr></thead><tbody><tr><td>10775D5A-vDisk</td><td>Store</td><td>14</td><td>40,960 MB</td><td>Cache on Device Har...</td><td></td><td></td></tr><tr><td>CR-Win10-PVS-vDisk</td><td>Store</td><td>2</td><td>40,960 MB</td><td>Image</td><td></td><td></td></tr><tr><td>win10-01</td><td>Store</td><td>0</td><td>40,960 MB</td><td>Cache on Device Har...</td><td>Windows 10 Gen 2</td><td></td></tr><tr><td>W102016-c206</td><td>Store</td><td>4</td><td>40,960 MB</td><td>Cache on Device Har...</td><td></td><td></td></tr></tbody></table>	Name	Store	Connections	Size	Role	Class	Description	10775D5A-vDisk	Store	14	40,960 MB	Cache on Device Har...			CR-Win10-PVS-vDisk	Store	2	40,960 MB	Image			win10-01	Store	0	40,960 MB	Cache on Device Har...	Windows 10 Gen 2		W102016-c206	Store	4	40,960 MB	Cache on Device Har...		
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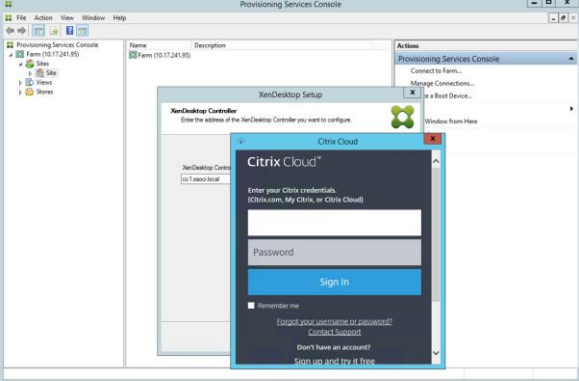
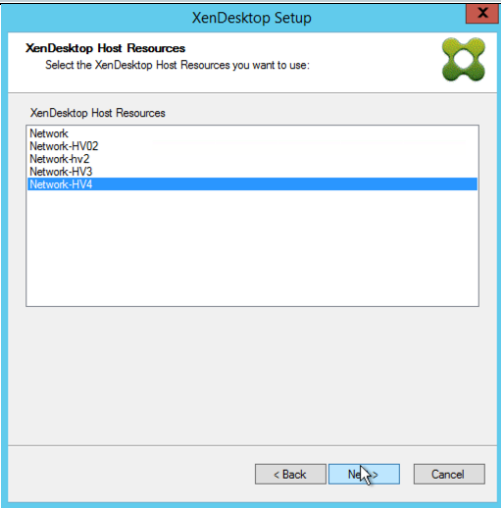
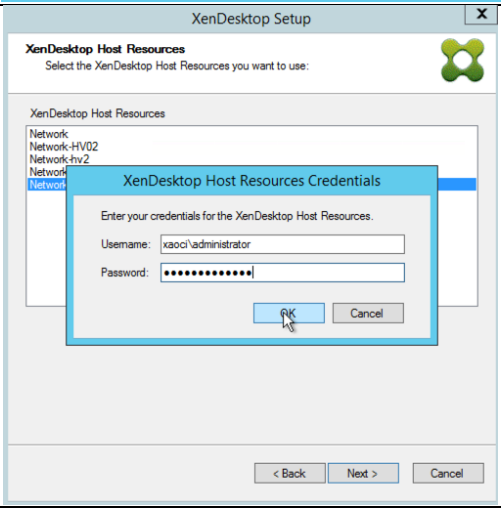
Under <u>collection</u>, confirm the line entry of target device name (i.e., VM)	
(3) Creating VM Template	
On SCVMM, after shutting down the VM, choose Create VM Template.	
Name VM Template name then Next.	

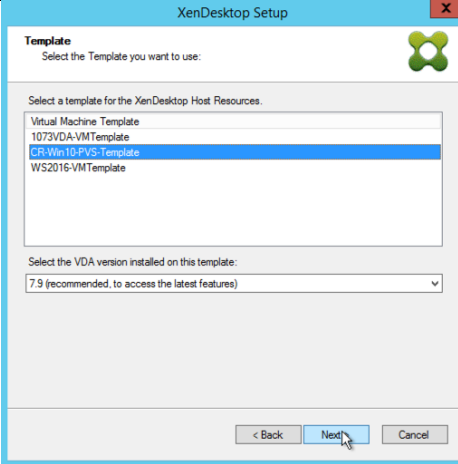
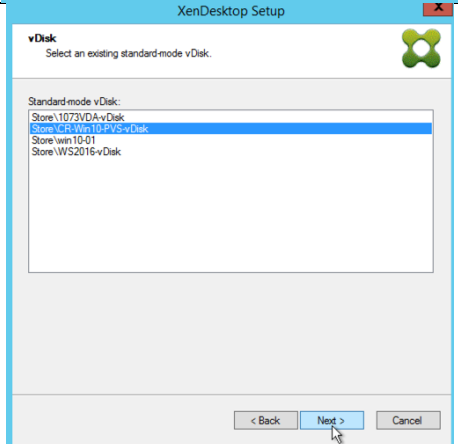
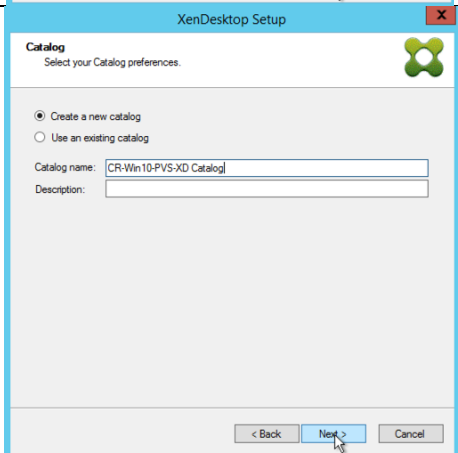
Next	
Choose [None – customization not required] then Next.	
Next	

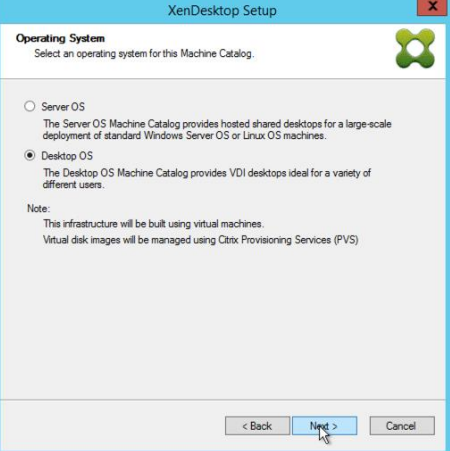
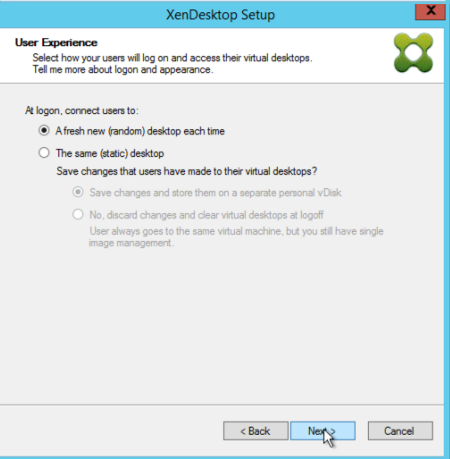
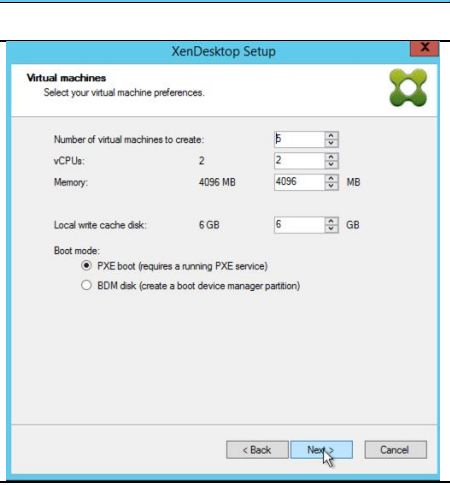
Choose the path to save the template in SCVMM.																																				
Next																																				
Create																																				
Confirm the template is being created.	 <table><thead><tr><th>Name</th><th>Status</th><th>Start Time</th><th>Result Name</th><th>Owner</th></tr></thead><tbody><tr><td>Create template</td><td>In Progress</td><td>5/27/2018 4:12:48 AM</td><td>CR-Win10-PVS-Template</td><td>Administrator</td></tr><tr><td>Start virtual machine</td><td>Completed</td><td>5/27/2018 4:12:53 AM</td><td>1708VGA</td><td>Administrator</td></tr><tr><td>Start virtual machine</td><td>Completed</td><td>5/27/2018 5:26:27 AM</td><td>1708VGA</td><td>Administrator</td></tr><tr><td>Start down virtual machine</td><td>Completed</td><td>5/27/2018 5:25:55 AM</td><td>1708VGA</td><td>Administrator</td></tr><tr><td>Start virtual machine</td><td>Completed</td><td>5/27/2018 5:25:41 AM</td><td>1708VGA</td><td>Administrator</td></tr><tr><td>Remove resource</td><td>Completed</td><td>5/27/2018 5:48:45 AM</td><td>Object Deleted</td><td>Administrator</td></tr></tbody></table>	Name	Status	Start Time	Result Name	Owner	Create template	In Progress	5/27/2018 4:12:48 AM	CR-Win10-PVS-Template	Administrator	Start virtual machine	Completed	5/27/2018 4:12:53 AM	1708VGA	Administrator	Start virtual machine	Completed	5/27/2018 5:26:27 AM	1708VGA	Administrator	Start down virtual machine	Completed	5/27/2018 5:25:55 AM	1708VGA	Administrator	Start virtual machine	Completed	5/27/2018 5:25:41 AM	1708VGA	Administrator	Remove resource	Completed	5/27/2018 5:48:45 AM	Object Deleted	Administrator
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Remove resource	Completed	5/27/2018 5:48:45 AM	Object Deleted	Administrator																																

Confirm the sysprepping is running under the VM.	
When completed, confirm under VM Template.	
Confirm the line item that VM Template was created and listed.	
(4) Creating Machine Catalog	

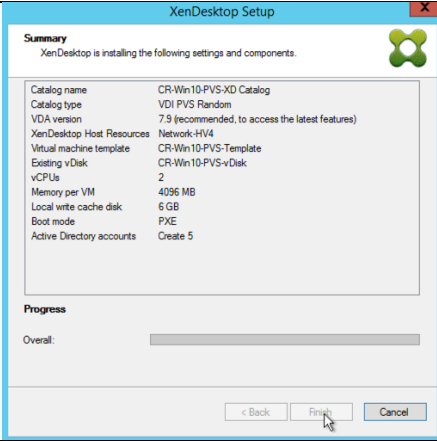
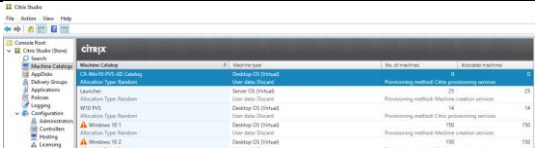
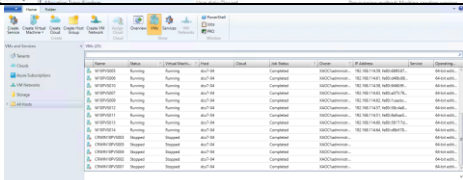
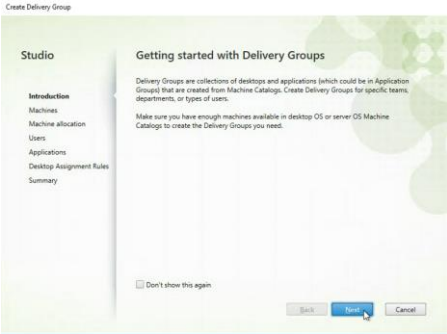
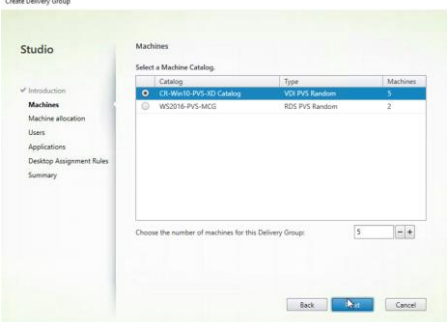
Creating XenDesktop Machine Catalog. On <u>PVS server</u>, choose XenDesktop Setup Wizard from right click on Site	
Next	
Add delivery controller (Citrix Cloud Connector address) name.	

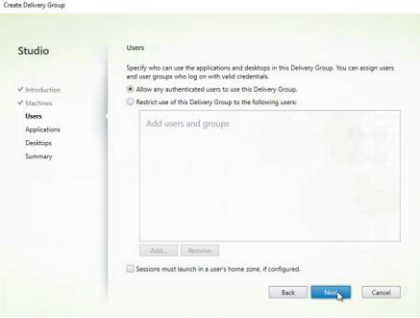
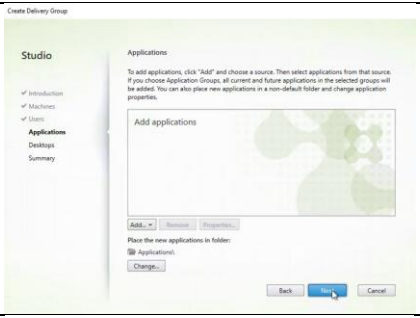
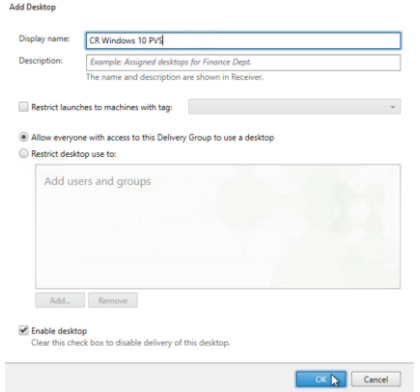
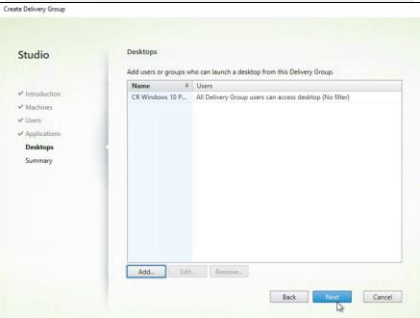
Log in to Citrix Cloud account	
Choose the Host Resources from Hyper-V.	
Add Password for Host Resources credentials.	
(5) vDisk and VM template for XenDesktop Setup Wizard	

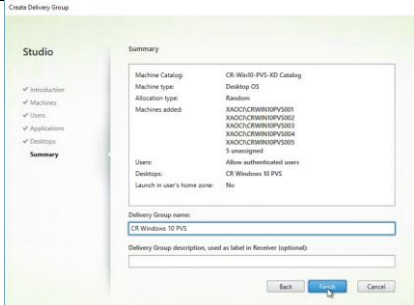
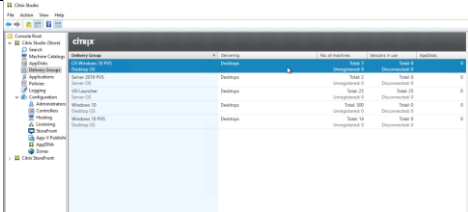
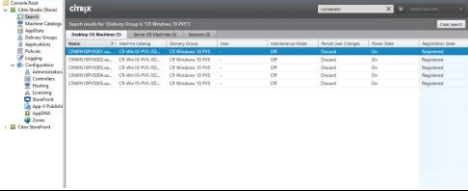
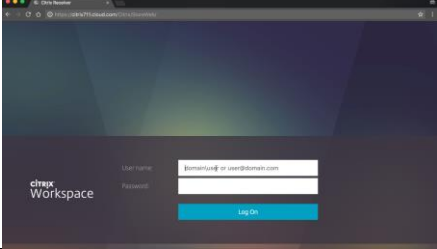
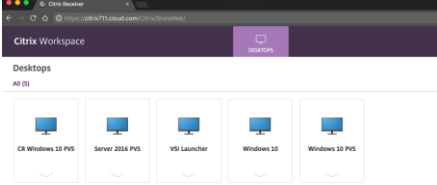
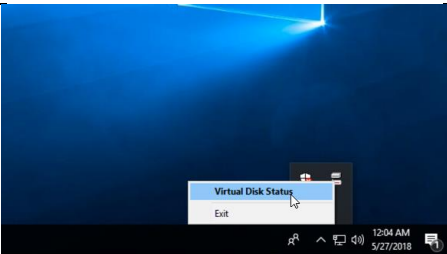
Choose the template which was just created.	 The screenshot shows the 'XenDesktop Setup' window with the 'Template' tab selected. It prompts the user to 'Select the Template you want to use:'. Under 'Select a template for the XenDesktop Host Resources', a list of templates is shown: 'Virtual Machine Template', '1073VDA-VMTemplate', 'CR-Win10-PVS-Template' (which is highlighted), and 'WS2016-VMTemplate'. Below this, there is a dropdown for 'Select the VDA version installed on this template:' with '7.9 (recommended, to access the latest features)' selected. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.
Choose the vDisk which was just created.	 The screenshot shows the 'XenDesktop Setup' window with the 'vDisk' tab selected. It prompts the user to 'Select an existing standard-mode vDisk:'. Under 'Standard-mode vDisk:', a list of vDisks is shown: 'Store\1073VDA-vDisk', 'Store\CR-Win10-PVS-vDisk' (which is highlighted), 'Store-Win10-01', and 'Store\WS2016-vDisk'. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.
Add new Machine Catalog name. This is going to be used in Delivery Controller for XenApp and XenDesktop machine catalog.	 The screenshot shows the 'XenDesktop Setup' window with the 'Catalog' tab selected. It prompts the user to 'Select your Catalog preferences.'. There are two radio buttons: 'Create a new catalog' (which is selected) and 'Use an existing catalog'. Below these are two text input fields: 'Catalog name:' with 'CR-Win10-PVS-XD Catalog' entered, and 'Description:' which is empty. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

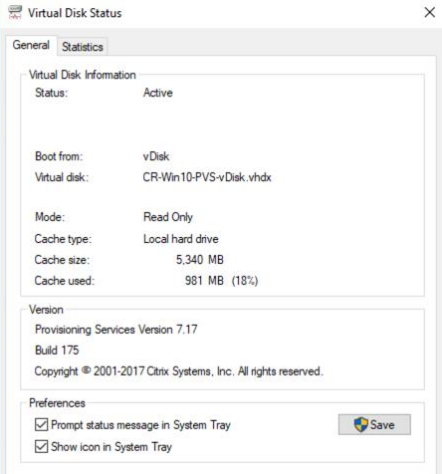
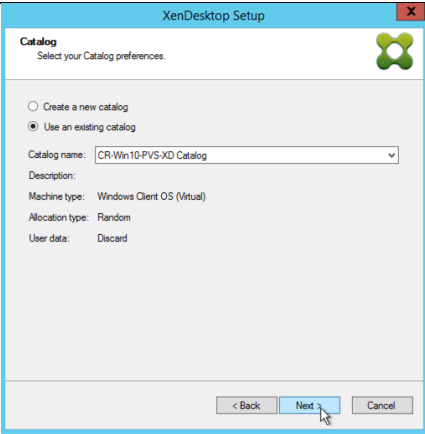
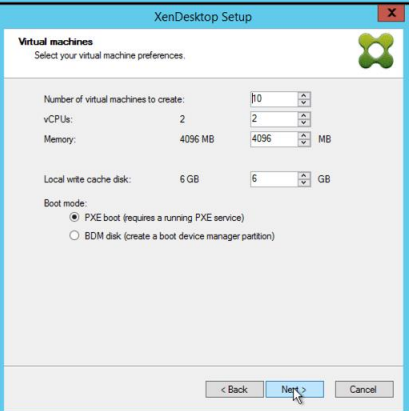
Choose Operating System type.		 The screenshot shows the 'Operating System' selection screen in the XenDesktop Setup wizard. It has two radio buttons: 'Server OS' and 'Desktop OS'. 'Desktop OS' is selected. Below the buttons is a 'Note' stating that the infrastructure will be built using virtual machines and managed by Citrix Provisioning Services (PVS). At the bottom are '< Back', 'Next >', and 'Cancel' buttons.
User Experience. Used random in this test.		 The screenshot shows the 'User Experience' configuration screen. It asks how users will log on and access their virtual desktops. The 'A fresh new (random) desktop each time' option is selected. Below, it asks to 'Save changes that users have made to their virtual desktops?' with two options: 'Save changes and store them on a separate personal vDisk' (selected) and 'No, discard changes and clear virtual desktops at logoff'. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.
(6) Provisioning VDAs Choose number of virtual machines to be provisioned.		 The screenshot shows the 'Virtual machines' configuration screen. It allows setting preferences for virtual machines. Fields include: 'Number of virtual machines to create' (5), 'vCPUs' (2), 'Memory' (4096 MB), and 'Local write cache disk' (6 GB). Under 'Boot mode', 'PXE boot (requires a running PXE service)' is selected. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

Next			
Click the active directory domain name then add scheme of naming convention in machine catalog.			
Finish			

Confirm the progress of creating virtual machines.	
On <u>XAXD</u> cloud studio (<u>DCC</u>), confirm the machine catalog was just created.	
On <u>SCVMM</u> , the individual virtual machines are provisioned.	
On DDC, create a delivery group.	
Choose the machine catalog that was created.	

Add users as appropriated. Then Next.	
Add applications as appropriated. Then Next	
Add Display name. Then OK	
Click Next	

Add Delivery Group name.	
Confirm <u>Delivery Group</u> in DDC	
Confirm machine list (and VMs' registration status) via View Machines in DDC	
Access to the external URL. This is to access XenApp and XenDesktop environment on OCI via NetScaler Gateway Service in Citrix Cloud.	
Confirm the newly created delivery group name in Workspace (e.g., CR Windows 10 PVS in this example)	
Login to desktop by choosing the delivery group. Choose Virtual Desk Status .	

Check the virtual disk status. Confirm <u>Boot from vDisk</u> and <u>Cache type</u> as Local hard drive.	
If additional virtual machines are needed in the same machine catalog, follow up and repeat earlier steps from XenDesktop Start Wizard in PVS server. Then choose User an existing catalog instead of Create a new catalog.	
Choose number of virtual machines to create as needed. Then Next.	

Choose Create new accounts . The Next.		
Choose the existing active directory domain. And account naming scheme as previously used.		
Finish to confirm and start the provisioning machine creation.		
On SCVMM, the additional virtual machines being created and configured.		

[illegible][illegible]

Virtual Machines	Name	State	CPU Usage	Assigned Memory	Uptime	Status	Configure...
VMware Workstation Player	VMware Workstation Player	Running	0%	4096 MB	2:17:47	OK	...
VMware Workstation Player	CHINA-VP0002	Running	0%	4096 MB	30:15:31	OK	...
VMware Workstation Player	CHINA-VP0003	Running	0%	4096 MB	30:15:53	OK	...
VMware Workstation Player	CHINA-VP0004	Running	0%	4096 MB	30:16:53	OK	...
VMware Workstation Player	CHINA-VP0005	Running	0%	4096 MB	30:22:52	OK	...
VMware Workstation Player	CHINA-VP0006	Running	0%	4096 MB	30:21:49	OK	...
VMware Workstation Player	CHINA-VP0007	Running	0%	4096 MB	30:21:43	OK	...
VMware Workstation Player	CHINA-VP0008	Running	0%	4096 MB	30:21:52	OK	...
VMware Workstation Player	CHINA-VP0009	Running	0%	4096 MB	30:21:47	OK	...
VMware Workstation Player	CHINA-VP0010	Running	0%	4096 MB	30:21:46	OK	...
VMware Workstation Player	CHINA-VP0011	Running	0%	4096 MB	30:21:53	OK	...
VMware Workstation Player	CHINA-VP0012	Running	0%	4096 MB	30:21:46	OK	...
VMware Workstation Player	CHINA-VP0013	Running	0%	4096 MB	30:21:54	OK	...
VMware Workstation Player	CHINA-VP0014	Running	0%	4096 MB	30:21:46	OK	...
VMware Workstation Player	china04	Running	0%	4196 MB	5:22:38	OK	...
VMware Workstation Player	china04	Running	0%	392 MB	4:14:47	OK	...
VMware Workstation Player	WFP00001	Running	0%	4096 MB	1:19:49:28	OK	...
VMware Workstation Player	WFP00002	Running	0%	4096 MB	1:19:49:23	OK	...
VMware Workstation Player	WFP00003	Running	0%	4096 MB	1:19:50:10	OK	...
VMware Workstation Player	WFP00004	Running	0%	4096 MB	1:19:49:23	OK	...

The screenshot shows the Chef Workstation application window. The title bar reads 'Chef Workstation'. The sidebar on the left contains the following menu items: Groups View, Nodes View, Environments View, Recipes View, Plugins View, Configuration, Administration, Monitoring, Reporting, License, Help & Feedback, and About. The main area is titled 'chep' and shows a search for 'Search results for "Delivery Group is CR Windows 10 PVS"'. Below this, there is a table of nodes.

Name	Machine Catalog	Delivery Group	User	Maintenance Window	Prepost User	Charge	Power State	Registration State
CRWIN10PVS001a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered
CRWIN10PVS002a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered
CRWIN10PVS003a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered
CRWIN10PVS004a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered
CRWIN10PVS005a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered
CRWIN10PVS006a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered
CRWIN10PVS007a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered
CRWIN10PVS008a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered
CRWIN10PVS009a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered
CRWIN10PVS010a...	CR Windows 10 PVS	CR Windows 10 PVS	chep	Off	Discard	Discard	On	Registered

The screenshot shows the AWS IAM console 'Users' page. The table contains the following data:

Name	Status	Virtual MFA	Created	Deleted	Last Status	Owner	Access Key ID	Access Key	Created	Updated
U_10P2522524	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522525	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522526	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522527	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522528	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522529	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522530	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522531	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522532	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522533	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522534	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28
U_10P2522535	Running	Running	2021-07-28		Completed	SAOCC-iam-admin	AKIAI447NB-K86J6674-2		2021-07-28	2021-07-28

References

<https://docs.citrix.com/en-us/provisioning/cloud-connector.html>

<https://support.citrix.com/article/CTX216312>

<https://docs.citrix.com/content/dam/docs/en-us/xenapp-xendesktop/7-15-ltsr/downloads/Citrix%20VDI%20Handbook%207.15%20LTSR.pdf>



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