

# 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

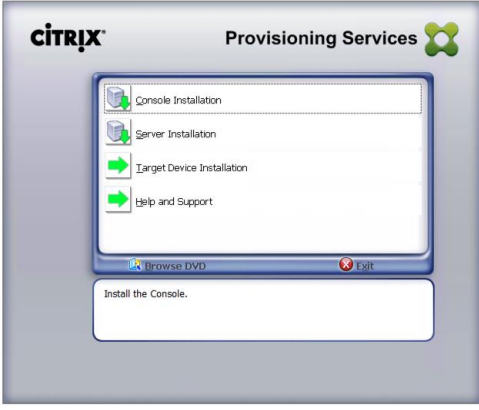
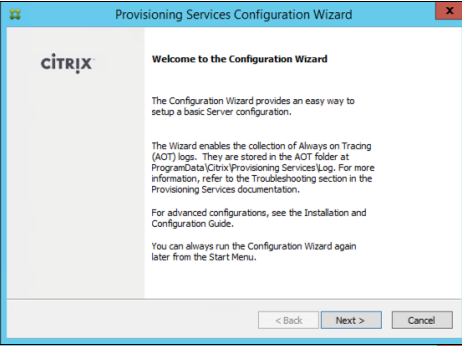
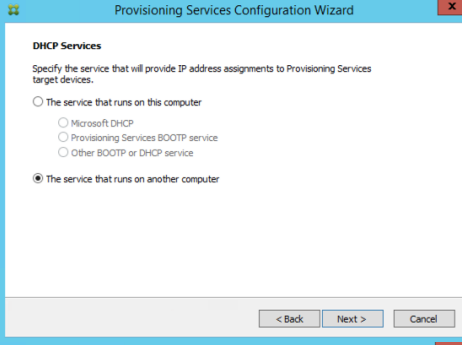
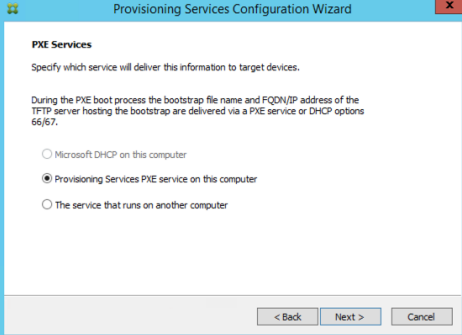
To understand design decisions, this paper describes underlying Oracle Cloud and Citrix components that are required for a deployment and explains the process for deploying Citrix cloud services with OCI using Citrix Provisioning.

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.

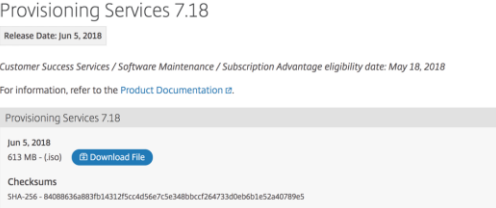
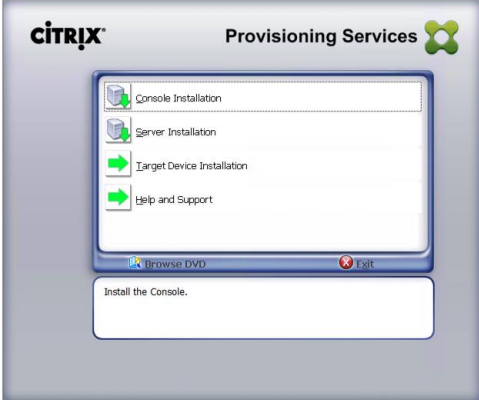
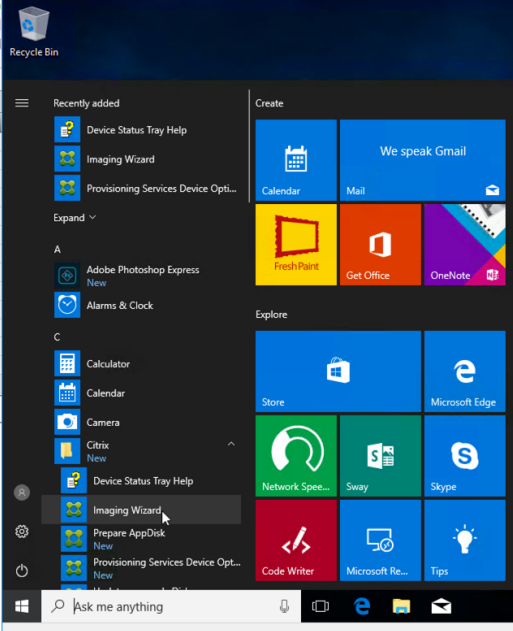
PVS image and VMM VM template creation for XenApp and XenDesktop delivery on Oracle Cloud Infrastructure (OCI) over Citrix Cloud.

<p>PVS managed by Citrix Cloud deployment architecture</p>	<p>The diagram illustrates the Citrix Cloud deployment architecture for PVS. It is divided into two main sections: 'Workspace Cloud (Operated by Citrix)' and 'Customer / Partner Managed'.          In the 'Workspace Cloud' section, there is a cloud icon labeled 'Applications and Desktop Service'. Inside this cloud are three components: 'Studio' (containing 'PvsPsnapin'), 'Delivery Controller', and 'Citrix Cloud Resource Location Management'.          In the 'Customer / Partner Managed' section, there are several on-premises components: 'Cloud Connector' (containing 'XaX4CloudProxy'), 'PVS Server', 'Remote XD PoSH SDK', 'PVS Console', 'SQL' (database), and 'License Server'.          Arrows indicate the following connections:          - 'Studio' connects to 'Delivery Controller'.          - 'Delivery Controller' connects to 'Citrix Cloud Resource Location Management'.          - 'Citrix Cloud Resource Location Management' connects to 'Remote XD PoSH SDK'.          - 'Remote XD PoSH SDK' connects to 'PVS Console'.          - 'PVS Console' connects to 'PVS Server'.          - 'PVS Server' connects to 'SQL' and 'License Server'.          - 'Cloud Connector' connects to 'Delivery Controller' and 'PVS Server'.          - 'PVS Server' connects to 'Cloud Connector'.</p>
<p>PVS over Citrix Cloud requirements</p>	<ol style="list-style-type: none"> <li>1. XenApp and XenDesktop services in Citrix Cloud; OrgID needs to have <u>PVS support in Cloud toggle</u> enabled</li> <li>2. Citrix Cloud Connectors located on-premises (OCI)</li> <li>3. PVS server located on-premises (OCI); 7.18 or later</li> <li>4. XenApp and XenDesktop Remote PowerShell SDK on PVS server which is available at <a href="https://docs.citrix.com/en-us/xenapp-and-xendesktop/service/sdk-api.html">https://docs.citrix.com/en-us/xenapp-and-xendesktop/service/sdk-api.html</a></li> <li>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.</li> </ol>

<p>OCI Solution Topology</p>	<p>The diagram illustrates the OCI solution topology. At the top, Citrix Cloud Services (NetScaler Gateway Service, XD Delivery Controller, StoreFront) connect to Citrix Cloud Interface (CCI). CCI connects to an Active Directory (AD) server (10.17.241.5) and a Provisioning Services (PVS) server (10.17.241.95). The PVS server connects to a Citrix License Server (10.17.241.78) and a Master VDA (10.17.241.93). The Master VDA connects to a Bare Metal Hyper-V host (10.17.241.89) which hosts multiple Virtual Desktops (VDA) on the 192.168.114.0/24 network. A DHCP server is also connected to the Hyper-V host.</p>																												
<p>DHCP/UEFI boot</p> <ul style="list-style-type: none"> <li>- Option <b>066</b> (Boot Server Host Name)</li> <li>- Option <b>067</b> (Bootfile Name – <u>pvsnbpx64.efi</u> for Gen2 VM)</li> </ul>	<p>A screenshot of a DHCP configuration interface showing a table of options:</p> <table border="1"> <thead> <tr> <th>Option Name</th> <th>Vendor</th> <th>Value</th> <th>Policy Name</th> </tr> </thead> <tbody> <tr> <td>003 Router</td> <td>Standard</td> <td>192.168.114.1</td> <td>None</td> </tr> <tr> <td>006 DNS Servers</td> <td>Standard</td> <td>10.17.241.5</td> <td>None</td> </tr> <tr> <td>011 Resource Location Ser...</td> <td>Standard</td> <td>10.17.241.95</td> <td>None</td> </tr> <tr> <td>066 Boot Server Host Name</td> <td>Standard</td> <td>PVS-178</td> <td>None</td> </tr> <tr> <td>067 Bootfile Name</td> <td>Standard</td> <td>pvsnbpx64.efi</td> <td>None</td> </tr> <tr> <td>121 Classless Static Routes</td> <td>Standard</td> <td>10.17.111.0, 255.255.255.0, 192.168...</td> <td>None</td> </tr> </tbody> </table>	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	pvsnbpx64.efi	None	121 Classless Static Routes	Standard	10.17.111.0, 255.255.255.0, 192.168...	None
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<p>PVS server (VM) build on OCI</p>	<p>A screenshot of the OCI console showing the details of a VM instance named 'pvs-7.18'. The instance is in a 'RUNNING' state. Key information includes:</p> <ul style="list-style-type: none"> <li>Availability Domain: foz-US-ASHURN-AD-1</li> <li>OCID: ...wugwqz</li> <li>Launched: Fri, 15 Jun 2018 14:19:02 GMT</li> <li>Compartment: CitrixComp</li> <li>Virtual Cloud Network: vcn20180117061802</li> <li>Launch Mode: NATIVE</li> <li>Image: Windows-Server-2012-R2-Standard-Edition-VM-2018.05.21-9</li> <li>Region: iad</li> <li>Shape: VM.Standard1.8</li> <li>Username: opc</li> <li>Initial Password: ... Show Copy</li> <li>Private IP Address: 10.17.241.95</li> <li>Internal FQDN: pvs-7-18... Show Copy</li> <li>Public IP Address: 129.213.96.231</li> <li>Subnet: subnet20180117061802</li> </ul>																												
<p>On designated PVS server VM, install latest PVS server (7.18 or later)</p>	<p>A screenshot of the Citrix Provisioning Services 7.18 download page. It shows the release date as June 5, 2018, and provides a 'Download File' button. The file size is 613 MB (ISO). The SHA-256 hash is provided as 84588636883f914312f5cc4d567c5e348bbcc2647330eb601e524d0789e5.</p>																												

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

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

<p>which will be used as a master image for vDisk and VM Template</p>	<p>VM needs to be joined to <b>Active Directory Domain</b> and Citrix <b>VDA</b> to be installed before next steps.</p>
<p>On <u>VM</u> which was just created, install latest PVS (7.18 or later) from Citrix</p>	 <p>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 <a href="#">Product Documentation</a> <small>en</small>. Provisioning Services 7.18 Jun 5, 2018 613 MB - (.iso) <a href="#">Download File</a> Checksums SHA-256 - 84088636883f014312f5cc45667c5e348bccc2647330e6b01e5240799e5</p>
<p>Choose Target Device Installation</p>	 <p>CITRIX Provisioning Services Console Installation Server Installation Target Device Installation Help and Support Browse DVD Exit Install the Console.</p>
<p>On the same <u>VM</u>, open <b>Imaging Wizard</b> after PVS has been installed</p>	 <p>Recycle Bin Recently added Device Status Tray Help Imaging Wizard Provisioning Services Device Opt... Expand A Adobe Photoshop Express New Alarms &amp; Clock C Calculator Calendar Camera Citrix Citrix Device Status Tray Help Imaging Wizard Prepare AppDisk New Provisioning Services Device Opt... New Create Calendar Mail We speak Gmail Fresh Paint Get Office OneNote Explore Store Microsoft Edge Network Spee... Sway Skype Code Writer Microsoft Re... Tips Ask me anything</p>
<p>(2) Set up vDisk</p>	

<p>Click Next.</p>	
<p>Add PVS Server name or IP then Next.</p>	
<p>Choose Create a vDisk then Next.</p>	
<p>Add Target device name then Next. This is your master VM host name.</p>	



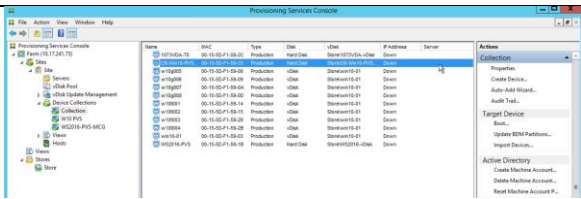
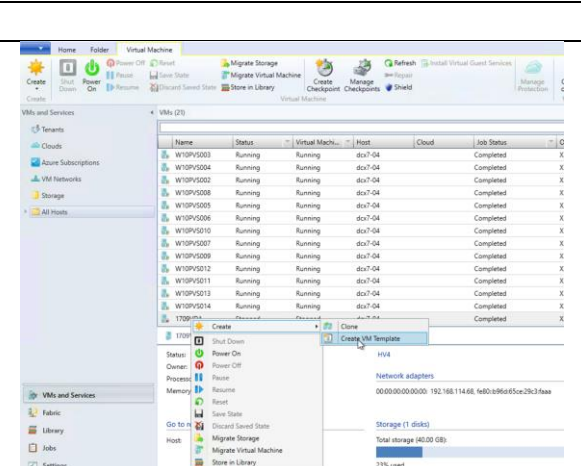
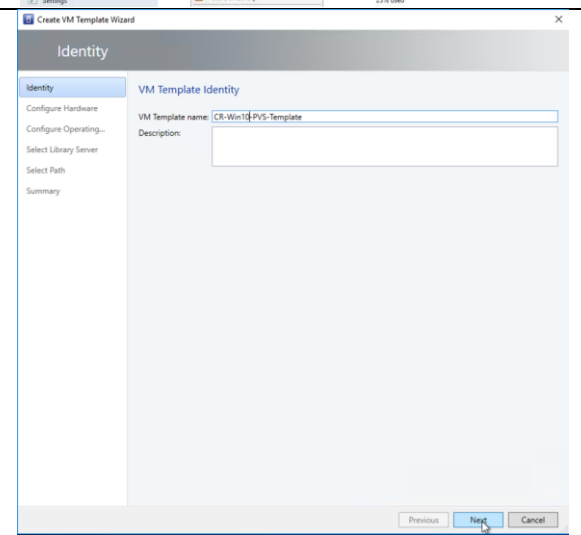
<p>Add vDisk name then Next. This will be master vDisk to be streamed when provision is set up and will be listed under vDisk pool.</p>	
<p>Choose the correct Microsoft Volume Licensing option</p>	
<p>Image entire boot disk</p>	
<p>Optimize the hard disk again for Provisioning Services before imaging</p>	

<p>Confirm Summary and click Create.</p>	
<p>Continue</p>	
<p>Reboot or Shut Down and Set Network Boot.</p> <p>No to shutdown the VM in order to configure network boot and other boot configuration in Hyper-V manager and SCVMM.</p>	
<p>On Hyper-V manager, go to the VM then Settings</p>	

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

<p>Confirm the VM was booted via network.</p>	 <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 192.168.114.66 vDisk Name : CR-Win10-PVS-vDisk.vhdx Write cache : [Enabled] redies Downloading MOP file... Client computer name: CR-WIN10-PVS-PO Citrix Provisioning Services 7.16.0.21 MEFI 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-PO vDisk ID Name: CR-Win10-PVS-vDisk.vhdx, 60 GB Boot from local disk...         </pre>
<p>Once the VM is up, the image creation process is automatically started.</p>	 <p>Provisioning Services Imaging Wizard</p> <p><b>Processing</b></p> <p>Imaging is likely to take a long time.</p> <p>Connect to Site: Server: 10.17.241.73, Port: 54321  Task: Image created vDisk  Existing vDisk: Store\CR-Win10-PVS-vDisk</p> <p>Status: Initializing volumes...</p> <p>Progress: [Progress bar]</p> <p>Log Cancel</p>
<p>After about 10 min, the process will be finished. Click Done.</p>	 <p>Provisioning Services Imaging Wizard</p> <p><b>Finished</b></p> <p>The log of the processing done can be viewed by clicking the Log button.</p> <p>Connect to Site: Server: 10.17.241.73, Port: 54321  Task: Image created vDisk  Existing vDisk: Store\CR-Win10-PVS-vDisk</p> <p>Status: Successful</p> <p>Progress: [Full green progress bar]</p> <p>Log Done</p>
<p>On VM, go to <b>Virtual Disk Status</b> from the tray.</p>	 <p>Windows desktop with system tray icon for Virtual Disk Status.</p> <p>Virtual Disk Status  Exit</p> <p>4:25 AM 5/27/2018</p>

<p>Confirm the VM was booted from <b>Local Hard Disk</b>.</p>																																				
<p>On <b>PVS server</b>, vDisk from VM was populated in <b>vDisk Pool</b>. Choose <b>Properties</b>.</p>	<table border="1"> <thead> <tr> <th>Name</th> <th>Store</th> <th>Connections</th> <th>Size</th> <th>Mode</th> <th>Class</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1072VDA-cDisk</td> <td>Store</td> <td>14</td> <td>40,960 KB</td> <td>Cache on Device Har...</td> <td></td> <td></td> </tr> <tr> <td>CR-Win10-PVS</td> <td>Store</td> <td>1</td> <td>40,960 KB</td> <td>Private</td> <td></td> <td></td> </tr> <tr> <td>win10-01</td> <td>Store</td> <td>0</td> <td>40,960 KB</td> <td>Cache on Device Har...</td> <td></td> <td>Windows 10 Gen 2</td> </tr> <tr> <td>W102016-cDisk</td> <td>Store</td> <td>4</td> <td>40,960 KB</td> <td>Cache on Device Har...</td> <td></td> <td></td> </tr> </tbody> </table>	Name	Store	Connections	Size	Mode	Class	Description	1072VDA-cDisk	Store	14	40,960 KB	Cache on Device Har...			CR-Win10-PVS	Store	1	40,960 KB	Private			win10-01	Store	0	40,960 KB	Cache on Device Har...		Windows 10 Gen 2	W102016-cDisk	Store	4	40,960 KB	Cache on Device Har...		
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<p>Under <b>Access mode</b>, choose <b>Standard image</b> and <b>Cache on device hard disk</b> as <b>Cache type</b>.</p>																																				
<p>Confirm the change under <b>mode</b>.</p>																																				

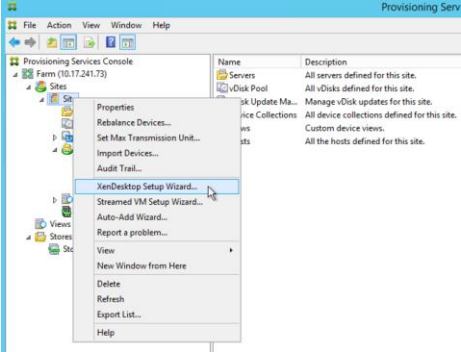
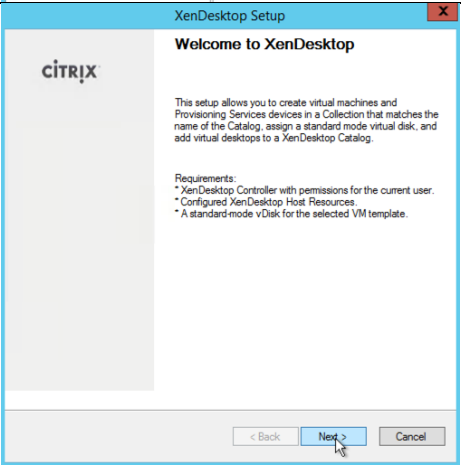
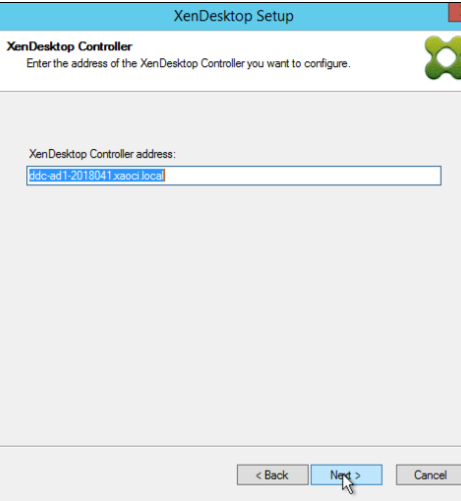
<p>Under <u>collection</u>, confirm the line entry of target device name (i.e., VM)</p>	 <table border="1"> <thead> <tr> <th>Name</th> <th>MAC</th> <th>Type</th> <th>Disk</th> <th>vDisk</th> <th>IP Address</th> <th>Server</th> <th>Action</th> </tr> </thead> <tbody> <tr> <td>W10PVS01</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS01</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS02</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS02</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS03</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS03</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS04</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS04</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS05</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS05</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS06</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS06</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS07</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS07</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS08</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS08</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS09</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS09</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS10</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS10</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS11</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS11</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS12</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS12</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS13</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS13</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS14</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS14</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> <tr> <td>W10PVS15</td> <td>00-15-5D-F1-8A-24</td> <td>Production</td> <td>Hard Disk</td> <td>StorageW10PVS15</td> <td>192.168.1.14</td> <td>Server</td> <td>Collection</td> </tr> </tbody> </table>	Name	MAC	Type	Disk	vDisk	IP Address	Server	Action	W10PVS01	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS01	192.168.1.14	Server	Collection	W10PVS02	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS02	192.168.1.14	Server	Collection	W10PVS03	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS03	192.168.1.14	Server	Collection	W10PVS04	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS04	192.168.1.14	Server	Collection	W10PVS05	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS05	192.168.1.14	Server	Collection	W10PVS06	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS06	192.168.1.14	Server	Collection	W10PVS07	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS07	192.168.1.14	Server	Collection	W10PVS08	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS08	192.168.1.14	Server	Collection	W10PVS09	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS09	192.168.1.14	Server	Collection	W10PVS10	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS10	192.168.1.14	Server	Collection	W10PVS11	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS11	192.168.1.14	Server	Collection	W10PVS12	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS12	192.168.1.14	Server	Collection	W10PVS13	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS13	192.168.1.14	Server	Collection	W10PVS14	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS14	192.168.1.14	Server	Collection	W10PVS15	00-15-5D-F1-8A-24	Production	Hard Disk	StorageW10PVS15	192.168.1.14	Server	Collection
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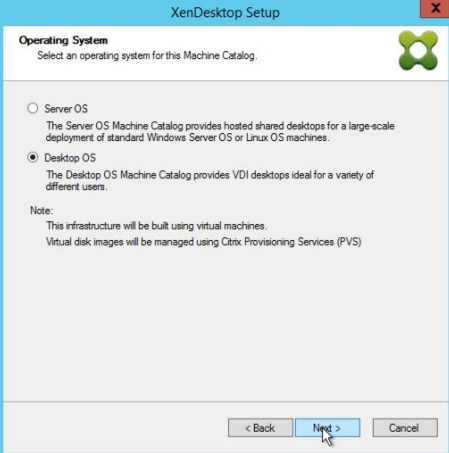
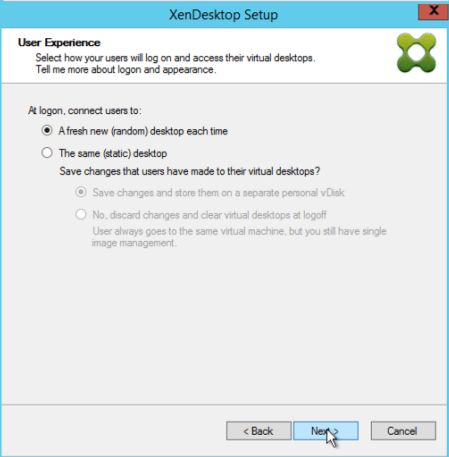
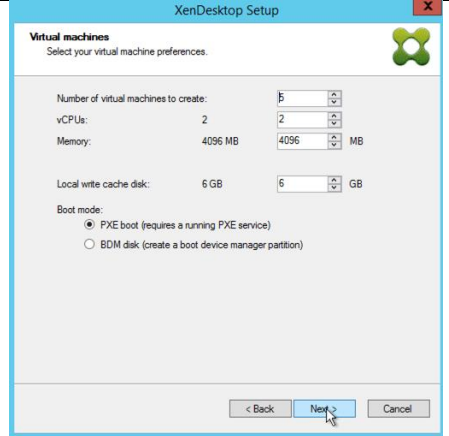


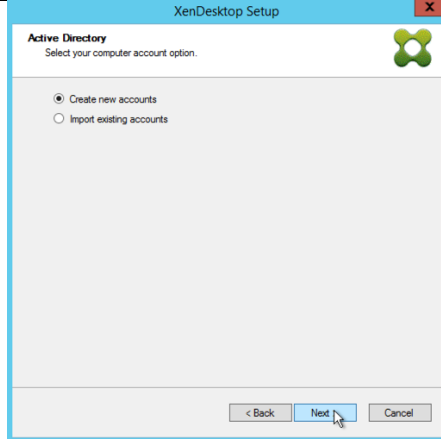
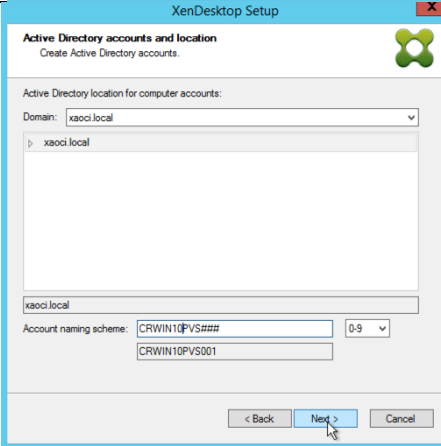
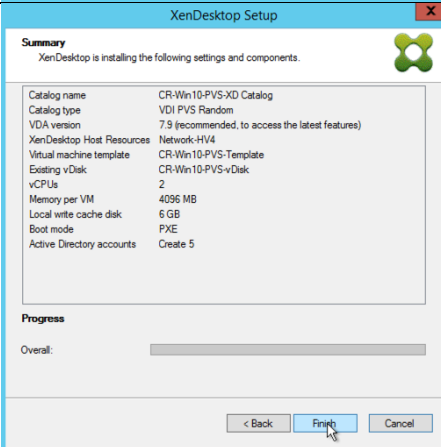
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<p>Creating XenDesktop Machine Catalog.</p> <p>On <u>PVS server</u>, choose <b>XenDesktop Setup Wizard</b> from right click on <b>Site</b></p>	
<p>Next</p>	
<p>Add delivery controller (Citrix Cloud Connector address) name.</p>	

<p>Log in to Citrix Cloud account</p>	<p>The screenshot shows the Provisioning Services Console interface. A 'Citrix Cloud' login dialog is open, prompting for 'Citrix credentials' (username and password). The dialog includes a 'Sign In' button and a 'Remember me' checkbox. In the background, the 'XenDesktop Setup' wizard is visible, with the 'XenDesktop Controller' step selected.</p>
<p>Choose the Host Resources from Hyper-V.</p>	<p>The screenshot shows the 'XenDesktop Setup' wizard at the 'XenDesktop Host Resources' step. It asks to 'Select the XenDesktop Host Resources you want to use'. A list of resources is shown: Network, Network-HV02, Network-hv2, Network-HV3, and Network-HV4. 'Network-HV4' is selected. At the bottom, there are '&lt; Back', 'Next &gt;', and 'Cancel' buttons.</p>
<p>Add Password for Host Resources credentials.</p>	<p>The screenshot shows the 'XenDesktop Setup' wizard at the 'XenDesktop Host Resources' step. A 'XenDesktop Host Resources Credentials' dialog is open, asking to 'Enter your credentials for the XenDesktop Host Resources'. It has fields for 'Username' (containing 'xaoc\administrator') and 'Password' (masked with dots). There are 'OK' and 'Cancel' buttons at the bottom of the dialog. The background shows the same list of host resources as the previous screenshot.</p>
<p>(5) vDisk and VM template for XenDesktop Setup Wizard</p>	

<p>Choose the template which was just created.</p>		
<p>Choose the vDisk which was just created.</p>		
<p>Add new Machine Catalog name. This is going to be used in Delivery Controller for XenApp and XenDesktop machine catalog.</p>		

<p>Choose Operating System type.</p>		 <p>The screenshot shows the 'Operating System' selection screen in XenDesktop Setup. It has two radio buttons: 'Server OS' and 'Desktop OS'. 'Desktop OS' is selected. Below the buttons is a 'Next &gt;' button being clicked by a mouse cursor.</p>
<p>User Experience. Used random in this test.</p>		 <p>The screenshot shows the 'User Experience' configuration screen. It has two main sections. The first section, 'At logon, connect users to:', has 'A fresh new (random) desktop each time' selected. The second section, 'Save changes that users have made to their virtual desktops?', has 'Save changes and store them on a separate personal vDisk' selected. A 'Next &gt;' button is being clicked at the bottom.</p>
<p>(6) Provisioning VDAs</p>		
<p>Choose number of virtual machines to be provisioned.</p>		 <p>The screenshot shows the 'Virtual machines' configuration screen. It includes several spinners for configuration: 'Number of virtual machines to create' (set to 6), 'vCPUs' (set to 2), 'Memory' (set to 4096 MB), and 'Local write cache disk' (set to 6 GB). Under 'Boot mode', 'PXE boot (requires a running PXE service)' is selected. A 'Next &gt;' button is being clicked at the bottom.</p>

<p>Next</p>		 <p>XenDesktop Setup Active Directory Select your computer account option.</p> <p><input checked="" type="radio"/> Create new accounts <input type="radio"/> Import existing accounts</p> <p>&lt; Back Next Cancel</p>																						
<p>Click the active directory domain name then add scheme of naming convention in machine catalog.</p>		 <p>XenDesktop Setup Active Directory accounts and location Create Active Directory accounts.</p> <p>Active Directory location for computer accounts:</p> <p>Domain: xaooi.local</p> <p>&gt; xaooi.local</p> <p>xaooi.local</p> <p>Account naming scheme: CRWIN10PV5### 8-9</p> <p>CRWIN10PV5001</p> <p>&lt; Back Next &gt; Cancel</p>																						
<p>Finish</p>		 <p>XenDesktop Setup Summary XenDesktop is installing the following settings and components.</p> <table border="1"> <tr><td>Catalog name</td><td>CR-Win10-PV5-XD Catalog</td></tr> <tr><td>Catalog type</td><td>VDI PV5 Random</td></tr> <tr><td>VDA version</td><td>7.9 (recommended, to access the latest features)</td></tr> <tr><td>XenDesktop Host Resources</td><td>Network-HV4</td></tr> <tr><td>Virtual machine template</td><td>CR-Win10-PV5-Template</td></tr> <tr><td>Existing vDisk</td><td>CR-Win10-PV5-vDisk</td></tr> <tr><td>vCPUs</td><td>2</td></tr> <tr><td>Memory per VM</td><td>4096 MB</td></tr> <tr><td>Local write cache disk</td><td>6 GB</td></tr> <tr><td>Boot mode</td><td>PXE</td></tr> <tr><td>Active Directory accounts</td><td>Create 5</td></tr> </table> <p>Progress</p> <p>Overall: <span style="display: inline-block; width: 100px; height: 10px; background-color: gray;"></span></p> <p>&lt; Back Finish Cancel</p>	Catalog name	CR-Win10-PV5-XD Catalog	Catalog type	VDI PV5 Random	VDA version	7.9 (recommended, to access the latest features)	XenDesktop Host Resources	Network-HV4	Virtual machine template	CR-Win10-PV5-Template	Existing vDisk	CR-Win10-PV5-vDisk	vCPUs	2	Memory per VM	4096 MB	Local write cache disk	6 GB	Boot mode	PXE	Active Directory accounts	Create 5
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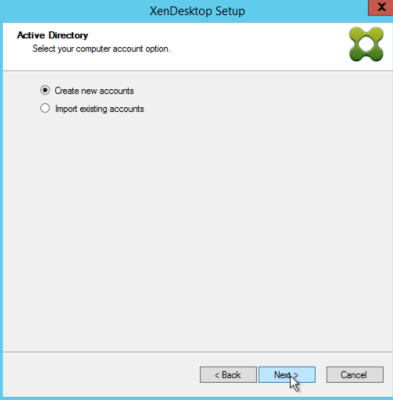
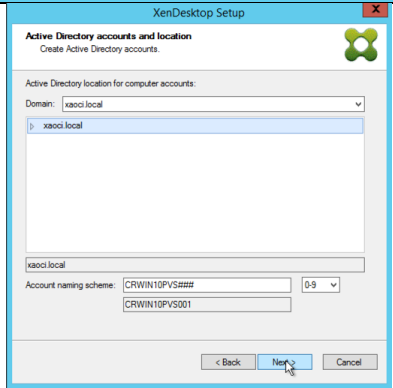
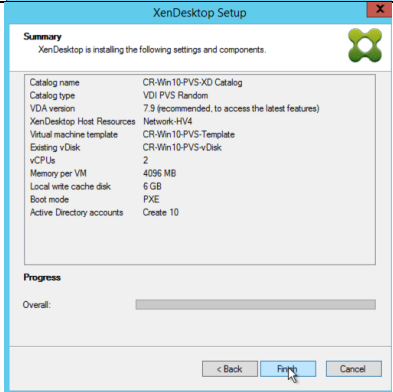
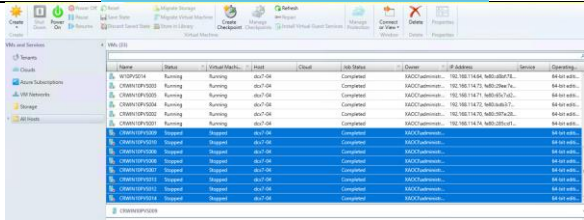
<p>Confirm the progress of creating virtual machines.</p>	
<p>On <u>XAXD</u> cloud studio (<u>DCC</u>), confirm the machine catalog was just created.</p>	
<p>On <u>SCVMM</u>, the individual virtual machines are provisioned.</p>	
<p>On <u>DDC</u>, create a delivery group.</p>	
<p>Choose the <u>machine catalog</u> that was created.</p>	

<p>Add users as appropriated. Then Next.</p>	
<p>Add applications as appropriated. Then Next</p>	
<p>Add Display name. Then OK</p>	
<p>Click Next</p>	

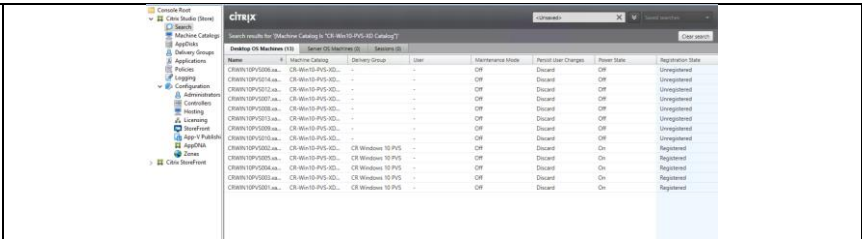


<p>Add Delivery Group name.</p>	
<p>Confirm <u>Delivery Group</u> in DDC</p>	
<p>Confirm machine list (and VMs' registration status) via <b>View Machines</b> in DDC</p>	
<p>Access to the external URL. This is to access XenApp and XenDesktop environment on OCI via NetScaler Gateway Service in Citrix Cloud.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

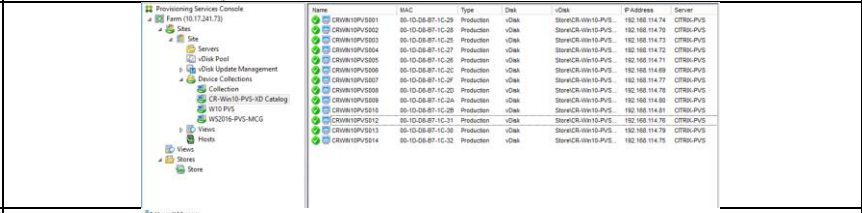
<p>Check the virtual disk status. Confirm <u>Boot from vDisk</u> and <u>Cache type</u> as Local hard drive.</p>		
<p>If additional virtual machines are needed in the same machine catalog, follow up and repeat earlier steps from <b>XenDesktop Start Wizard</b> in PVS server. Then choose <b>User an existing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

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

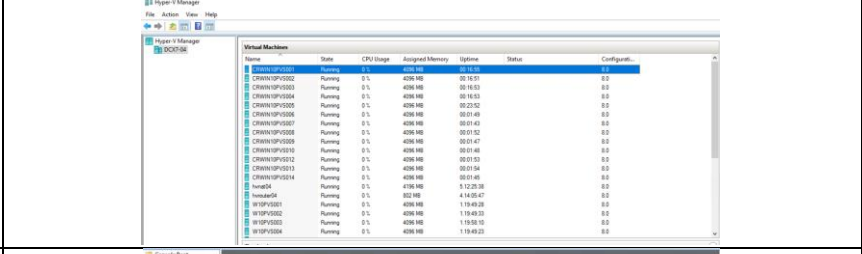
On DCC, the newly created virtual machines are listed.



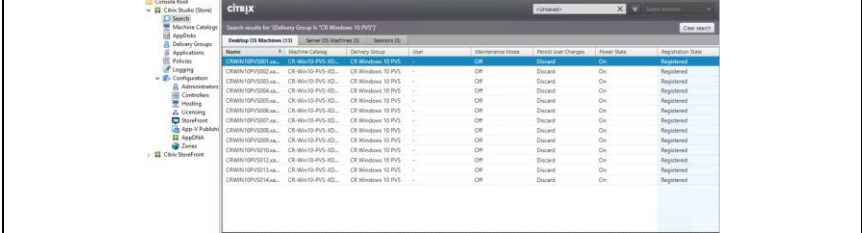
On PVS server console, the newly created virtual machines are listed in machine catalog name under Device Collections.



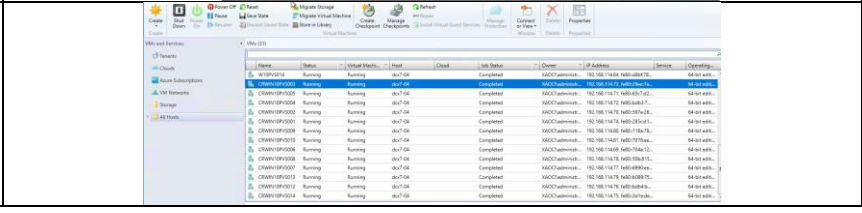
On Hyper-V manager, the newly created virtual machines are shown.



On DCC, confirm all virtual machines are registered.



On SCVMM, confirm all virtual machines are shown in running and completed with IP Address.



## 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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