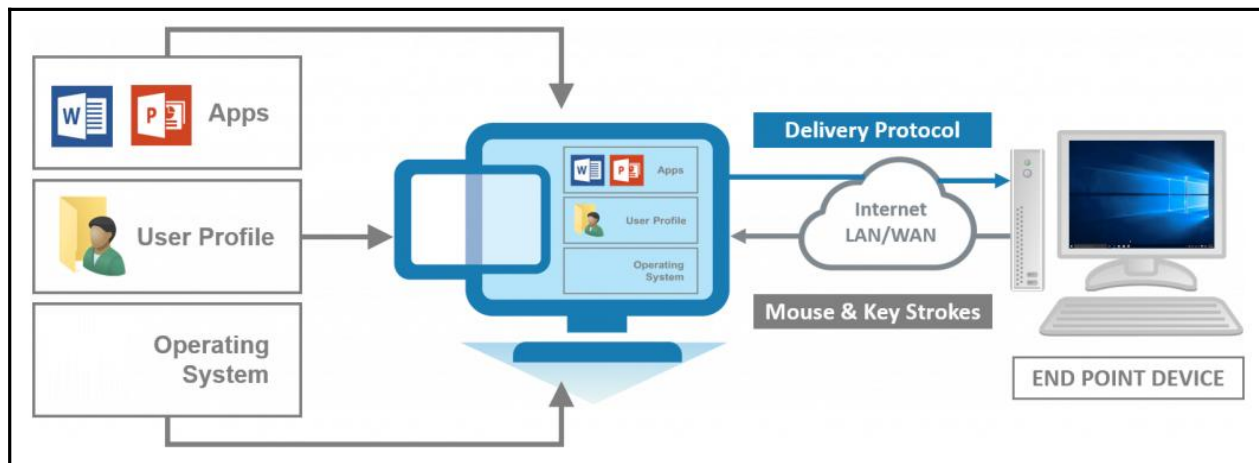
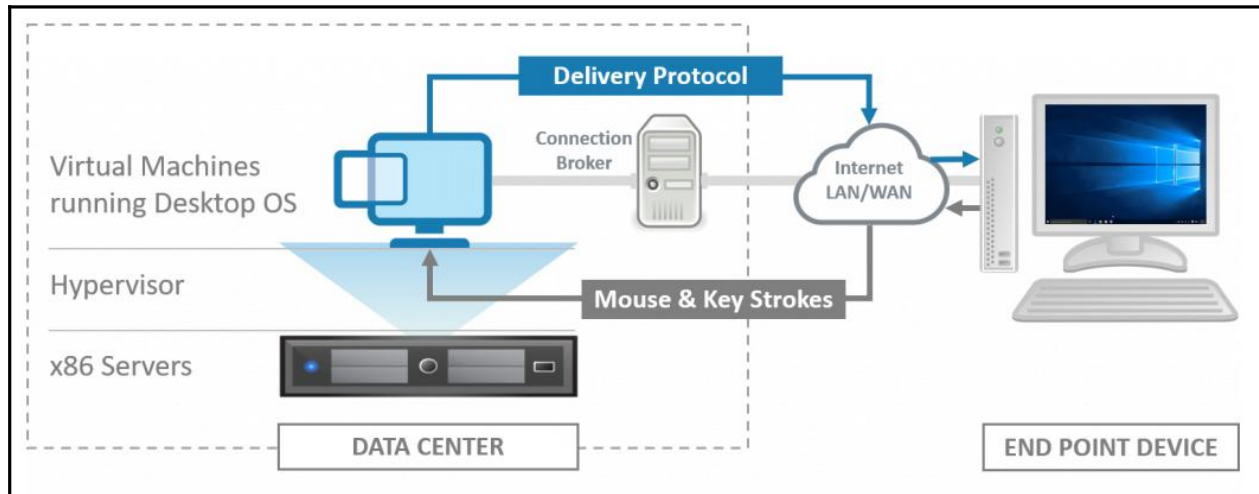
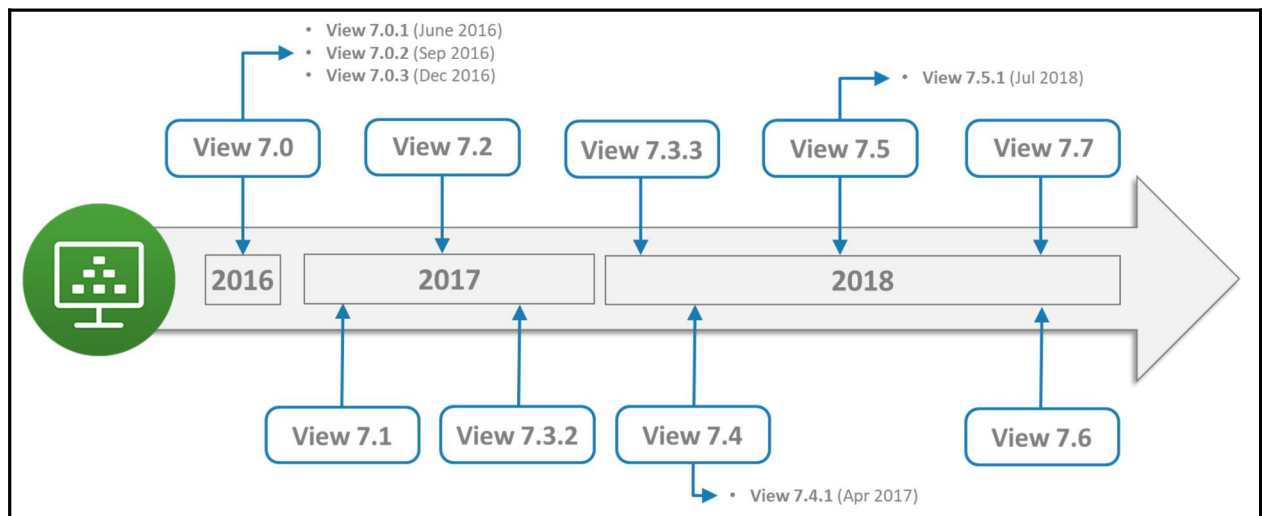
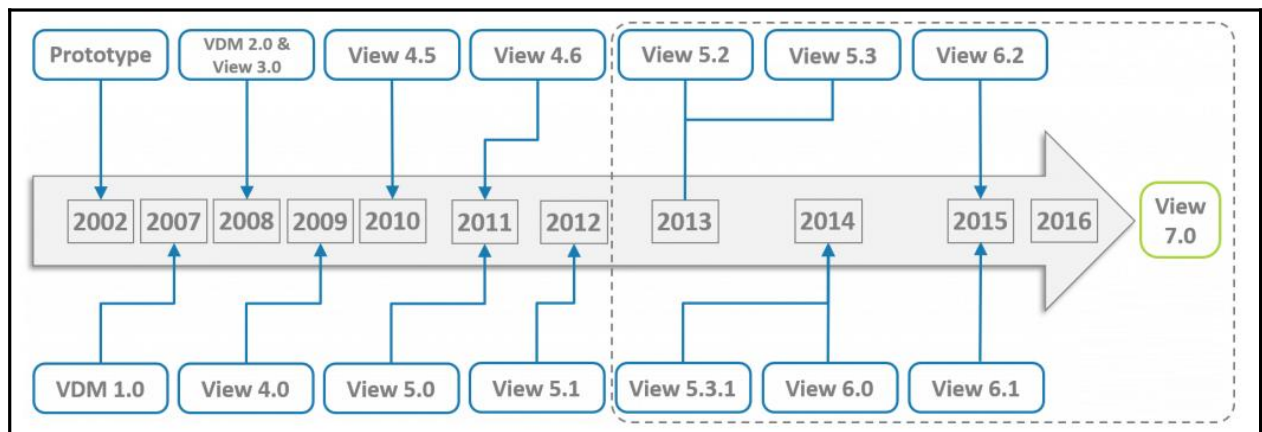
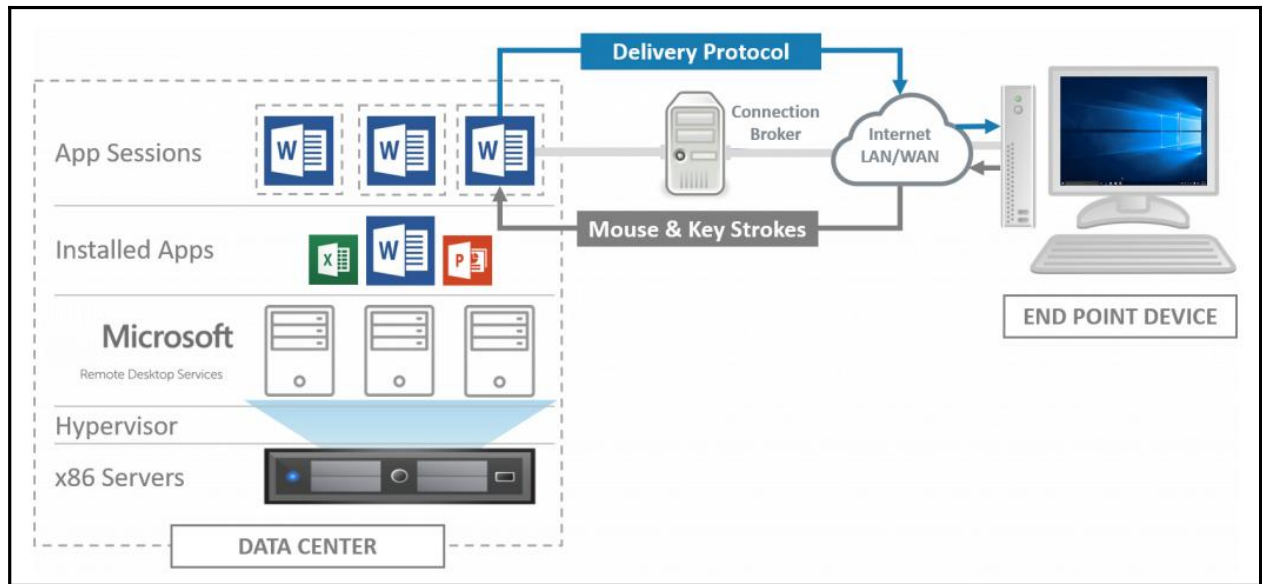


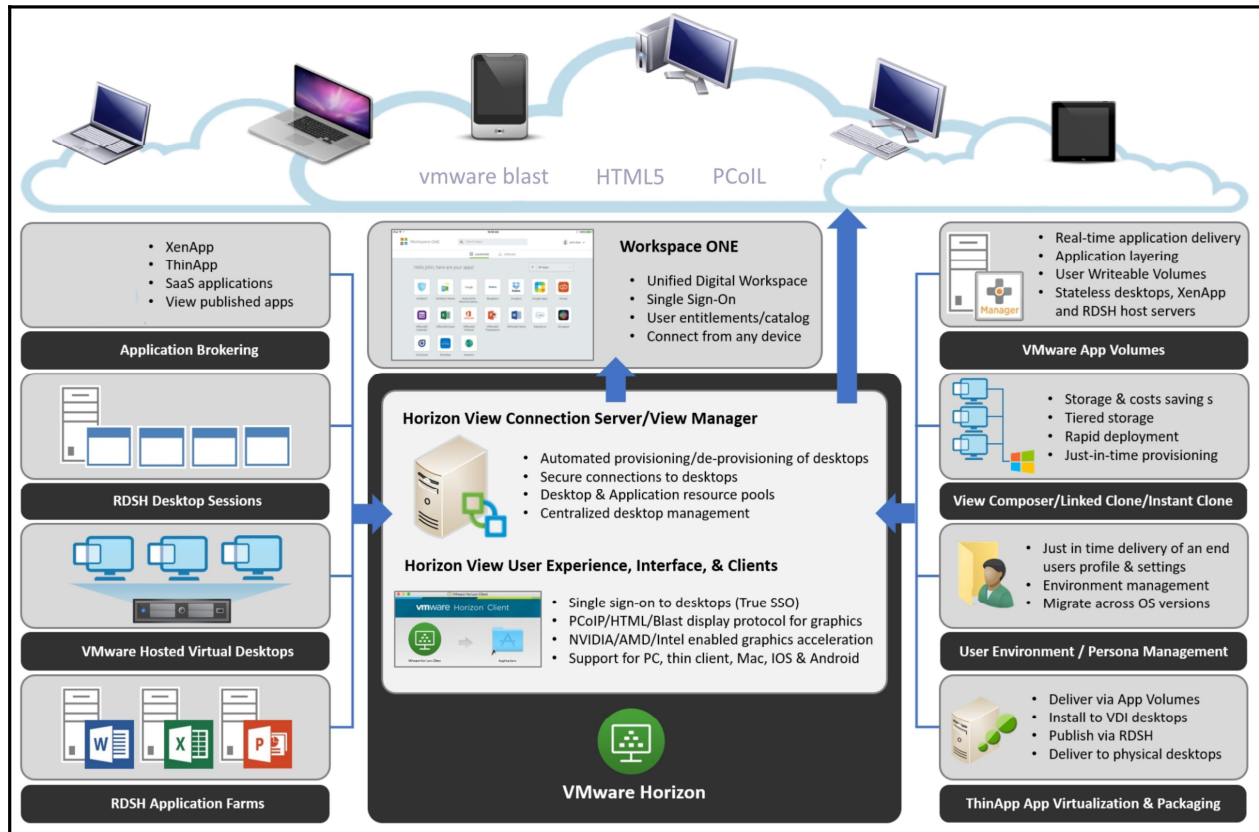
# Chapter 1: Introducing VDI and VMware Horizon 7

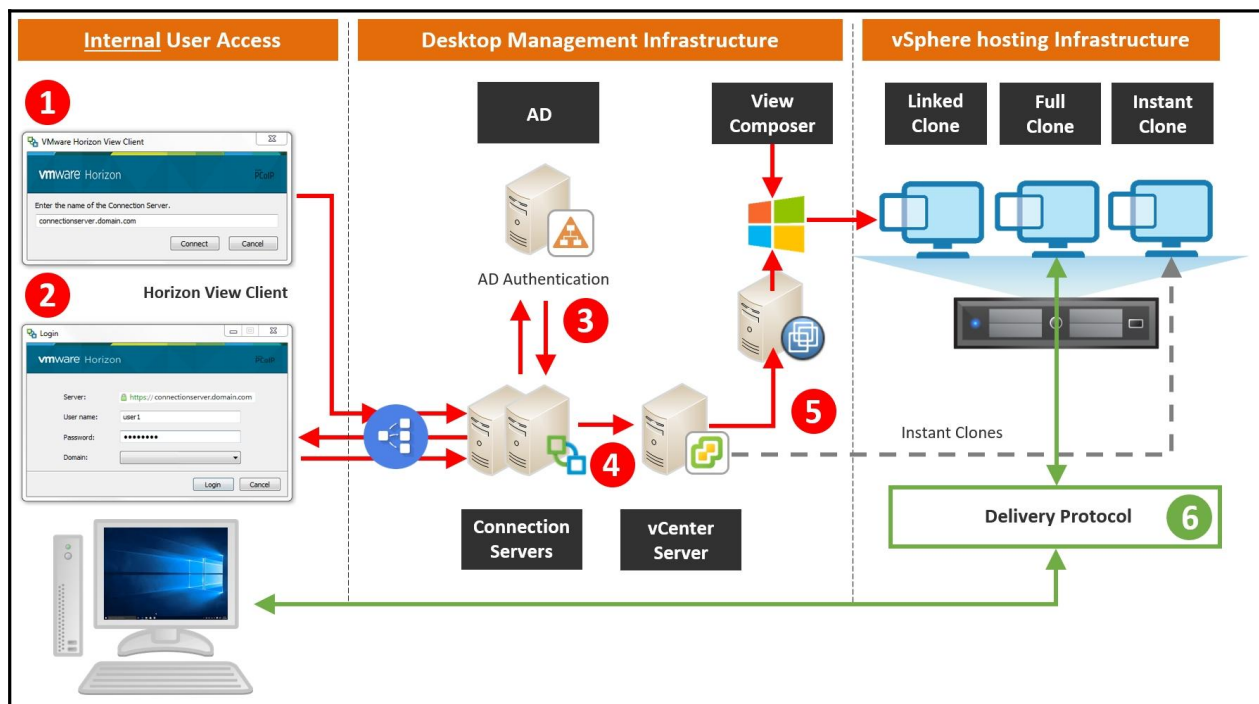
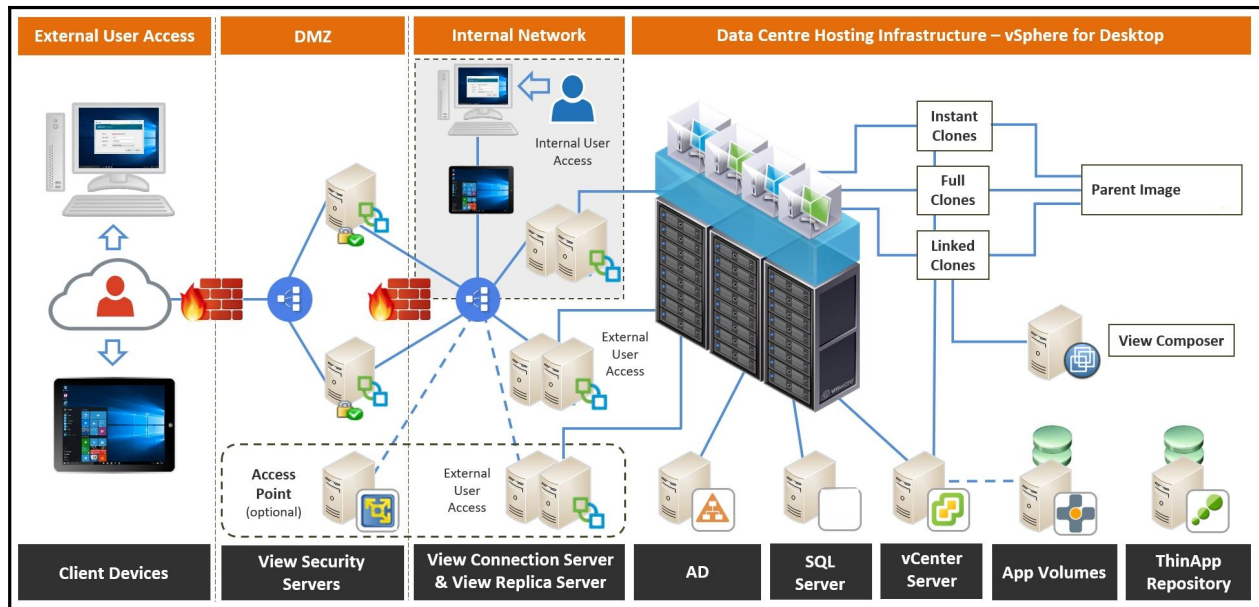




<b>Desktop and App Delivery</b>	Horizon for Linux	Horizon Standard	Horizon Advanced	Horizon Enterprise	Horizon Apps Standard	Horizon Apps Advanced
Windows Virtual Desktops		✓	✓	✓		
Linux Virtual Desktops	✓			✓		
Unified Workspace with VMware Identity Manager Std.			✓	✓	✓	✓
Published apps and dekstops			✓	✓	✓	✓
Application virtualization/packaging with ThinApp		✓	✓	✓	✓	✓
Blast Extreme protocol	✓	✓	✓	✓	✓	✓
Support for Skype for business			✓	✓	✓	✓
SSO with VMware Identity Manager Std.			✓	✓	✓	✓
<b>Workspace Management</b>	Horizon for Linux	Horizon Standard	Horizon Advanced	Horizon Enterprise	Horizon Apps Standard	Horizon Apps Advanced
Image management for desktops with VMware Mirage			✓	✓		
Real-time app delivery with VMware App Volumes				✓		✓
User profile management with VMware UEM				✓	✓	✓
Just in time delivery with Instant Clones				✓		✓
<b>Operations Management</b>	Horizon for Linux	Horizon Standard	Horizon Advanced	Horizon Enterprise	Horizon Apps Standard	Horizon Apps Advanced
Horizon Help Desk Tool				✓		✓
Operations dashboard - vRealize Operations for Horizon				✓		
Capacity planning with vRealize Operations for Horizon				✓		
<b>Infrastructure Components</b>	Horizon for Linux	Horizon Standard	Horizon Advanced	Horizon Enterprise	Horizon Apps Standard	Horizon Apps Advanced
Virtual storage with VSAN Advanced for Desktop			✓	✓		
vSphere for Desktop						
vCenter for Desktop	✓	✓	✓	✓	✓	✓

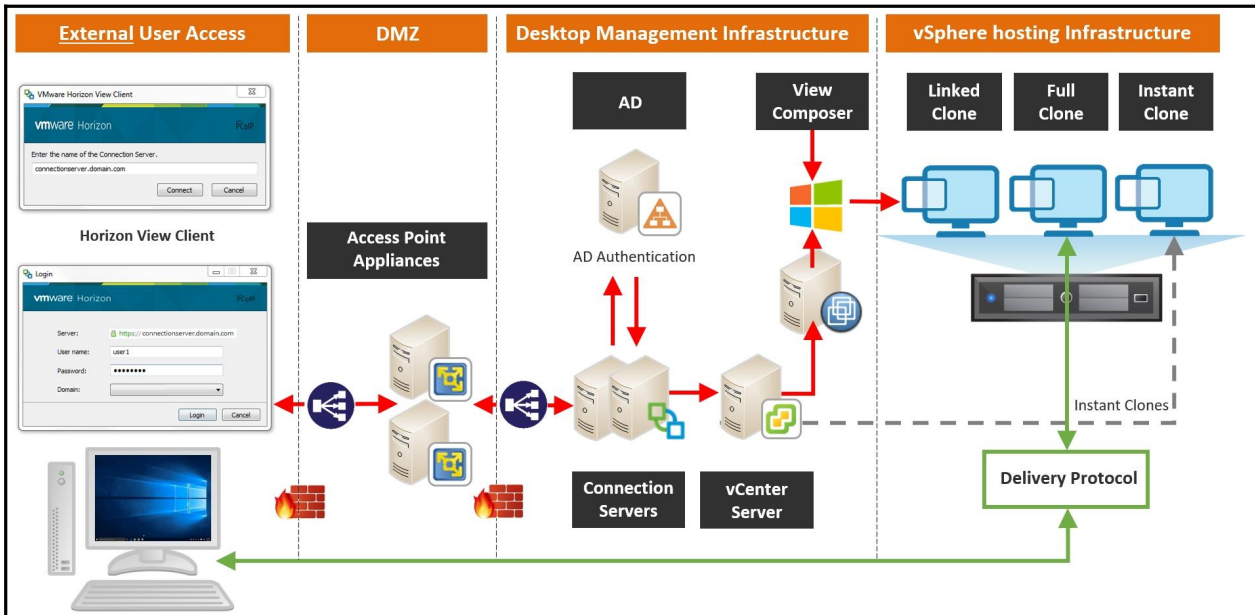
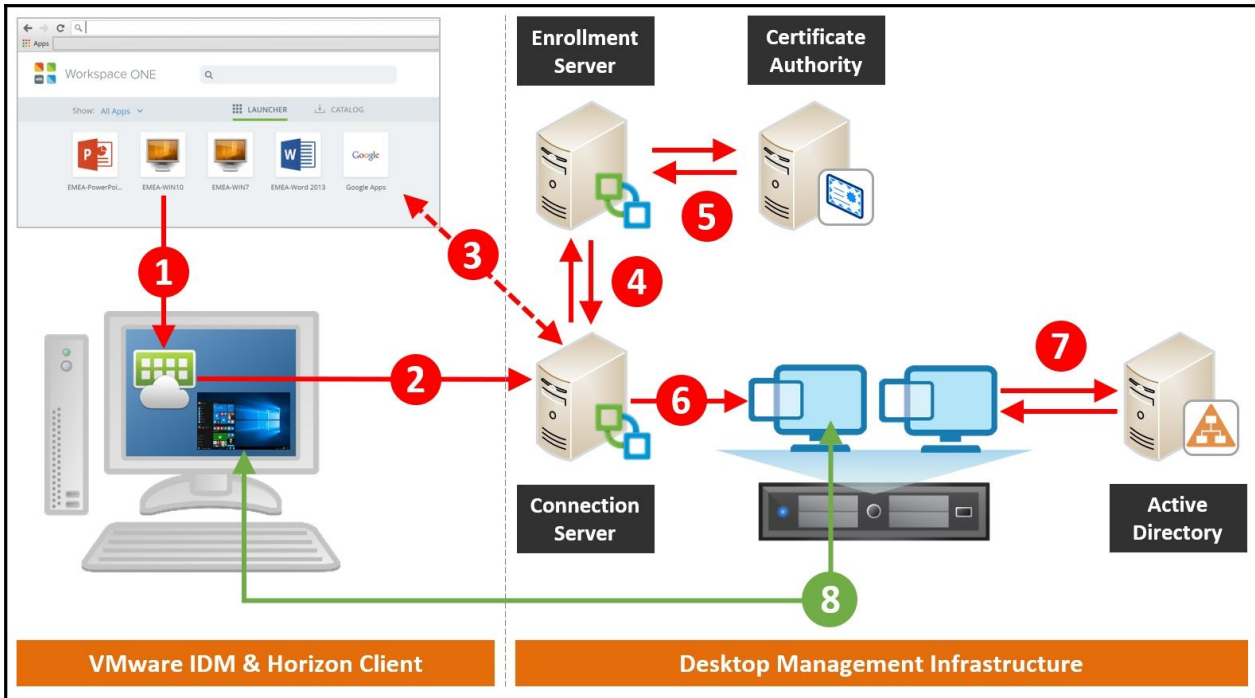
# Chapter 2: Understanding Horizon 7 Architecture and Components

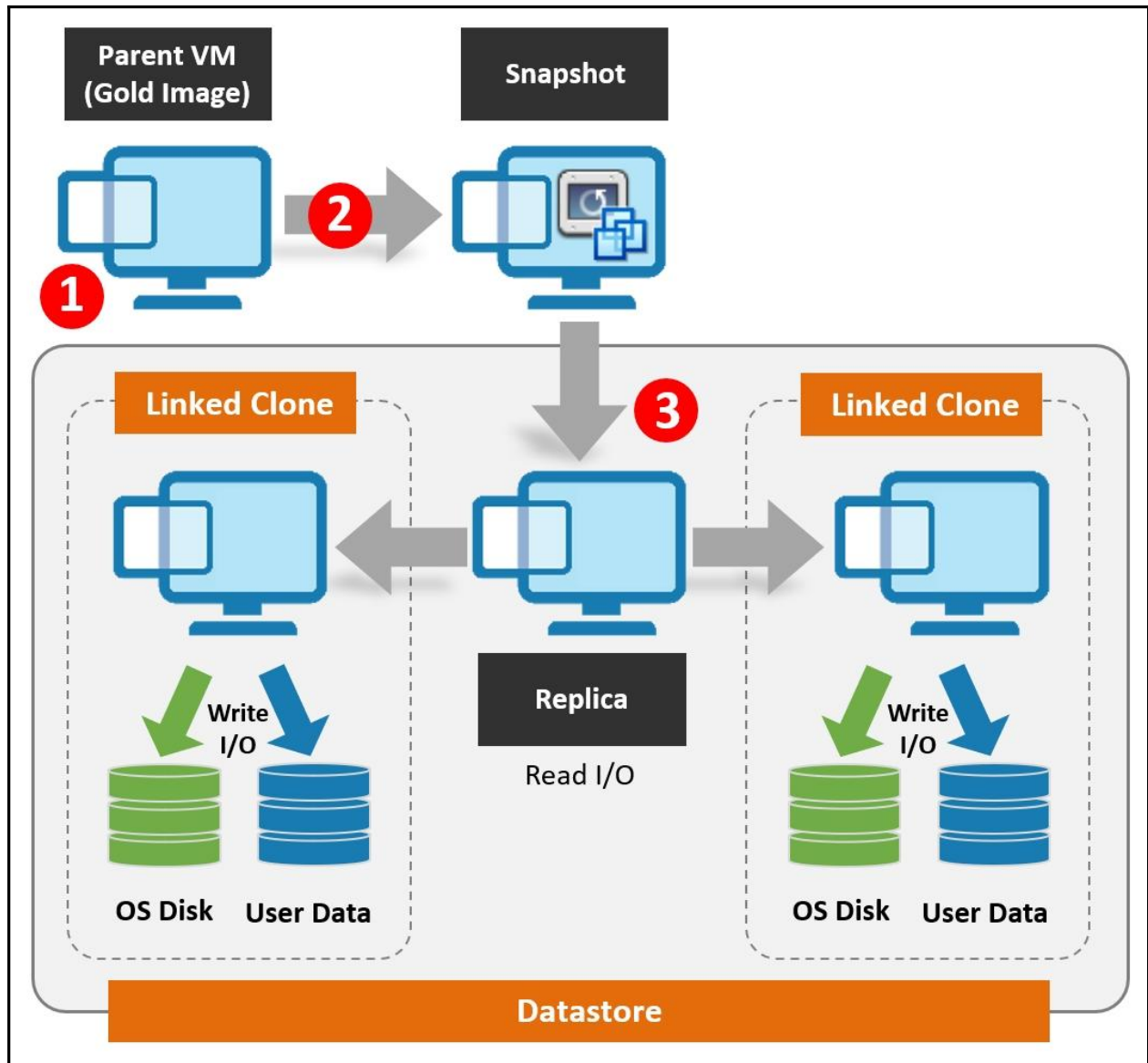


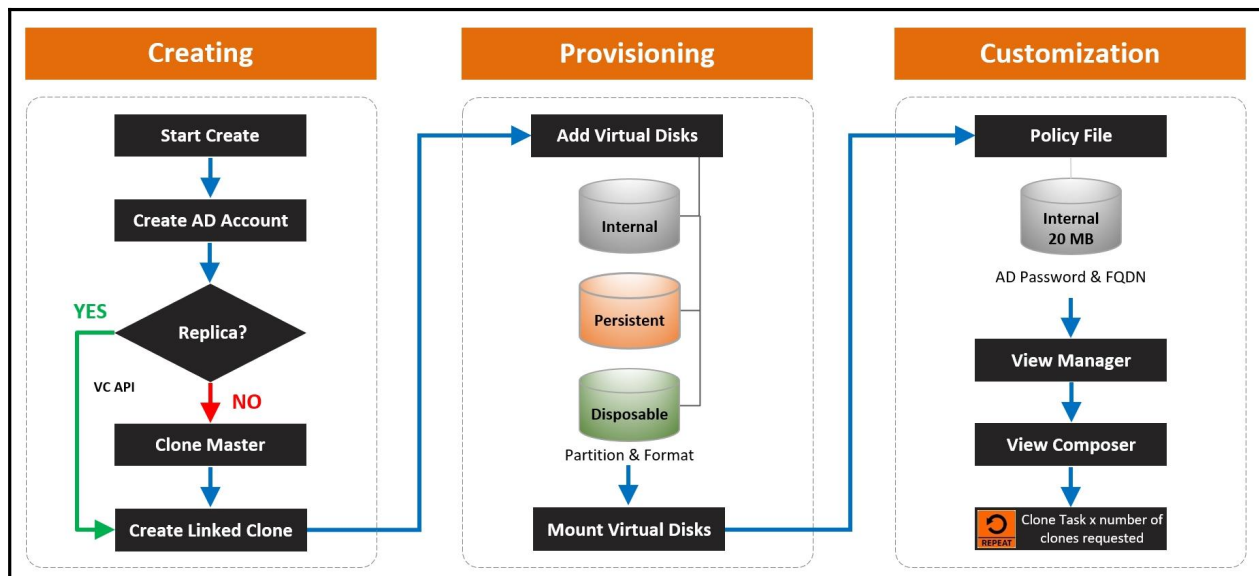
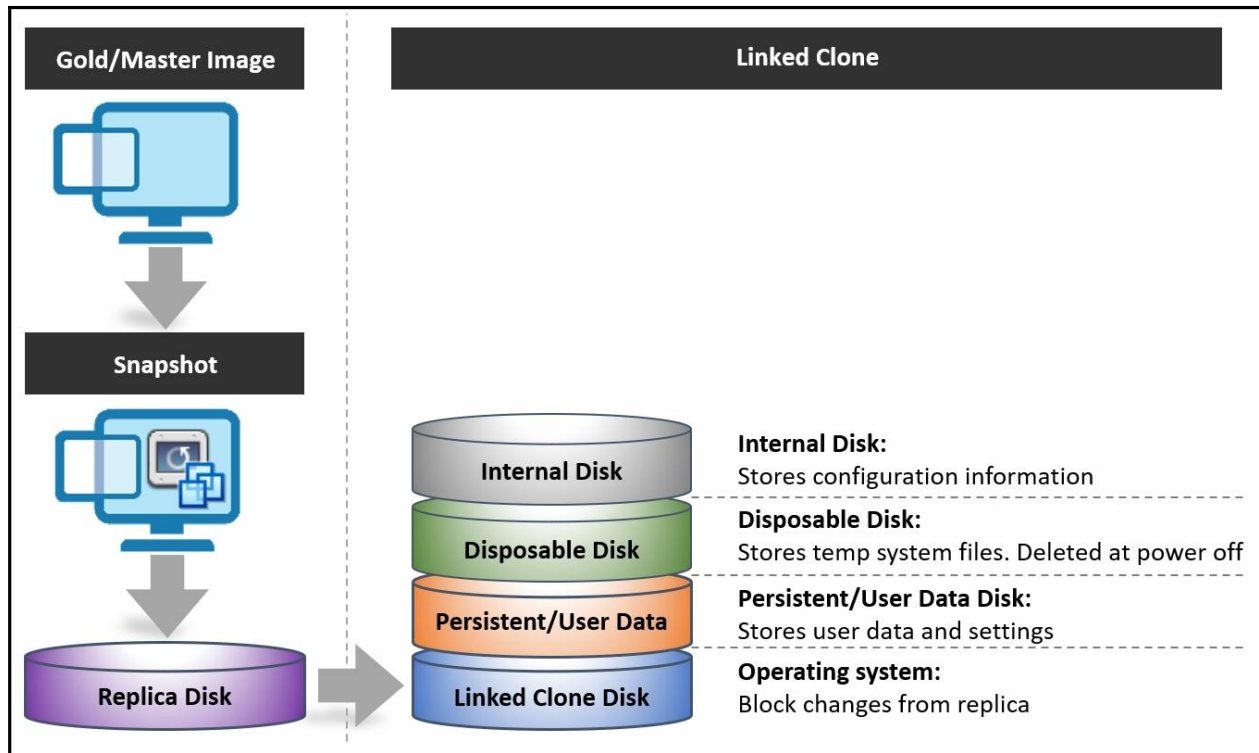


Hardware Required	Required	Recommended
Processor	Pentium IV 2.0GHz processor or higher	4 x CPU's
Networking	100Mbps Network Card	1Gbps Network Card
Memory	4GB RAM or Higher	At least 10GB RAM for 50 or more Desktops

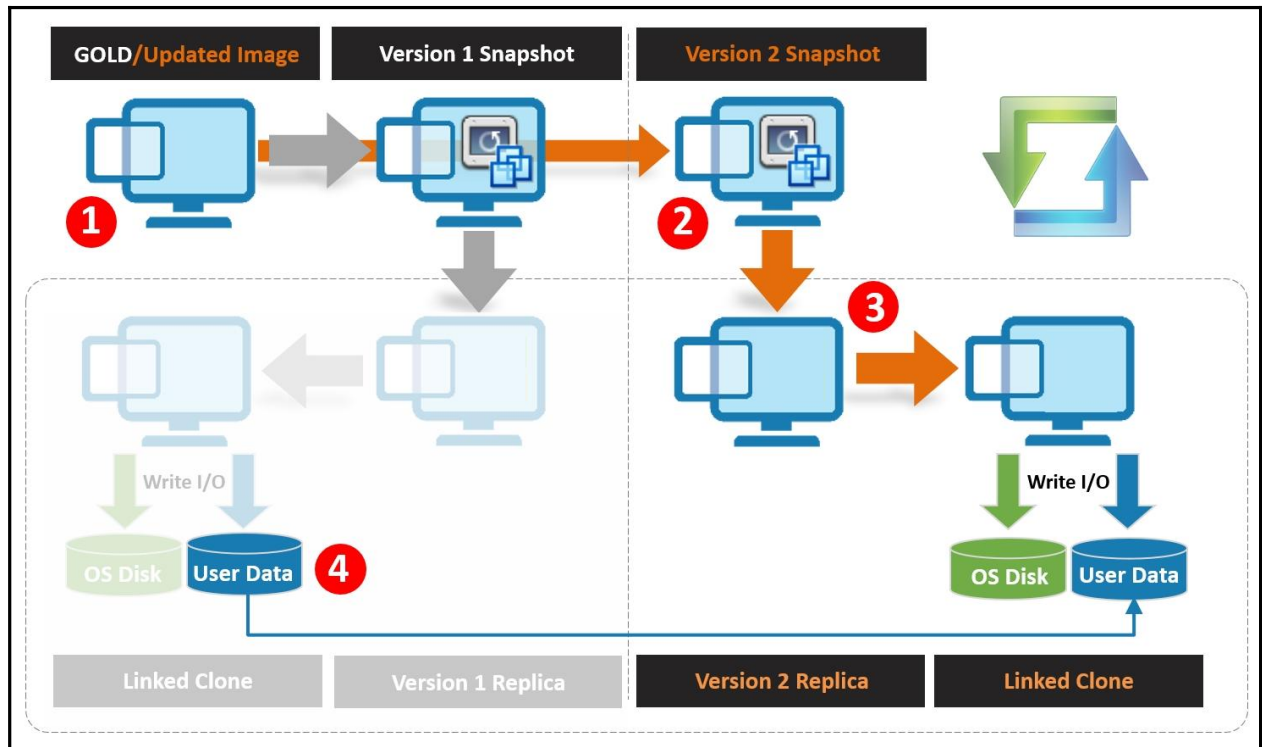
Operating System	Version	Edition
Windows Server 2008 R2 SP1	64-bit	Standard, Enterprise, Datacenter
Windows Server 2012 R2	64-bit	Standard, Enterprise
Windows Server 2016	64-bit	Standard, Enterprise

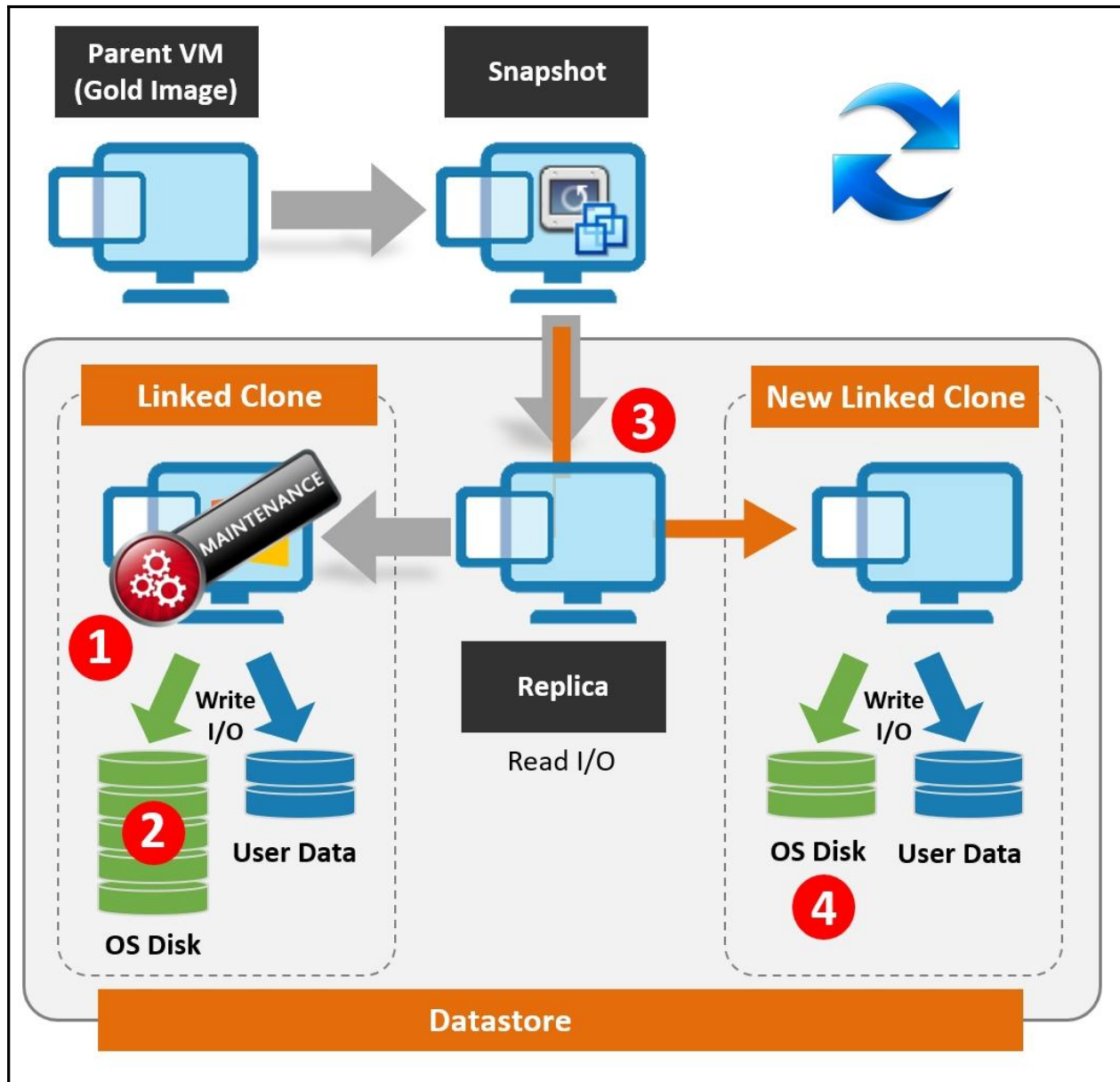


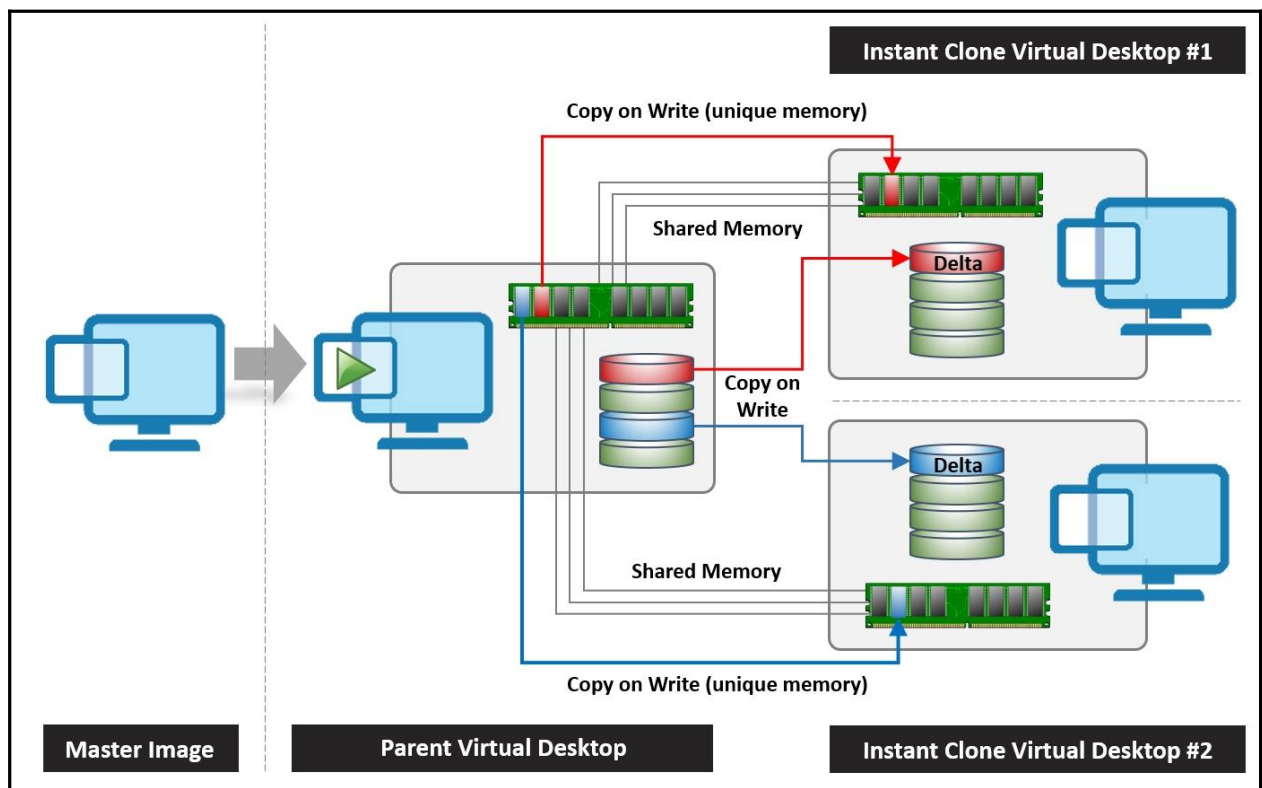
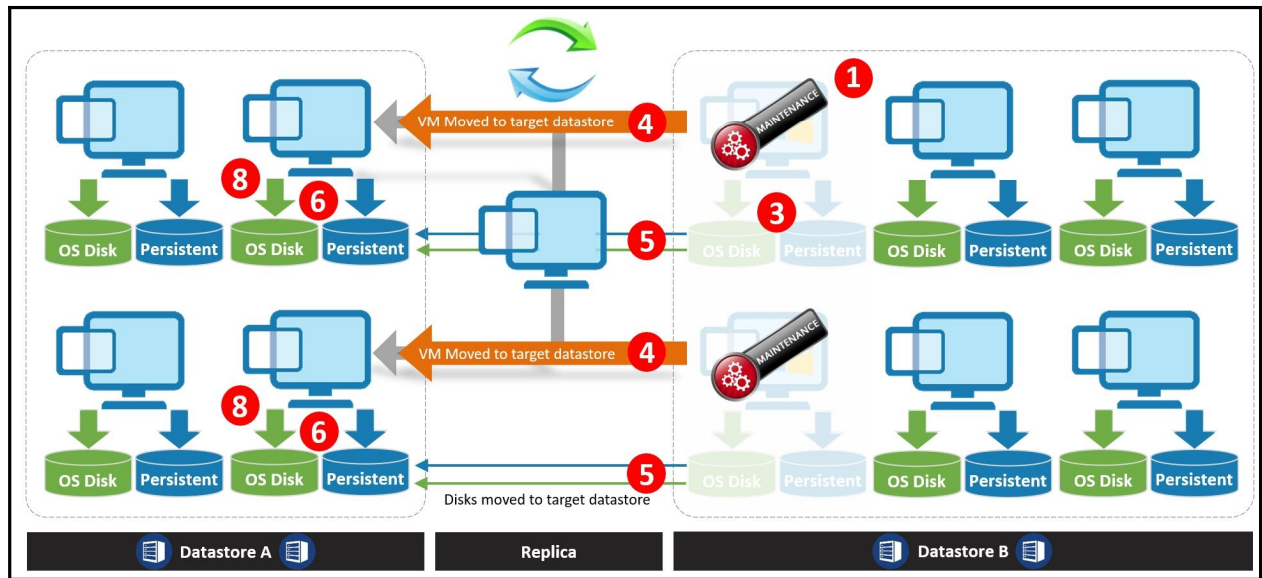


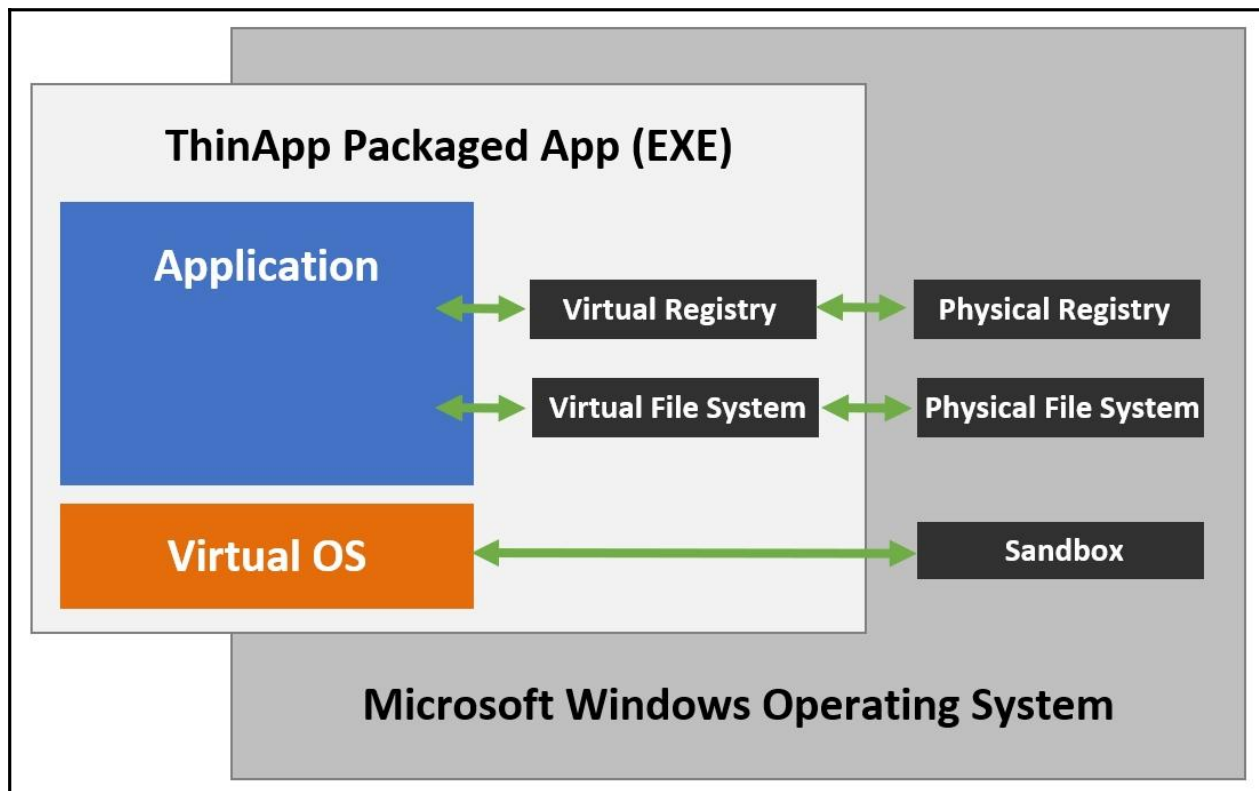
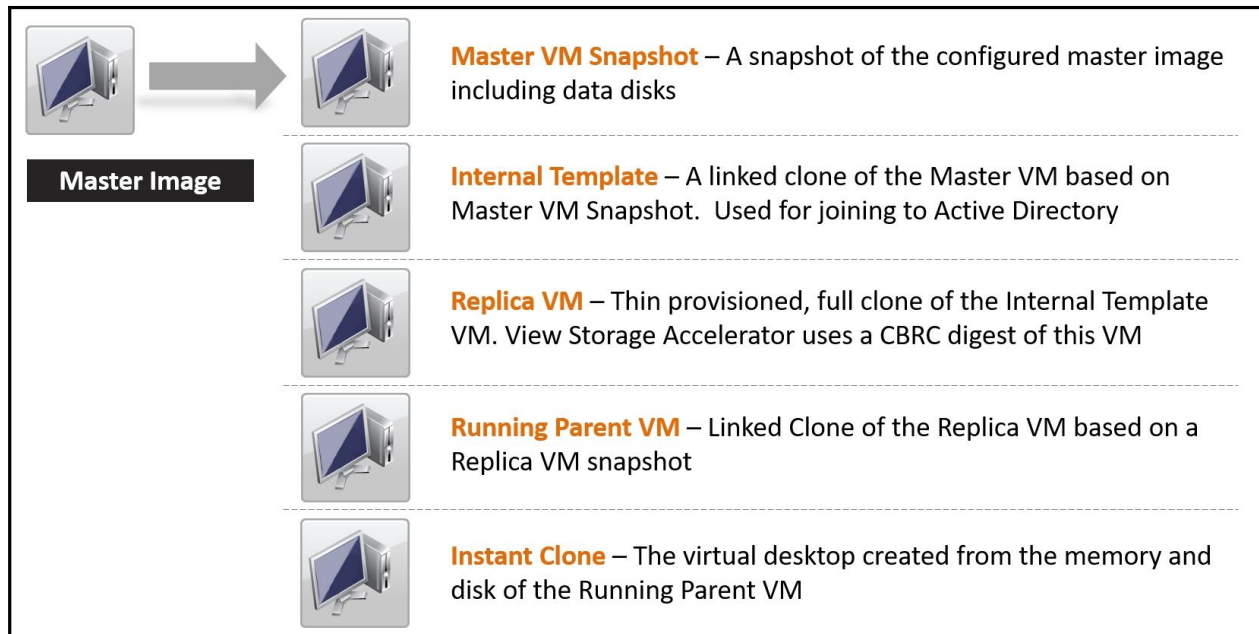


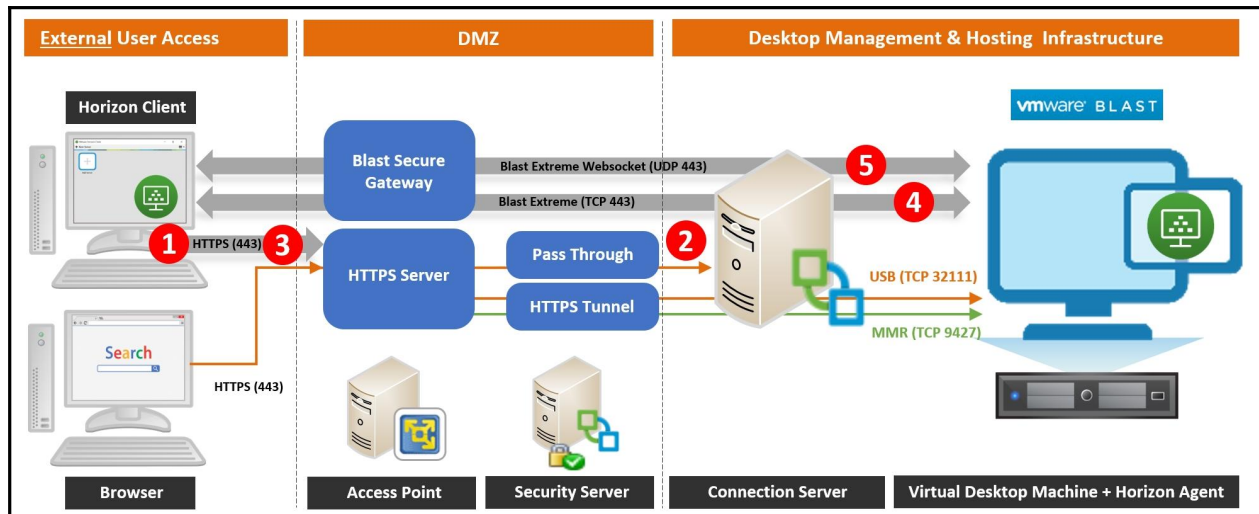
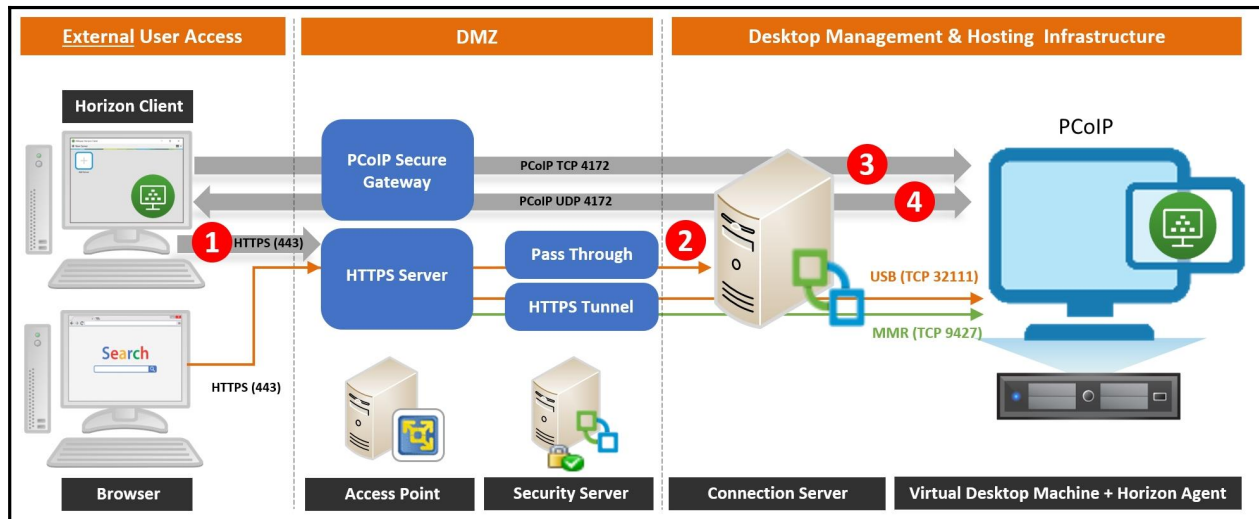


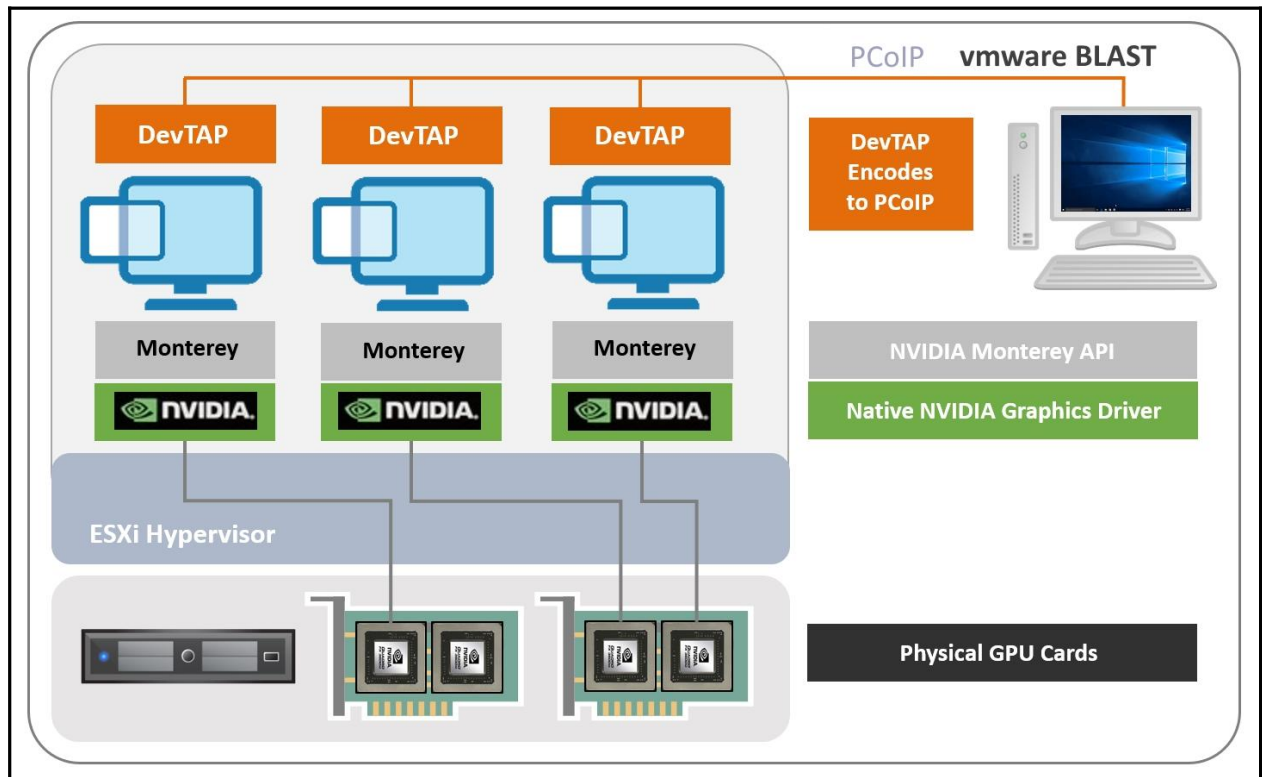
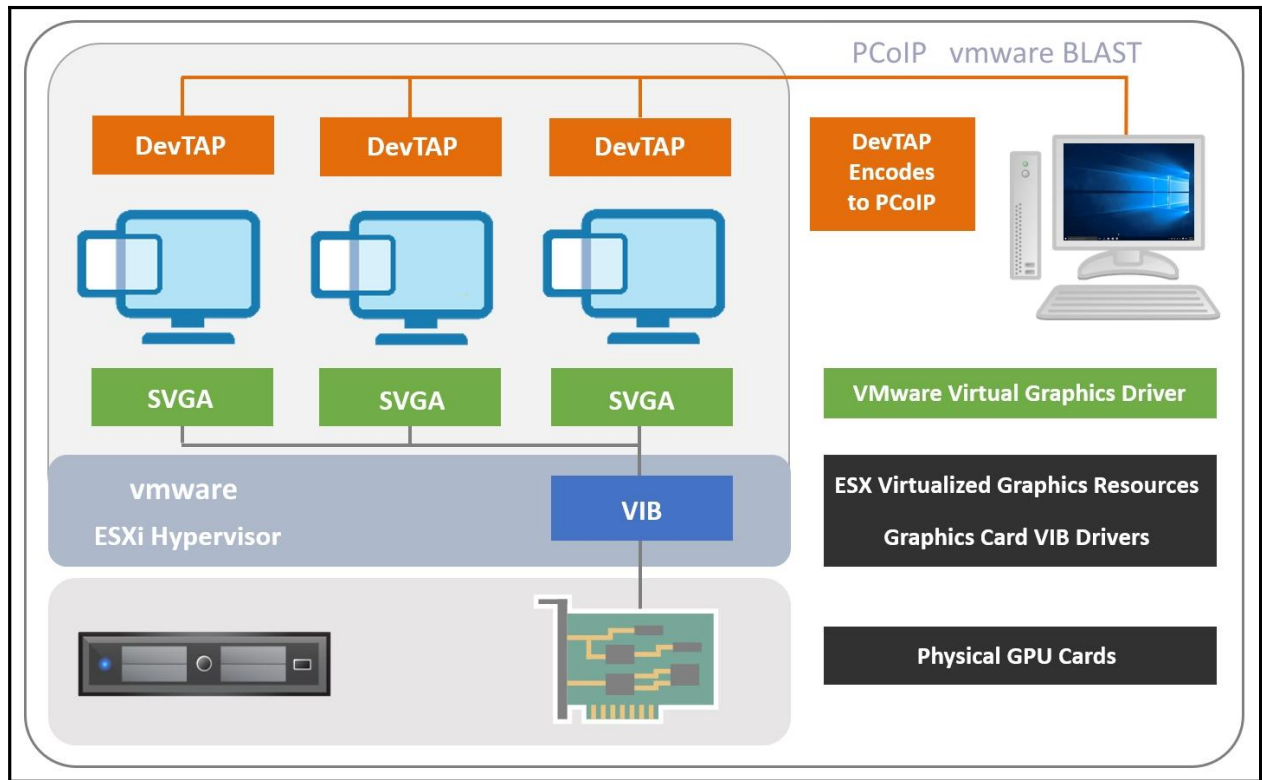


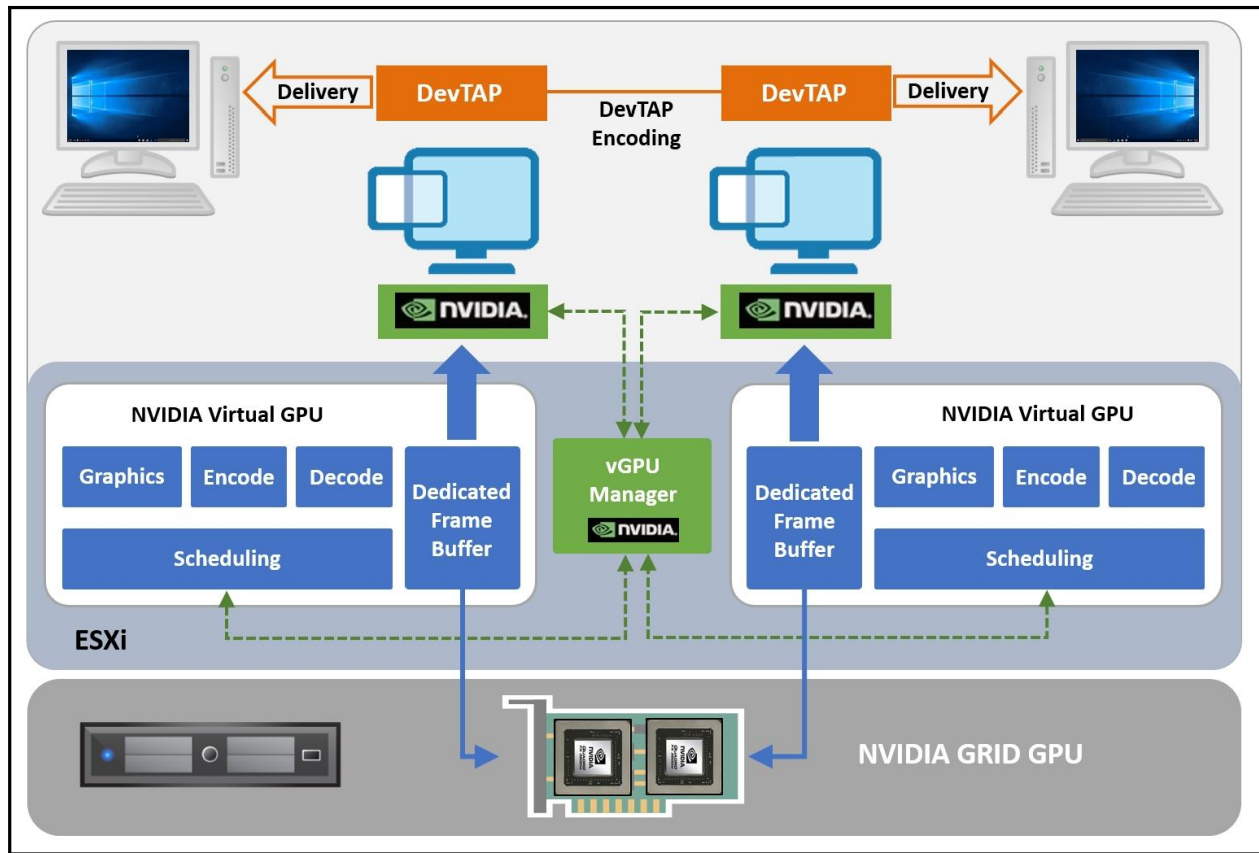




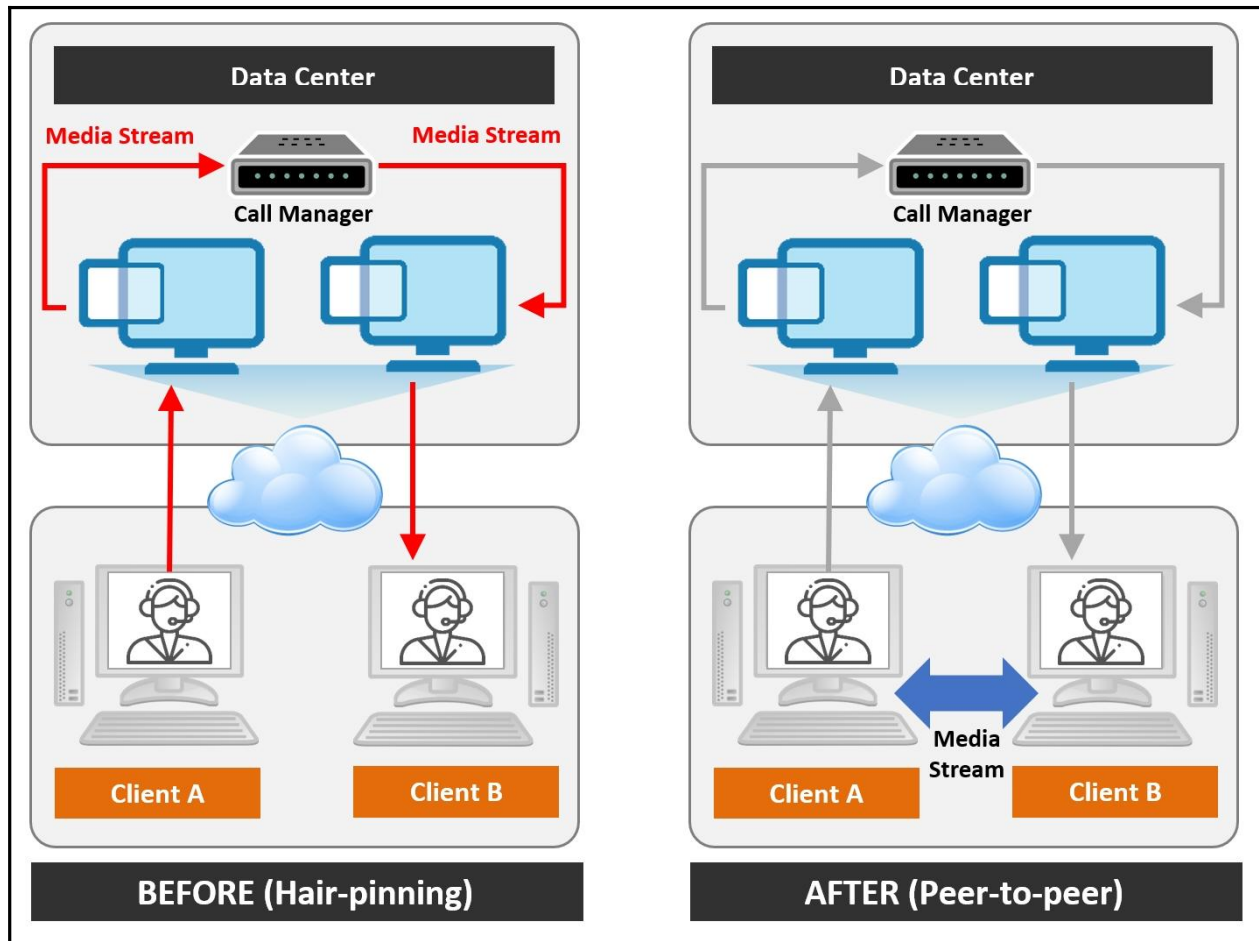




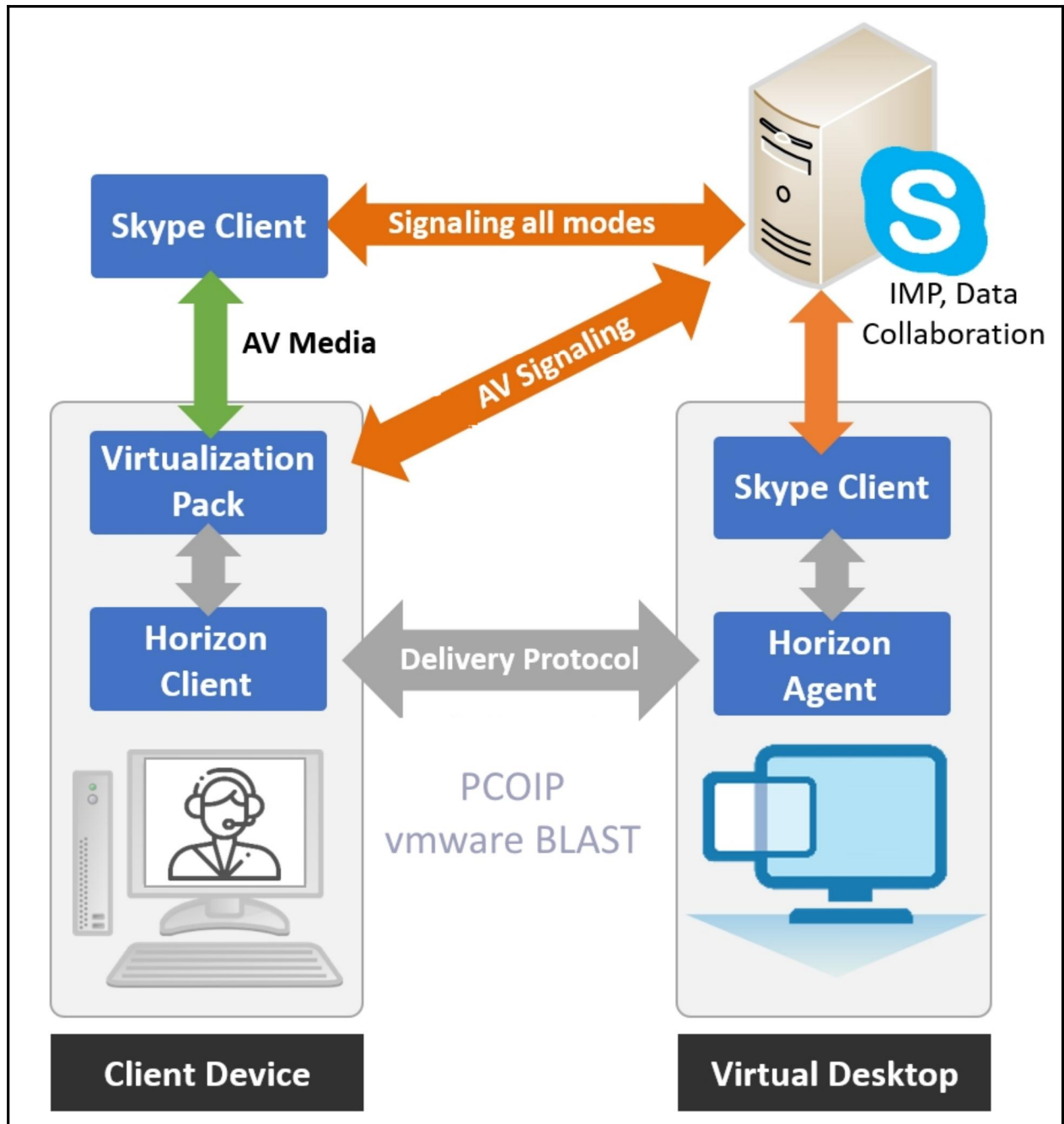




	vGPU Profile	Video Memory	Max Displays	Max Resolution	Maximum No. Users
<b>NVIDIA GRID K2</b>	K280Q	4GB	4	2560 x 1600	2
	K260Q	2GB	4	2560 x 1600	4
	K240Q	1GB	2	2562 x 1600	8
	K220Q	512MB	2	2560 x 1600	16
<b>NVIDIA GRID K1</b>	K180Q	4GB	4	2560 x 1600	4
	K160Q	2GB	4	2560 x 1600	8
	K140Q	1GB	2	2562 x 1600	16
	K120Q	512MB	2	2560 x 1600	32

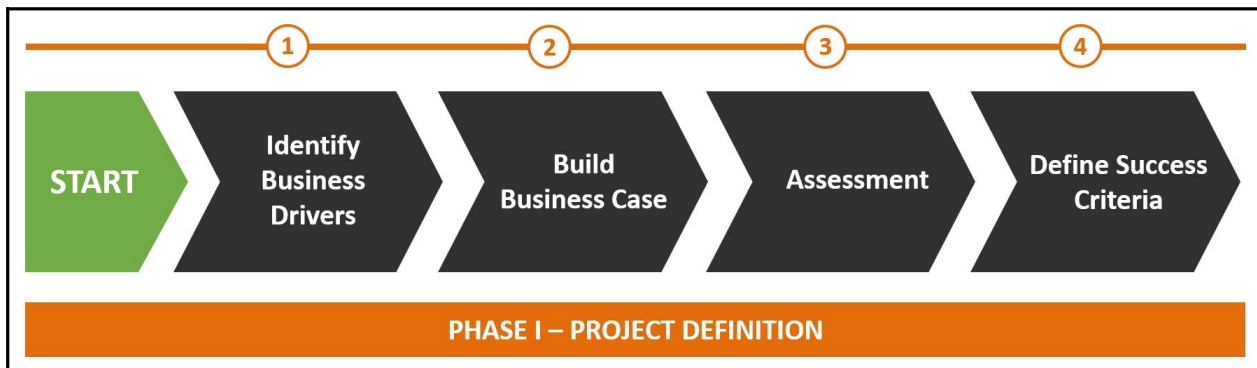
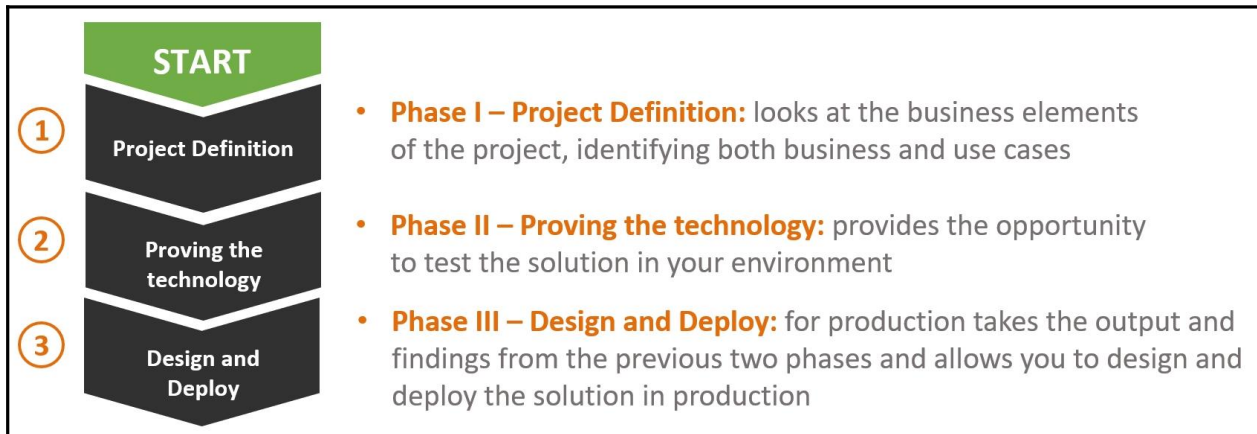






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# Chapter 3: Design and Deployment Considerations



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Stratusphere

Diagnostics
Inventory
Advanced

Search

SpotChecks

Dashboards

Inspectors

Trends & Top Consumers

My Tab

Users (ID)

Machines

Login

Event Log

Applications

Process Name

Browser

Network

Remote Display

Trace Route

Folders

Extensions

vHosts

Inspector View: FIT Consumption | FIT Score | All
GO
Details On
ROLL-UP
Auto
Date Range: 00: 23 - Last 14 Days

Look Up By: Users (ID)
Search
Resolution: Users (ID)
Basis
Filters
Options

Graph: FIT | FIT Score
Table: FIT Overview | VDI FIT Profile
COL SEARCH
Color: Default VDI UX/FIT
Limit: 100

### FIT Consumption Score for Last 14 Days - Users (ID)

User ordered by FIT Score

■ FIT Score Counts: C0 / B14 / A32

User	FIT SCORE	CPU Used %	CPU Kernel Mode %	CPU User Mode %	Memory Used %	GDI Objects	Disk IOPS	Network IO KBs	Network Latency	Users on Machine	Machine Count	Login Count	Logout Count	CID of Res	CID Records Total Hours	CID Record Count	Workload Ranking
david	B-	57.0%	21.2%	35.8%	26.1%	36	49.7 IOPS	649.9 KBs	36.21 ms	1	1	1	1	86.30%	289.82 hrs	14	23
pierremarmilod	B+	37.0%	19.7%	17.2%	88.6%	104	3.9 IOPS	61.4 KBs	148.28 ms	1	1	1	1	52.70%	176.93 hrs	12	14
db	B+	4.1%	2.2%	1.9%	19.8%	104	3.9 IOPS	74.9 KBs	67.66 ms	1	1	16	16	100.00%	336.00 hrs	14	19
jvu	B+	11.1%	5.3%	5.8%	60.1%	184	2.0 IOPS	37.6 KBs	43.70 ms	1	1	1	1	7.30%	24.69 hrs	2	37
jwalker	B+	7.4%	3.4%	4.0%	68.4%	53	17.8 IOPS	9.1 KBs	48.69 ms	1	1	1	1	21.00%	70.69 hrs	5	3
mimi	B+	15.3%	8.3%	7.0%	40.8%	53	3.7 IOPS	139.5 KBs	46.49 ms	1	2	3	4	27.40%	92.17 hrs	10	12
shajek	B+	18.4%	10.8%	7.6%	23.6%	126	2.0 IOPS	31.9 KBs	143.81 ms	1	1	10	11	19.10%	64.29 hrs	11	17
dwood	B+	8.8%	5.3%	3.5%	63.7%	118	3.6 IOPS	43.8 KBs	143.81 ms	1	1	1	1	30.60%	102.92 hrs	6	8
pierre	B+	8.1%	3.7%	4.4%	45.1%	103	1.1 IOPS	23.4 KBs	169.90 ms	2	6	11	25	52.60%	176.74 hrs	24	22
cwalker	B+	19.5%	7.9%	11.6%	85.7%	21	7.4 IOPS	42.8 KBs	36.38 ms	2	1	2	2	12.30%	41.22 hrs	9	32
jerrywu	B+	22.3%	12.9%	9.4%	27.5%	21	12.3 IOPS	113.3 KBs	49.27 ms	4	2	2	2	0.50%	1.79 hrs	1	7
redstone3	B+	8.5%	4.8%	3.7%	13.1%	42	5.9 IOPS	110.3 KBs	44.20 ms	1	1	1	1	1.60%	5.39 hrs	2	2
dpm	B+	30.5%	27.8%	2.7%	29.1%	10	2.1 IOPS	10.1 KBs	66.33 ms	1	1	1	1	87.10%	292.67 hrs	14	13
demouser2	B+	23.7%	7.7%	15.9%	68.8%	150	2.1 IOPS	10.1 KBs	66.33 ms	1	1	1	1	87.10%	292.67 hrs	14	13
mvanfrayen	A-	23.7%	7.7%	15.9%	68.8%	150	2.1 IOPS	10.1 KBs	66.33 ms	1	1	1	1	87.10%	292.67 hrs	14	13

#### User Group : LWL Observed Users

User Count : 28

Metric	Physical	Virtual	Result
Average Login Delay (ms)	17,896.54	28,666.67	✓
Average Application Launch Delay (ms)	16,603.62	1,001.39	✓
Average CPU Queue	2.62	2.67	✓
Average RAM Used (KB)	2,363,758.78	1,551,802.85	✓
Average Page File Used (KB)	620,661.34	496,756.29	✓
Average Page Faults	9,122.51	4,009.44	✓
Applications Not Responding	2.71	0.00	✓
Average Disk IOPS	37.96	26.44	✓
Average Disk Queue	3.88	1.00	✓
Average Network Latency (µs)	88,076.63	3,580.00	✓
VDI UX Rating	Good	Good	✓
VDI UX Score	2.78	2.78	✓

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Stratusphere

Assessment
Inventory
Advanced

Summary

Inspector

Reports

VDI FIT Profile

Saved changes to VDI FIT Profile

#### VDI FIT Profile

#### Machine Resource FIT Indicators

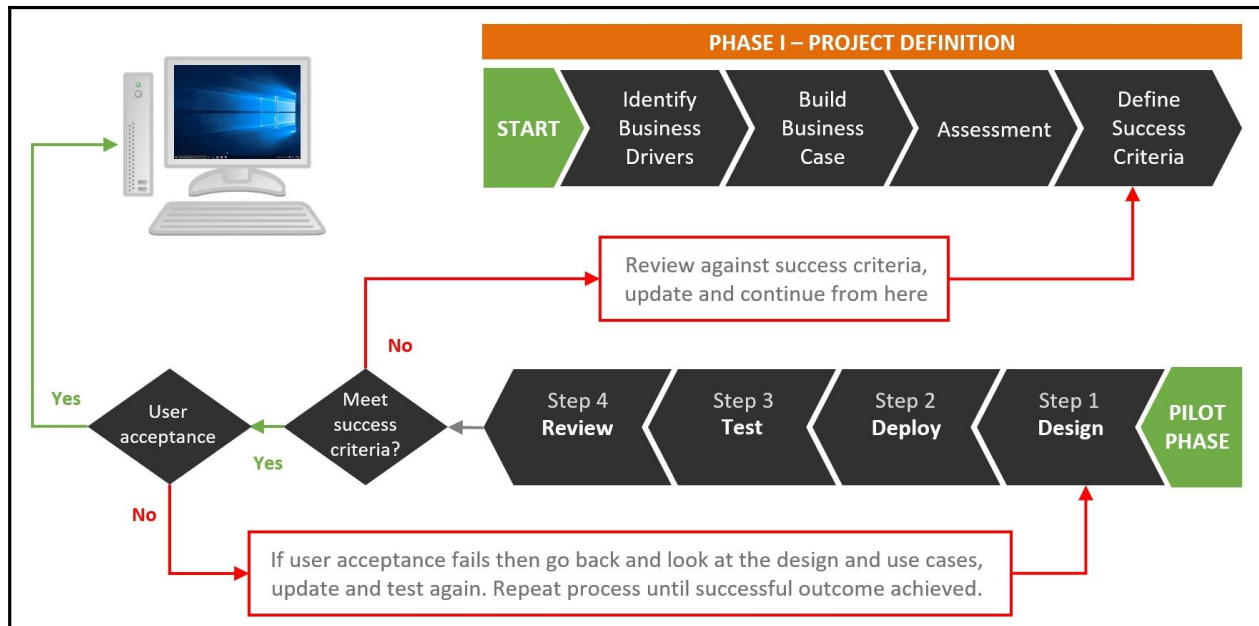
	Weight (%)	Good	Fair	Poor
System CPU Load :	20	0	<= 15	<= 30
Avg. system CPU % Used :	2	0	<= 30	<= 70
User CPU Load :	20	0	<= 3,500,000	<= 7,500,000
Avg. user CPU % Used :	2	0	<= 200	<= 500
Memory Used :	20	0	<= 1	<= 2
Avg. memory KB Used :	2	0	<= 15	<= 85
Graphics Intensity :	20	0	<= 20	<= 60
Avg. number of GDI objects initialized :	2	0	<= 50	<= 150
Monitors in Use :	20	0	<= 1	<= 2
Number of displays connected :	2	0	<= 15	<= 85
Disk Load :	33	0	<= 20	<= 60
Avg. disk IO per second :	2	0	<= 50	<= 150
Network Load :	33	0	<= 15	<= 85
Avg. network KB per second :	2	0	<= 20	<= 60
Network Latency :	34	0	<= 50	<= 150
Avg. network roundtrip time (ms) :	2	0	<= 15	<= 85

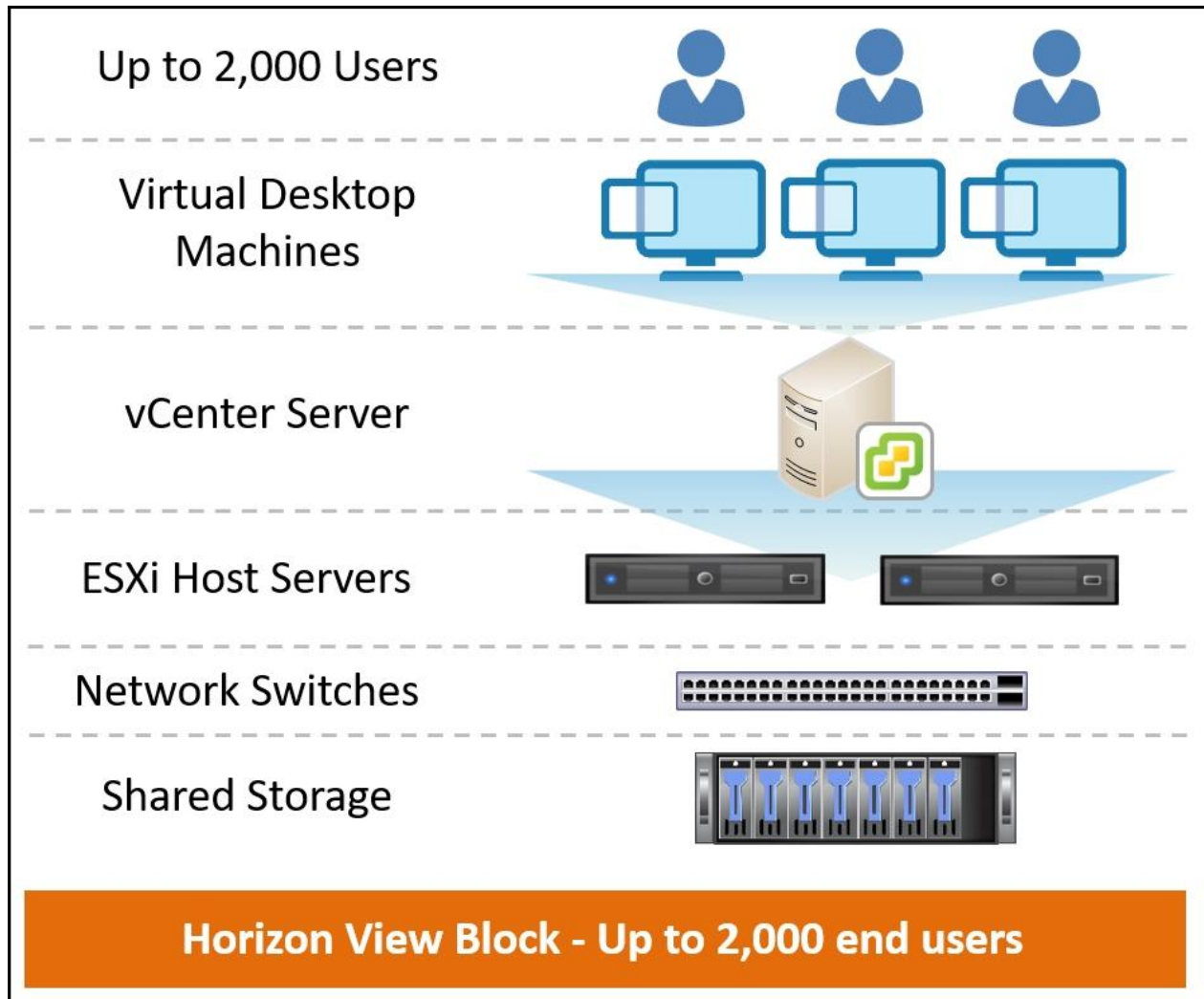
#### I/O Resource FIT Indicators

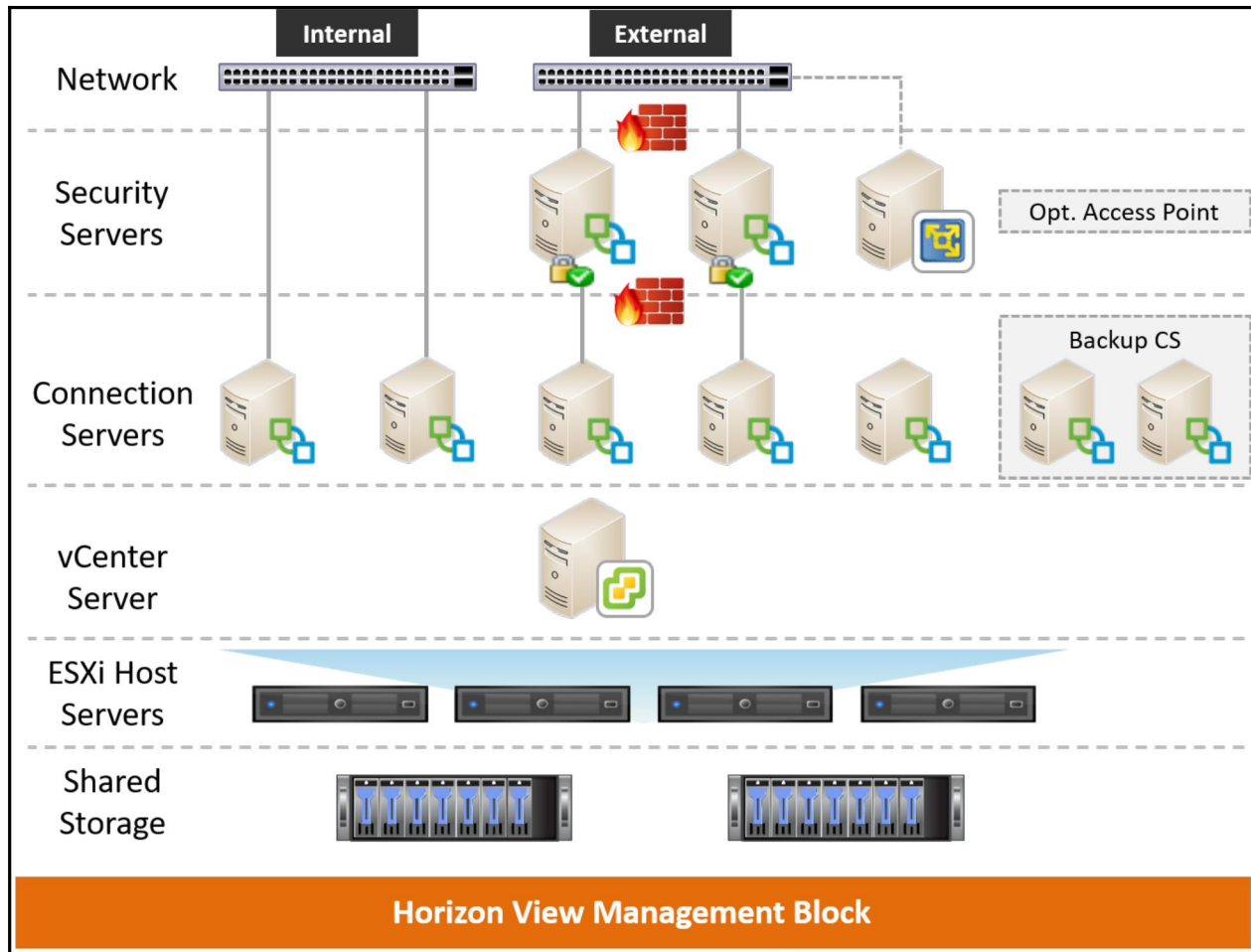
## Proof of Concept (POC)

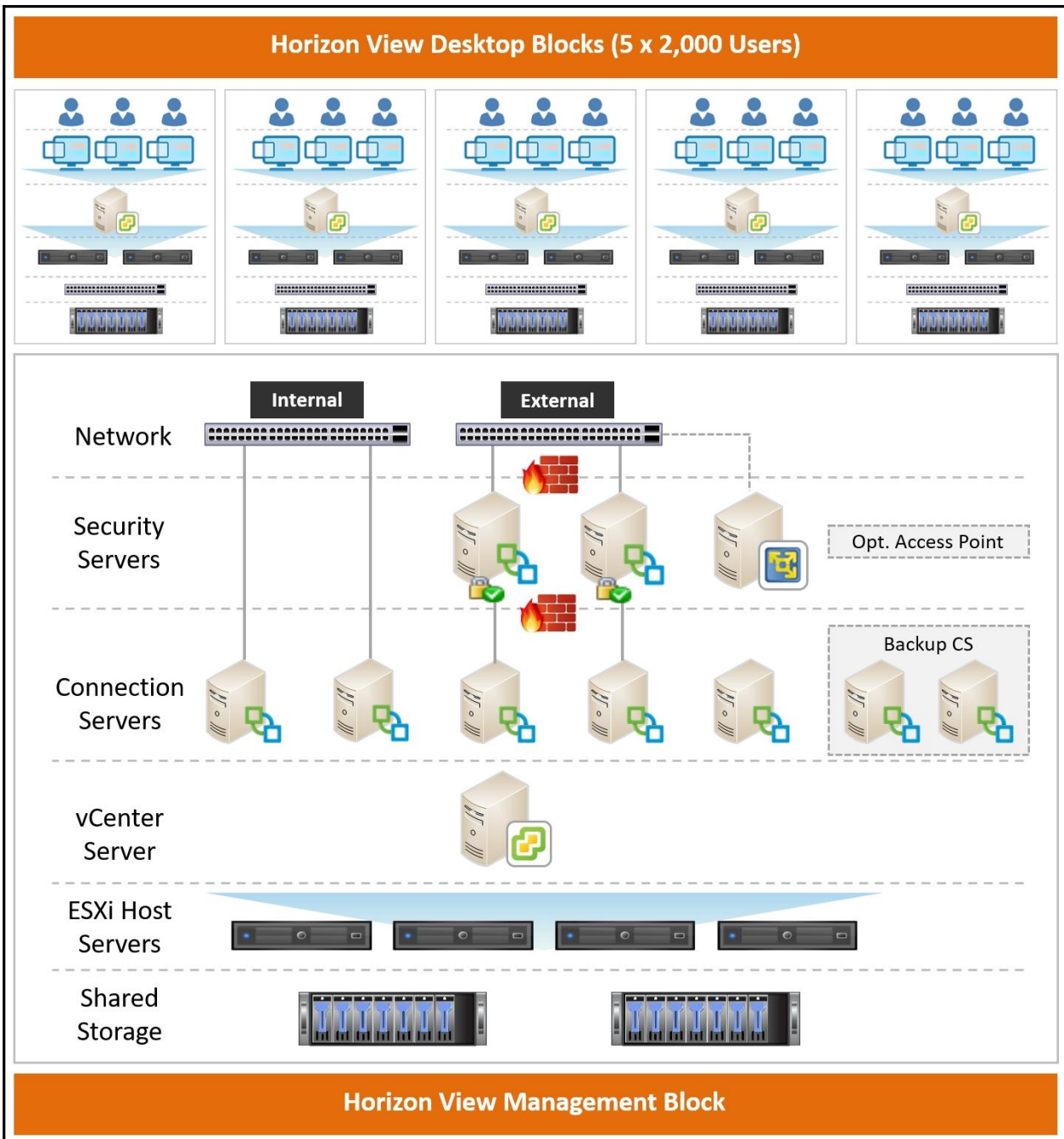
## Proof of Technology (POT)

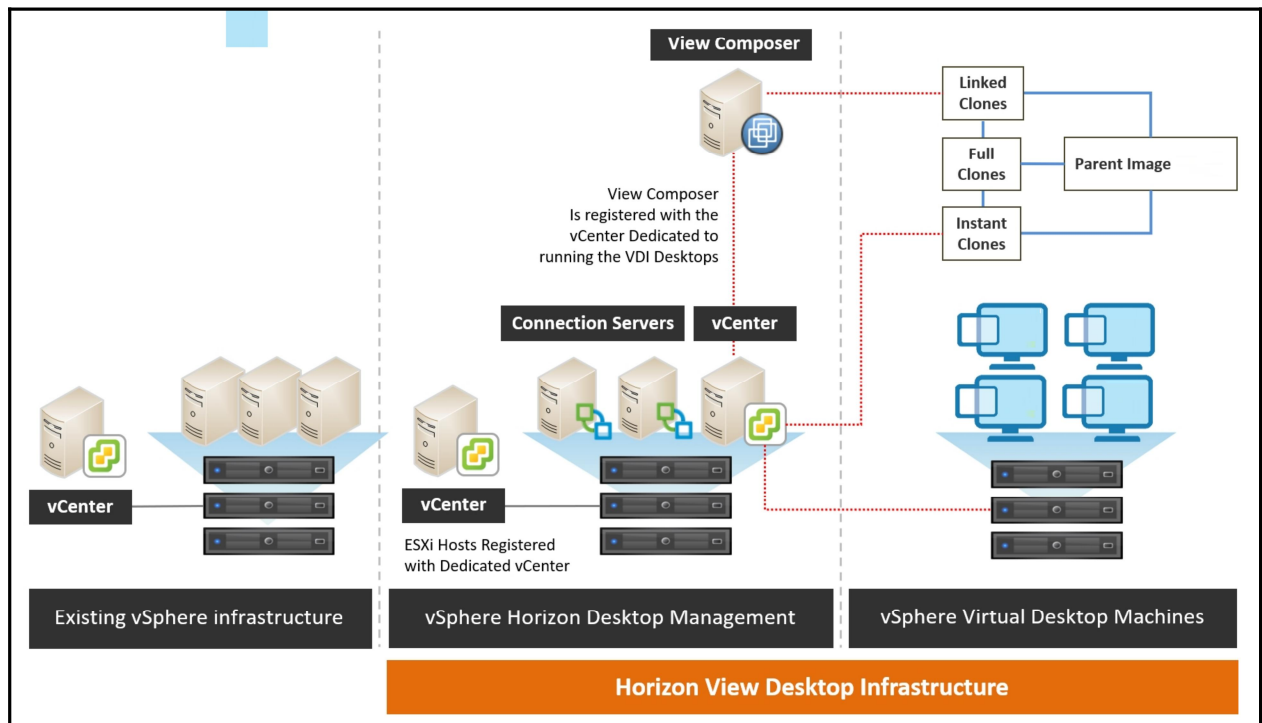
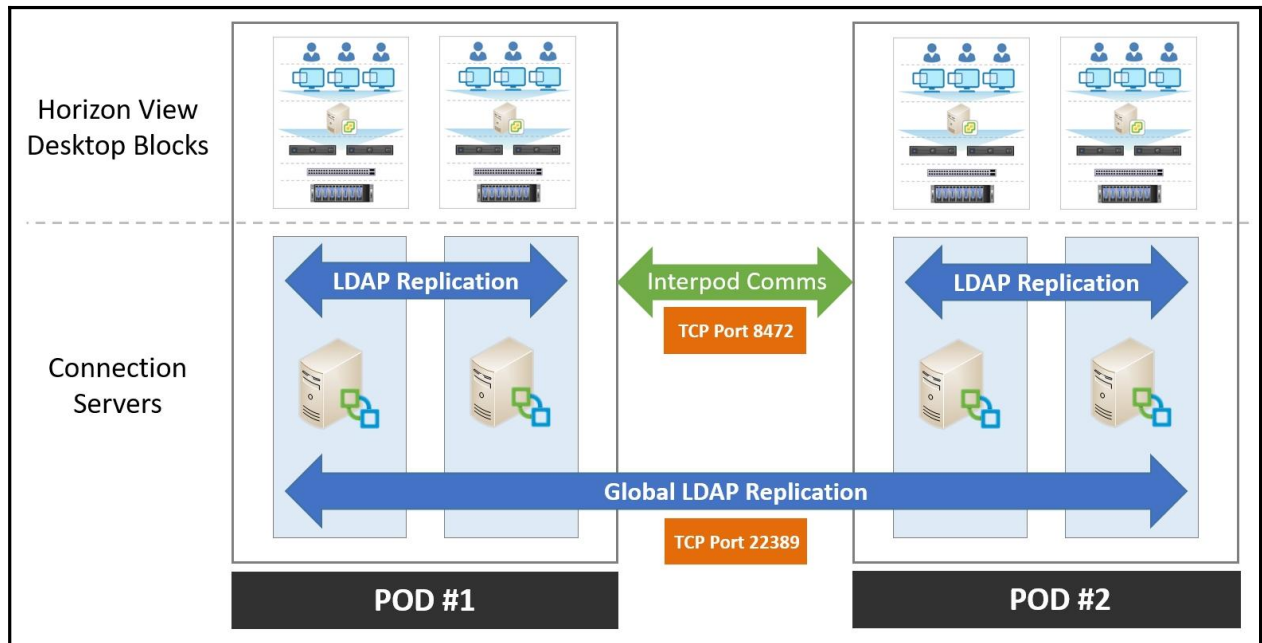
## Pilot





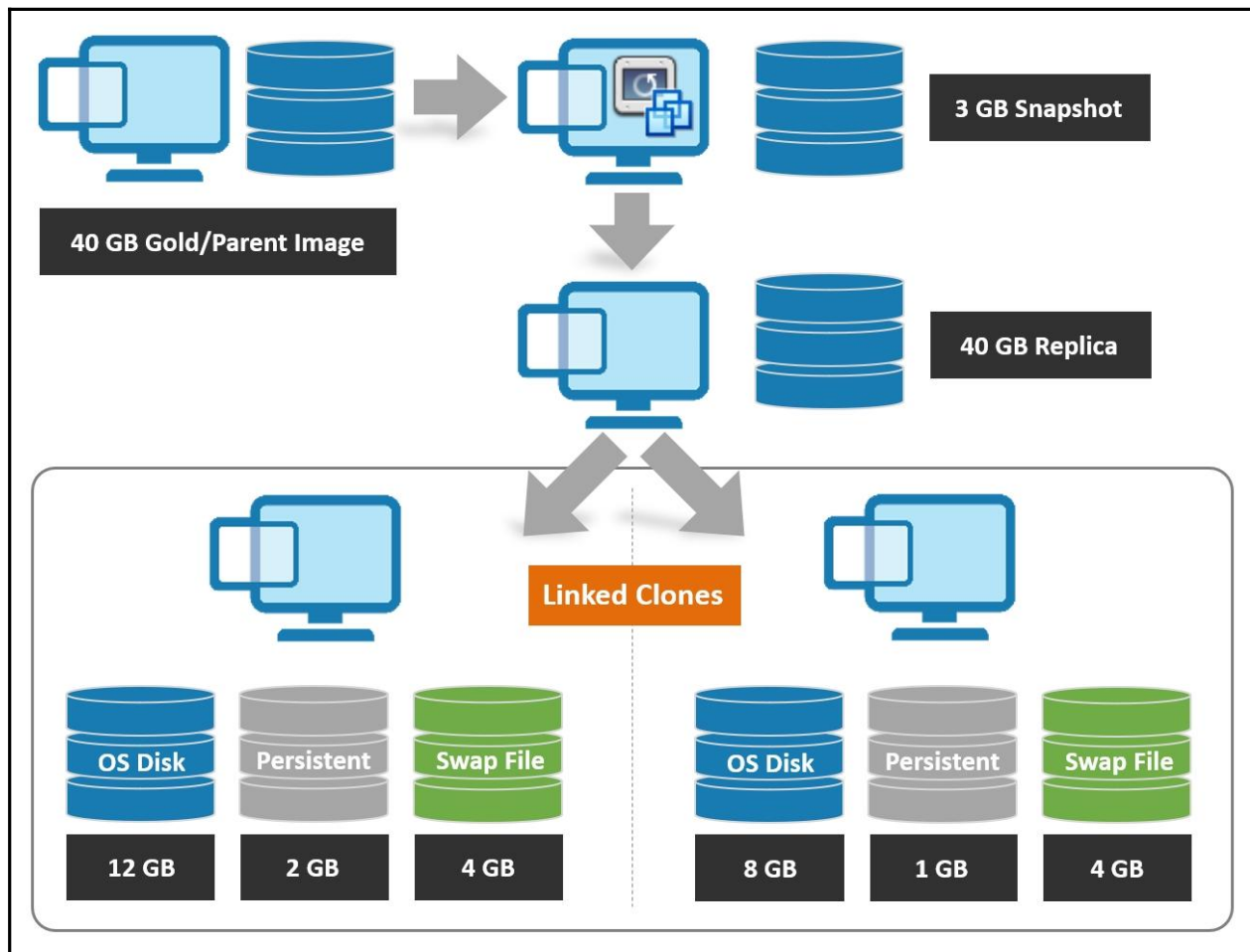




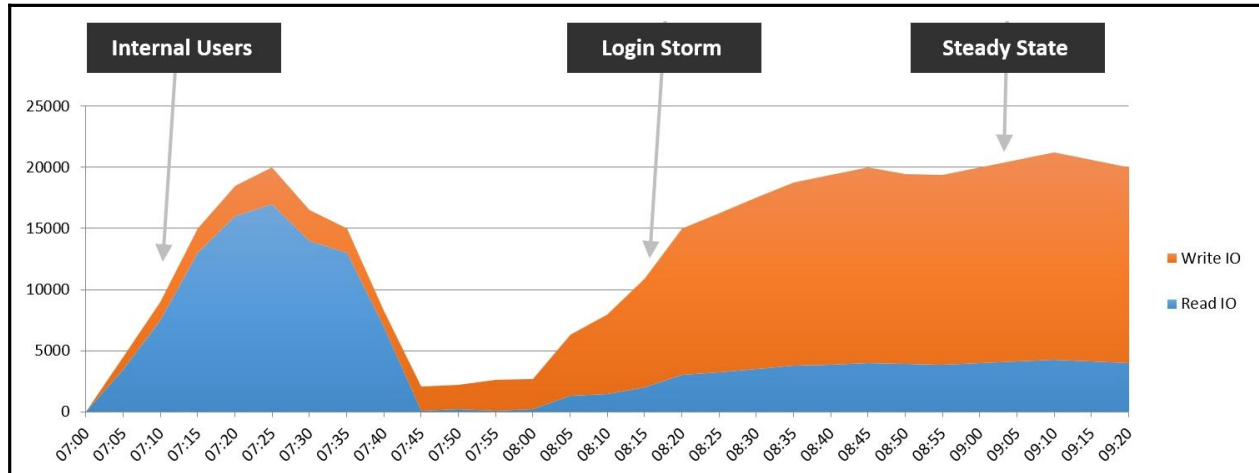




MEMORY OVERHEAD IN MB	1 vCPU	2 vCPU's	3 vCPU's	4 vCPU's
	20.29	24.28	32.33	48.16
	25.90	29.91	37.86	53.82
	4864	52.72	60.67	76.68
	139.62	143.98	151.93	168.60



Desktop Pool	Gold Image Size	Linked Clone or Full Clone	Replica Size	Swap File	Persistent Disk per Desktop	No. of Desktops	Space per Desktop	Total Space (GB)
Administration	40 GB	Linked Clone	40 GB	2 GB		200	12 GB	2880
Managers	60 GB	Full Clone		4 GB		20	40 GB	940
Marketing	40 GB	Linked Clone	40 GB	4 GB	10 GB	30	20 GB	1100



$$\begin{aligned}
 & (Total\ Workload\ IOPS * Percentage\ of\ read\ operations) \\
 & + \\
 & (Total\ Workload\ IOPS * Percentage\ of\ read\ operations) * RAID\ IO\ Penalty)
 \end{aligned}$$

$$\begin{aligned}
 & (200\ IOPS * 60\% \text{ read operations}) \\
 & + \\
 & (200\ IOPS * 60\% \text{ read operations}) * 4) \qquad \qquad \qquad = 600\ IOPS
 \end{aligned}$$

Hardware Config	2,000 Users	10,000 Users
Processor	2 vCPUs	4 CPUs
Memory	4 GB	10 GB
Maximum desktop pool size	1,000	2,000
Hard disk space requirements	40 Gb	60 GB

Operating System	Version	Edition
Windows Server 2008 R2 SP1	64-bit	Standard, Enterprise, Datacenter
Windows Server 2012 R2	64-bit	Standard, Enterprise
Windows Server 2016	64-bit	Standard, Enterprise

Hardware Config	2,000 Users	10,000 Users
Processor	2 vCPUs	4 CPUs
Memory	4 GB	10 GB
Maximum desktop pool size	1,000	2,000
Hard disk space requirements	40 Gb	60 GB

Operating System	Version	Edition
Windows Server 2008 R2 SP1	64-bit	Standard, Enterprise, Datacenter
Windows Server 2012 R2	64-bit	Standard, Enterprise
Windows Server 2016	64-bit	Standard, Enterprise

Hardware Config	2,000 Users	10,000 Users
Processor	2 - 8 vCPUs	16 vCPUs
Memory	10 - 24GB	48 GB
Hard disk space requirements	40 GB	180 GB
Maximum provisioning operations	20	20
Maximum power operations	50	50

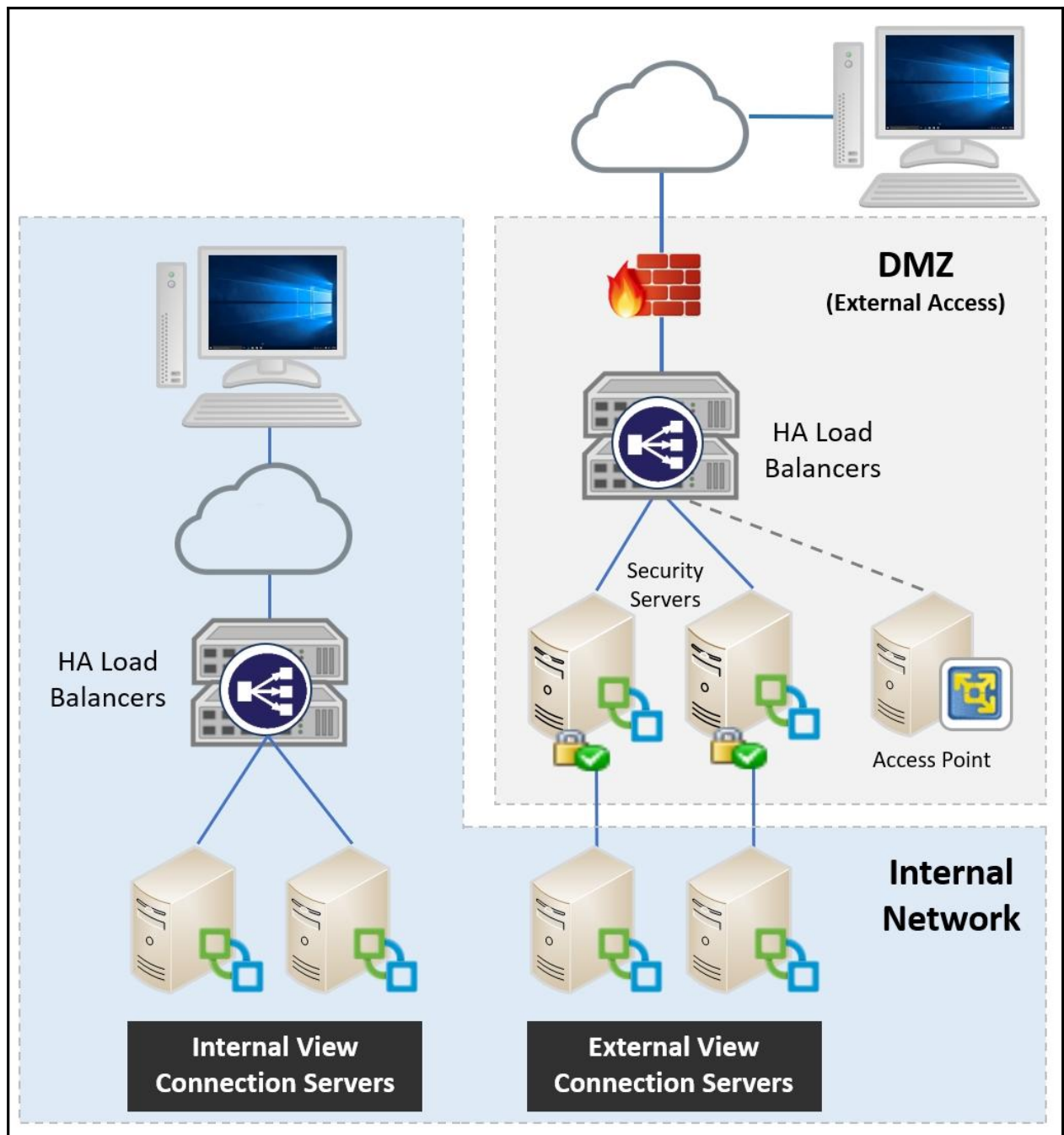
Operating System	Version	Edition
Windows Server 2008 R2 SP1	64-bit	Standard, Enterprise, Datacenter
Windows Server 2012 R2	64-bit	Standard, Enterprise
Windows Server 2016	64-bit	Standard, Enterprise

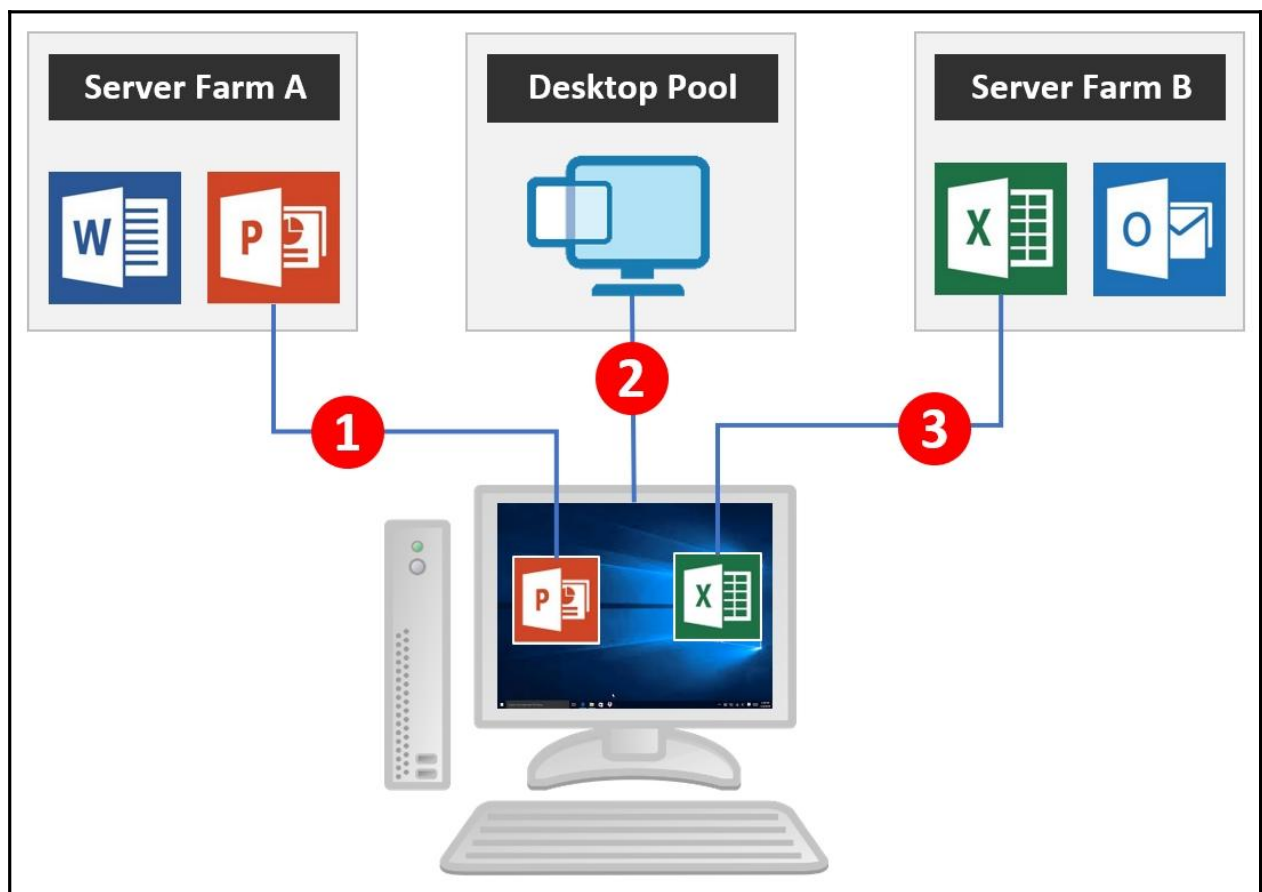
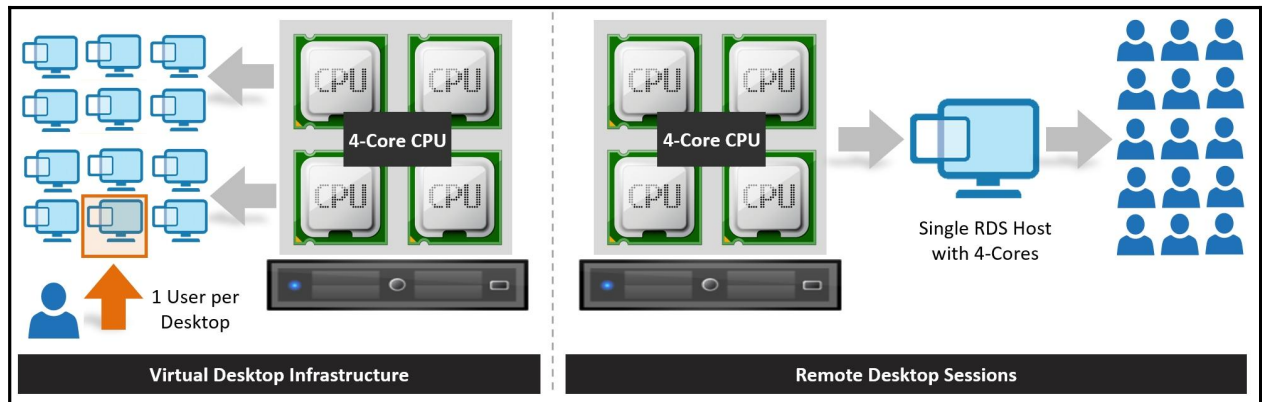
Hardware Config	Required
Processor	2 vCPUs
Memory	4 GB
Hard disk space requirements	20 GB

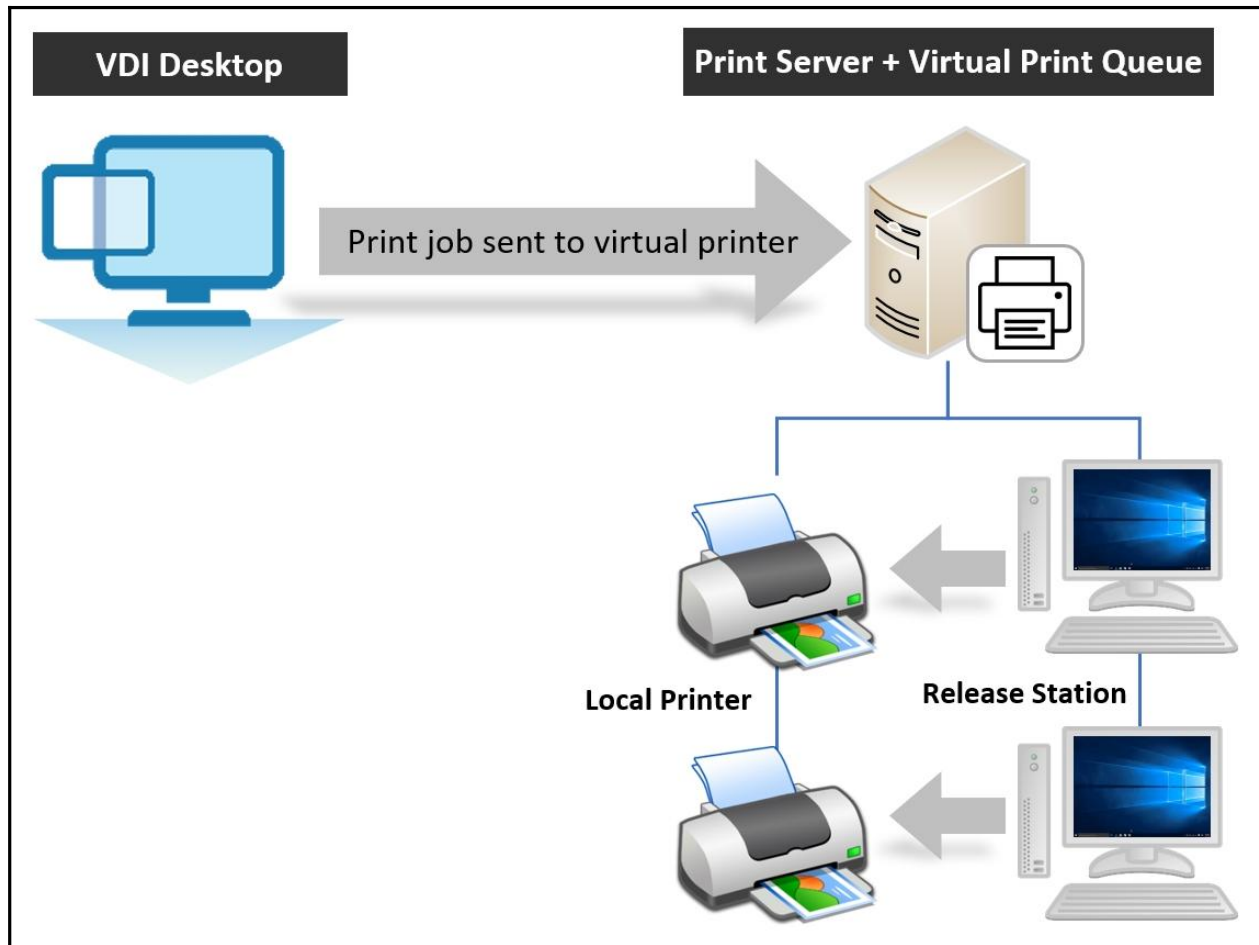
Description	Config Maximums
Maximum number of direct connections for a single connection server (PCoIP, Blast & RDS)	4,000
Maximum number of direct connections for seven connection servers (PCoIP, Blast & RDS)	20,000
Maximum Blast Secure Gateway connections for a single Connection Server	2,000 (default) 4,000 (tested)
Maximum PCoIP Secure Gateway connections for a single Connection Server	2,000 (default) 4,000 (tested)
Maximum number of desktops in a cloud pod	200,000
Maximum number of pods in a cloud pod architecture	25
Maximum number of sites in a cloud pod architecture	10
Maximum View Connection Servers in a cloud pod architecture	175
Maximum number of sessions per pod	10,000
Clusters per desktop pool	1
Hosts per cluster	32
Maximum monitors with PCoIP	4
Maximum monitors with 3D Rendering enabled	2
Maximum monitors with RDP 7	16
Maximum 4K monitors with	3

Typical Tasks			Average Bandwidth
User Types	Light user	Basic office productivity, no video or high-end graphics	50 - 150 Kbps
	Medium user	Office productivity optimized for Horizon View	250 Kbps - 1 Mbps
	Heavy user	Advanced office user with 3D graphics, Aero	400 Kbps - 2 Mbps
	Power user	High-end user running video and CAD applications	2 Mbps +

Available Network Bandwidth			Audio Usage
Audio Type	CD quality audio	Up to 8 Mbps	1,500 Kbps
	Stereo audio	Between 2 and 8 Mbps	400 Kbps
	Mono audio	Between 700 Kbps and 2 Mbps	90 Kbps
	Compressed mono audio	Between 125 Kbps and 700 Kbps	60 Kbps







		Recommended Initial RAM Size	Initial CPU
Operating System	Windows XP 32-Bit	1 GB	1 vCPU
	Windows 7 32-bit	1 GB	1 vCPU
	Windows 7 64-bit	2 GB	2 vCPUs
	Windows 8	2 GB	2 vCPUs
	Windows 10	2 GB	2 vCPUs



$(\text{CPU Speed in MHz} \times (\text{Number of Cores} - 2)) \div \text{CPU requirements of each virtual desktop}$

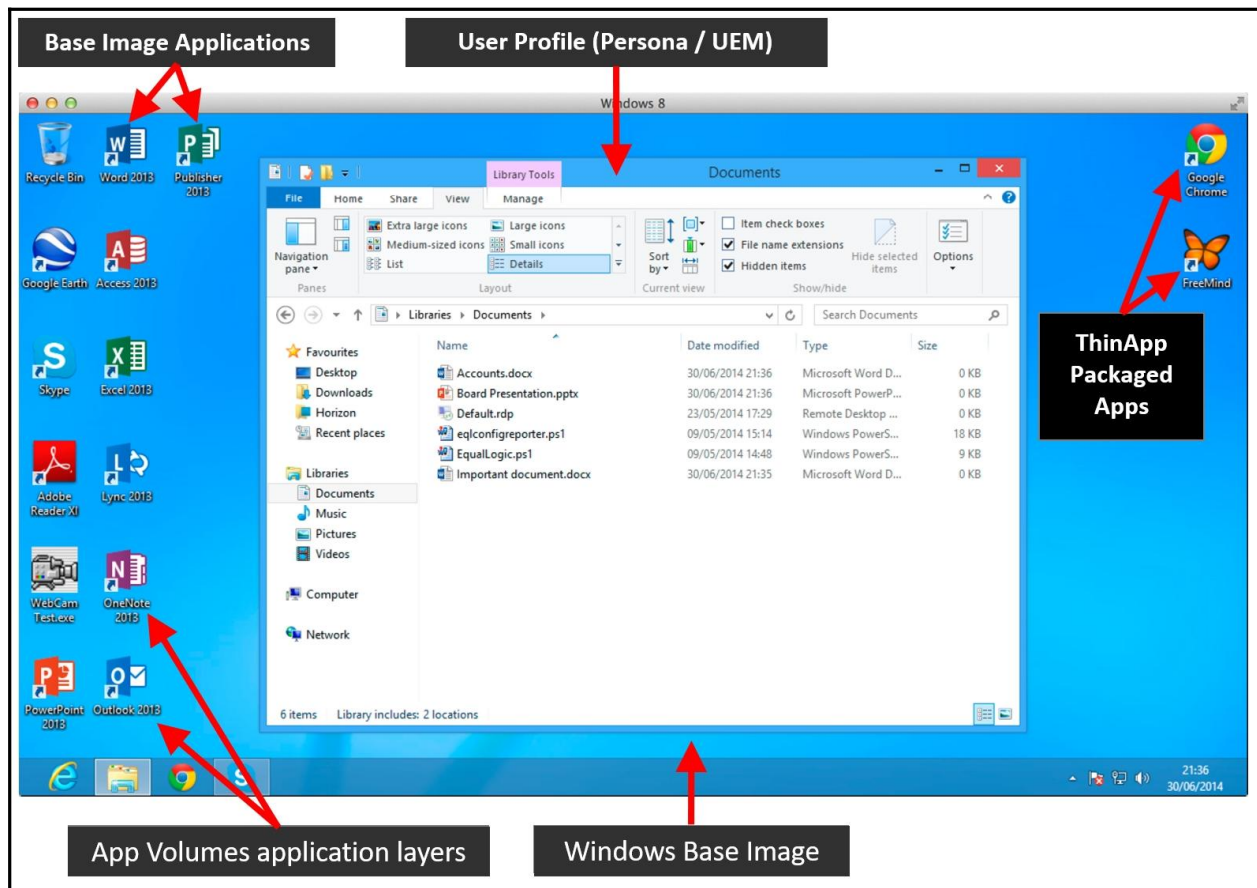
$(2600 \text{ MHz} \times 18 \text{ Cores}) \div 330 \text{ MHz} = 141.81 \text{ (141 desktops)}$

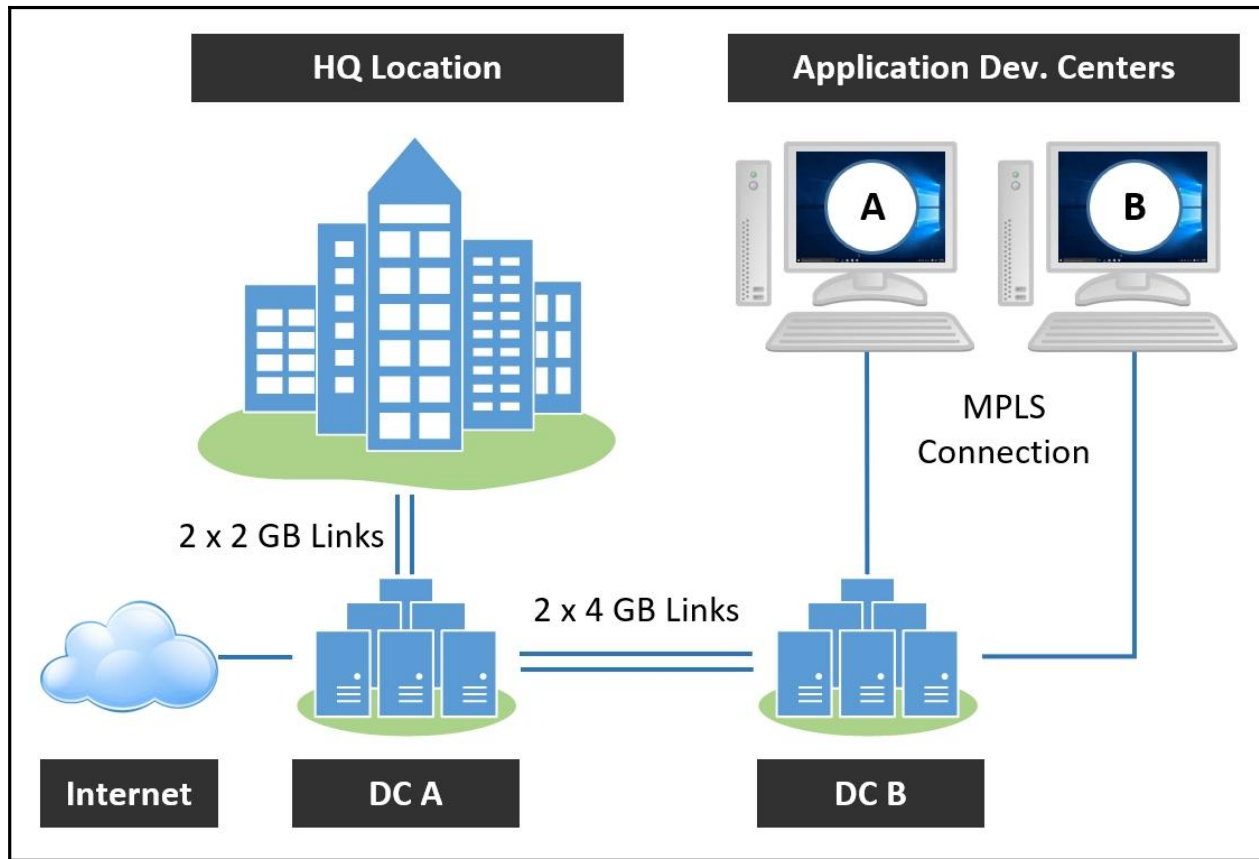
$(\text{CPU Speed in MHz} \times (\text{Number of Cores} - 2)) \div \text{CPU requirements of each virtual desktop}$

$(2600 \text{ MHz} \times 18 \text{ Cores}) \div 550 \text{ MHz} = 85.09 \text{ (85 desktops)}$

$(\text{CPU Speed in MHz} \times (\text{Number of Cores} - 2)) \div \text{CPU requirements of each virtual desktop}$

$(2600 \text{ MHz} \times 18 \text{ Cores}) \div 825 \text{ MHz} = 56.72 \text{ (56 desktops)}$



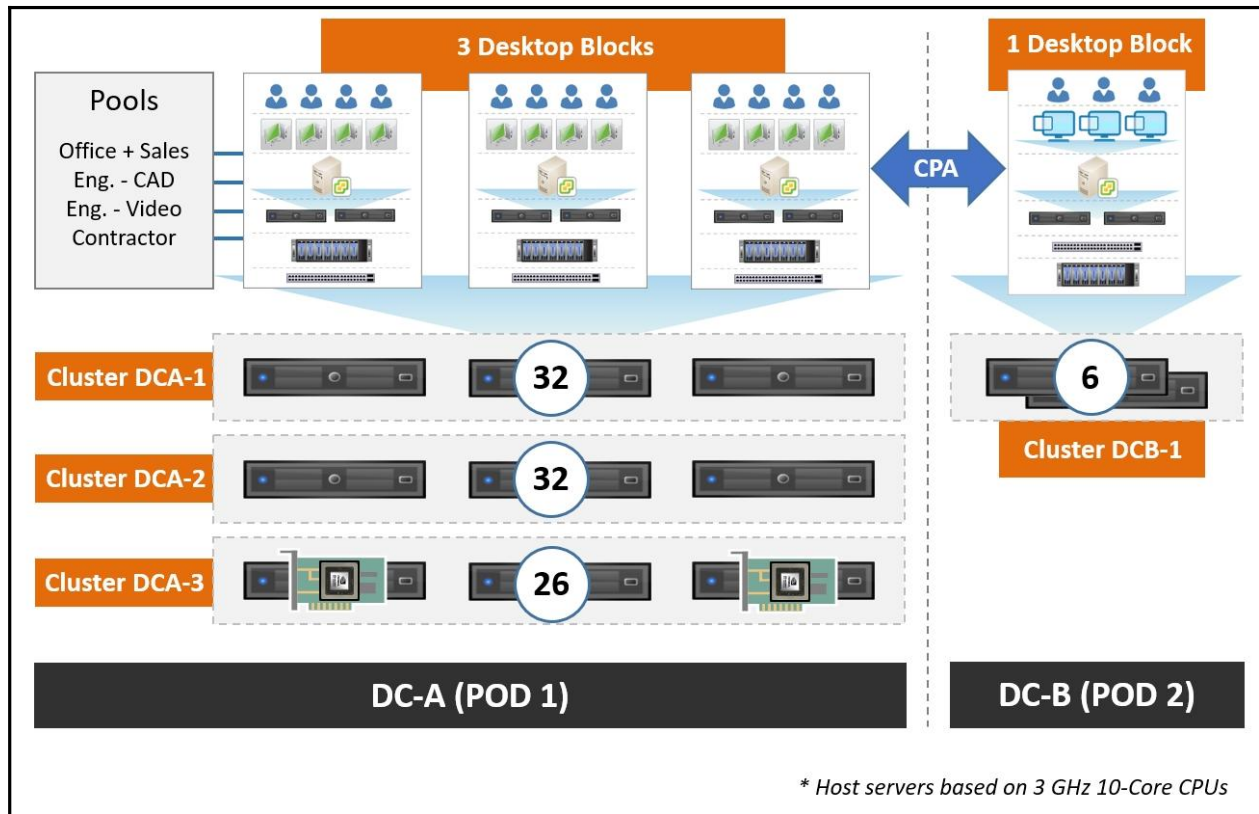


User Type	No. of Users	Location	Specific Requirements
Application Developers	125 125	App Dev Site A App Dev Site B	Local admin rights to install software
Office Workers	2,000 1,500	HQ HQ	Standard Office applications Standard Office + Visio + Project
Contractors	250	HQ	BYOD + Local admin rights
Engineering	150 100	HQ HQ	Require CAD with high-end graphics Require 3D and video
Sales	1,500	Remote/Internet	Secure remote access

Desktop Pool	DC	Pod	No. Desktops	Pool Description
Application Developers	B	2	250	Dedicated global pool
Office Workers & Sales	A	1	5,000	Floating pool
Engineering - CAD	A	1	150	Dedicated pool with GPU
Engineering - Video	A	1	100	Dedicated pool with 3D
Contractors	A	1	250	Dedicated pool

Pod #1	No. of Users	Desktops per Server	No. Server Hosts	Cluster
Office & Sales	5,000	98	52 + 1 for DR	A
Contractors	250	50	5 + 1 for DR	A
GPU based CAD (K180Q)	150	8	19	B
GPU based Video (K140Q)	100	16	7	B
App Developers	250	50	5 + 1 for DR	A
<b>TOTAL</b>			<b>86</b>	

Pod #2	No. of Users	Desktops per Server	No. Server Hosts
App Developers	250	50	5 + 1 for DR
<b>TOTAL</b>			<b>6</b>

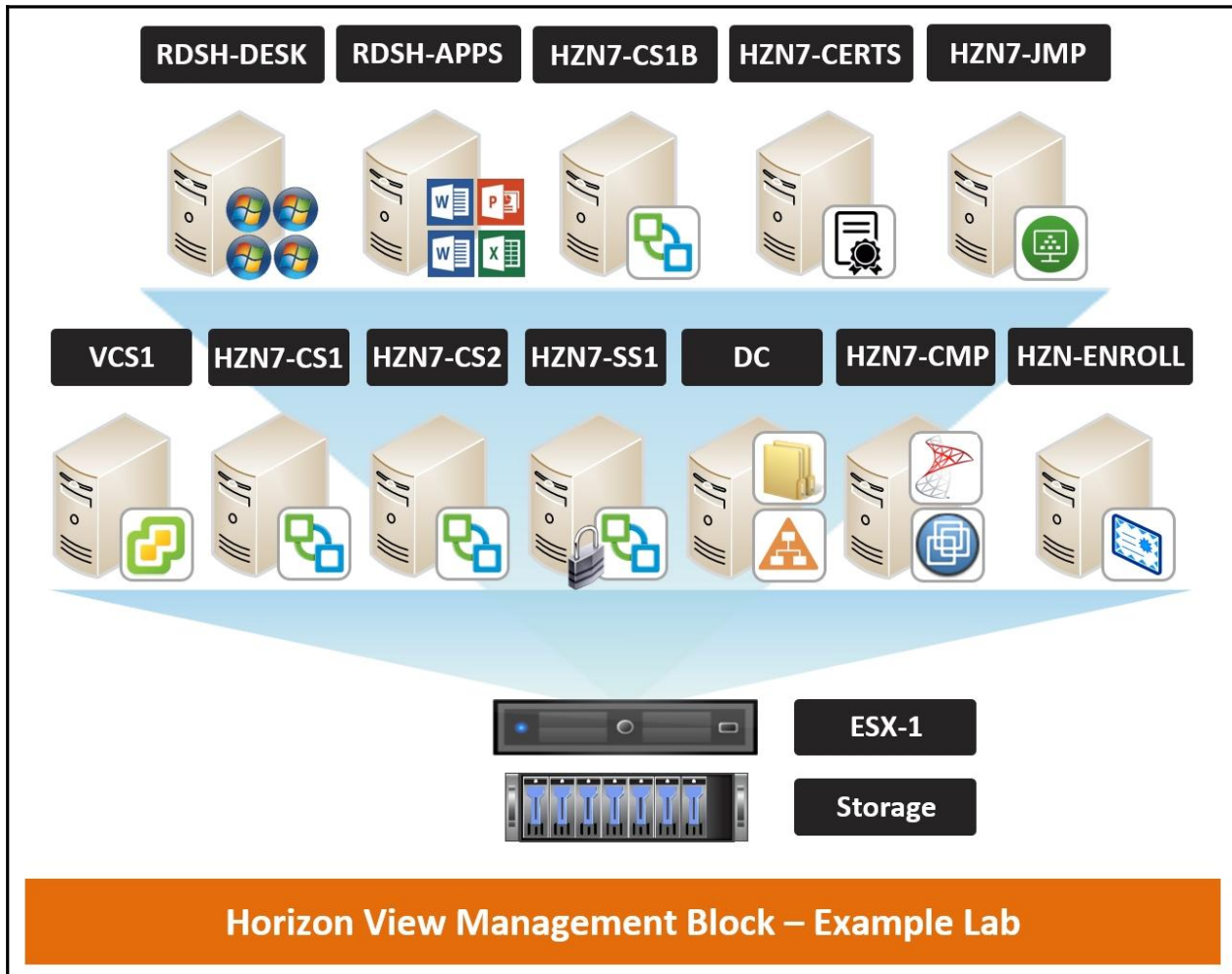


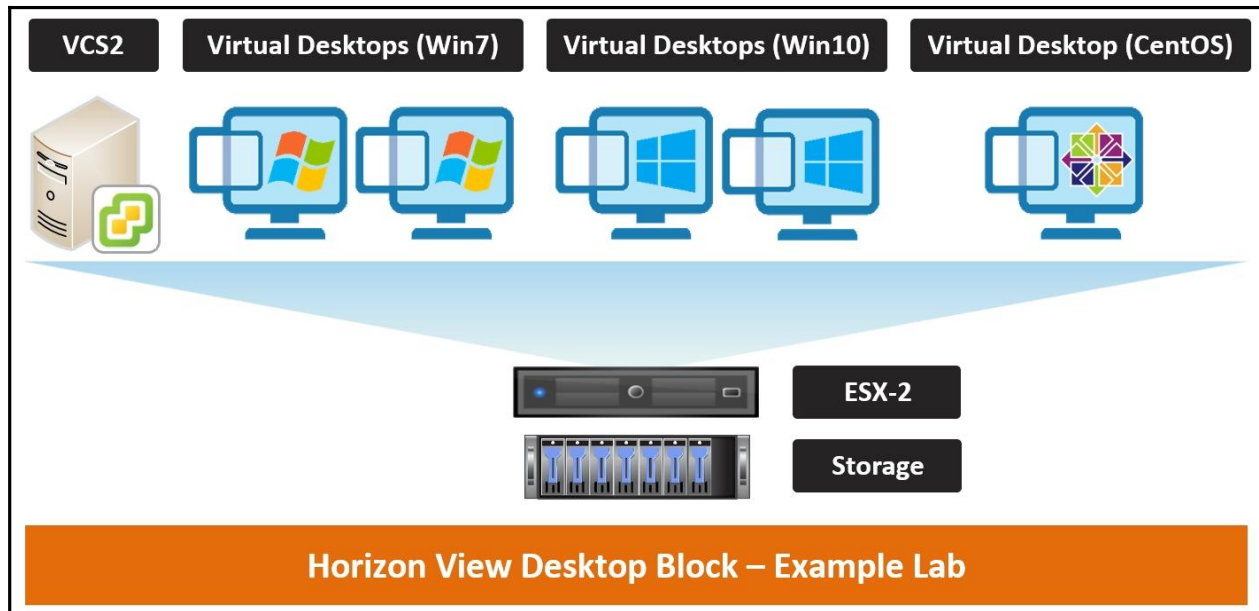
Storage	No. of Users	IOPS Required	Capacity
Pod #1	5,000	412,500	55 TB
Pod #2	250	18,750	2.5 TB

Component	Pod #1	Pod #2
Connection Servers	6 (2 per block)	6 (2 per block)
Security Servers	2 (external access)	0 (no external access)
View Composer Servers	3 (1 per block)	1 (1 per block)
vCenter Servers	3 (1 per block)	1 (1 per block)

User Type	Pod Number	No. Desktops	Bandwidth per Desktop	Total Bandwidth
Office Workers & Sales	Pod #1	5,250	150 Kbps	787.5 Mbps
GPU Based Users	Pod #1	250	500 Kbps	125 Mbps
App Developers	Pod #2	250	500 Kbps	125 Mbps

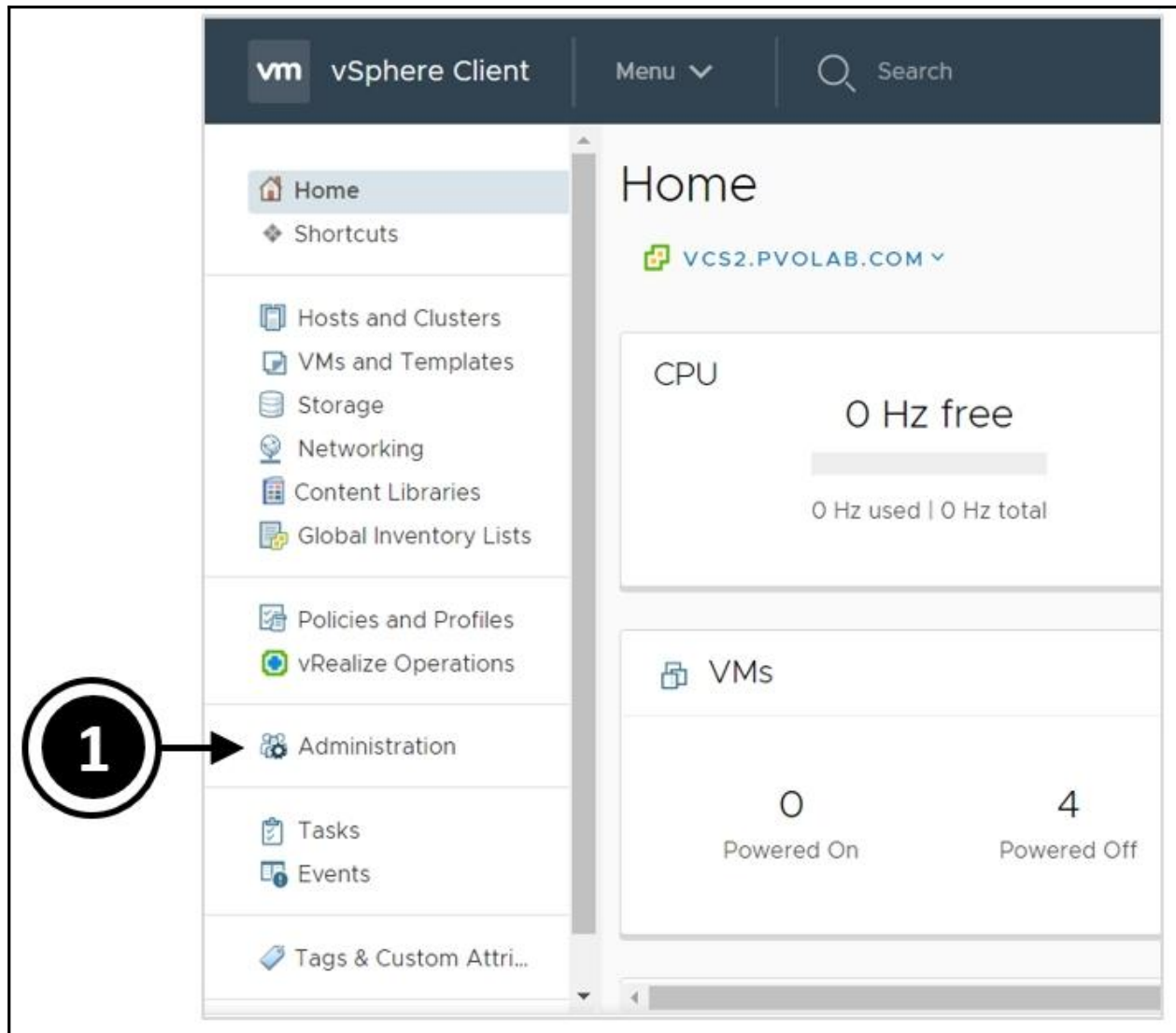
# Chapter 4: Installing and Configuring Horizon 7 - Part 1

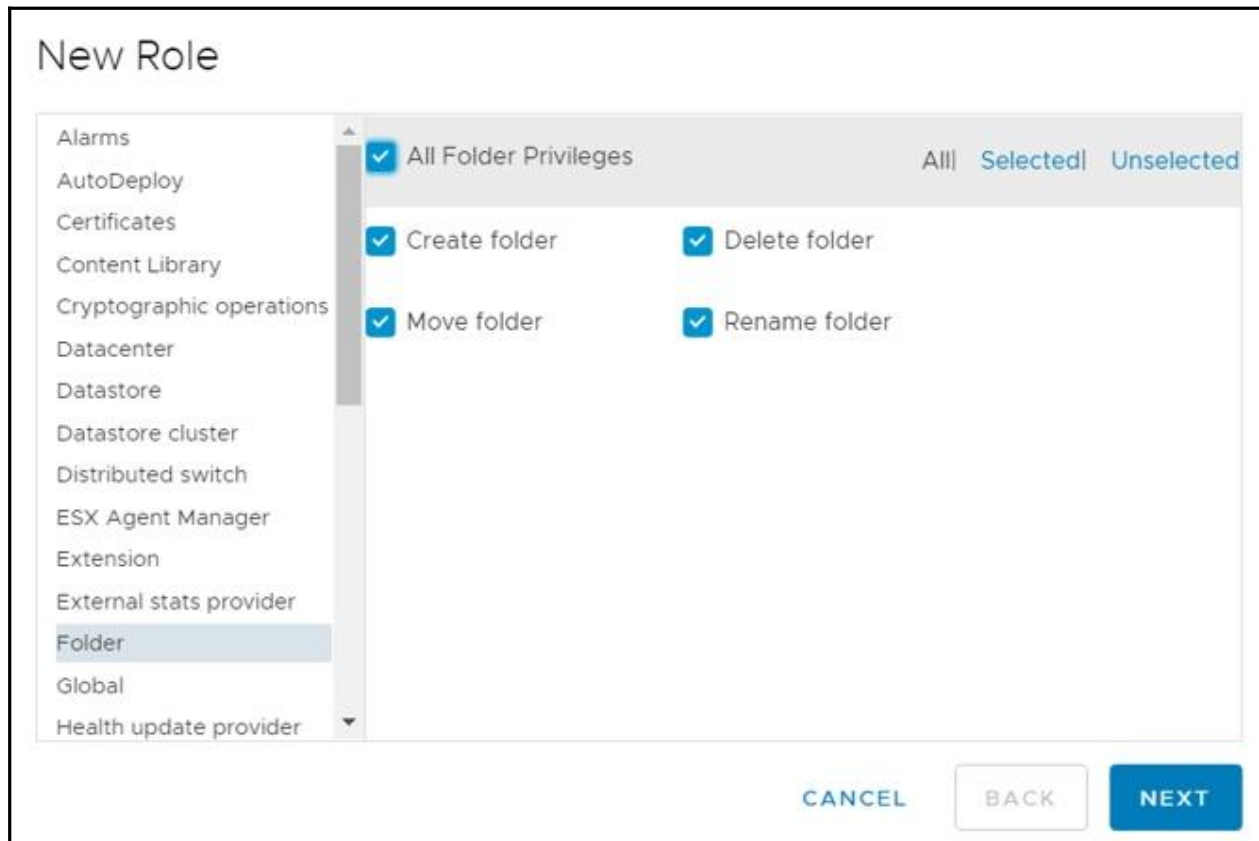
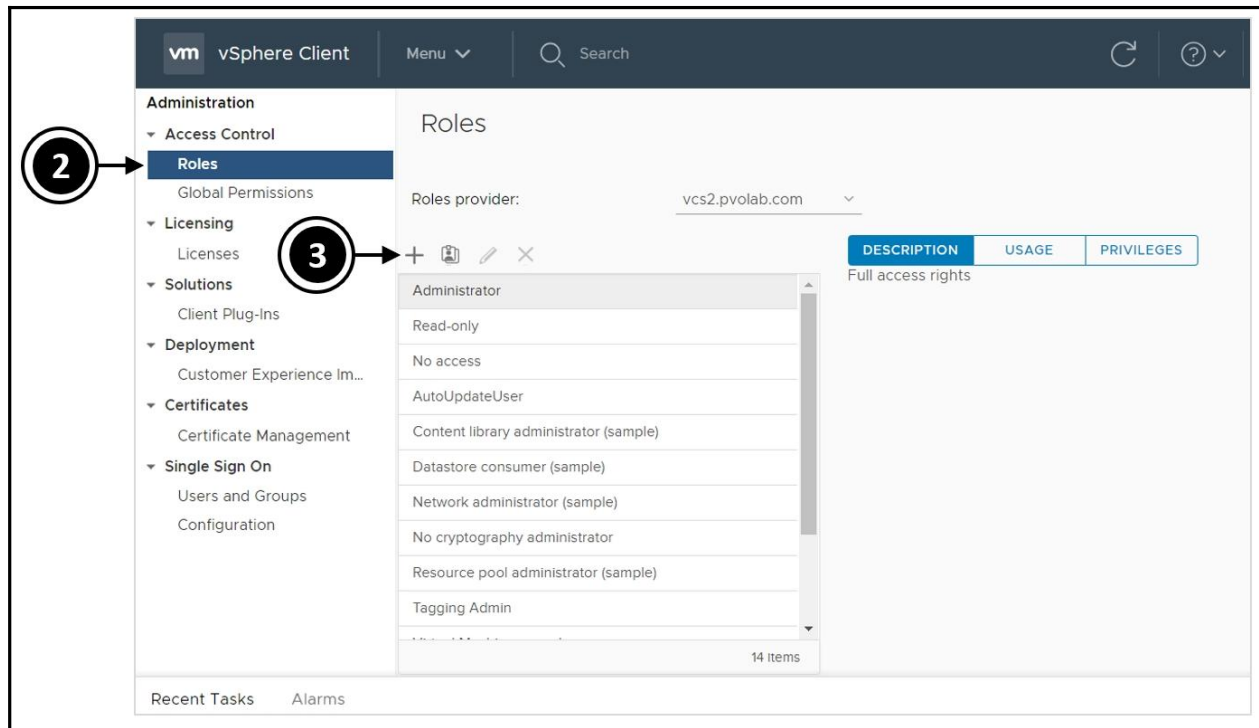




Required Group	Privilege Required (1)	Privilege Required (2)	
Folder	Create Folder		
	Delete Folder		
Datastore	Allocate Space		
	Browse Datastore		
	Low Level File Operation		
Virtual Machine	Configuration	All	
	Inventory	All	
	Snapshot Management	All	
	Interaction		Power Off
			Power On
			Reset
			Suspend
	Provisioning		Customize
			Deploy Template
			Read Customization Specifications
		Clone Virtual Machine	
		Allow Disk Access	
Resource	Assign Virtual Machine to Resource Pool		
	Migrate Powered off Virtual Machine		
Global	Act as vCenter Server		
	Enable Methods		
	Disable Methods		
	System Tag		
Host	Configuration	Advanced Settings	
Network	All		







## New Role

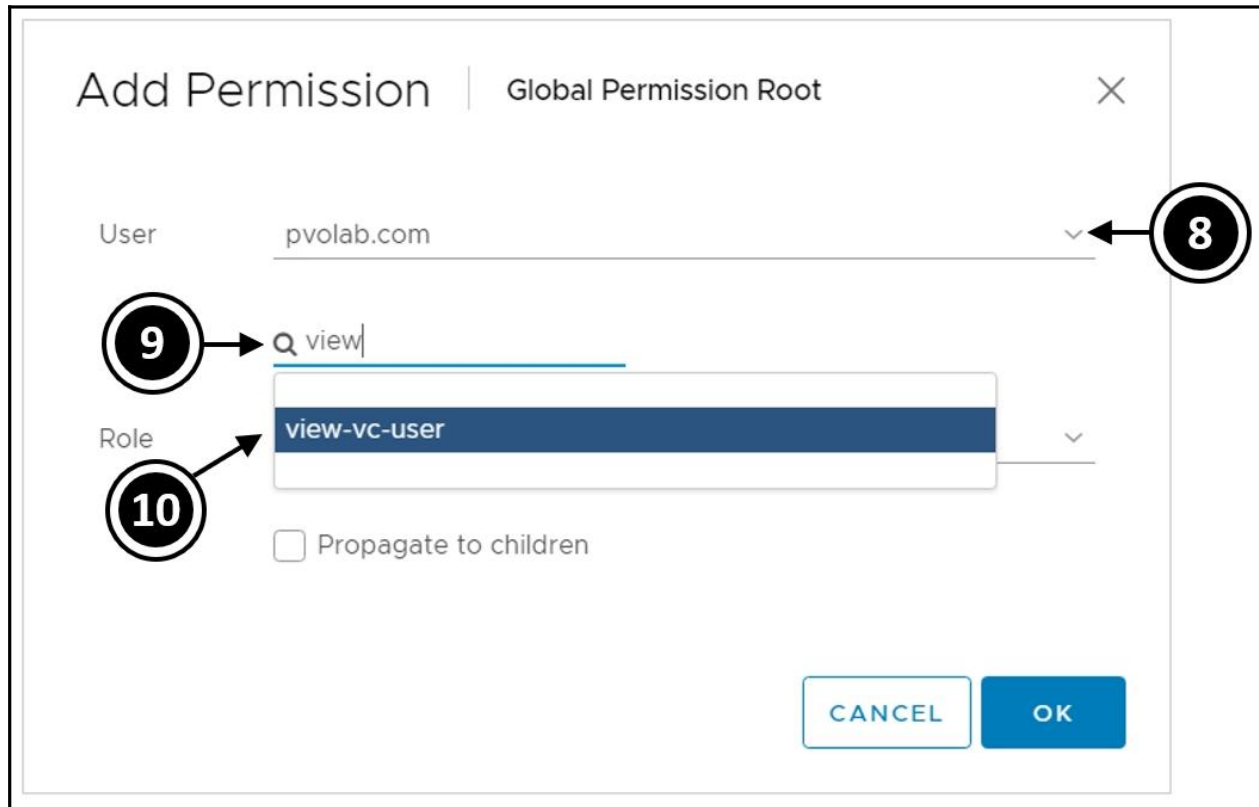
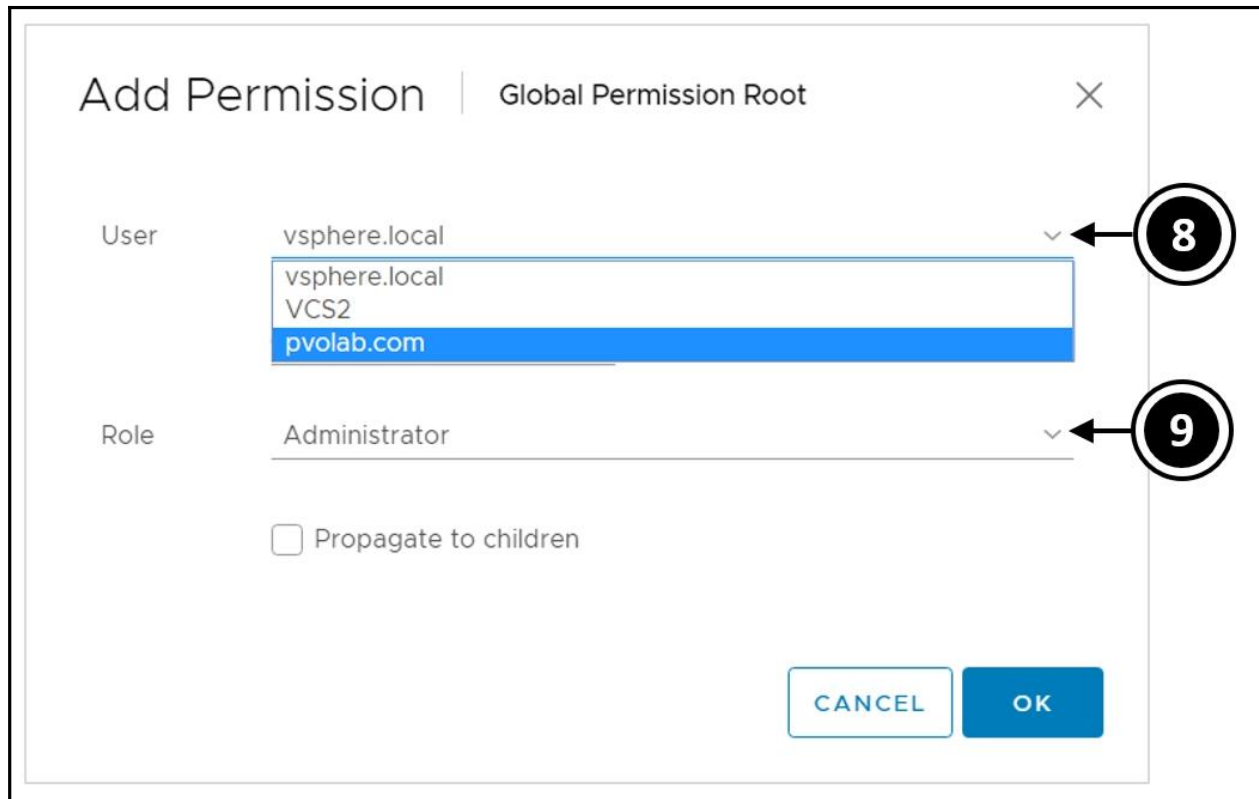
Role name **4** → View VC User

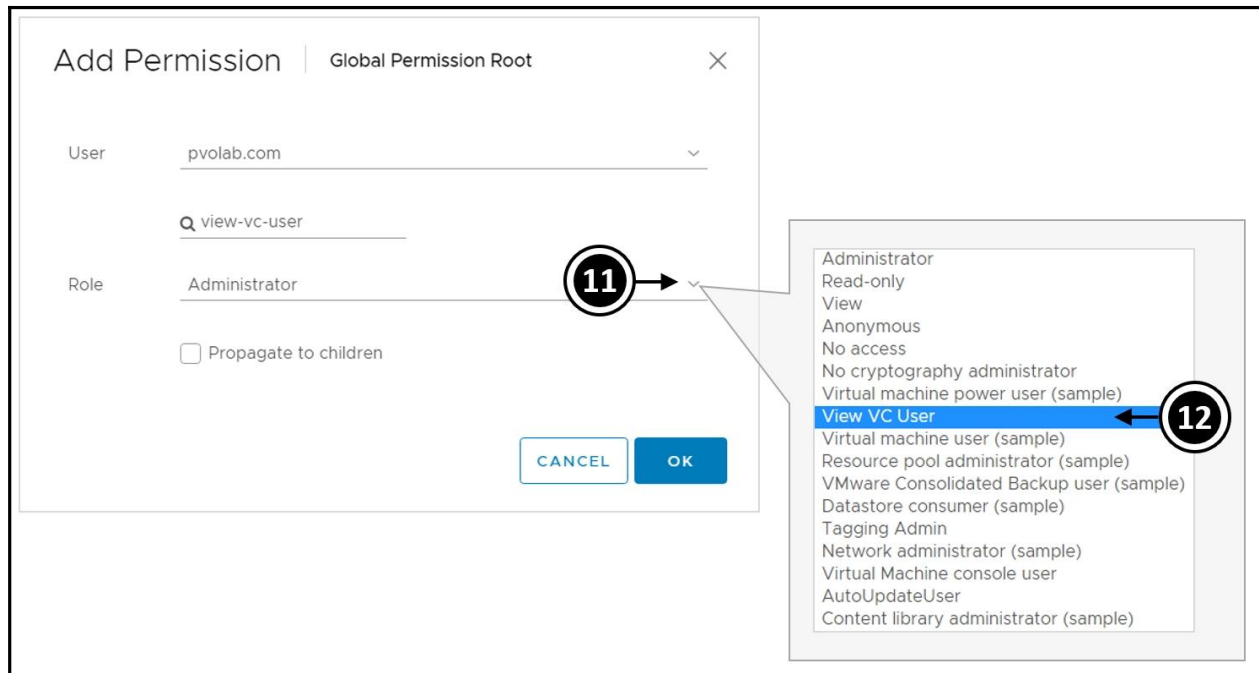
Description **5** → vCenter users account for Horizon View admin

CANCEL BACK FINISH

The screenshot shows the vSphere Client interface. On the left, the navigation pane has 'Global Permissions' selected, indicated by callout **6**. The main area shows the 'Global Permissions' table, with the top of the table highlighted by callout **7**.

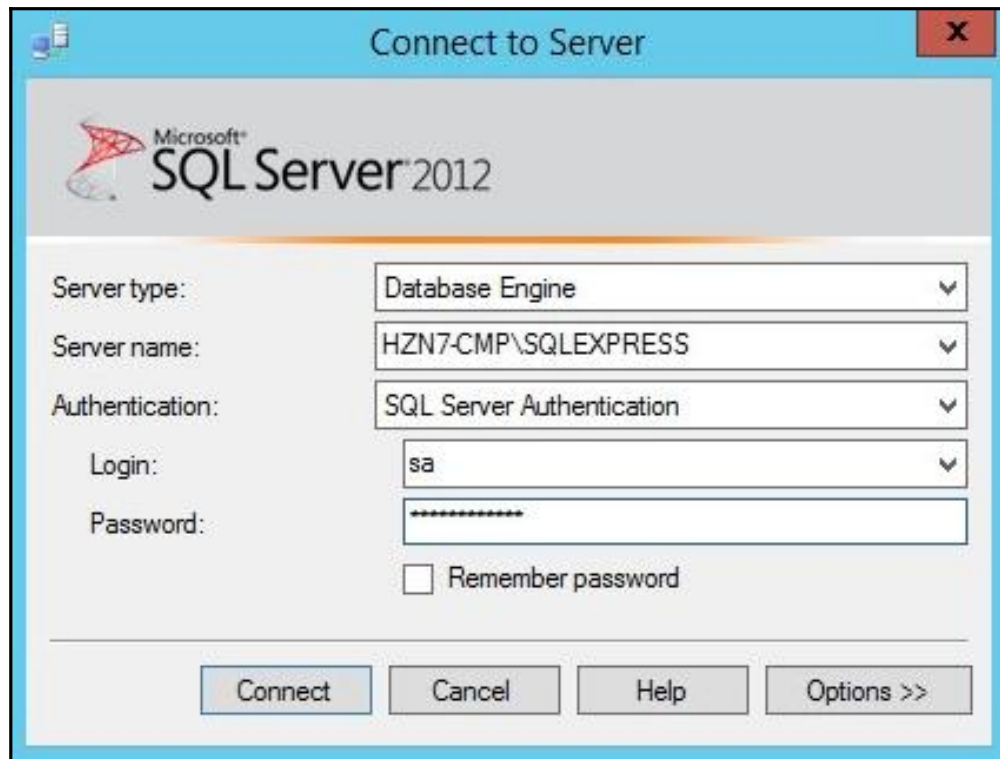
User/Group ↑	Role	Defined In
VSPHERE.LOCAL\Administrator	Administrator	Global Permission
VSPHERE.LOCAL\Administrators	Administrator	Global Permission
VSPHERE.LOCAL\AutoUpdate	AutoUpdateUser	Global Permission
VSPHERE.LOCAL\vpdx-4c36afe0-f873-11e8-a8bc-000c298198da	Administrator	Global Permission
VSPHERE.LOCAL\vpdx-extension-4c36afe0-f873-11e8-a8bc-00...	Administrator	Global Permission
VSPHERE.LOCAL\vsphere-webclient-4c36afe0-f873-11e8-a8bc...	Read-only	Global Permission

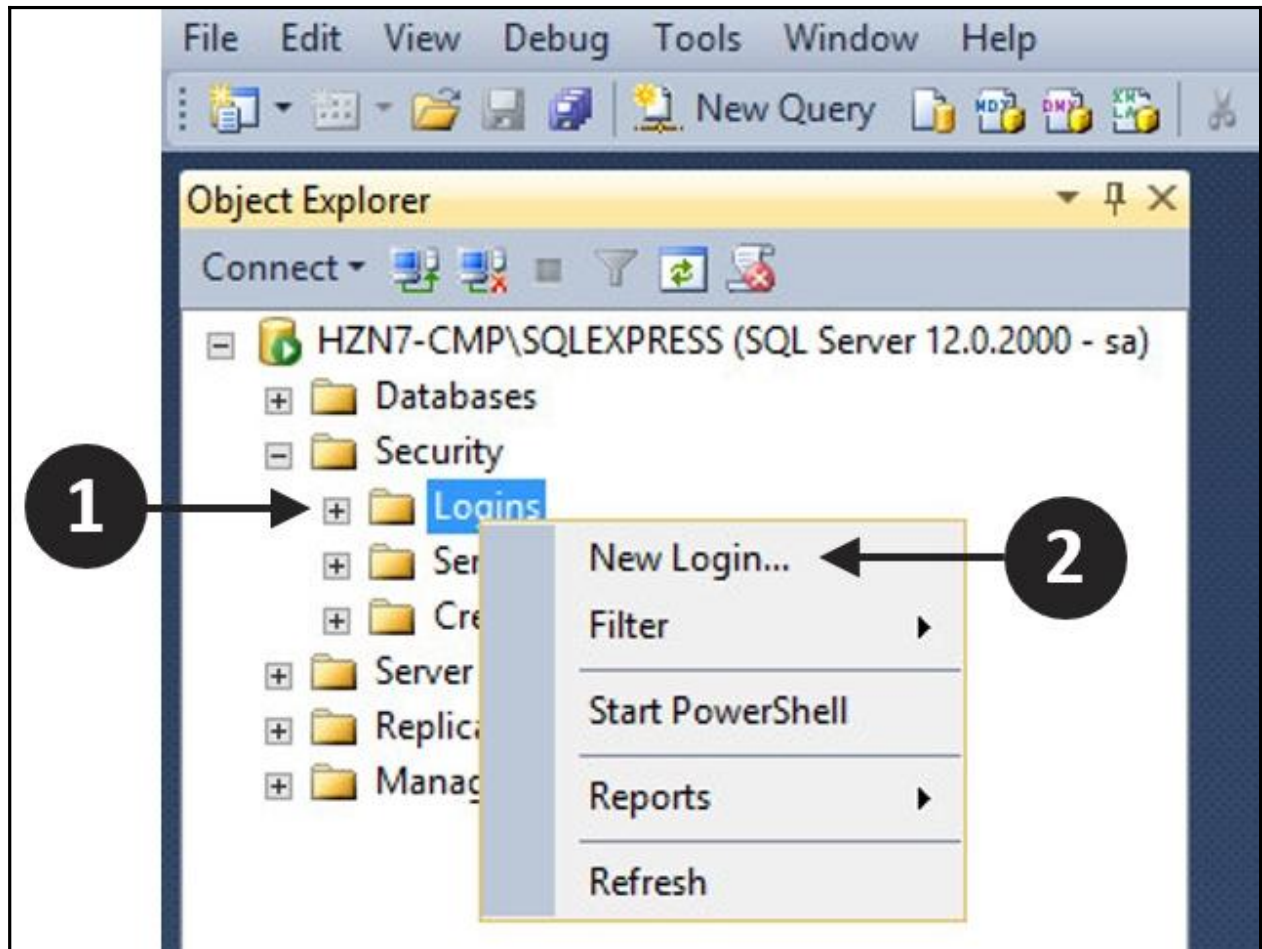


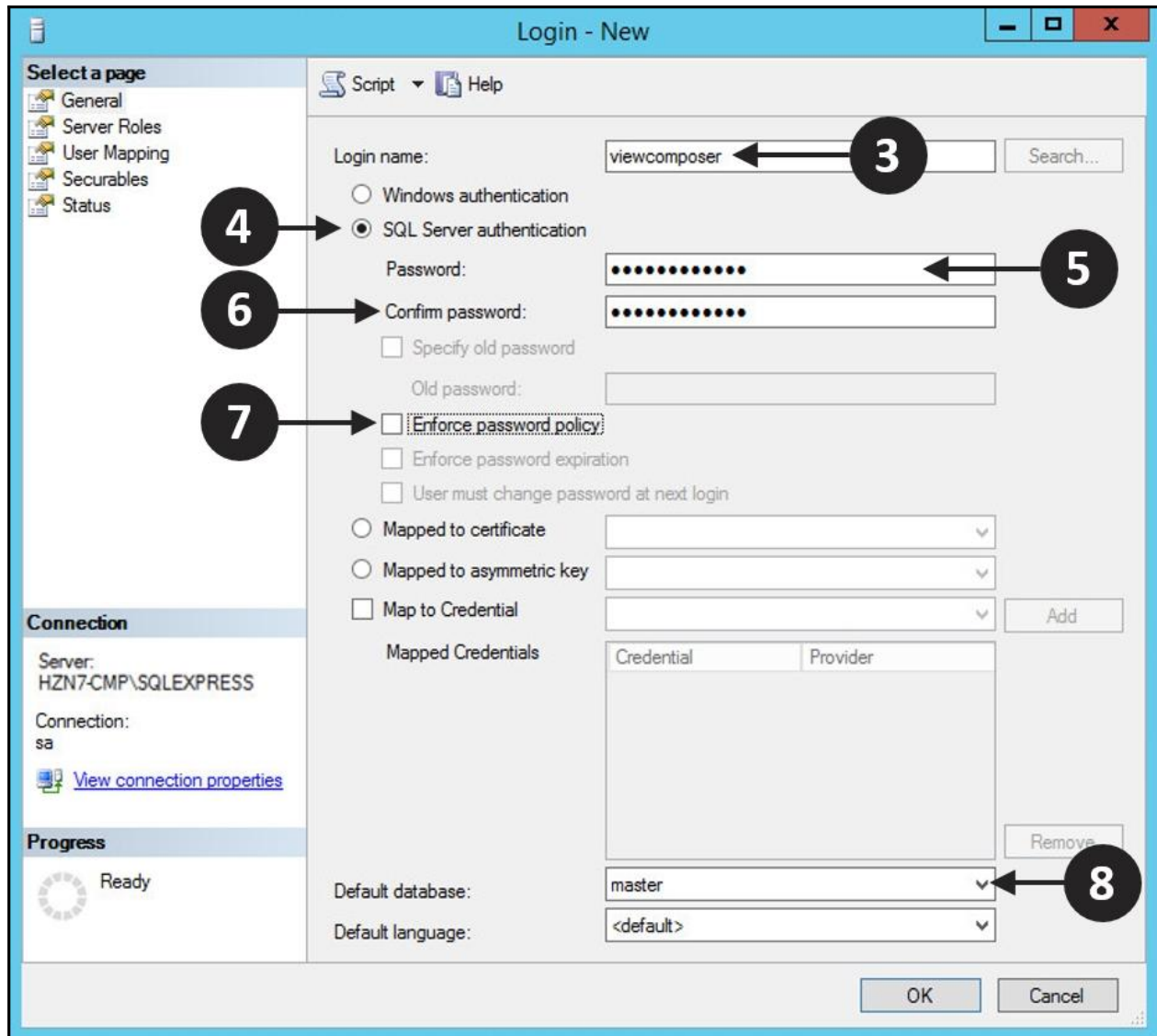


View Component	Internal IP Address	Internal DNS Name	External IP Address	External DNS Name	Network
vCenter Server	✓	✓	✗	✗	Production
View Composer Server	✓	✓	✗	✗	Production
SQL Server	✓	✓	✗	✗	Production
View Connection Server	✓	✓	✗	✗	Production
Internal Load Balancer	✓	✓	✗	✗	Production
View Connection Server (External)	✓	✓	✗	✗	Production
View Security Server	✓	✓	✗	✗	DMZ
VMware Access Point	✓	✓	✗	✗	DMZ
External Load Balancer	✓	✓	✓	✓	DMZ

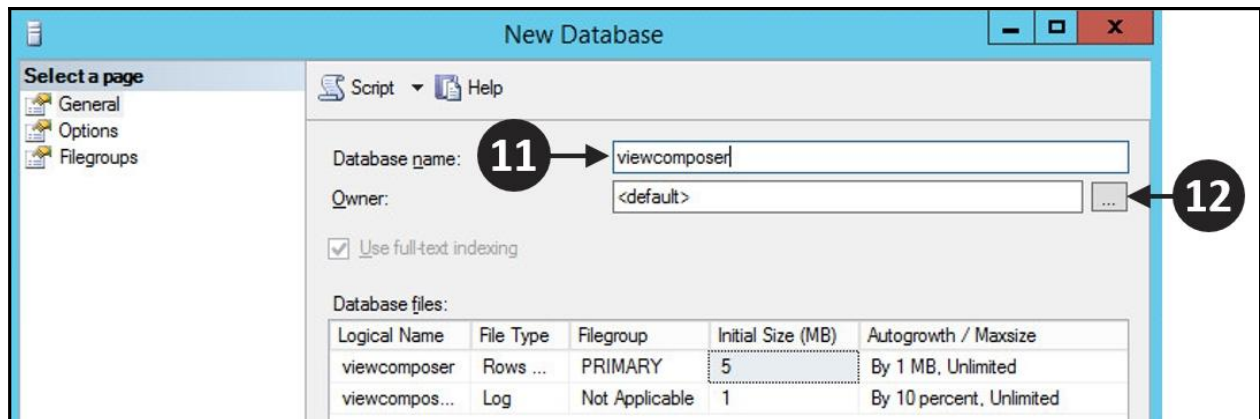
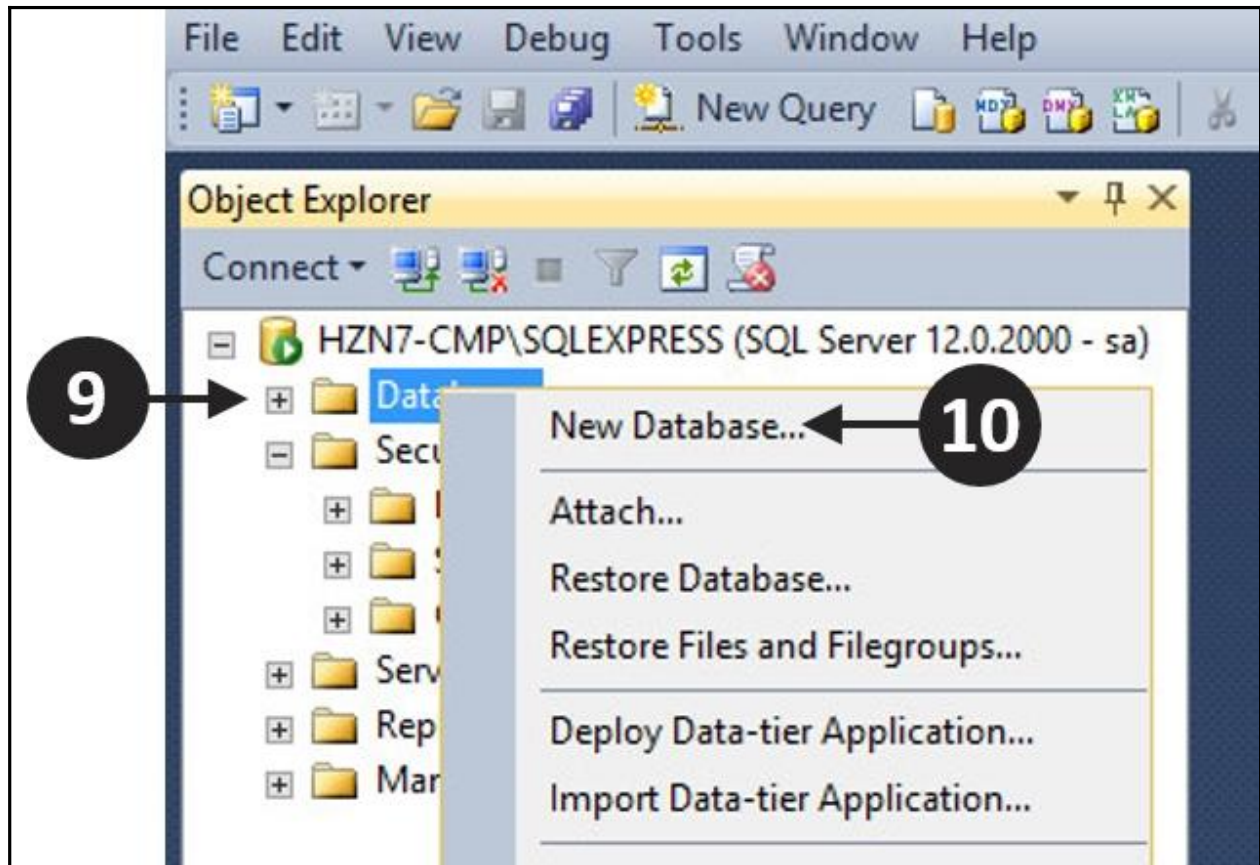
Component	Recommended Supported Configuration
Operating Systems	Windows Server 2008 R2 SP1 64-bit (Std, Ent, DC Editions)
	Windows Server 2012 R2 64-bit (Std & Ent Editions)
	Windows Server 2016 64-bit (Std & Ent Editions)
Processor	2GHz or faster and 4 CPUs
Networking	1Gbps NICs
Memory	8GB RAM or higher for deployments of 50 or more
Disk Space	60 GB
Database Options	Microsoft SQL Server 2014 32-bit & 64-bit, no SP & SP1, Std & Ent
	Microsoft SQL Server 2012 32-bit & 64-bit, SP2, Express, Std & Ent
	Microsoft SQL Server 2008 R2 32-bit & 64-bit, SP2 & SP3, Express, Std, Ent & DC
	Oracle 12c Release 1 (up to 12.1.0.2) Standard One, Std & Ent

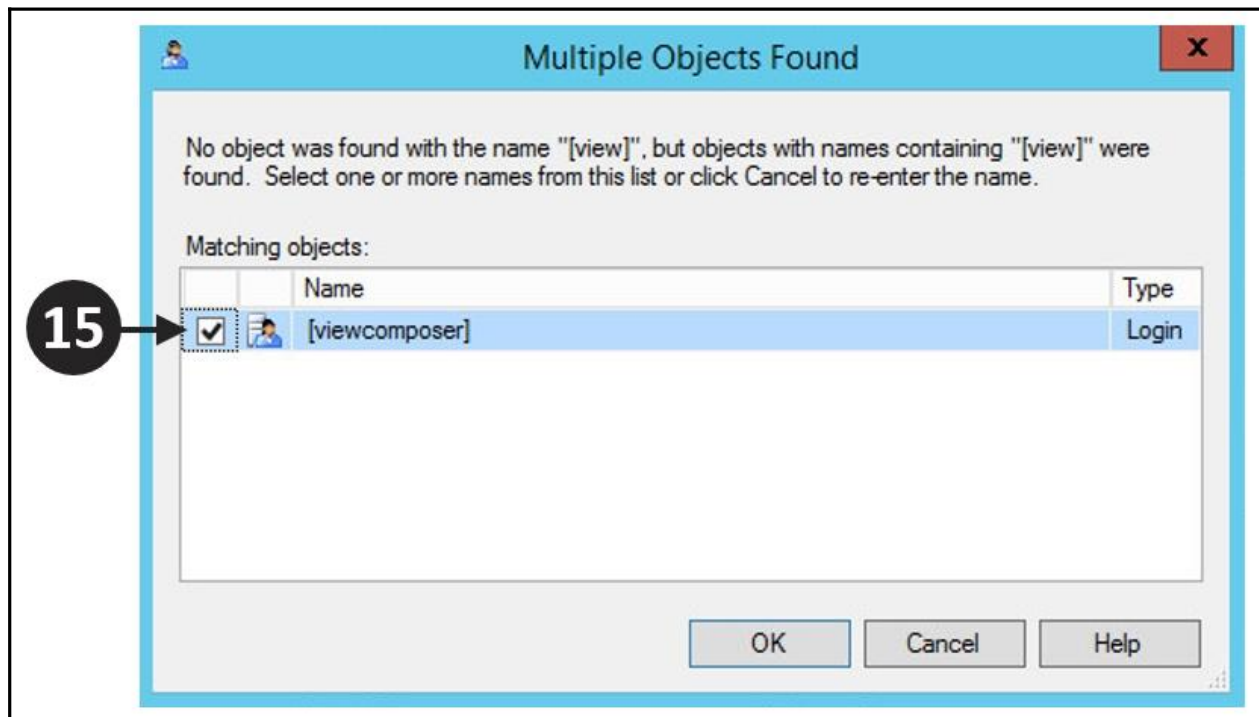
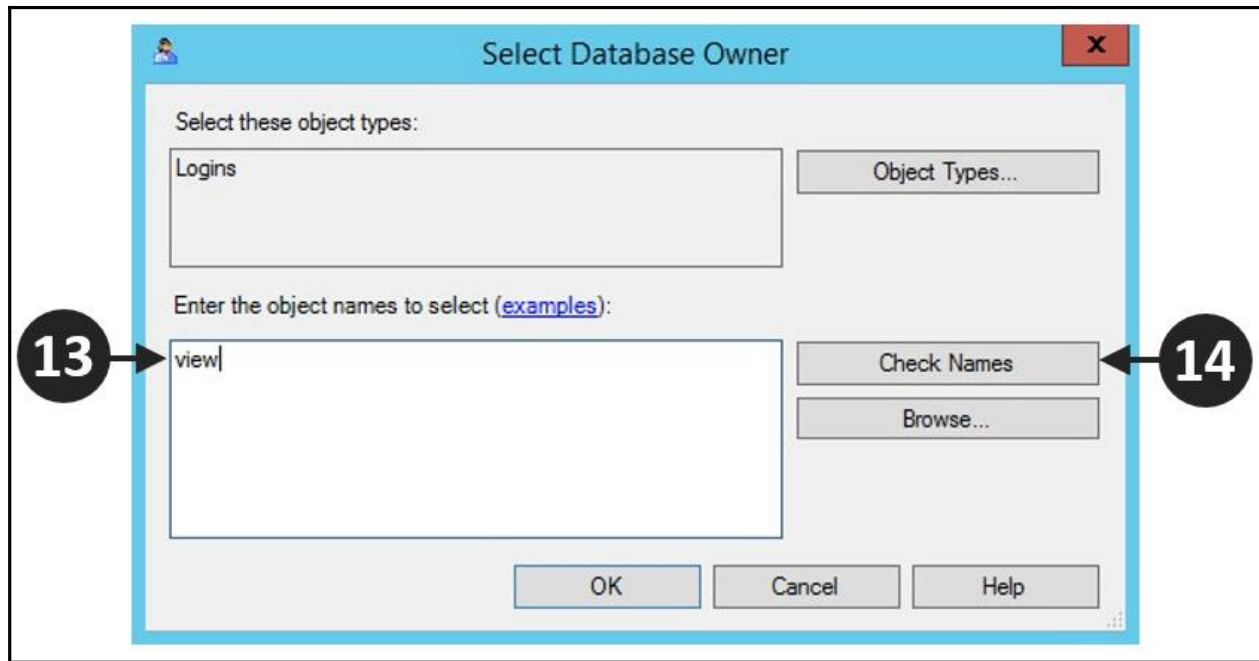


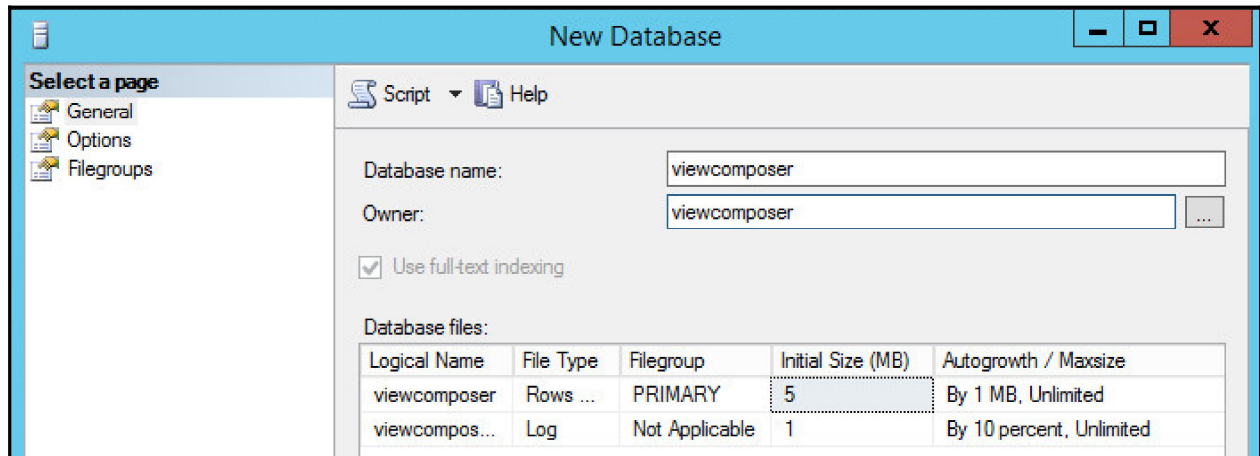
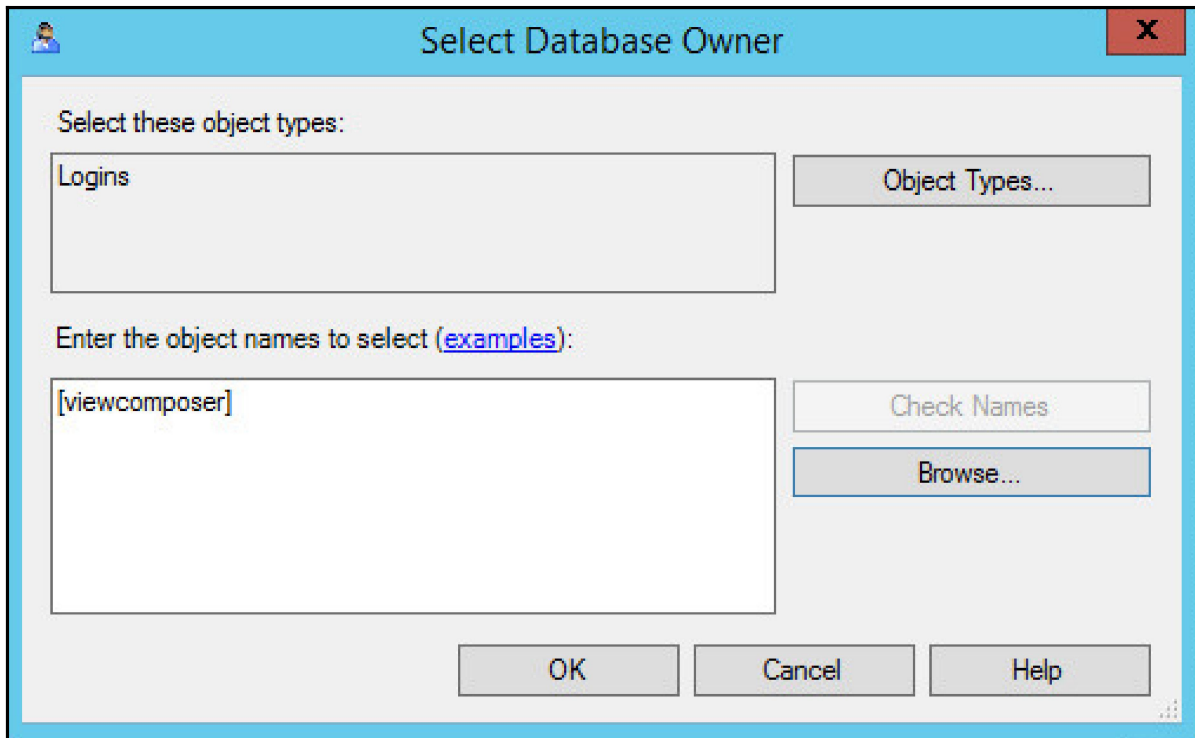


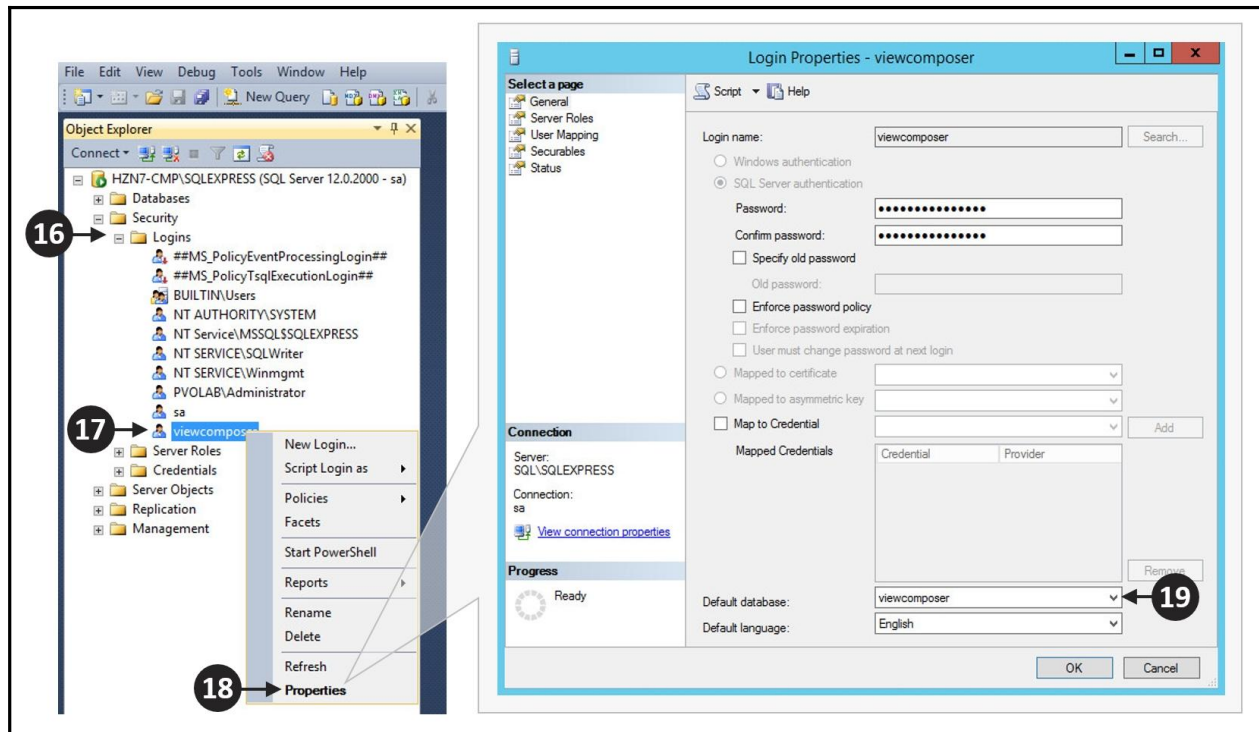












Name	Date modified	Type	Size
VMware OS Optimization Tool	07/12/2018 08:39	File folder	
VMware-Horizon-Agent-x86_64-7.6.0-9539447	02/11/2018 13:23	Application	225,043 KB
VMware-Horizon-Connection-Server-x86_64-7.6.0-9823717	02/11/2018 13:26	Application	267,730 KB
VMware-Horizon-Extras-Bundle-4.9.0-9539668	04/12/2018 13:21	Compressed (zipp...	5,347 KB
VMware-Horizon-Persona-Management-x86_64-7.6.0-9539447	02/11/2018 13:25	Application	39,685 KB
VMware-Jmp-Installer-7.6.0-9823717	02/11/2018 13:28	Application	115,462 KB
VMware-viewcomposer-7.6.0-9491669	02/11/2018 13:27	Application	47,011 KB

Open File - Security Warning



**We can't verify who created this file. Are you sure you want to run this file?**



Name: ...izon-Connection-Server-x86\_64-7.6.0-9823717.exe

Type: Application

From: \\dc\Software Folder\Horizon 7.6\VMware-Horizo...

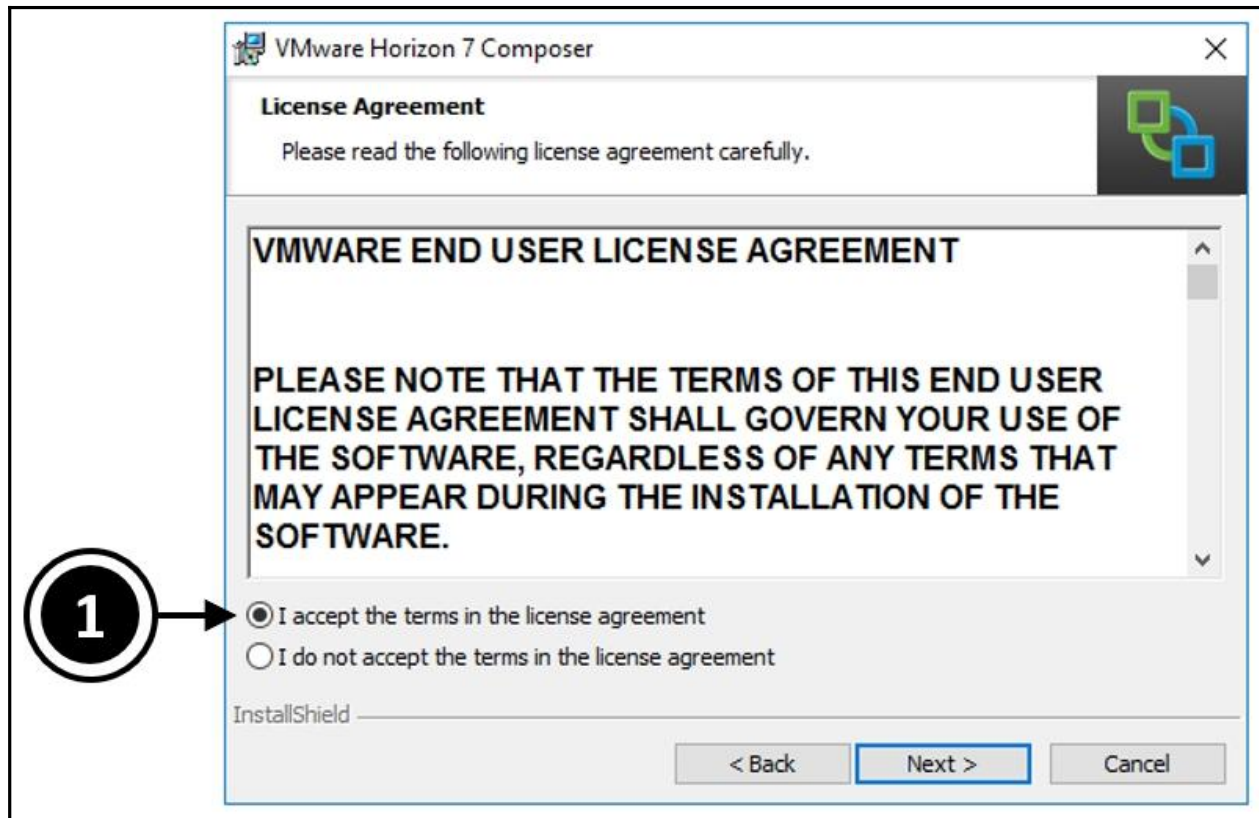
Run

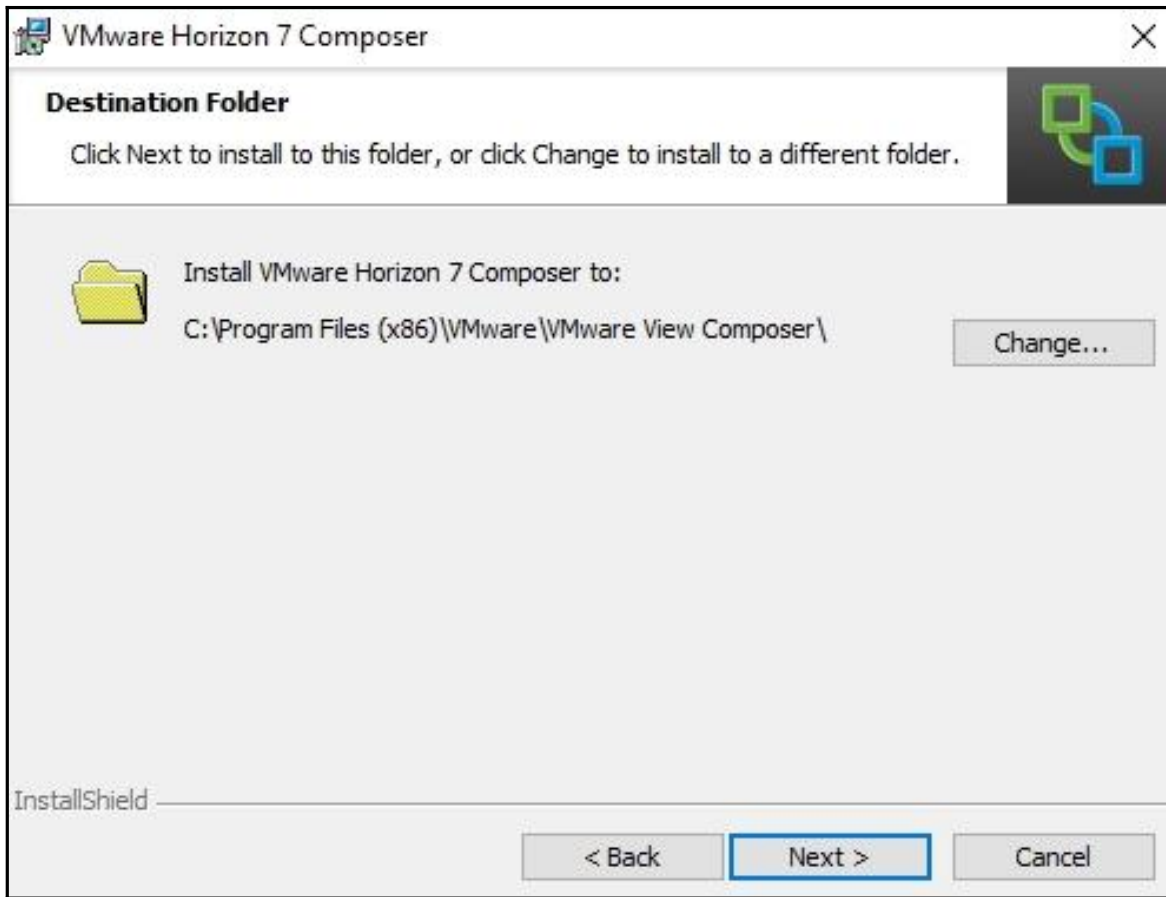
Cancel



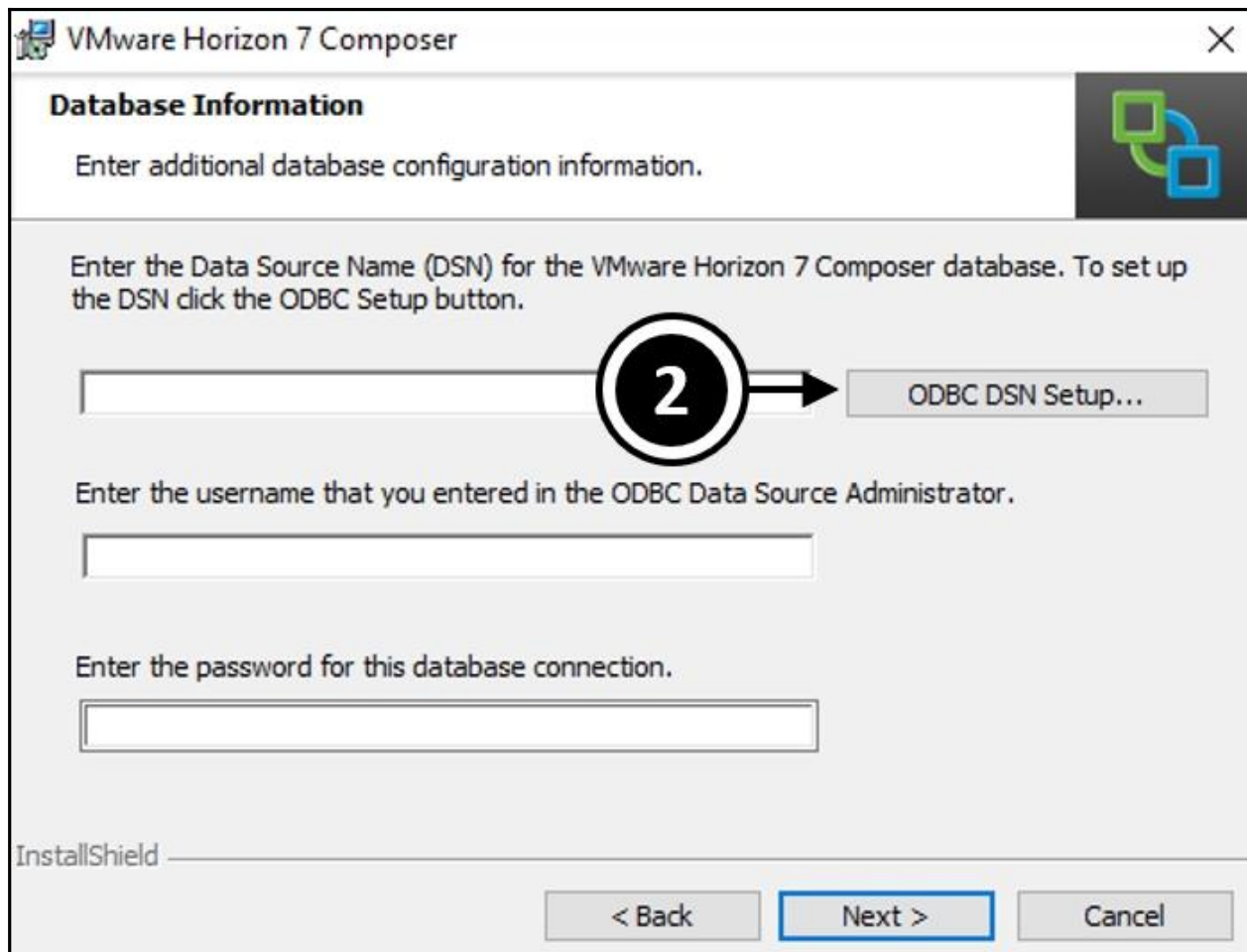
This file is in a location outside your local network. Files from locations you don't recognize can harm your PC. Only run this file if you trust the location. [What's the risk?](#)

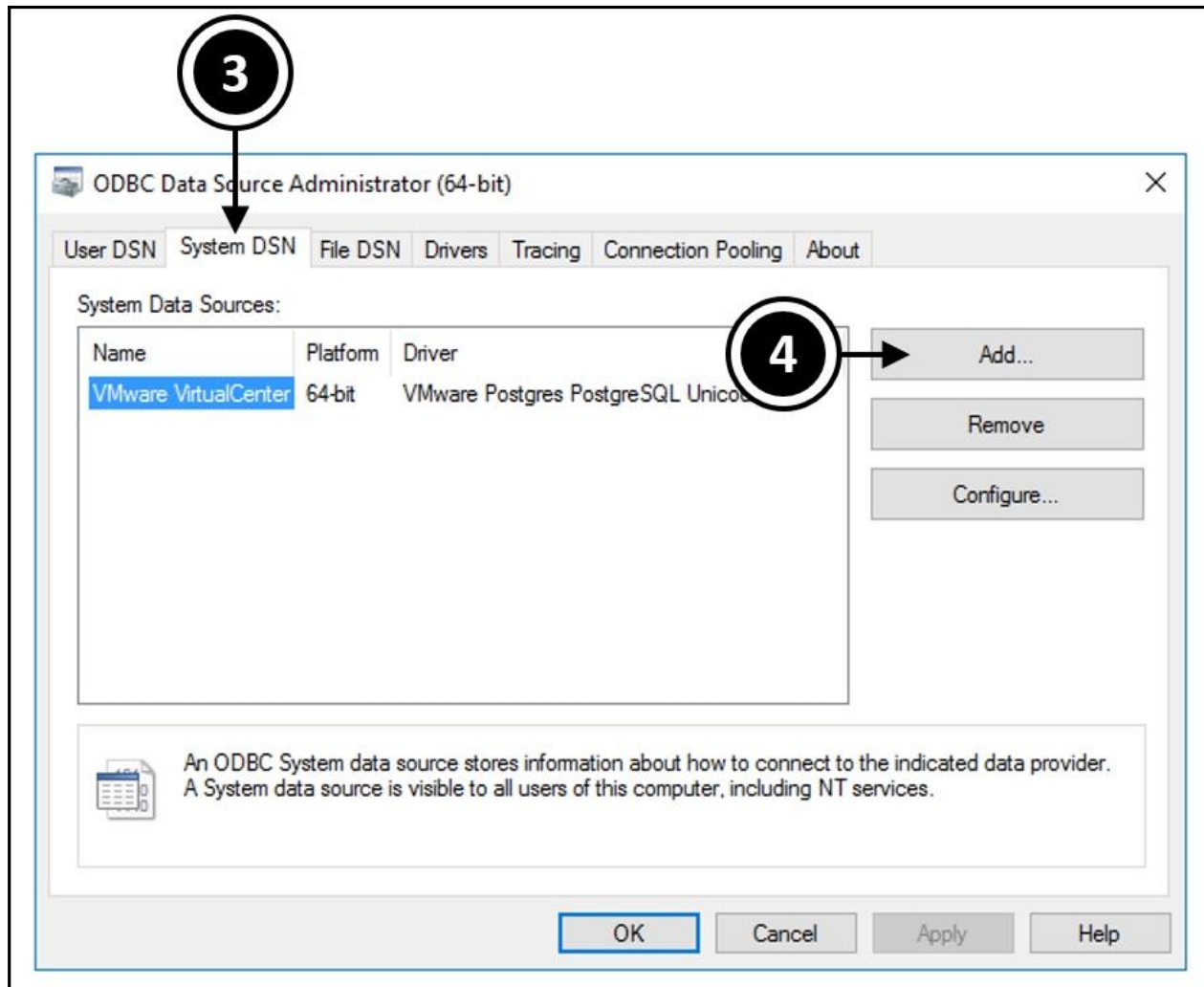


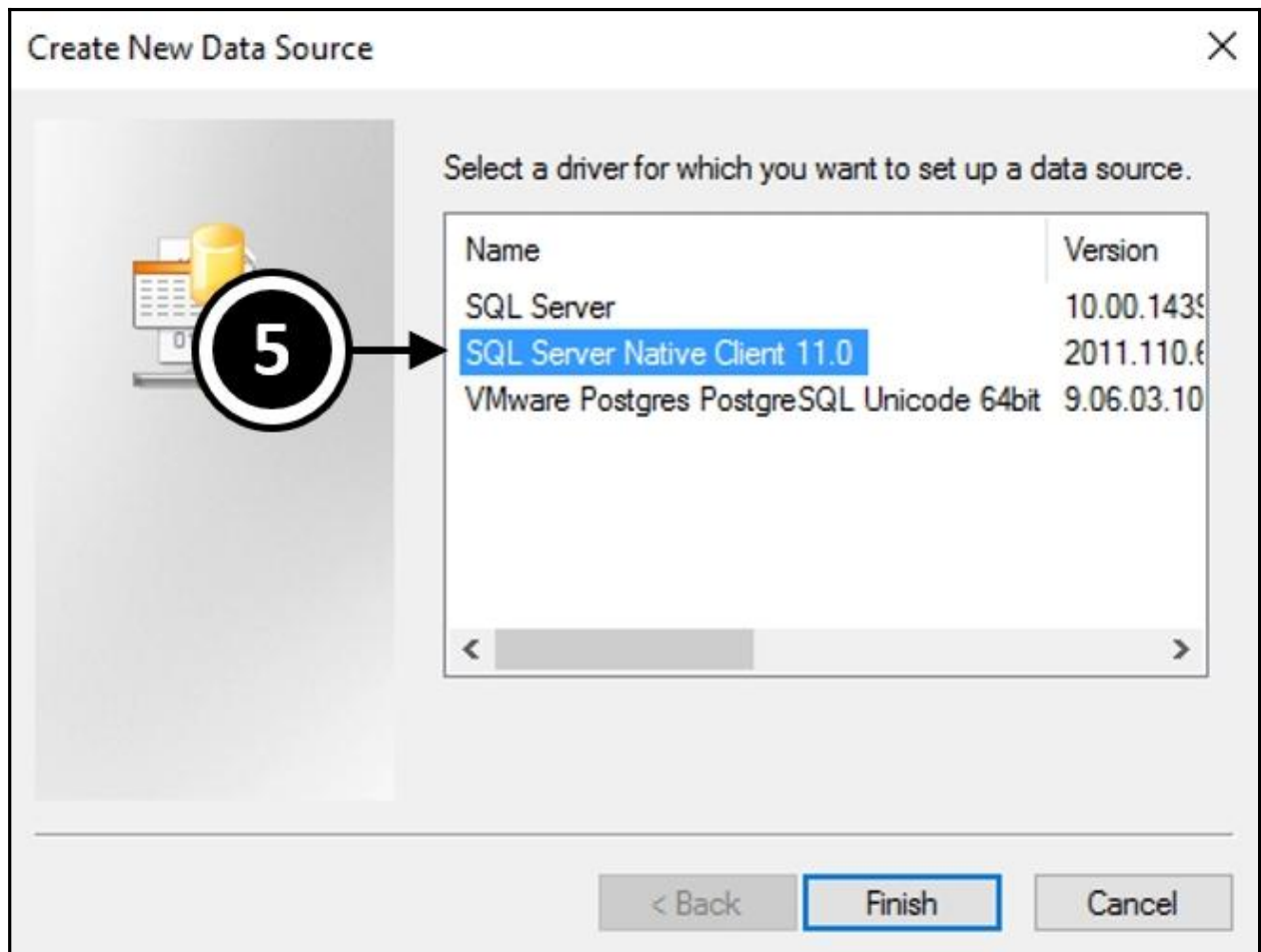


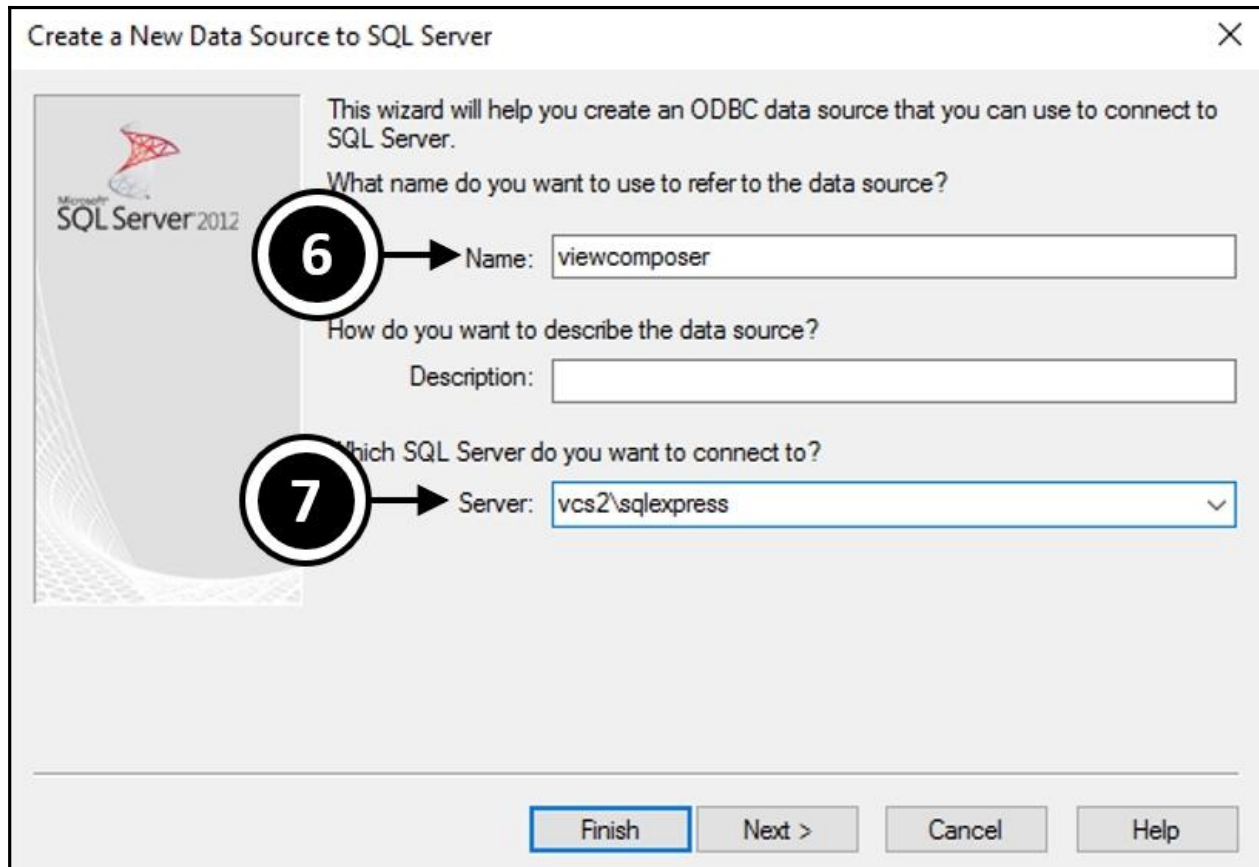


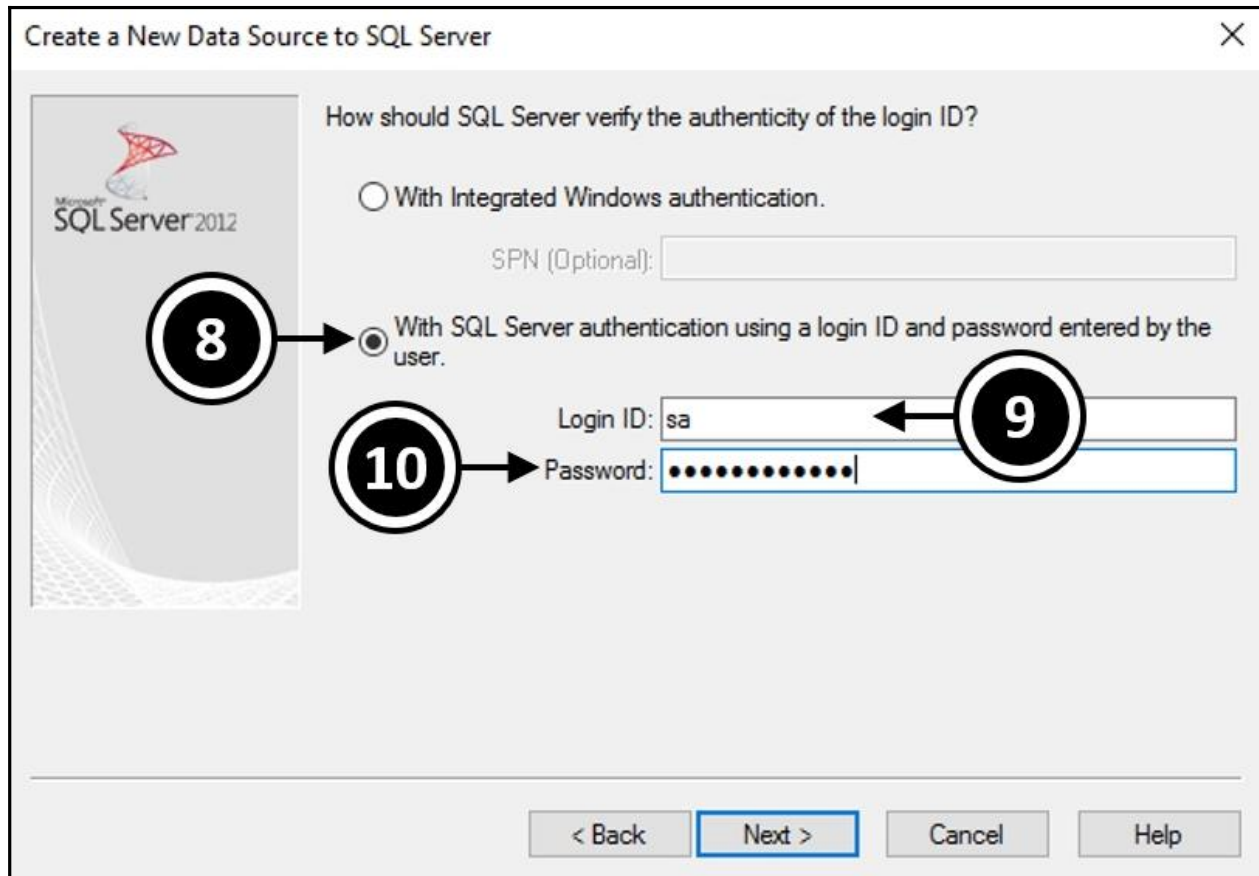


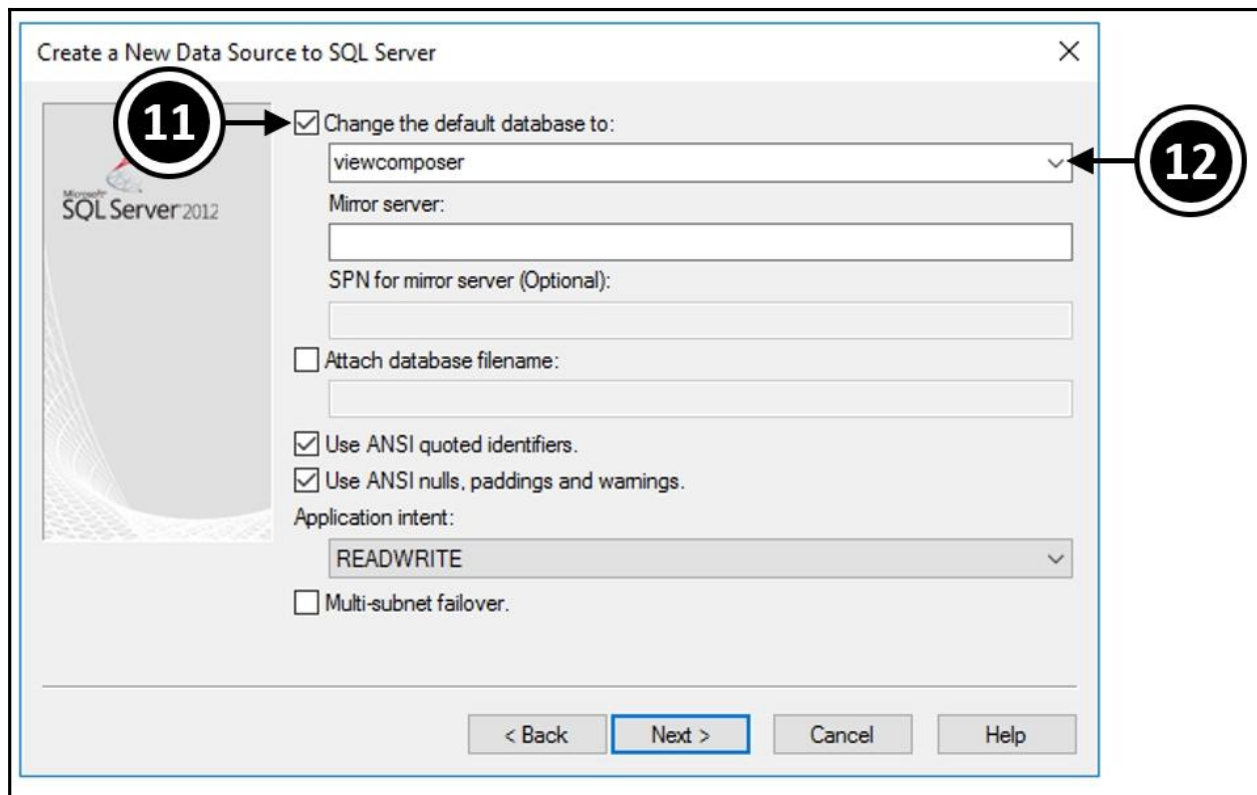













Create a New Data Source to SQL Server ×



Change the language of SQL Server system messages to:  
(Default)

Use strong encryption for data

Perform translation for character data

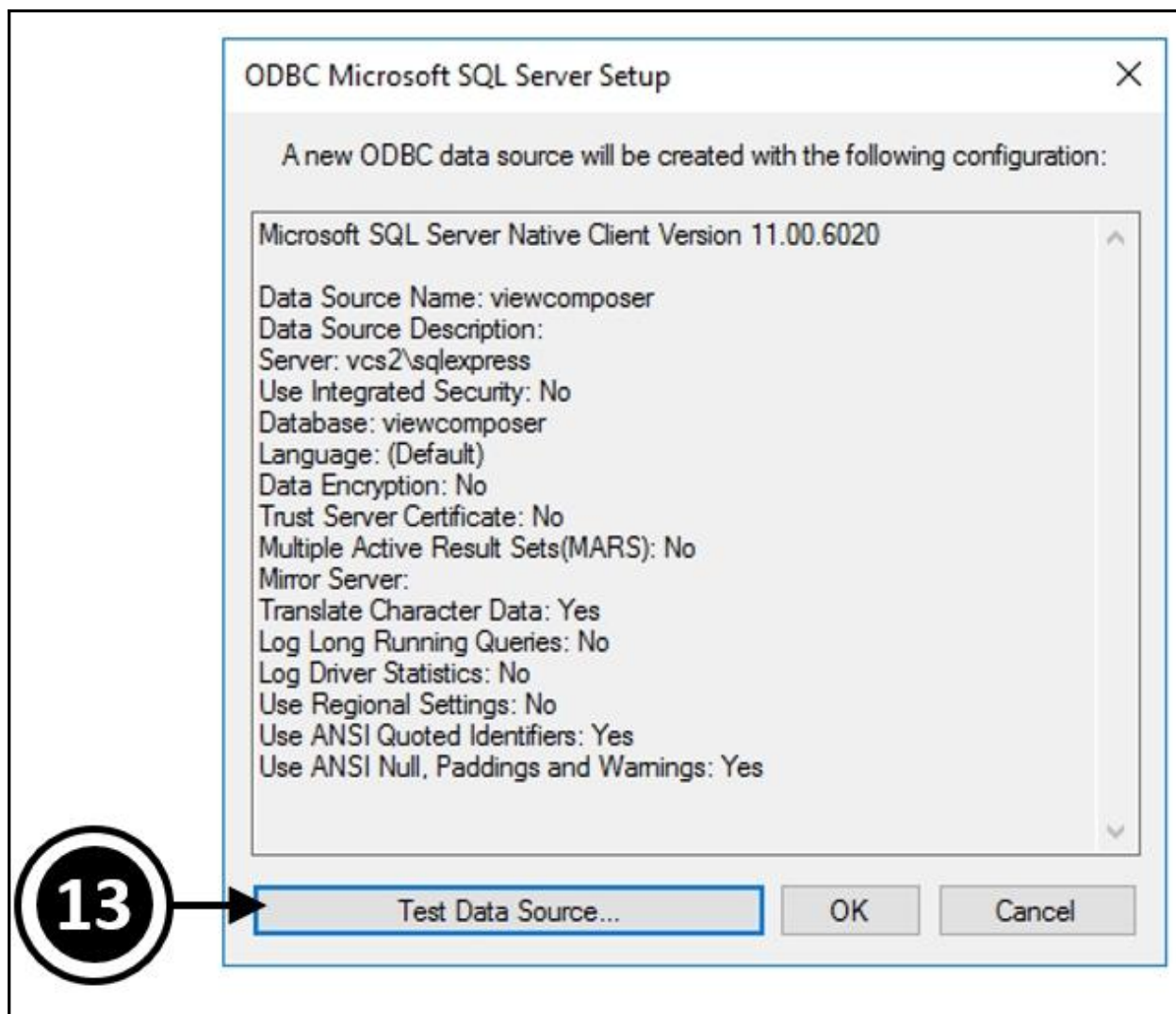
Use regional settings when outputting currency, numbers, dates and times.

Save long running queries to the log file:  
C:\Users\ADMINI~1\AppData\Local\Temp\QUERY Browse...

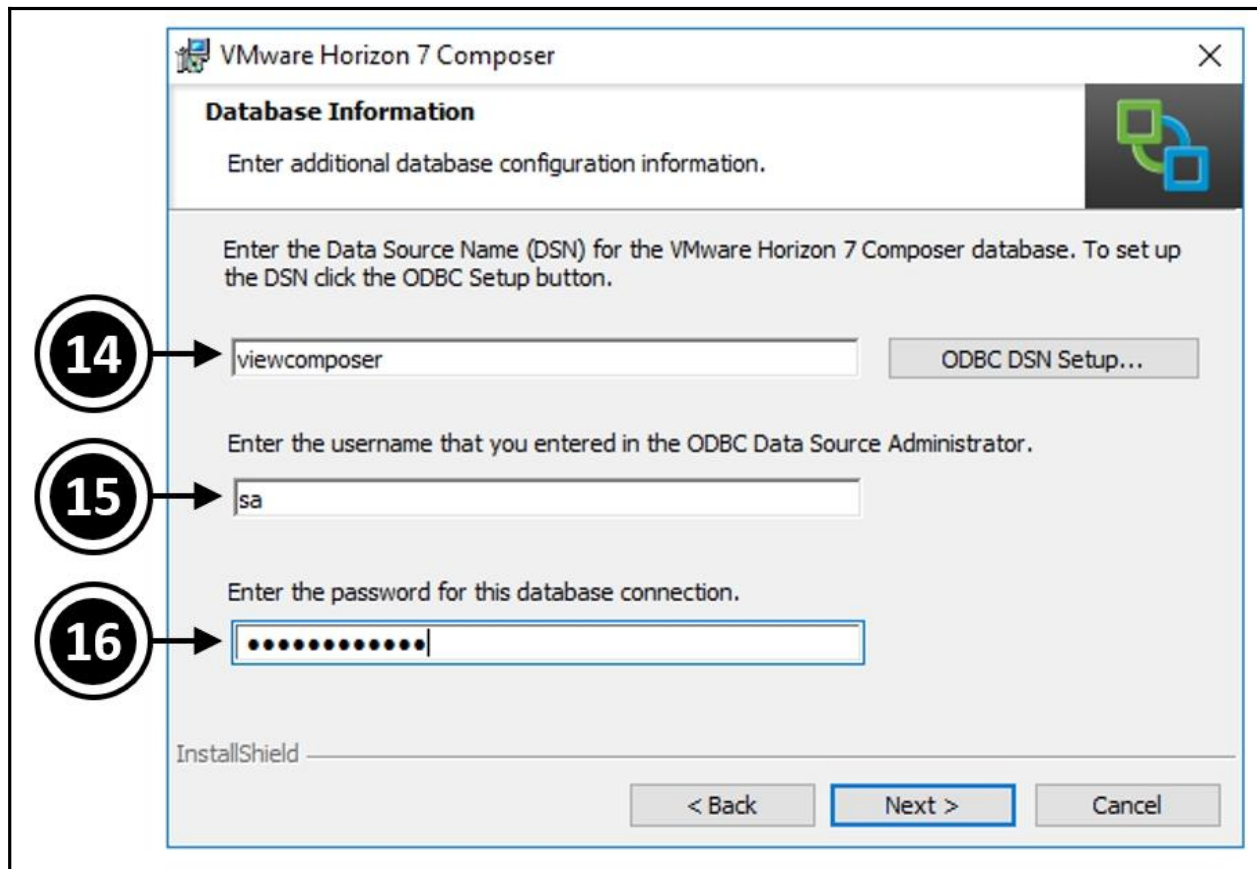
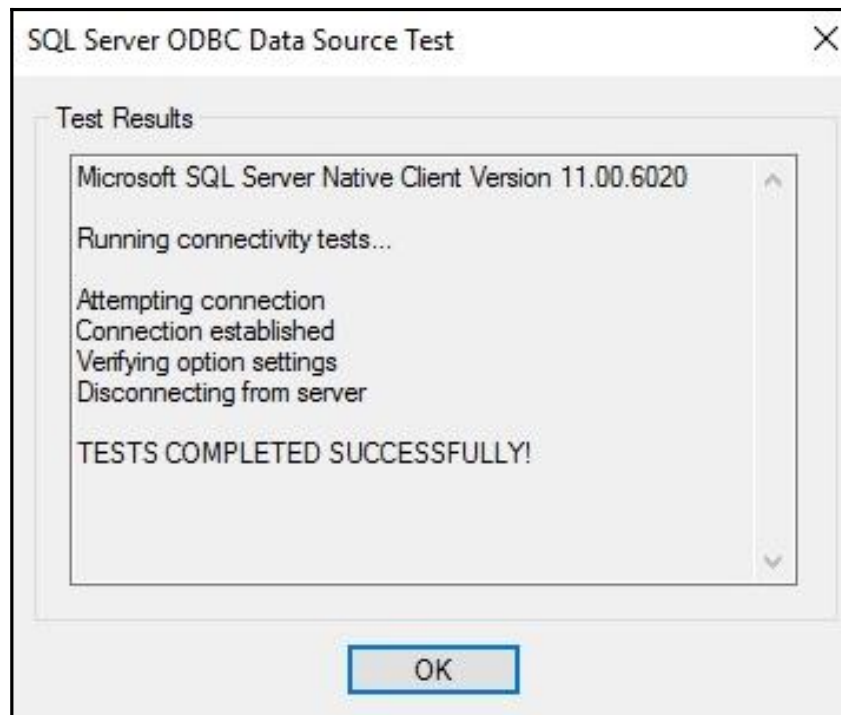
Long query time (milliseconds): 30000

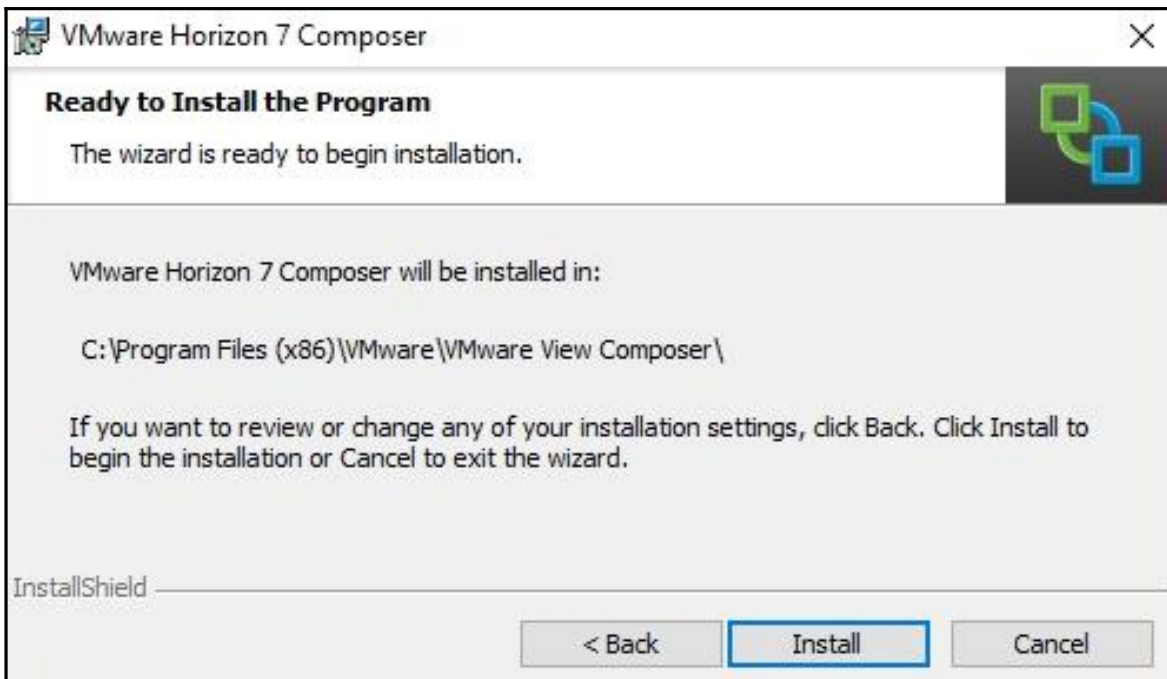
Log ODBC driver statistics to the log file:  
C:\Users\ADMINI~1\AppData\Local\Temp\STATS Browse...

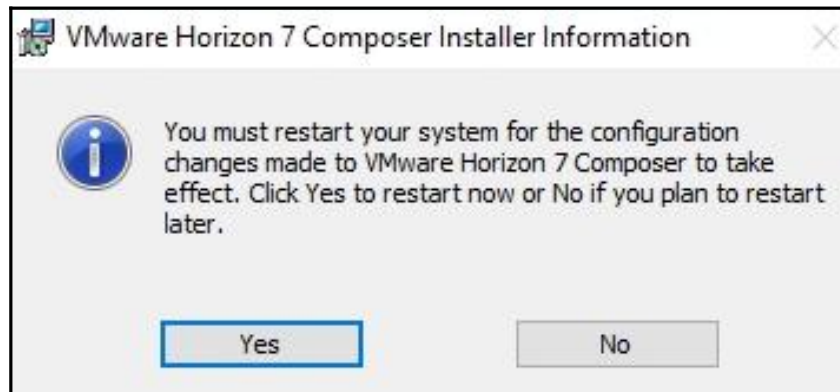
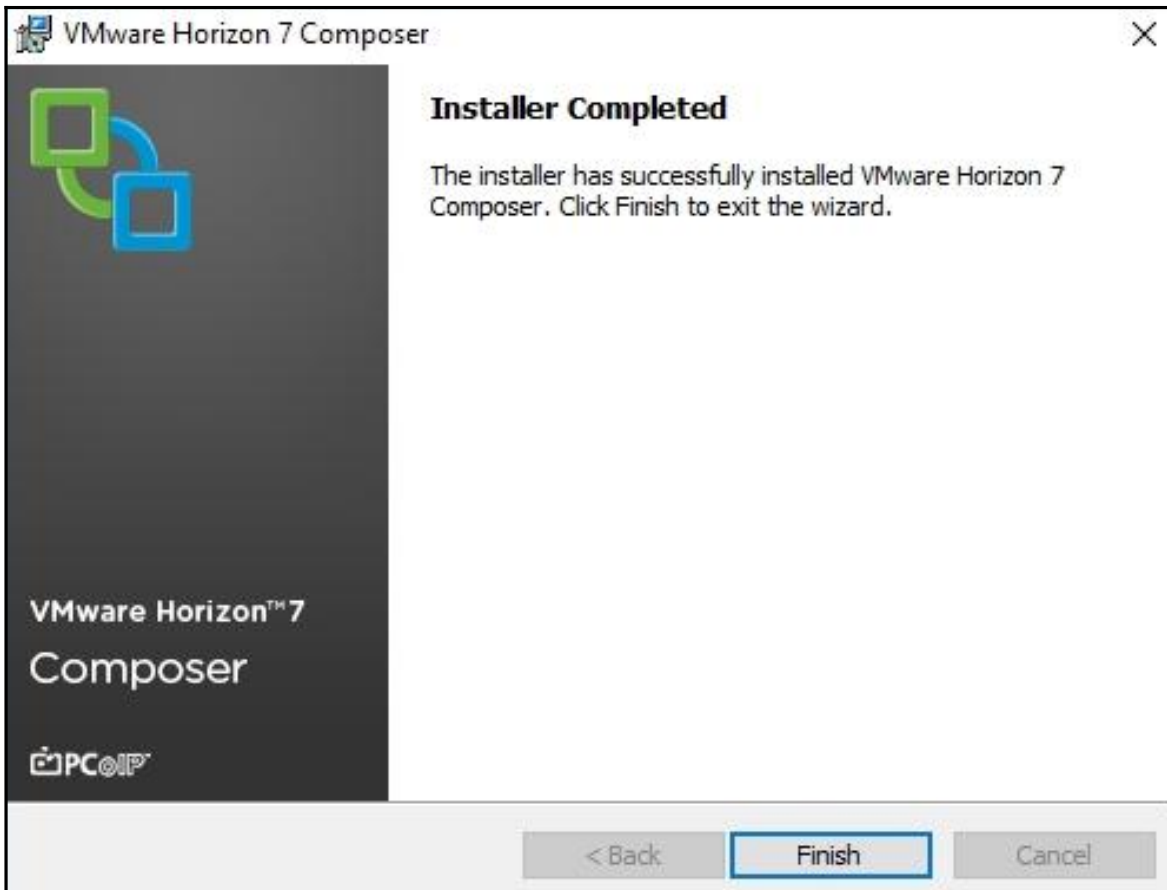
< BackFinishCancelHelp

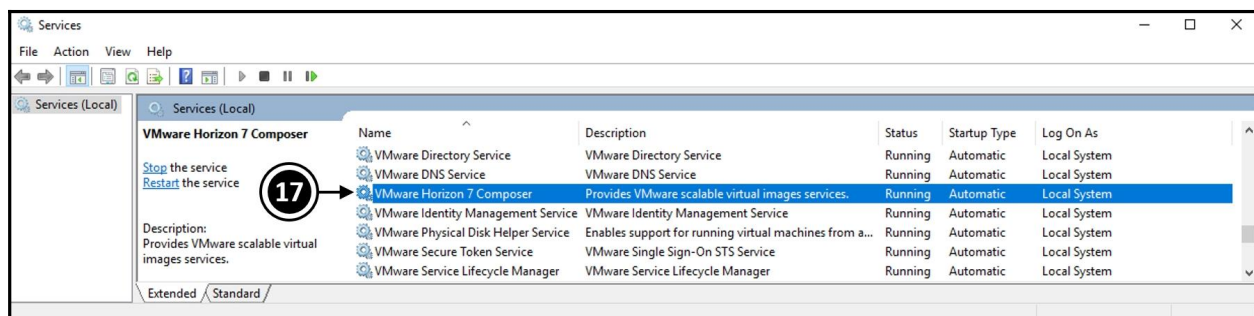












Component	Recommended & Supported Configuration
Operating Systems	Windows Server 2008 R2 SP1 (Standard, Enterprise & Datacenter)
	Windows Server 2012 R2 (Standard & Datacenter)
	Windows Server 2016 (Standard & Datacenter)
Processor	4 CPU's
Networking	1 Gbps NIC with static IP address
Memory	10 GB RAM or higher for deployments of 50 or more desktops
Disk space	60 GB

Open File - Security Warning



**We can't verify who created this file. Are you sure you want to run this file?**



Name: ...izon-Connection-Server-x86\_64-7.6.0-9823717.exe

Type: Application

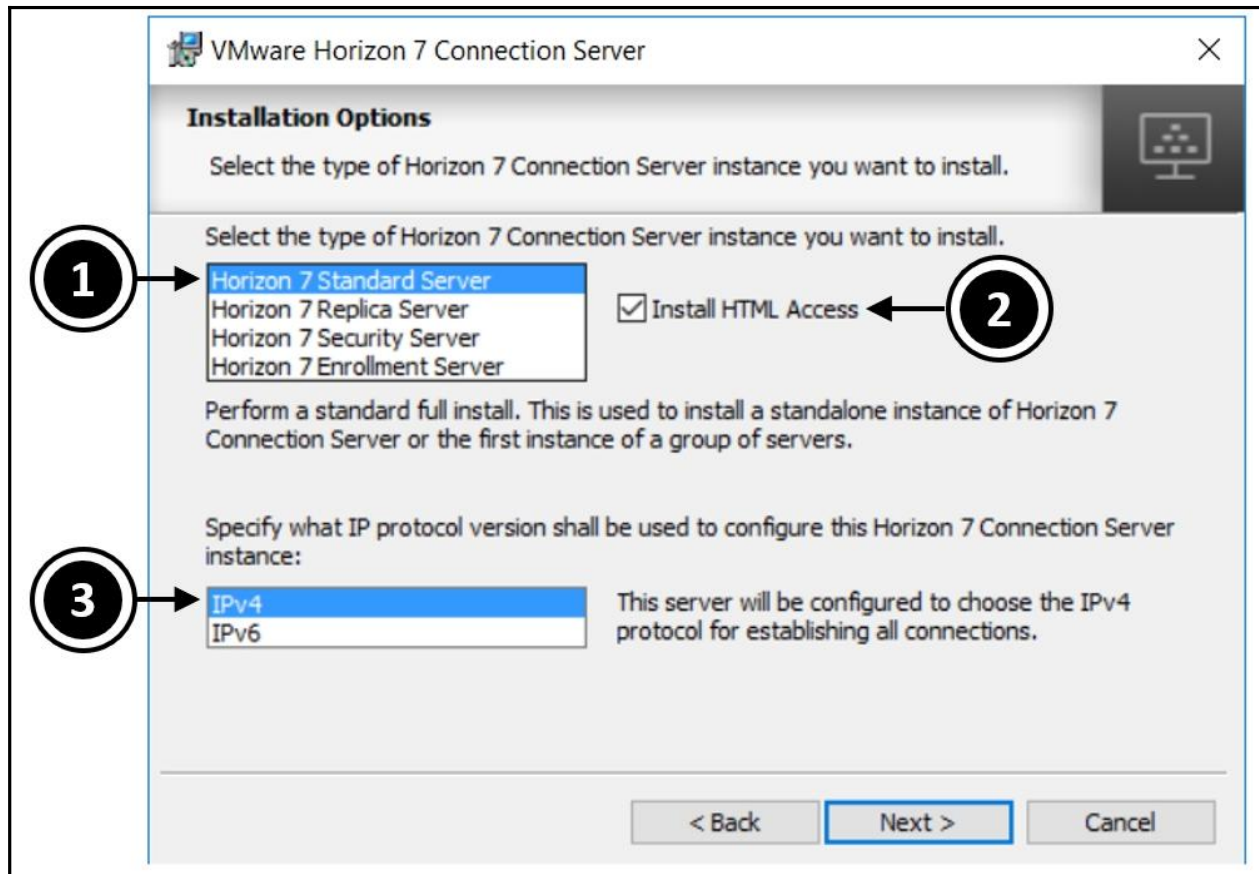
From: \\dc\Software Folder\Horizon 7.6\VMware-Horizo...

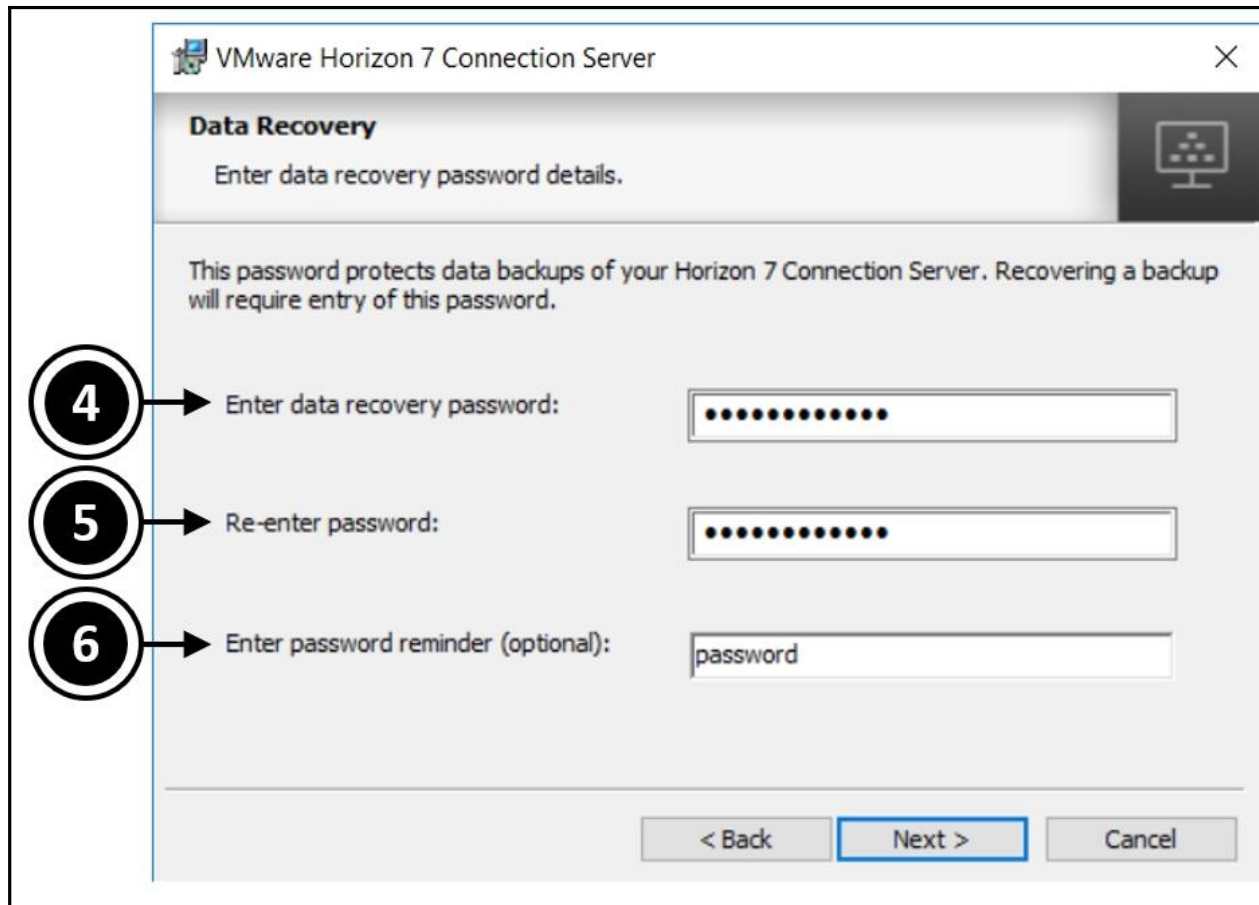
Run

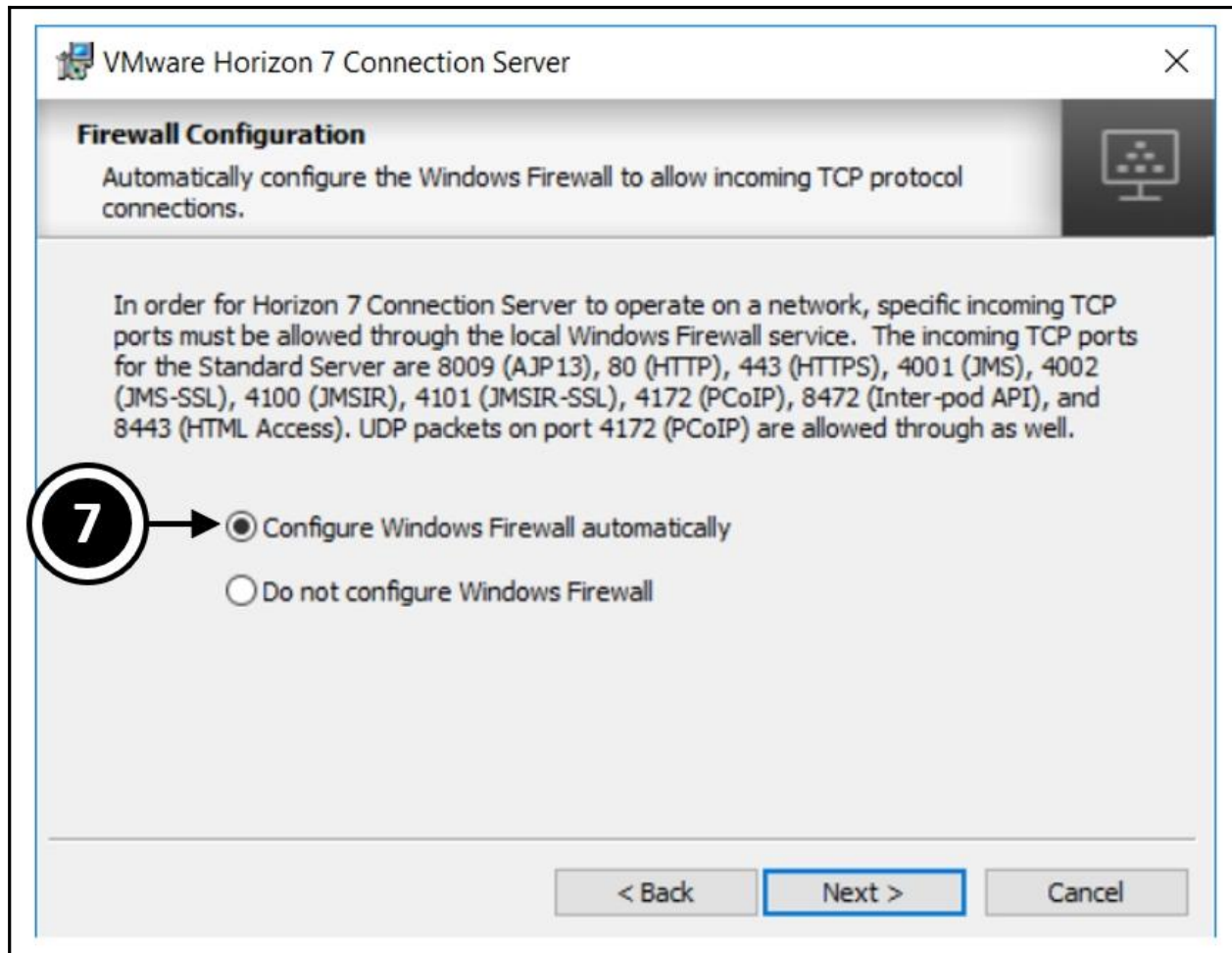
Cancel



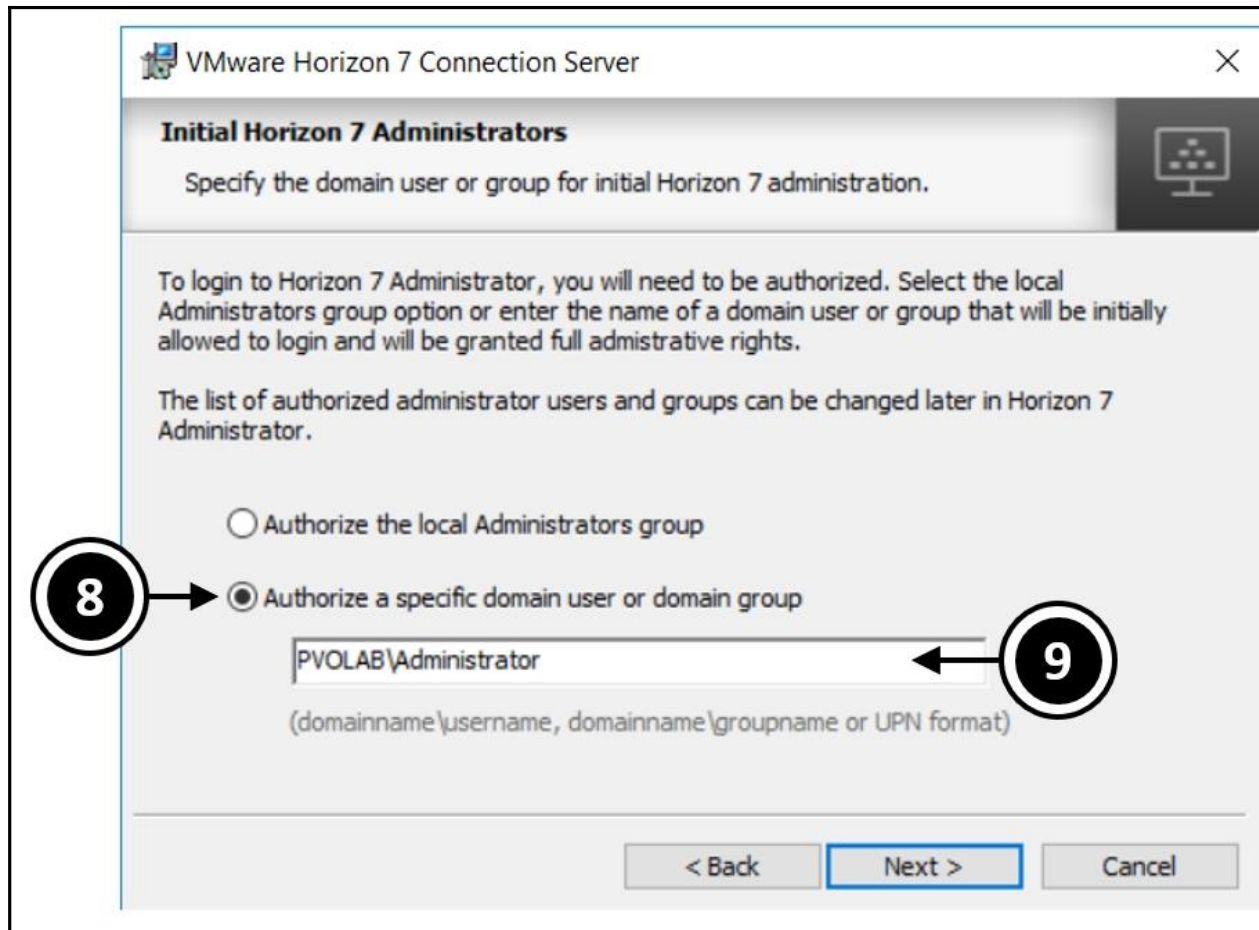
This file is in a location outside your local network. Files from locations you don't recognize can harm your PC. Only run this file if you trust the location. [What's the risk?](#)

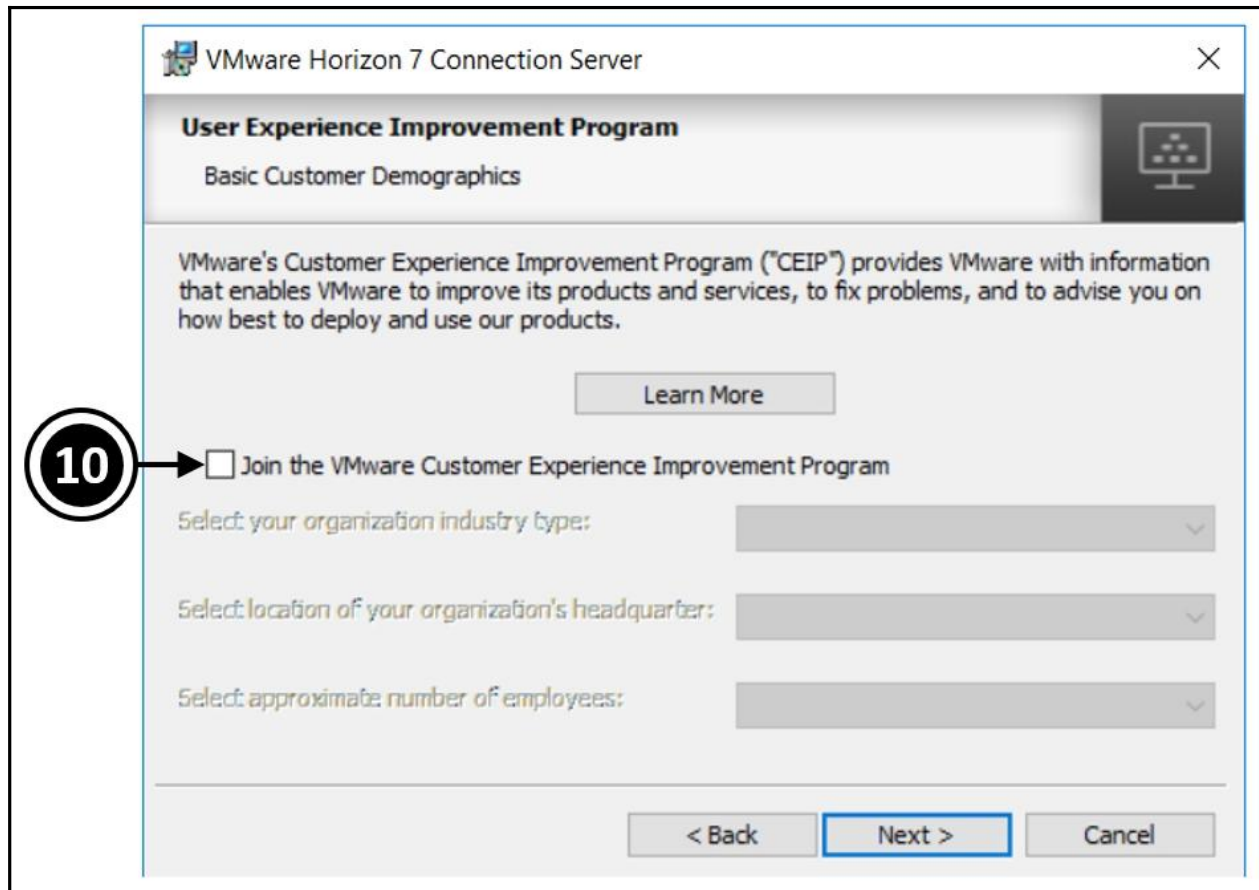


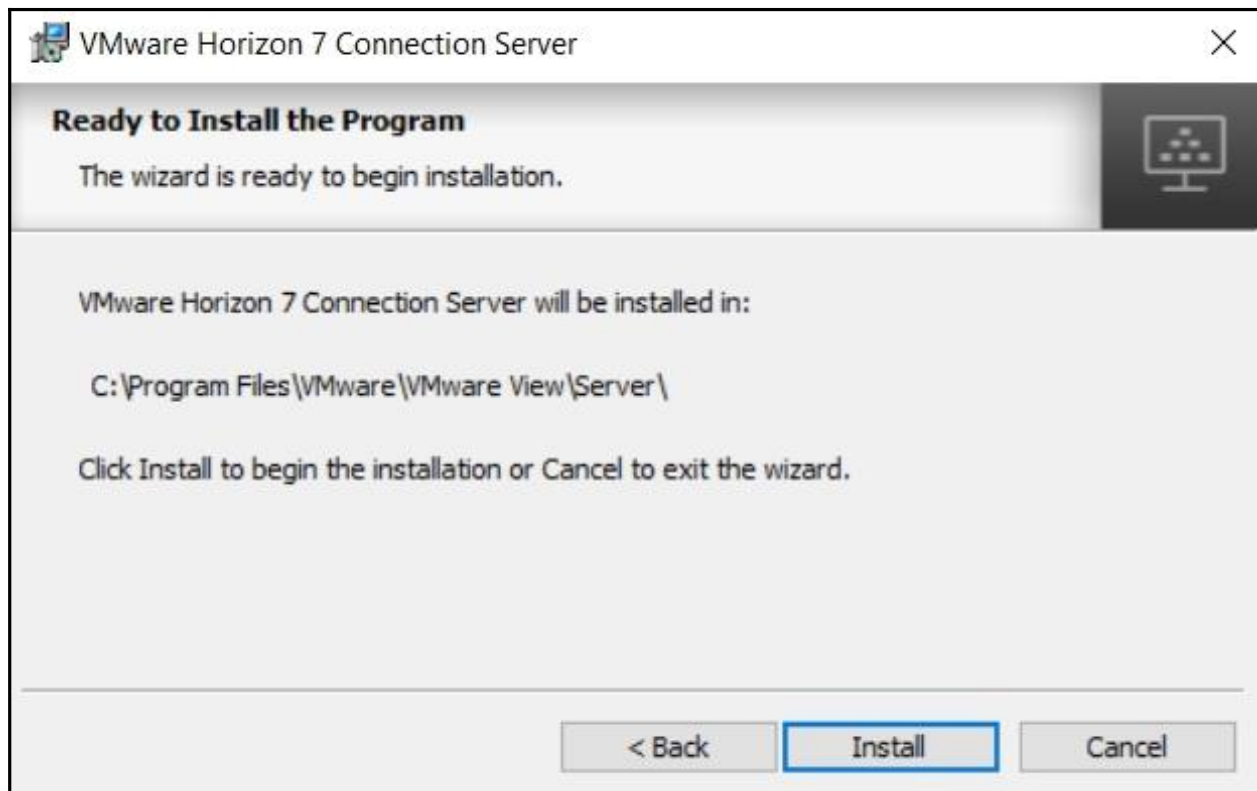


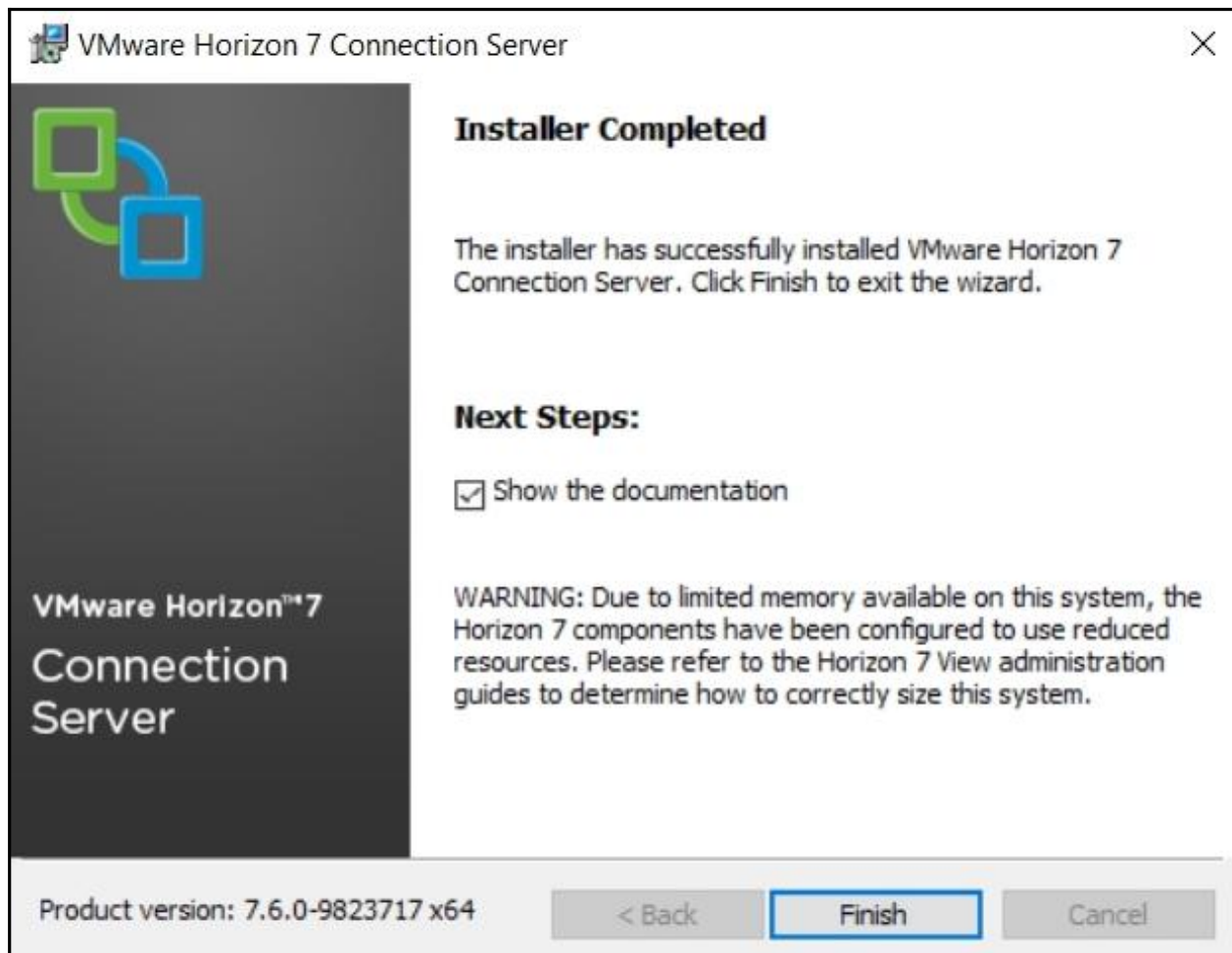


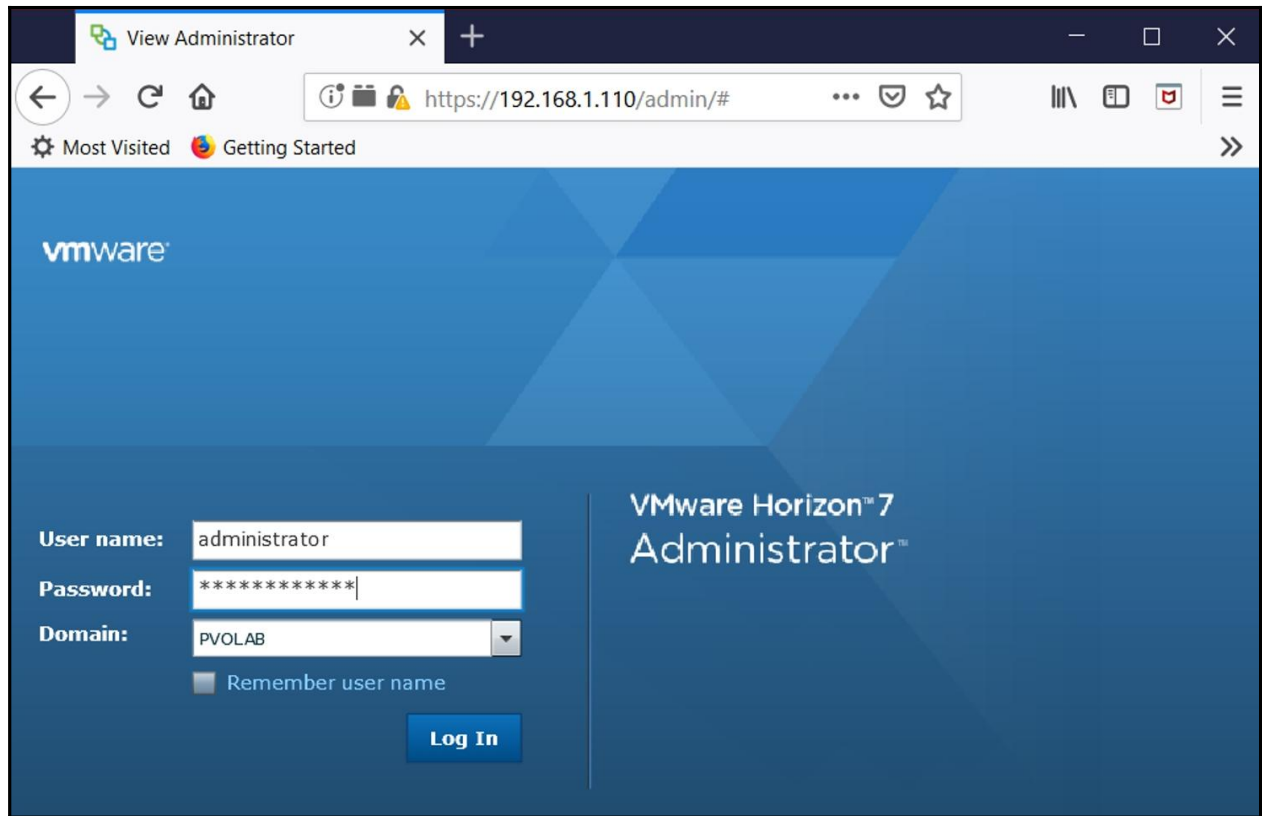












VMware Horizon 7 Administrator

Updated 11/12/2018 09:49

Sessions 0  
 Problem vCenter VMs 0  
 Problem RDS Hosts 0  
 Events 0  
 System Health 0 2 1 0

**Inventory**

- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks
- Monitoring
- Policies
- View Configuration
  - Servers
  - Instant Clone Domain Admins
  - Product Licensing and Usage**
  - Global Settings
  - Registered Machines
  - Administrators
  - ThinApp Configuration
  - Cloud Pod Architecture
  - Event Configuration

**Licensing and Usage**

Licensing

Edit License... ← 1

⚠ No valid license present for View Manager. Click Edit to add a valid license.

Usage

Reset Highest Count    Reset Named Users Count

Session Mode	Current	Highest
Total Concurrent Connections	0	0
Total Named Users	1	N/A
Detailed Connection Breakdown		
Total Remote	0	0
Active - full virtual machines	0	0
Active - linked clone	0	0
Active - other machine sources	0	0
Active - applications	0	0
Active - collaboration sessions	0	0
Active - total collaborators	0	0

**Edit License**

License serial number: \*

OK    Cancel

Licensing

[Edit License...](#)

License Key: lm61k-XXXXX-XXXXX-XXXXX-2rm4j

License expiration: Saturday, 16 March 2019 00:00:00 GMT

Desktop license: Enabled

Application Remoting license: Enabled

View Composer license: Enabled


Instant Clone license: Enabled

Help Desk license: Enabled

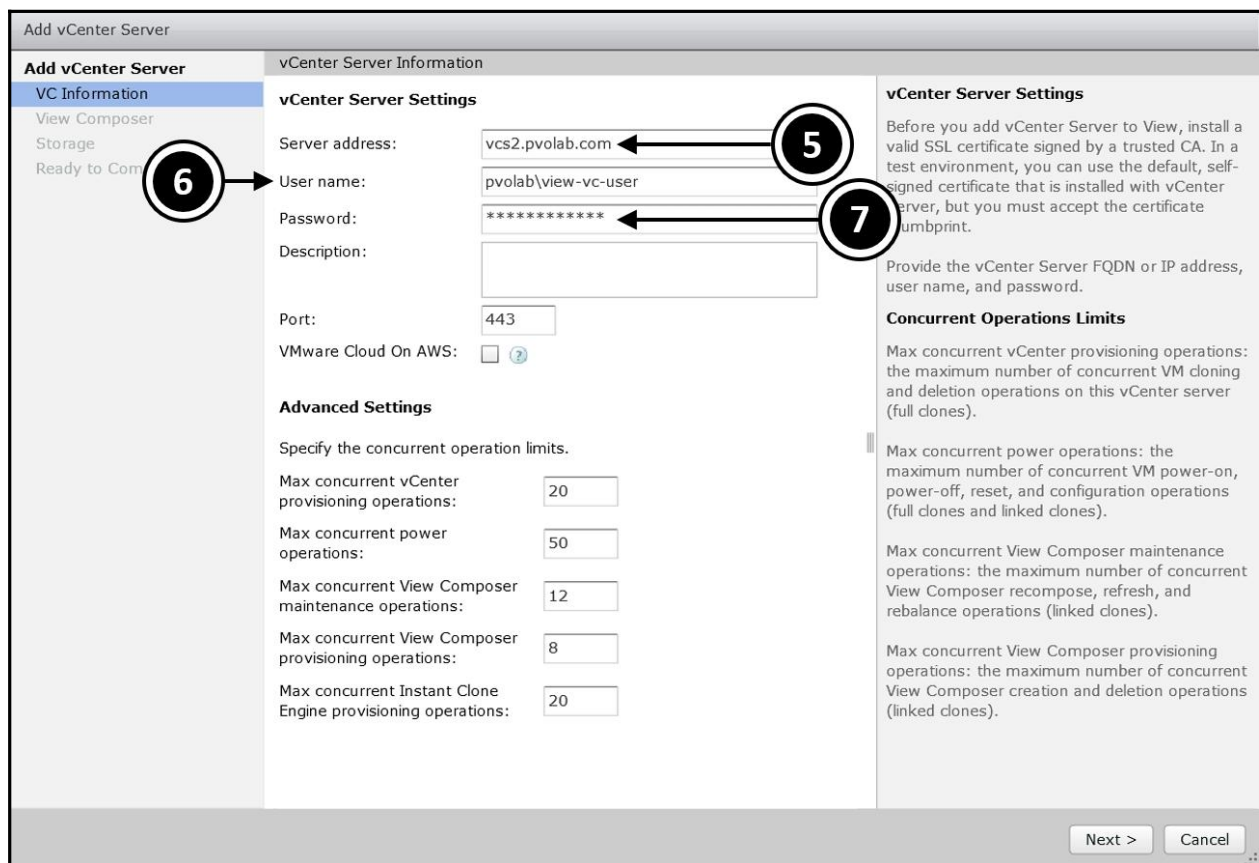
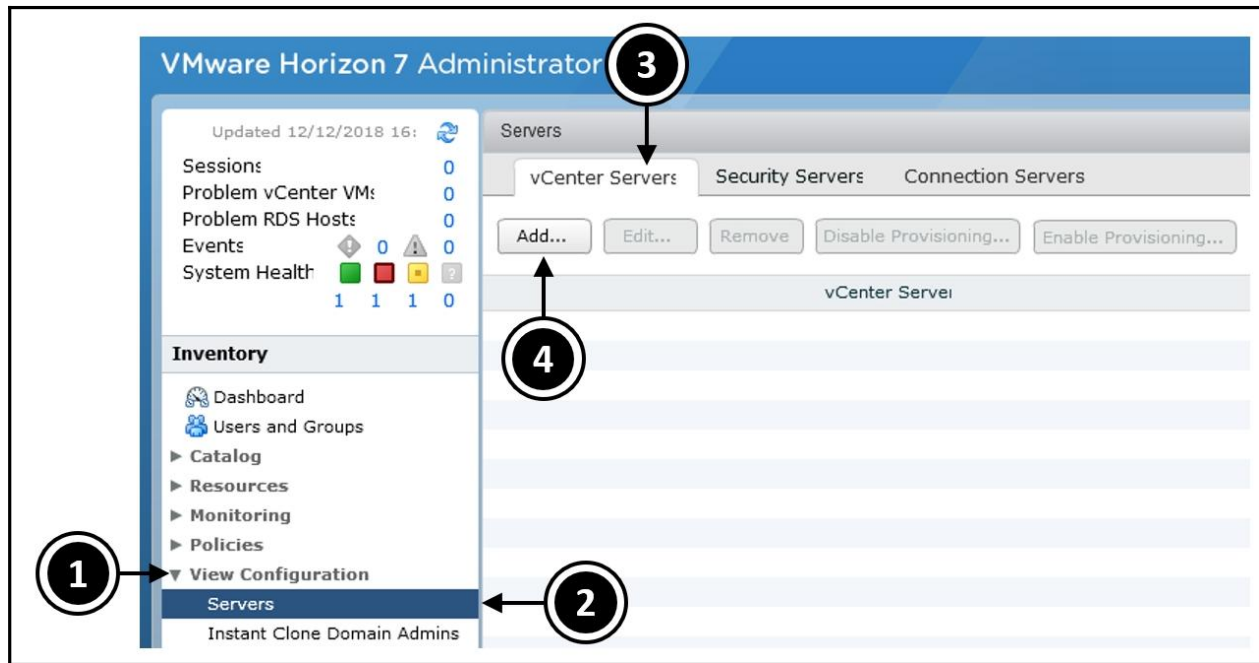
Session Collaboration license: Enabled

Usage Model: Concurrent User

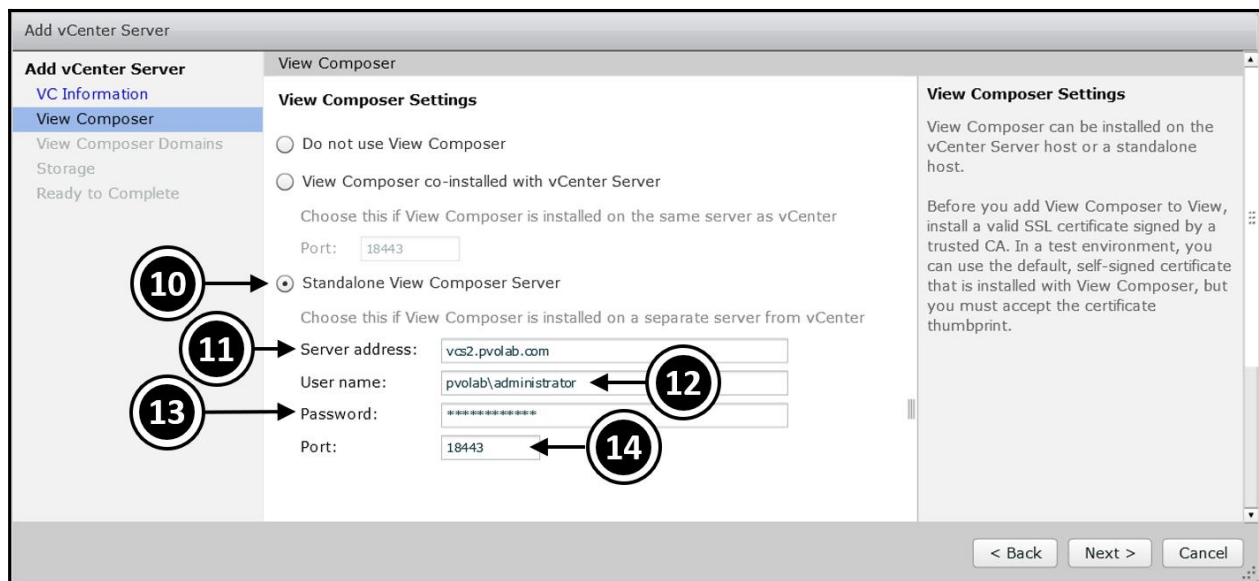
Usage

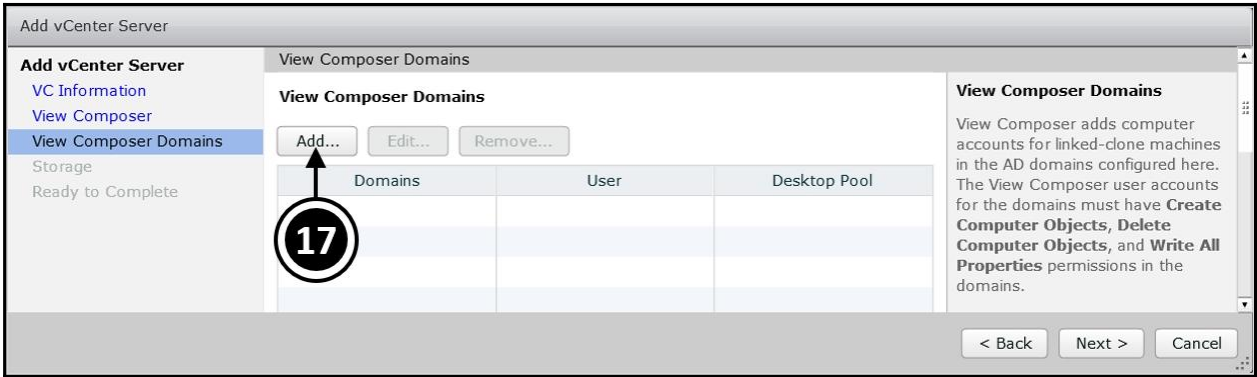
[Reset Highest Count](#) [Reset Named Users Count](#) 

Session Mode	Current	Highest
Total Concurrent Connections	0	0
Total Named Users	1	N/A
Detailed Connection Breakdown		
Total Remote	0	0
Active - full virtual machines	0	0
Active - linked clone	0	0
Active - other machine sources	0	0
Active - applications	0	0
Active - collaboration sessions	0	0
Active - total collaborators	0	0









**18** → Add Domain

Full domain name:

User name:  ← **19**

**20** → Password:

OK Cancel

Add vCenter Server

**Add vCenter Server**

- VC Information
- View Composer
- View Composer Domains**
- Storage
- Ready to Complete

View Composer Domains

Add... Edit... Remove...

Domains	User	Desktop Pool
pvolab.com	administrator	

View Composer Domains

View Composer adds computer accounts for linked-clone machines in the AD domains configured here. The View Composer user accounts for the domains must have **Create Computer Objects, Delete Computer Objects, and Write All Properties** permissions in the domains.

< Back Next > Cancel

Add vCenter Server

**Add vCenter Server**

- VC Information
- View Composer
- View Composer Domains
- Storage**
- Ready to Complete

Storage

**Storage Settings**

Reclaim VM disk space

Enable View Storage Accelerator

Default host cache size:  MB

Cache must be between 100 MB and 2048 MB

**Hosts**

Show all hosts

Edit cache size...

Host	Cache Size
/PVO's Datacenter/host/192.168.1.131/192.168.1.131	Default

**Storage Settings**

ESXi hosts can be configured to cache virtual machine disk data, which improves performance during I/O storms such as when many machines power on and run anti-virus scans at once. Hosts read common data blocks from cache instead of reading the OS from disk.

By reducing IOPS during boot storms, View Storage Accelerator lowers the demand on the storage array and uses less storage I/O bandwidth.

**Disk Space Reclamation**

With vSphere 5.x, virtual machines can be configured to use a space efficient disk format that supports reclamation of unused disk space.

< Back Next > Cancel

Add vCenter Server

**Add vCenter Server**

- VC Information
- View Composer
- View Composer Domains
- Storage
- Ready to Complete**

Ready to Complete	
vCenter Server	vcs2.pvolab.com
User name	pvolab\view-vc-user
Password	*****
Description	
Server Port	443
VMware Cloud On AWS	No
Max Provision	20
Max Power	50
Max View Composer Operations	12
Max View Composer Provision	8
Max Instant Clone Engine Provision	20
View Composer State	Standalone View Composer Server
View Composer Address	vcs2.pvolab.com
View Composer Password	*****
View Composer User Name	pvolab\administrator
View Composer Port	18443
Enable View Storage Accelerator	Yes
Default host cache size:	1024
VM Disk Space Reclamation	Yes

< Back    Finish    Cancel

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 14/12/2018 08:00

Sessions: 0  
 Problem vCenter VMs: 0  
 Problem RDS Hosts: 0  
 Events: 0  
 System Health: 1 1 1 0

**Inventory**

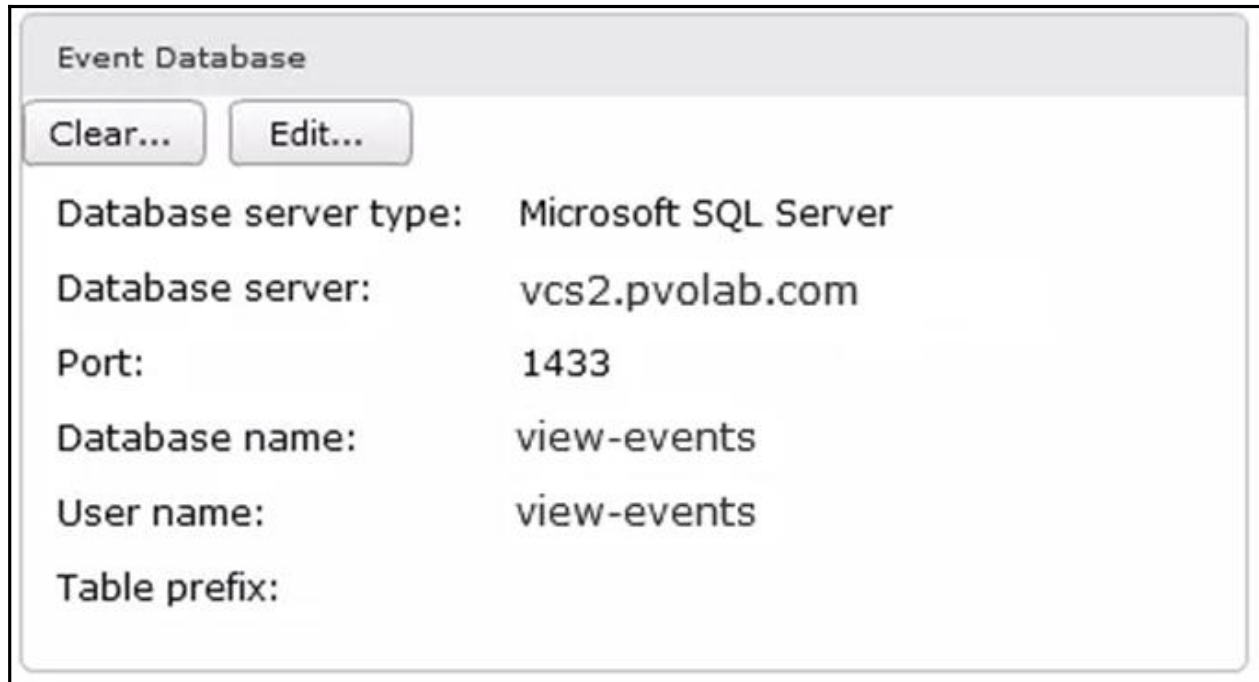
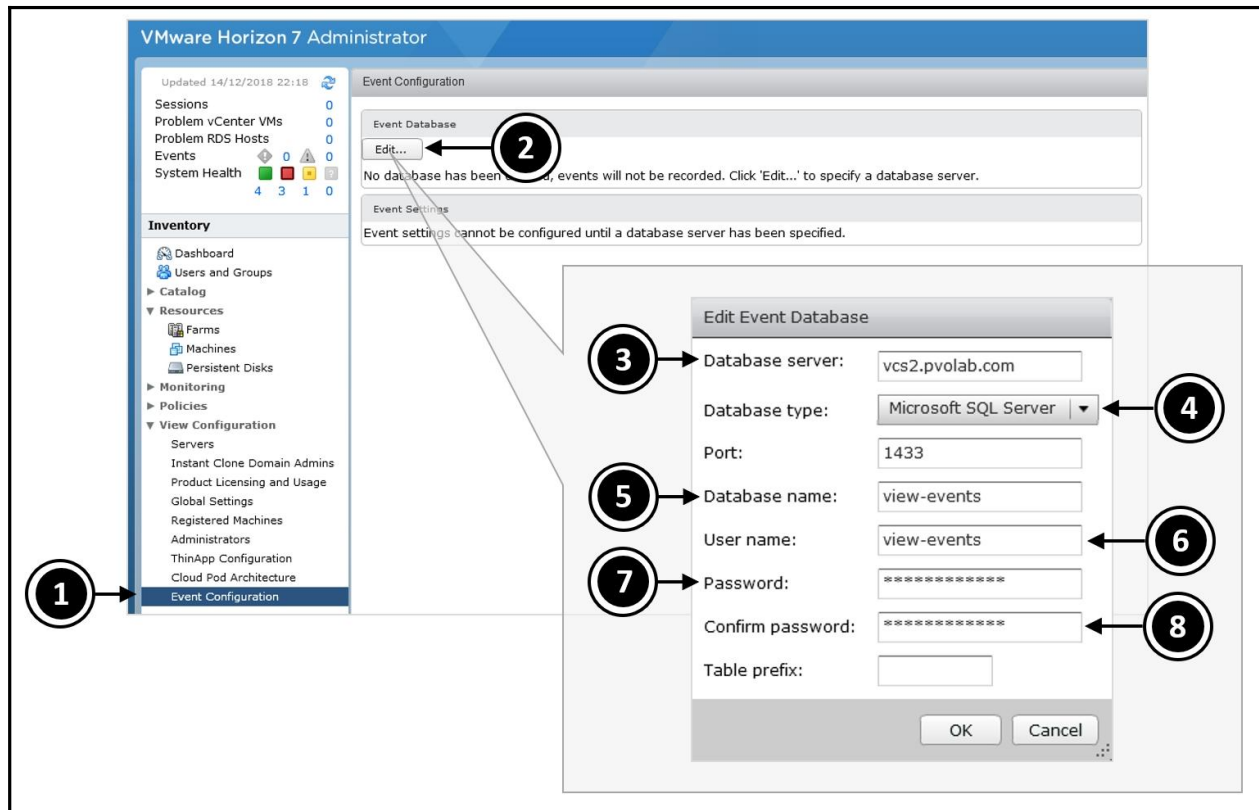
- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks
- Monitoring
- Policies
- View Configuration
- Servers**

Servers

vCenter Servers    Security Servers    Connection Servers

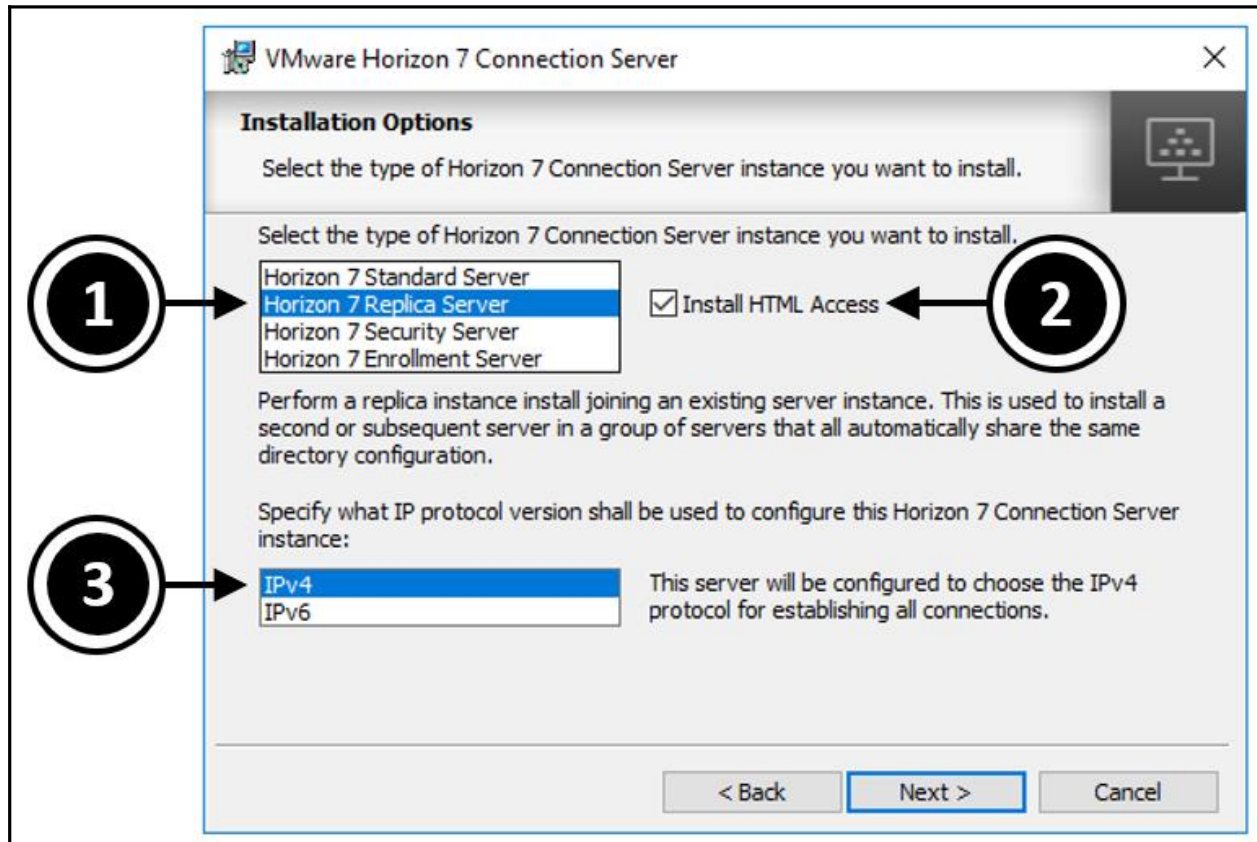
Add...    Edit...    Remove    Disable Provisioning...    Enable Provisioning...

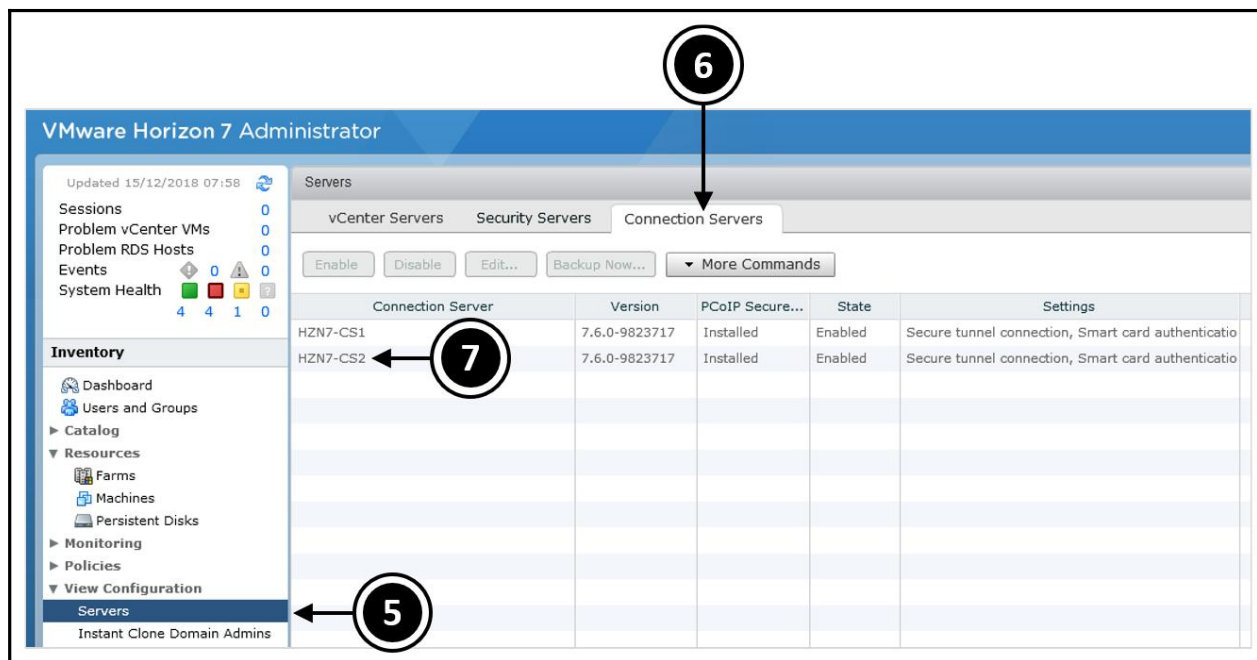
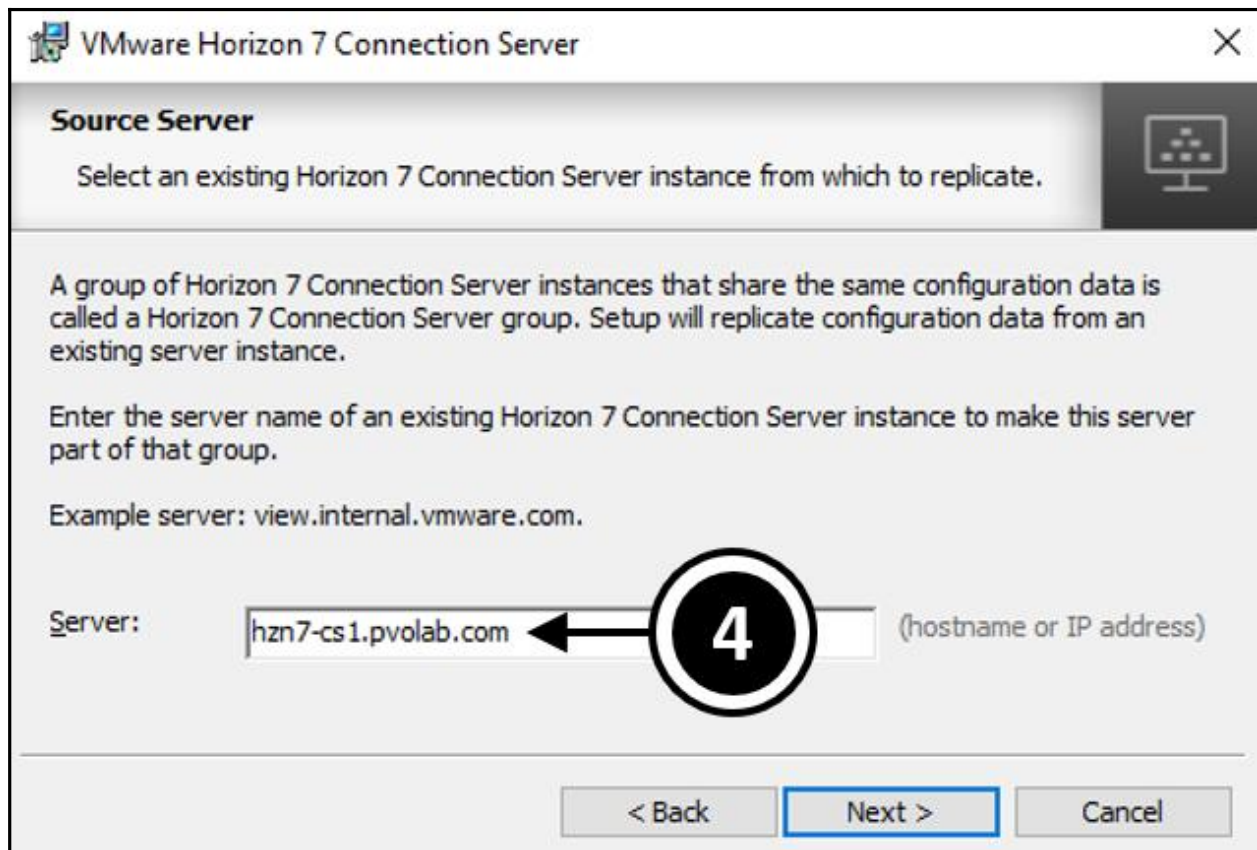
vCenter Server	VM Disk Space Reclamation	View Storage Accelerator	Provisioning
192.168.1.178(pvolab\view-vc-user)	✓	✓	✓

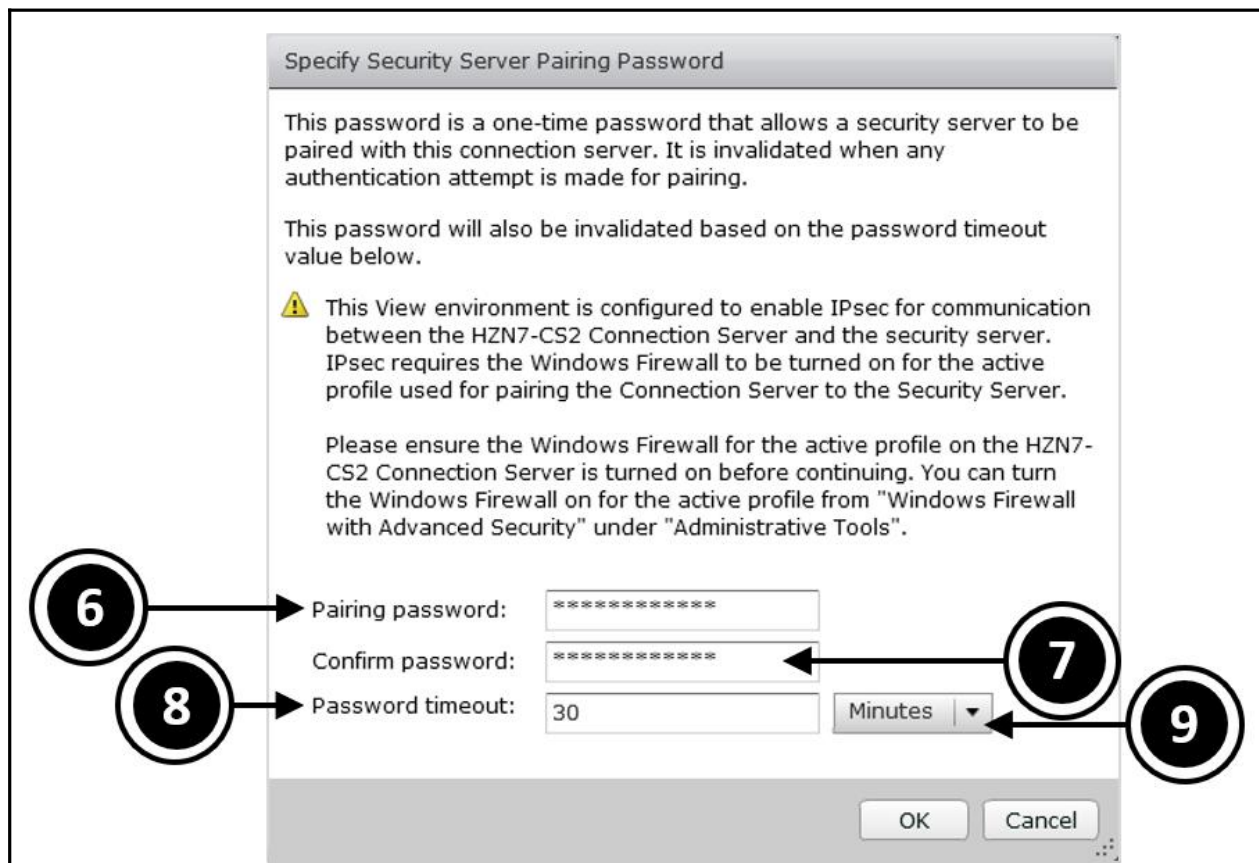
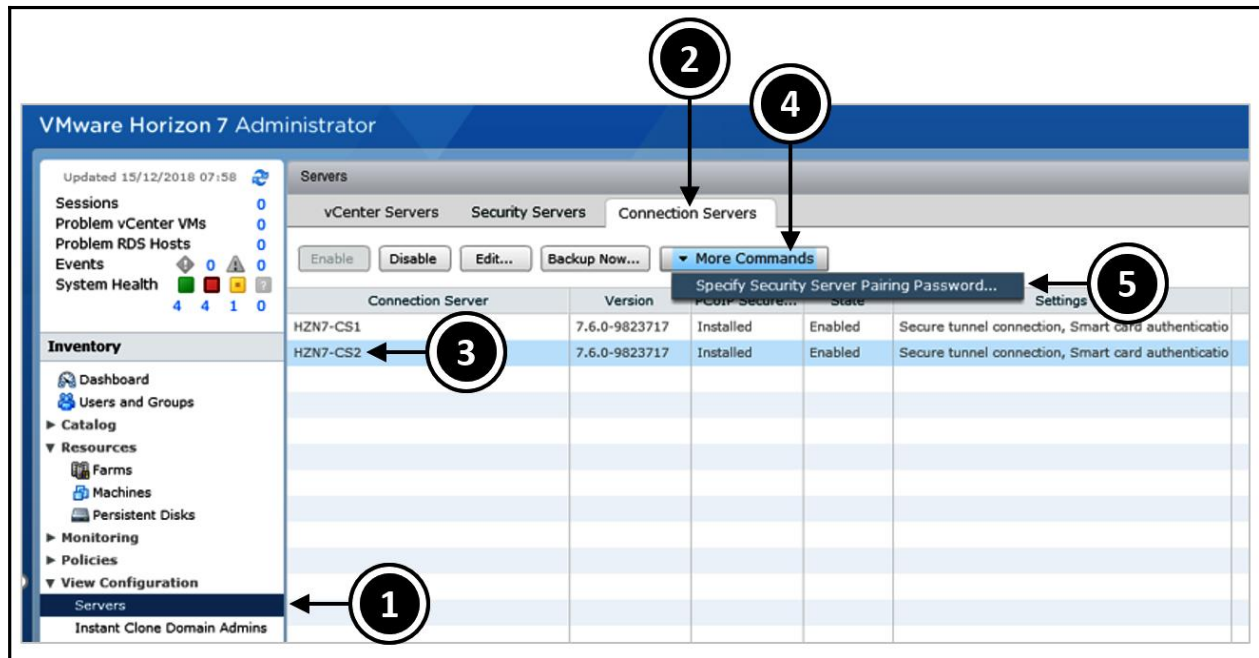


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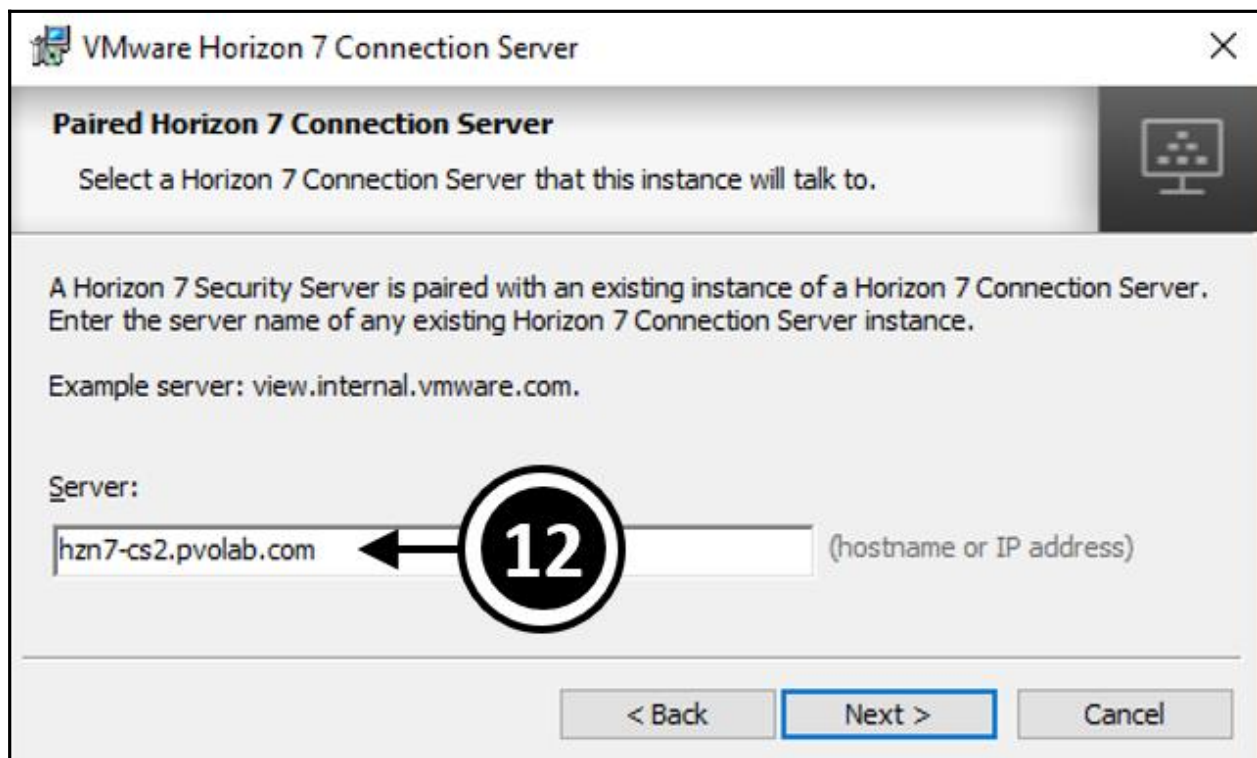
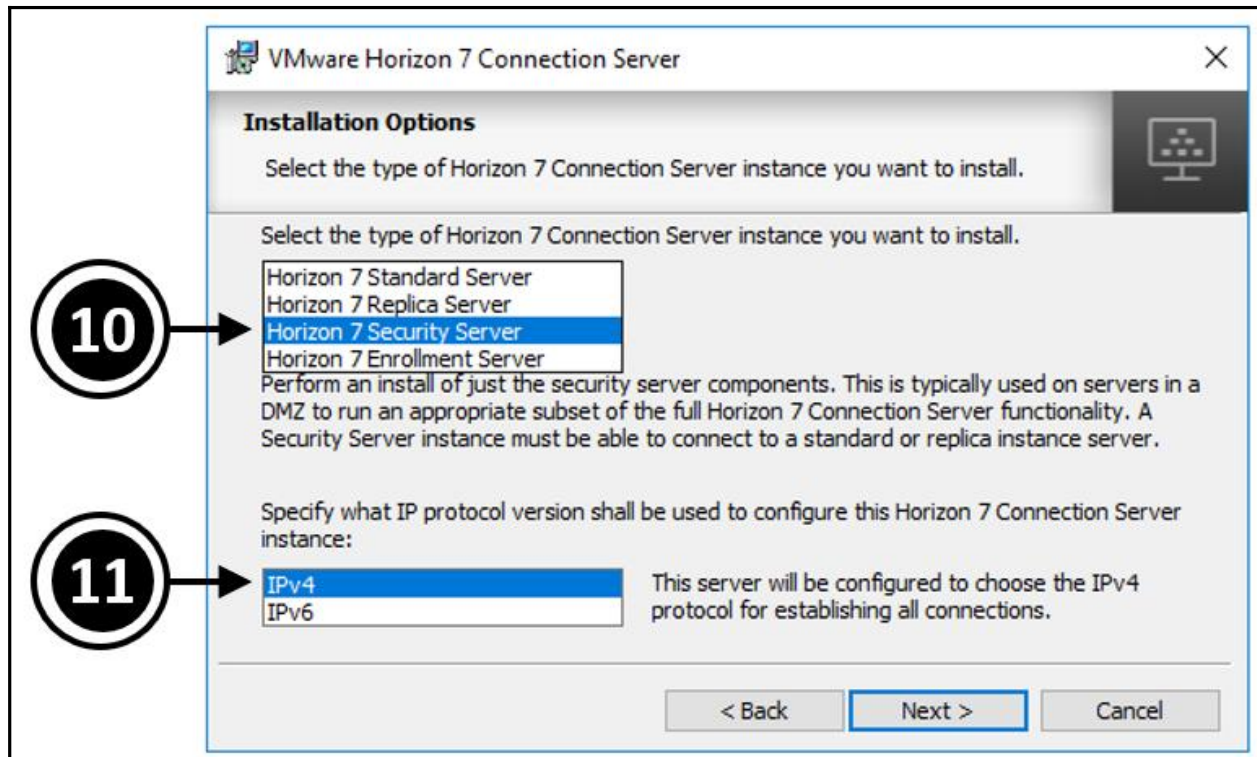
# Chapter 5: Installing and Configuring Horizon 7 - Part 2

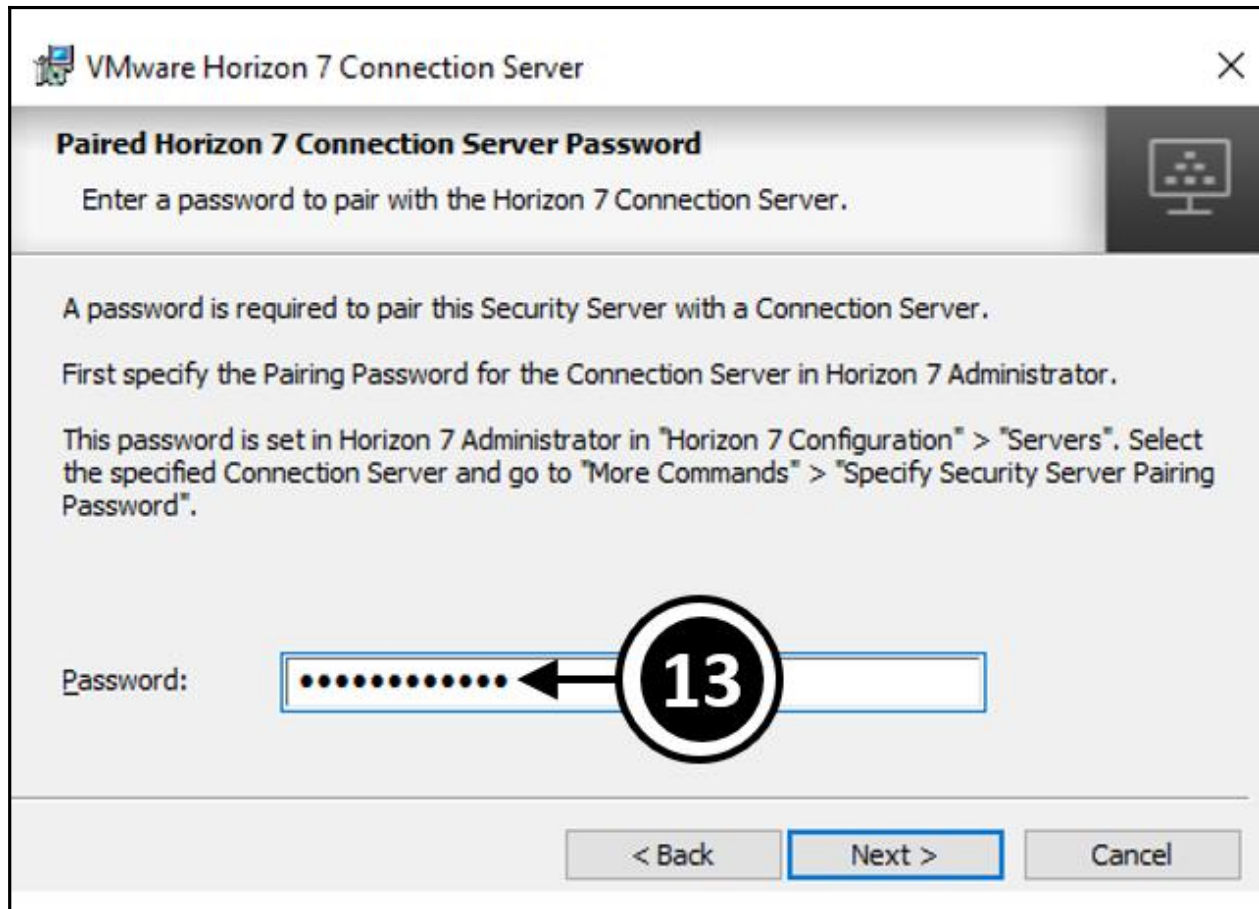


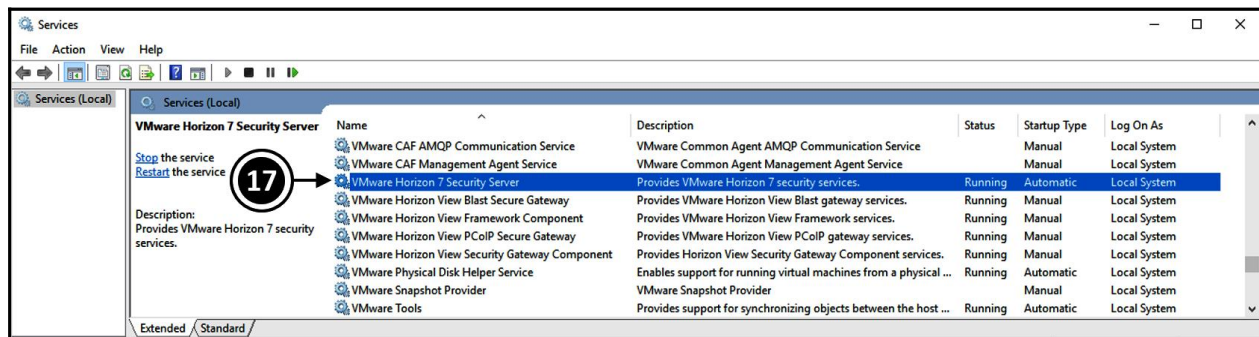
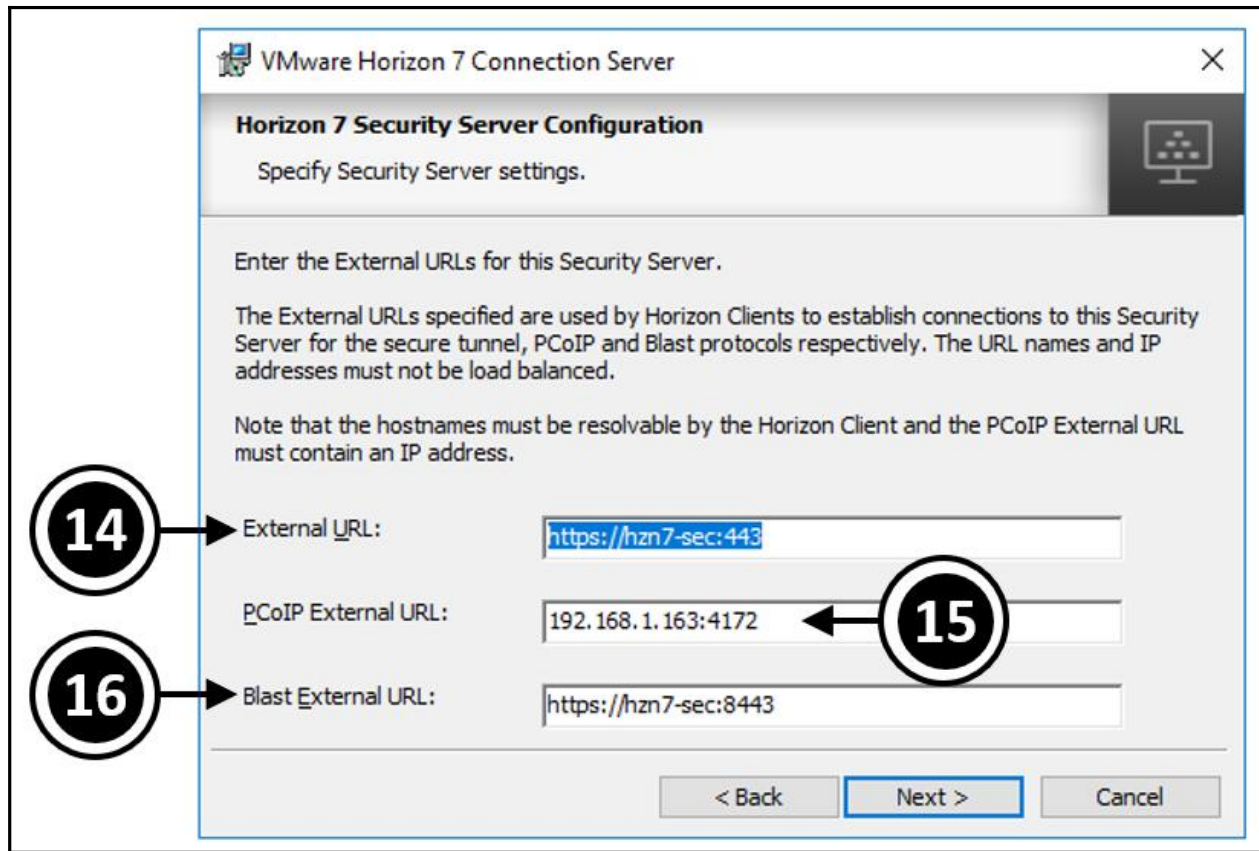


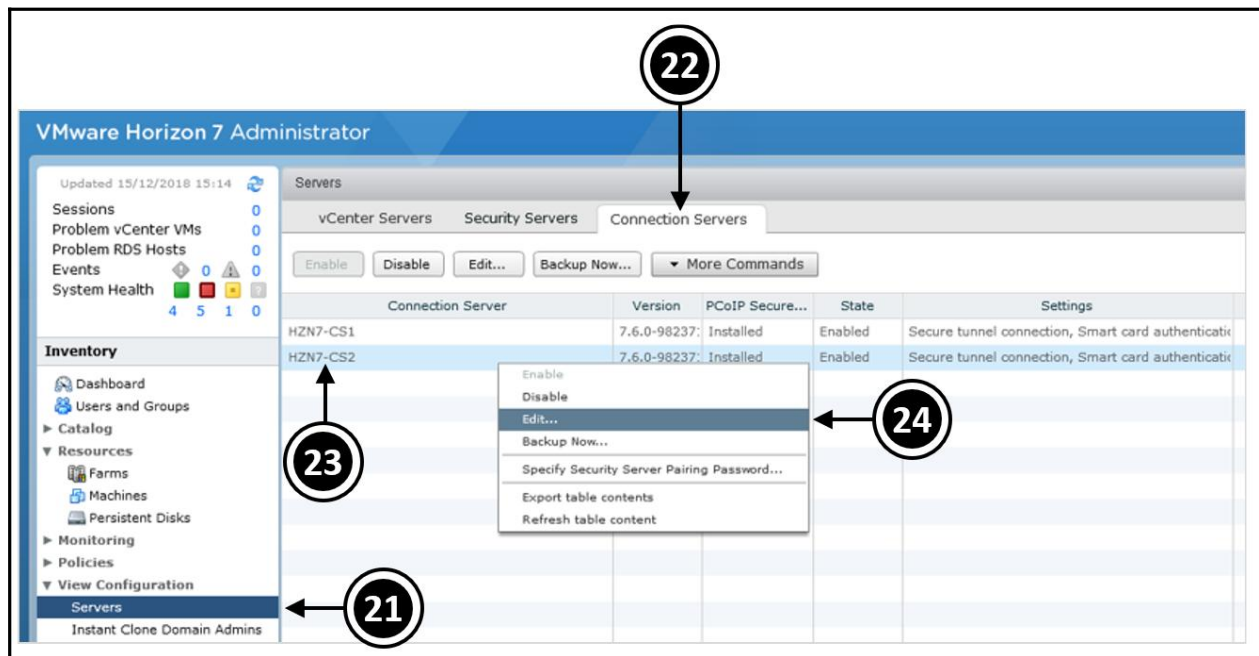
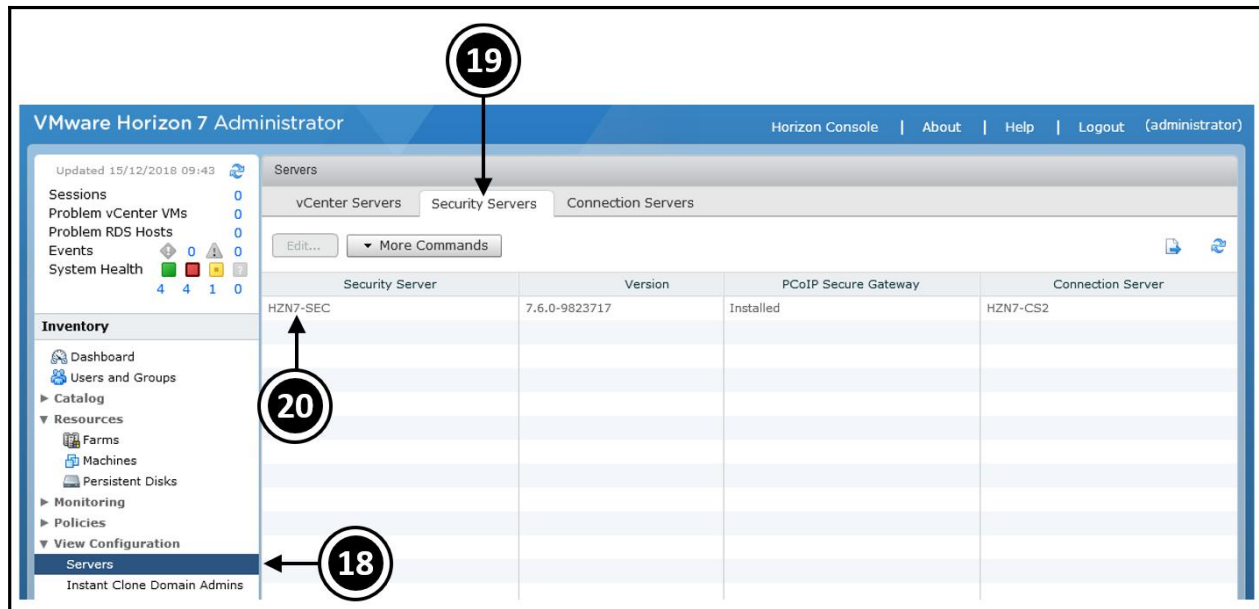


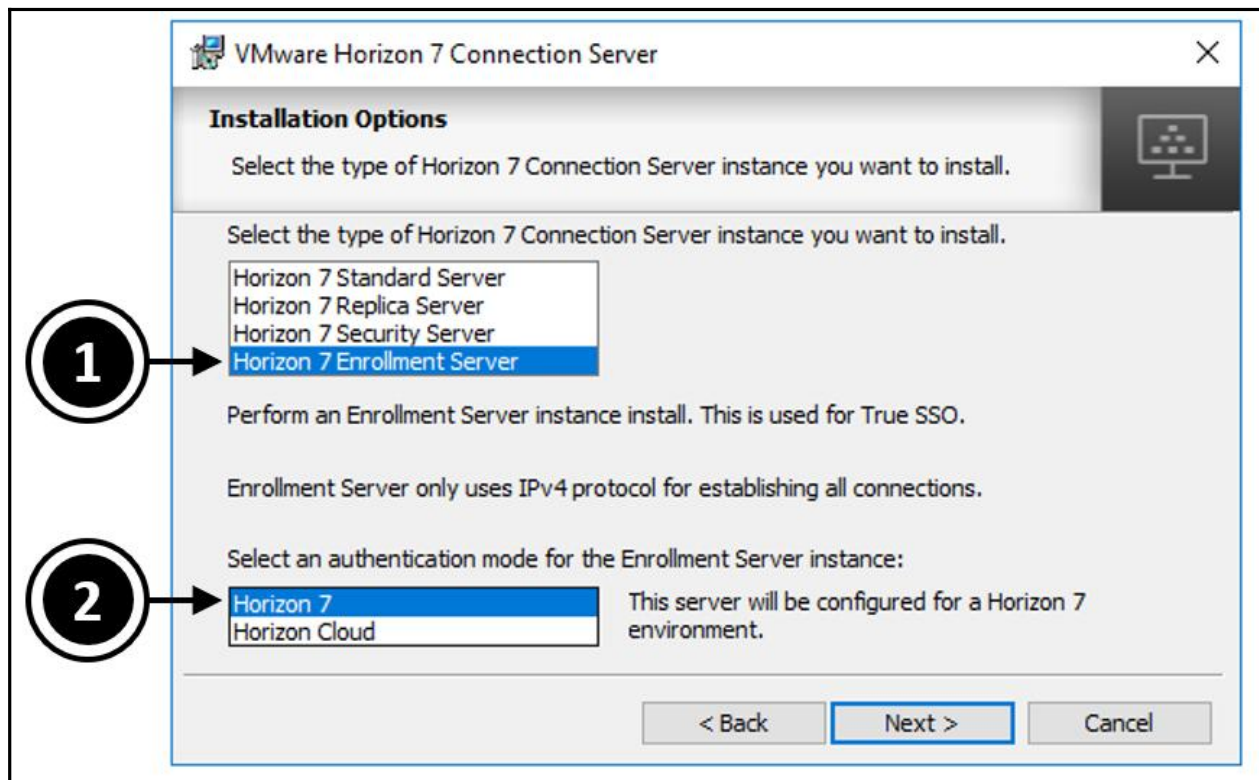
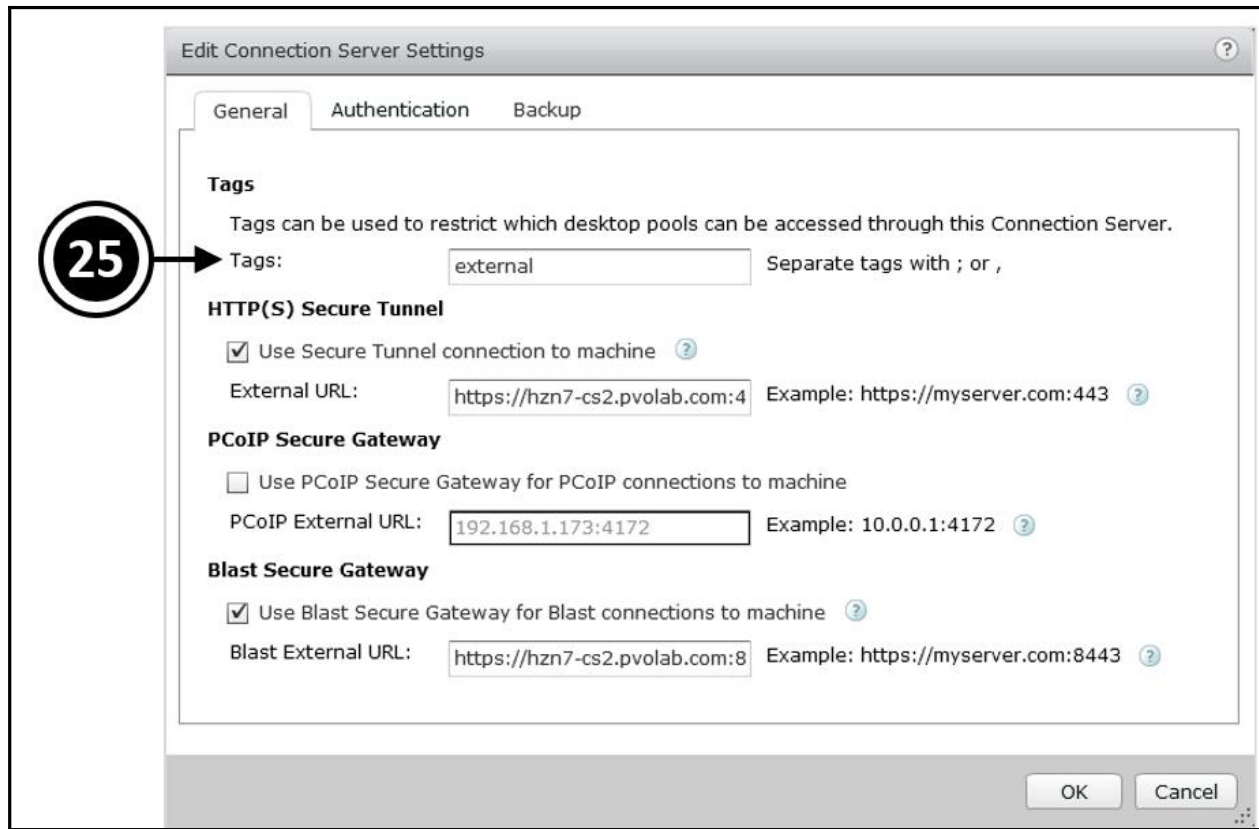


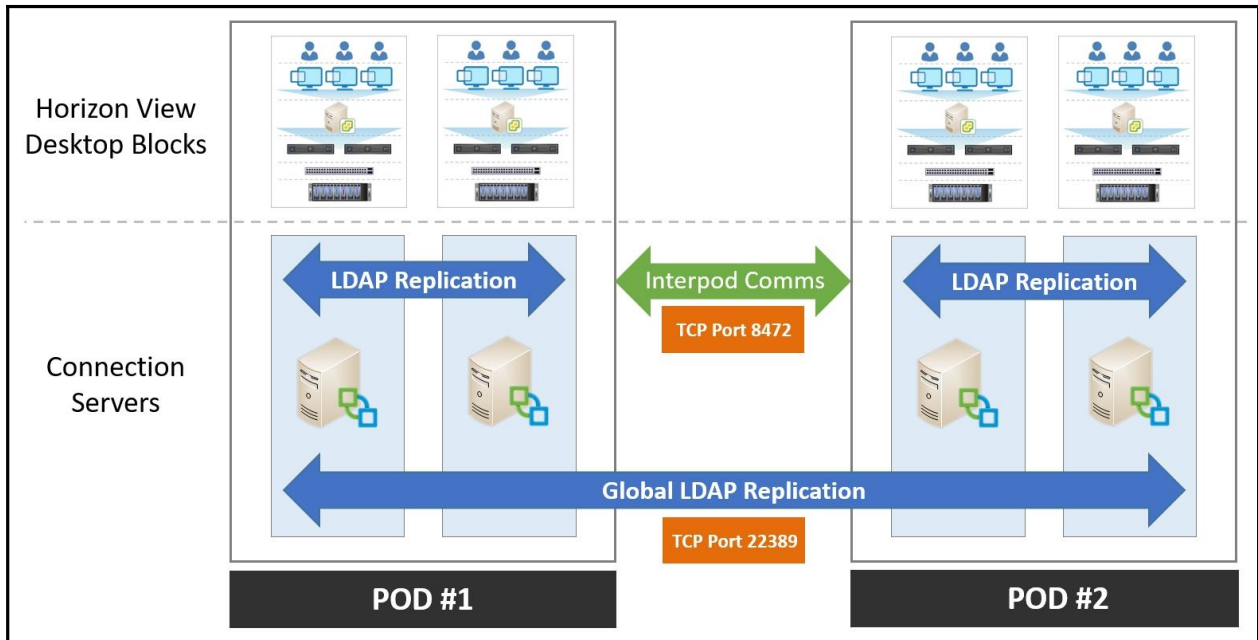
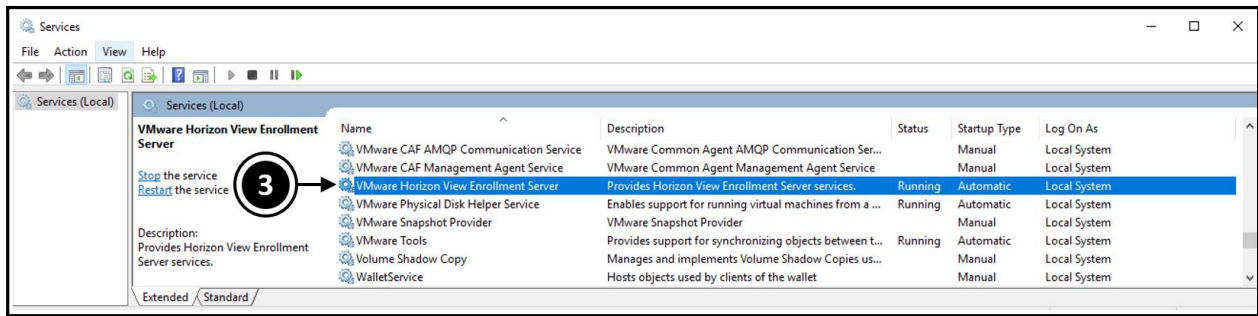












VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Sessions: Problem vCenter VMs (0), Problem RDS Hosts (0), Events (0), System Health (0)

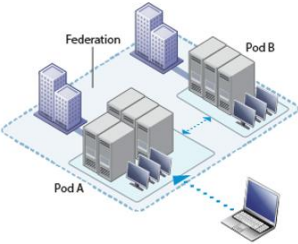
**Inventory**

- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks
- Monitoring
- Policies
- View Configuration
  - Servers
  - Instant Clone Domain Admins
  - Product Licensing and Usage
  - Global Settings
  - Registered Machines
  - Administrators
  - ThinApp Configuration
  - Cloud Pod Architecture**
  - Event Configuration

**Cloud Pod Architecture**

**What is Cloud Pod Architecture?**

The Cloud Pod Architecture feature links together multiple View pods to provide a single large desktop brokering and management environment. When the Cloud Pod Architecture feature is enabled, you can join together multiple View pods to form a single View implementation called a pod federation. A pod federation can span multiple sites and datacenters.



**Basic Tasks**

- [Initialize the Cloud Pod Architecture feature](#)
- [Join the pod federation](#)

1

2

**Initialize**

You are about to initialize the Cloud Pod Architecture feature.

OK Cancel

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 16/12/2018 21:16

Sessions 0  
Problem vCenter VMs 0  
Problem RDS Hosts 0  
Events 0  
System Health 0 6 1 0

**Inventory**

- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks
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- Policies
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  - Product Licensing and Usage
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  - Registered Machines
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  - ThinApp Configuration
  - Cloud Pod Architecture**
  - Event Configuration

Cloud Pod Architecture

Initialize 0%

Connection Server	Percentage	Status
HZN7-CS1		Pending

Reload

Reloading the client is recommended. Click OK to reload the client?

OK Cancel



VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Sessions 0  
 Problem vCenter VMs 0  
 Problem RDS Hosts 0  
 Events 0  
 System Health 0 0 0 0

**Inventory**

- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks
- Monitoring
- Policies
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  - Servers
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  - Product Licensing and Usage
  - Global Settings
  - Registered Machines
  - Administrators
  - ThinApp Configuration
  - Cloud Pod Architecture**
  - Event Configuration

Cloud Pod Architecture

Pod Federation

Edit... Unjoin... Uninitialize...

Name: Horizon Cloud Pod Federation

Name	Site	Description
Cluster-HZN7-CS1(local)	Default First Site	

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Sessions 0  
 Problem vCenter VMs 0  
 Problem RDS Hosts 0  
 Events 0  
 System Health 0 0 0 0

**Inventory**

- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks
- Monitoring
- Policies
- View Configuration
  - Servers
  - Instant Clone Domain Admins
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  - Cloud Pod Architecture**
  - Event Configuration

Cloud Pod Architecture

**What is Cloud Pod Architecture?**

The Cloud Pod Architecture feature links together multiple View pods to provide a single large desktop brokering and management environment. When the Cloud Pod Architecture feature is enabled, you can join together multiple View pods to form a single View implementation called a pod federation. A pod federation can span multiple sites and datacenters.

**Basic Tasks**

[Initialize the Cloud Pod Architecture feature](#)

[Join the pod federation](#)

1

2

**Join**

To join this pod to the pod federation, you must provide connection information for a View Connection Server instance that belongs to a pod that has been initialized or is already joined to the pod federation.

Connection Server (host name or IP address):  **3**

User name (domain\username):  **4**

Password:  **5**

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Sessions: 0  
 Problem vCenter VMs: 0  
 Problem RDS Hosts: 0  
 Events: 0  
 System Health: 0 0 0 0

**Inventory**

- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks
- Monitoring
- Policies
- View Configuration
  - Servers
  - Instant Clone Domain Admins
  - Product Licensing and Usage
  - Global Settings
  - Registered Machines
  - Administrators
  - ThinApp Configuration
  - Cloud Pod Architecture**
  - Event Configuration

**Cloud Pod Architecture**

Pod Federation

Name: Horizon Cloud Pod Federation

Name	Site	Description
Cluster-HZN7-CS1B(local)	Default First Site	
Cluster-HZN7-CS1	Default First Site	

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 16/12/2018 21:16

Sessions 0  
 Problem vCenter VMs 7  
 Problem RDS Hosts 2  
 Events 0  
 System Health 5 4 1 0

**Inventory**

- Dashboard
- Users and Groups
- Search Sessions
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks
- Monitoring
- Policies
- View Configuration
  - Servers
  - Instant Clone Domain Admins
  - Product Licensing and Usage
  - Global Settings
  - Registered Machines
  - Administrators
  - ThinApp Configuration
  - Cloud Pod Architecture
  - Sites**
  - Event Configuration

**Sites**

Add... Edit... Delete

Site	Description	Number of Pods
Default First Site		2

Edit...

Pod	Description	Global Entitlement
Cluster-HZN7-CS1B		0
Cluster-HZN7-CS1		0

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 16/12/2018 21:16

Sessions 0  
 Problem vCenter VMs 7  
 Problem RDS Hosts 2  
 Events 0  
 System Health 6 3 1 0

**Inventory**

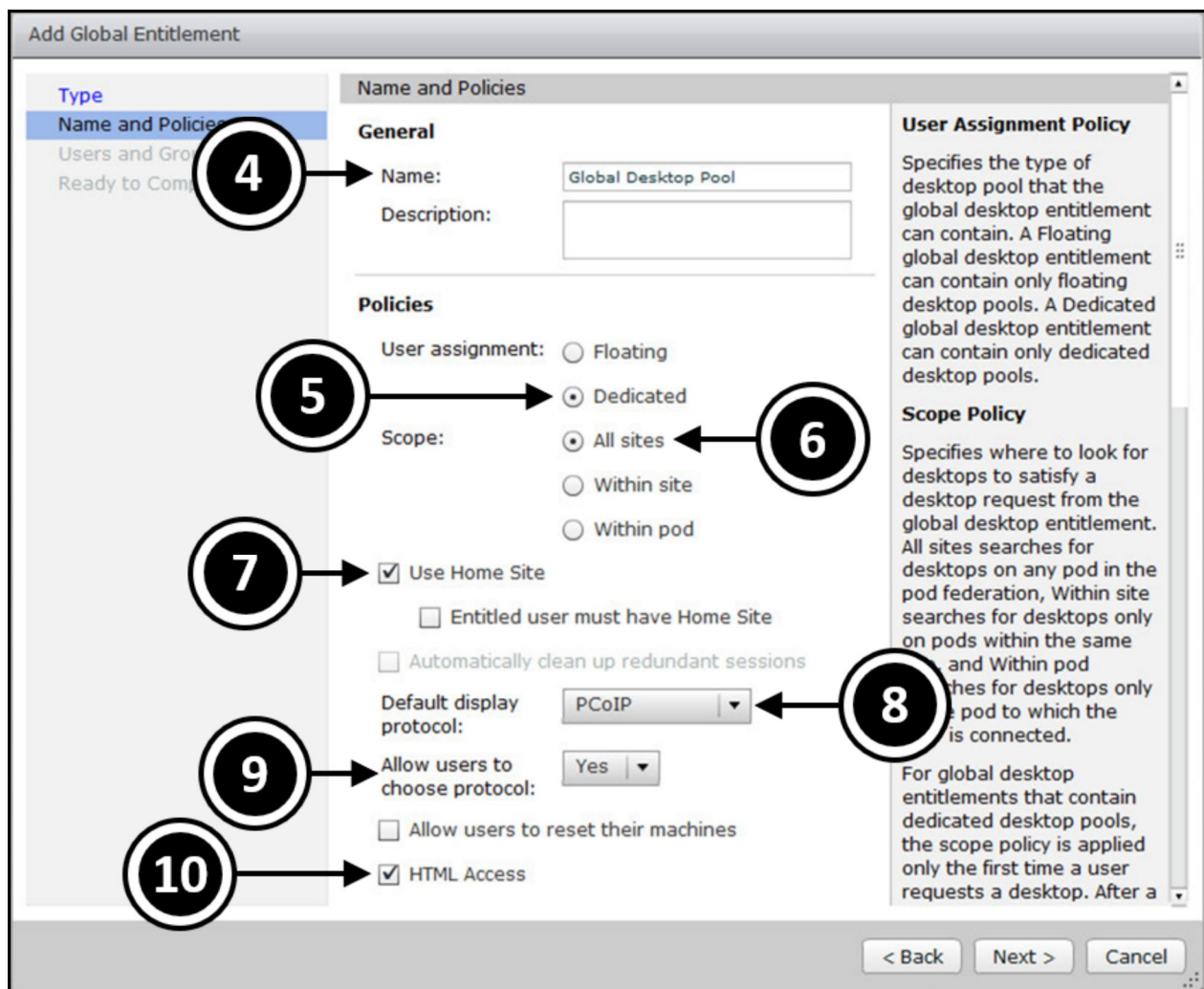
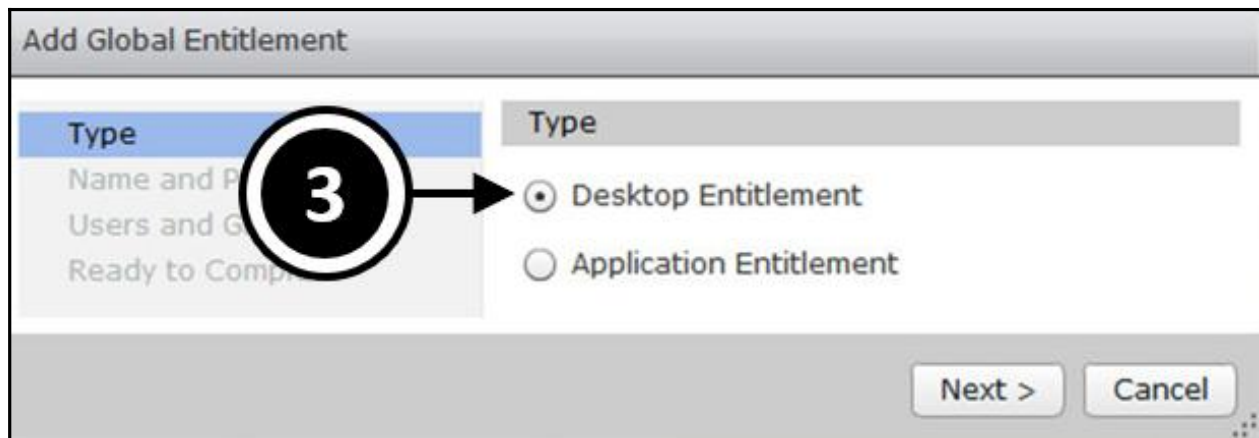
- Dashboard
- Users and Groups
- Search Sessions
- Catalog
- Resources
  - Desktop Pools
  - Application Pools
  - ThinApps
  - Global Entitlements**
- Monitoring
- Policies
- View Configuration

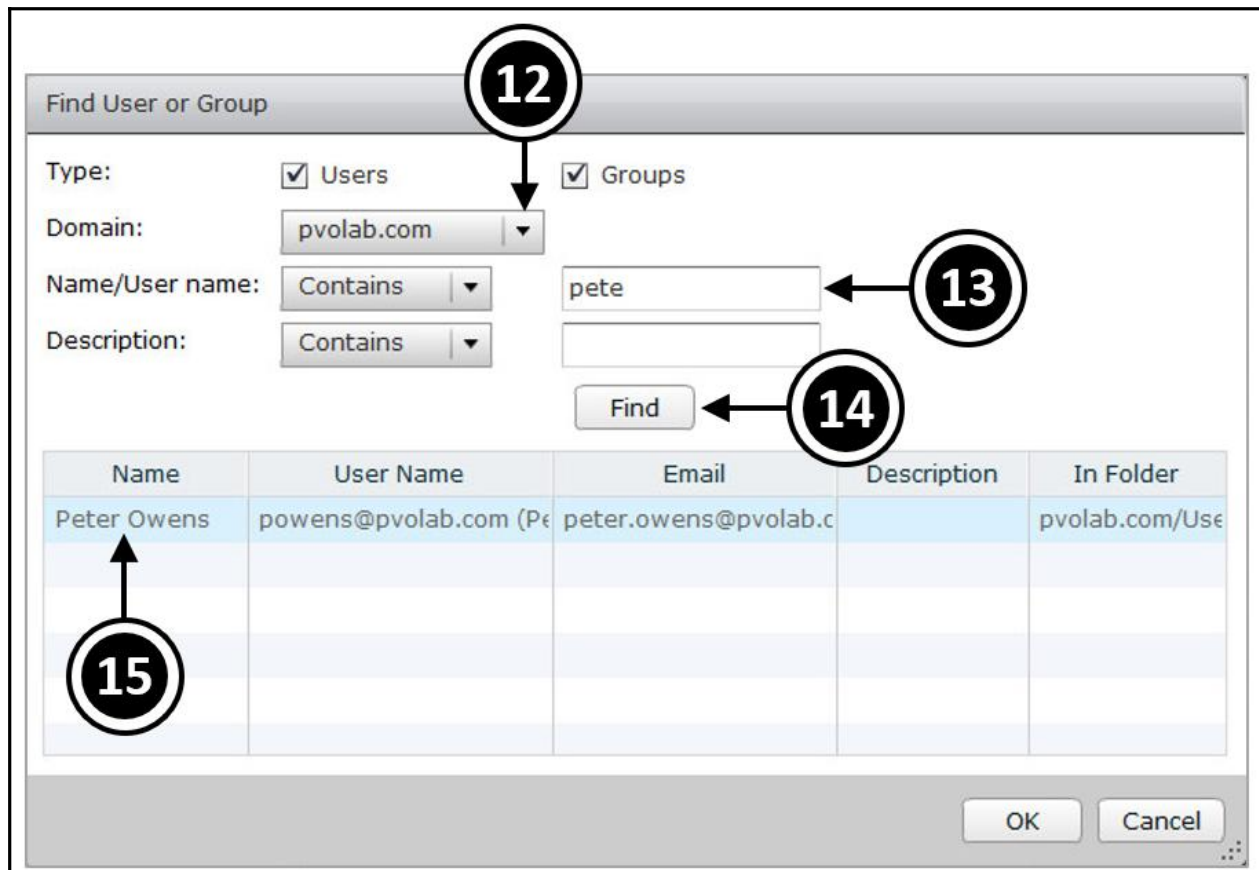
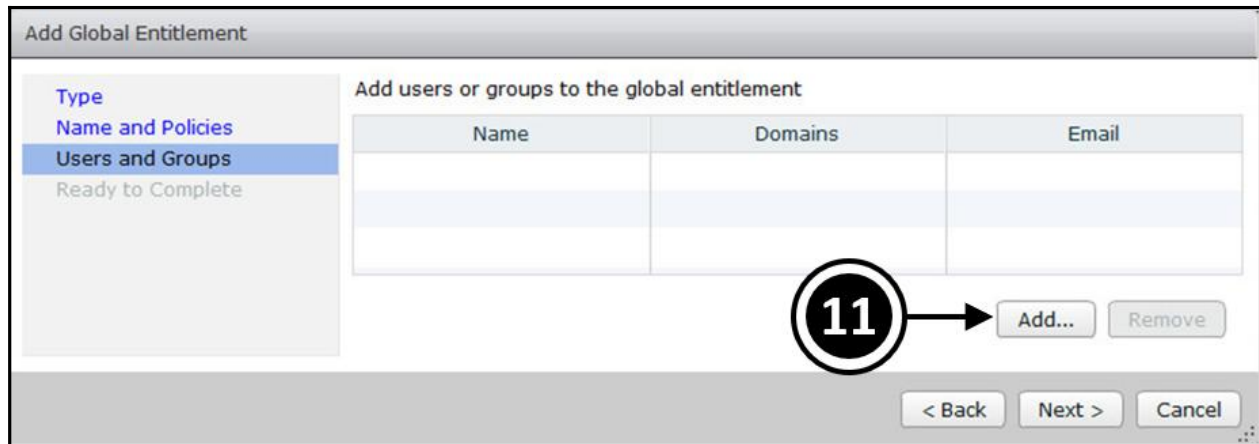
**Global Entitlements**

Add... Edit...

Filter Find Clear

Name	Type	Number of Users a...	Number of Pods	User Assignment
------	------	----------------------	----------------	-----------------





Add Global Entitlement

Type

Name and Policies

**Users and Groups**

Ready to Complete

Add users or groups to the global entitlement

Name	Domains	Email
pvolab.com\powens	pvolab.com	peter.owens@pvolab.com

Add Global Entitlement

Type

Name and Policies

Users and Groups

**Ready to Complete**

Ready to Complete

Name:	Global Desktop Pool
Policies:	Dedicated, All sites, Use Home Site, PCoIP, Allow users to choose protocol, HTML Access
Users and Groups:	pvolab.com\powens

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 16/12/2018 21:16

Sessions 0

Problem vCenter VMs 7

Problem RDS Hosts 2

Events 0

System Health 6 3 1 0

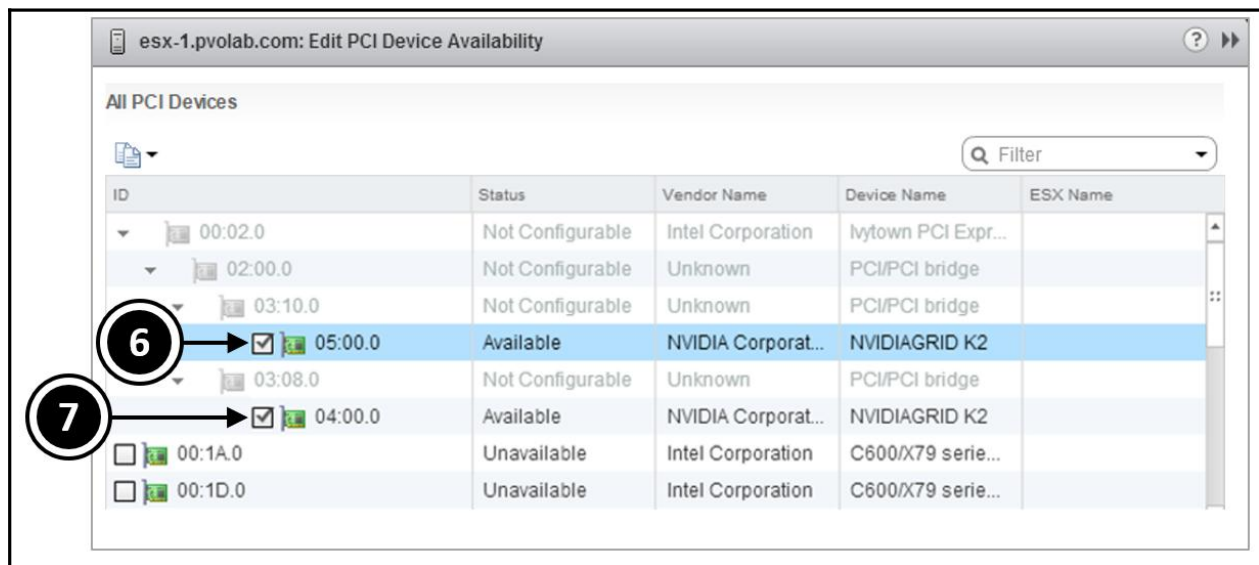
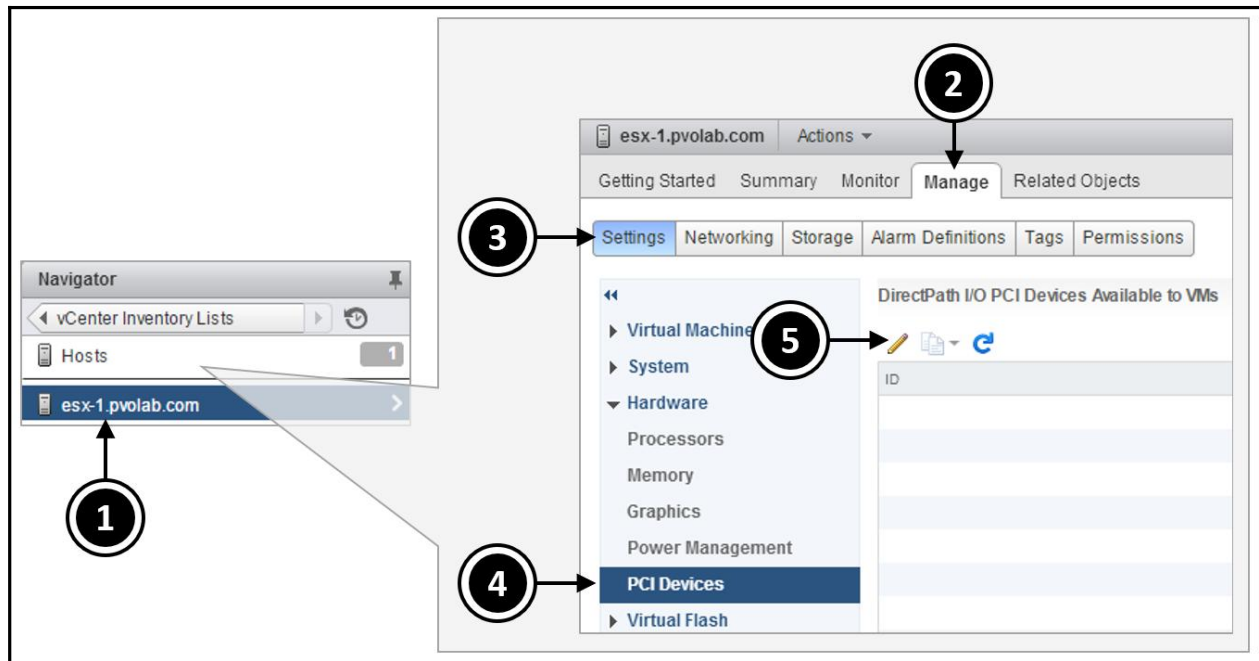
**Inventory**

- Dashboard
- Users and Groups
- Search Sessions
- ▼ Catalog
  - Desktop Pools
  - Application Pools
  - ThinApps
  - Global Entitlements**
- Resources
- Monitoring
- Policies
- View Configuration

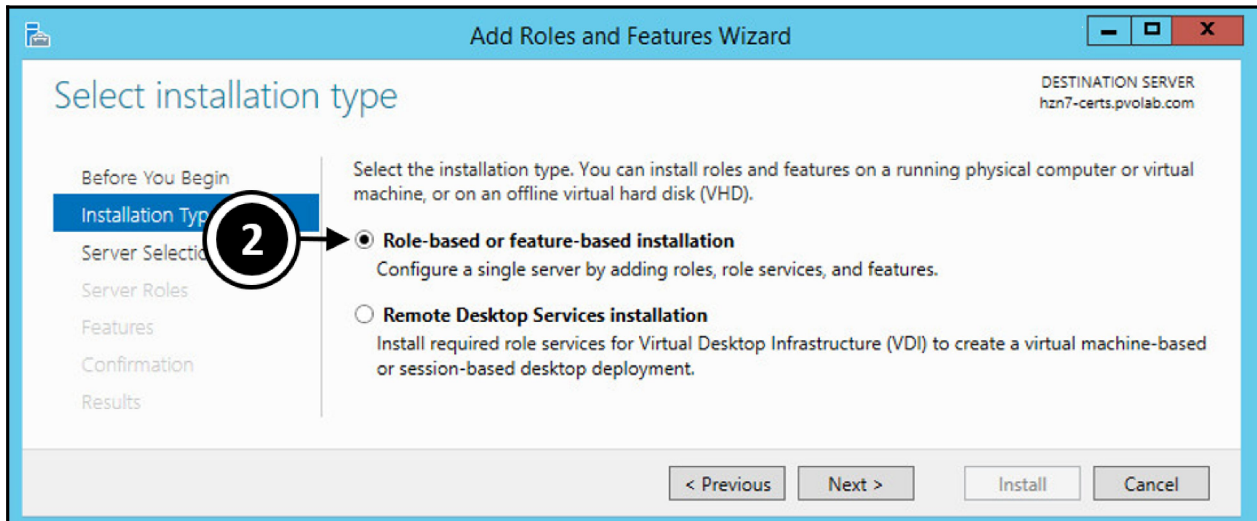
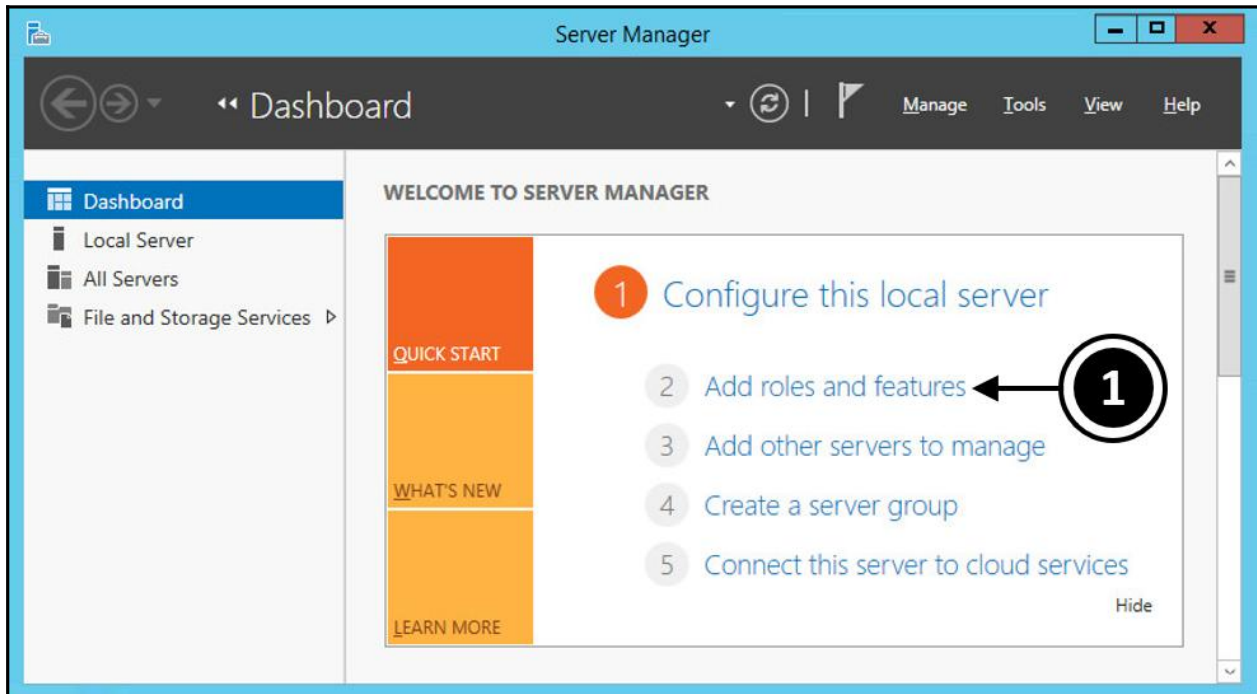
Global Entitlements

Filter

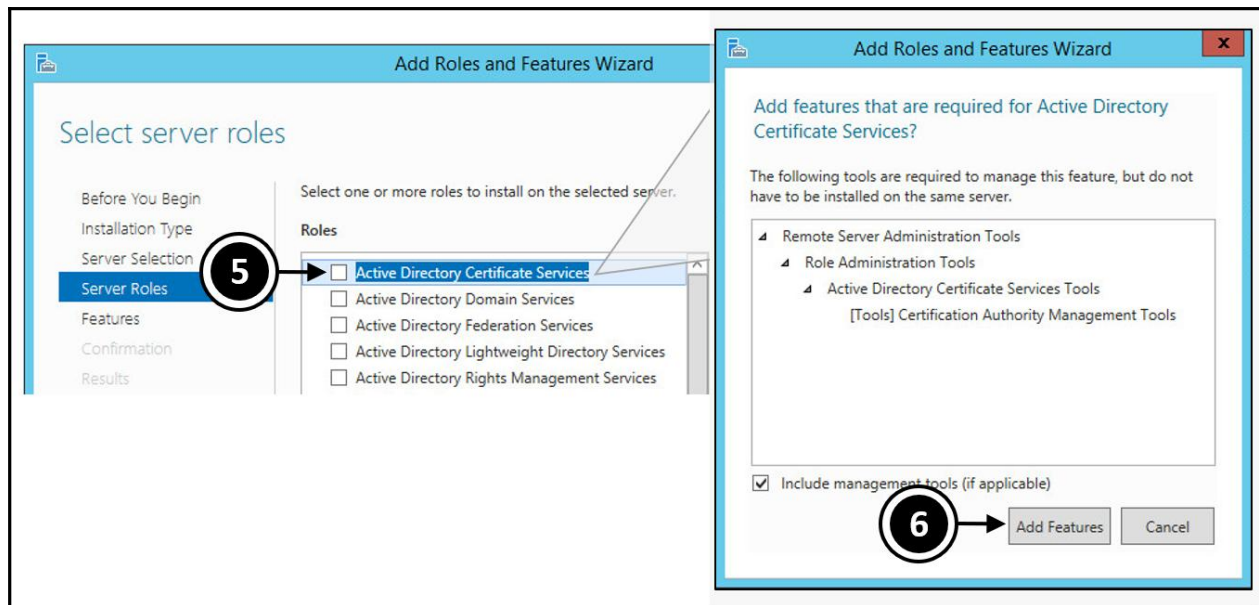
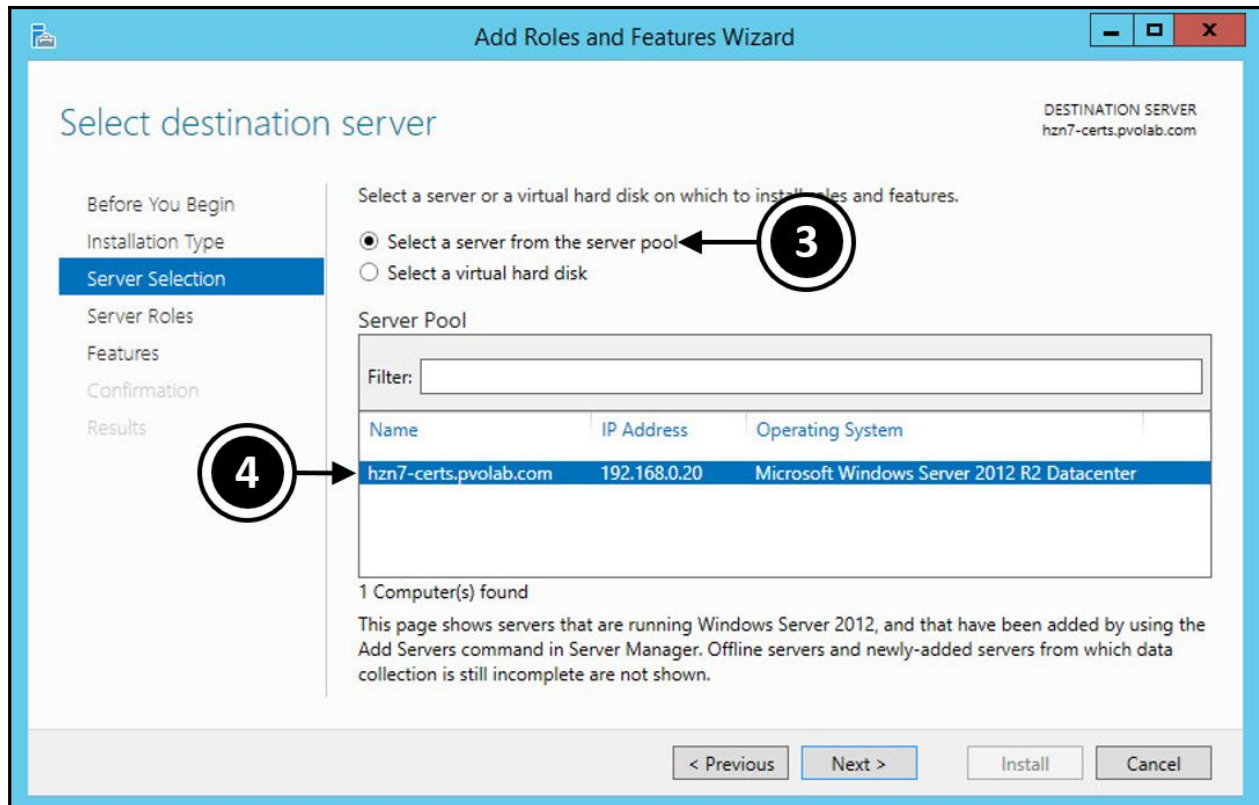
Name	Type	Number of Users and Gr...	Number of Pods	User Assignment
Global Desktop Pool	Desktop	1 User	0	Dedicated

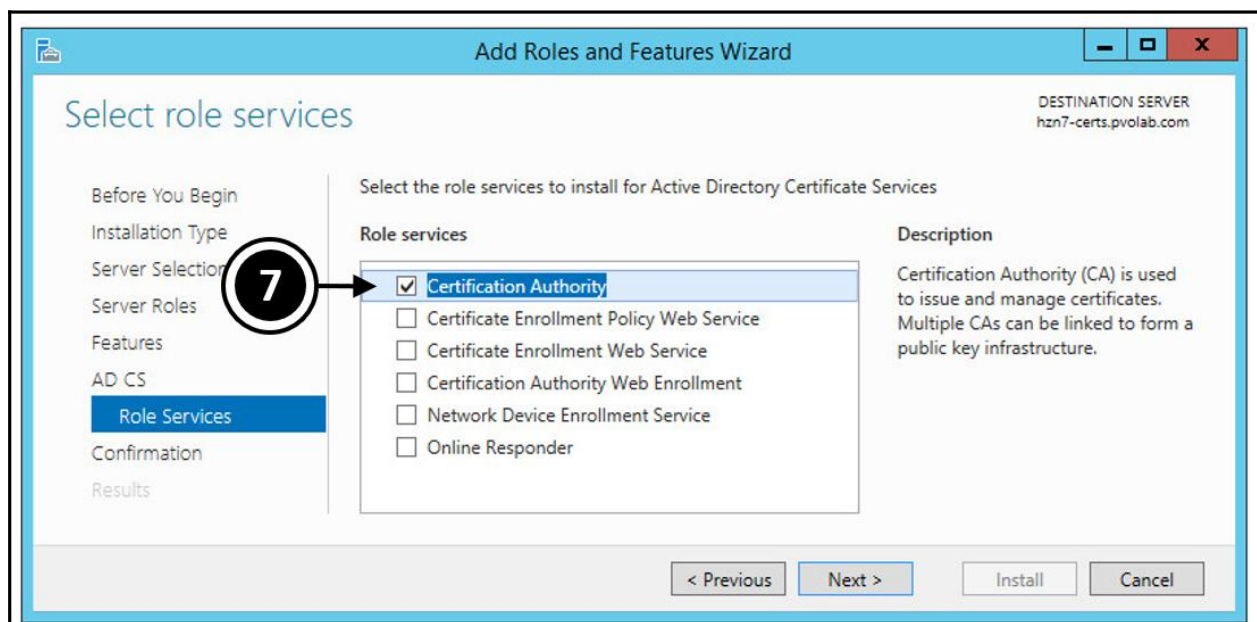


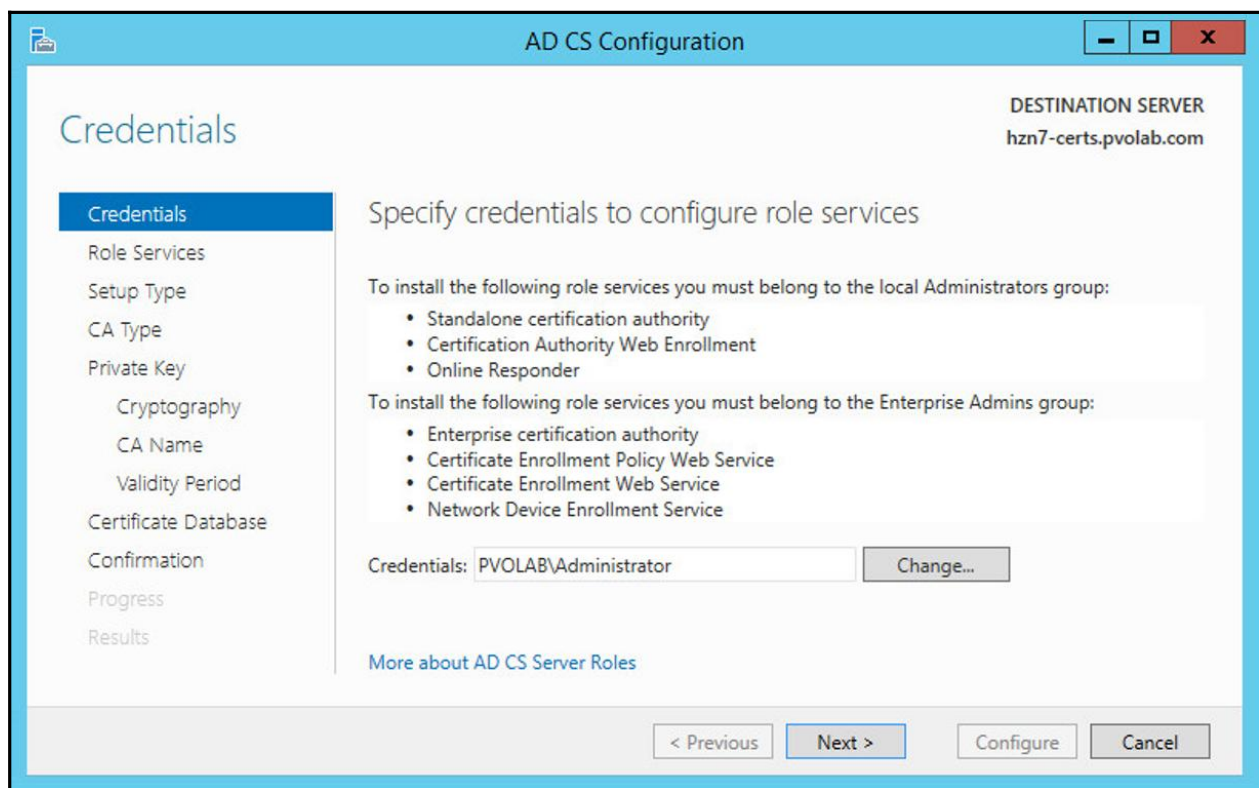
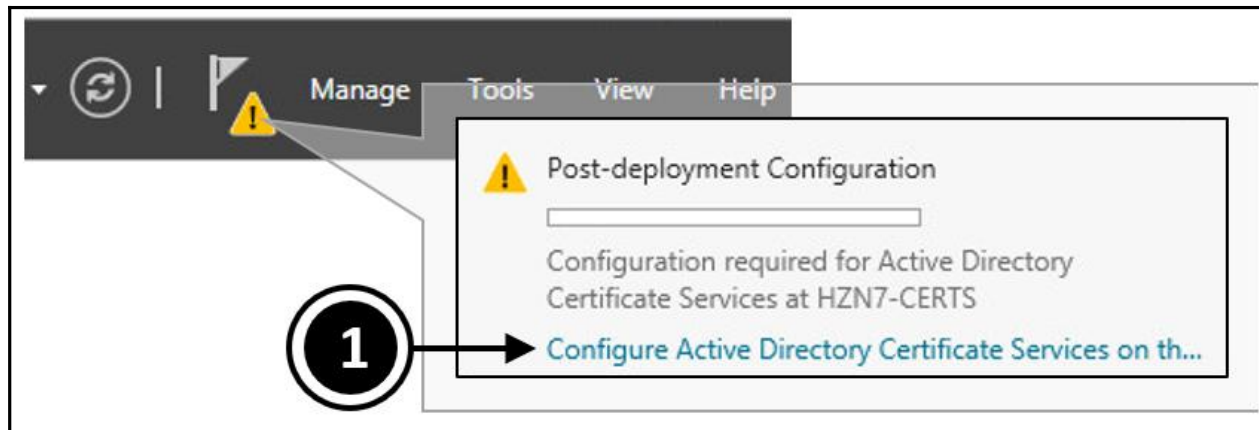
# Chapter 6: Securing Horizon View with SSL Certificates

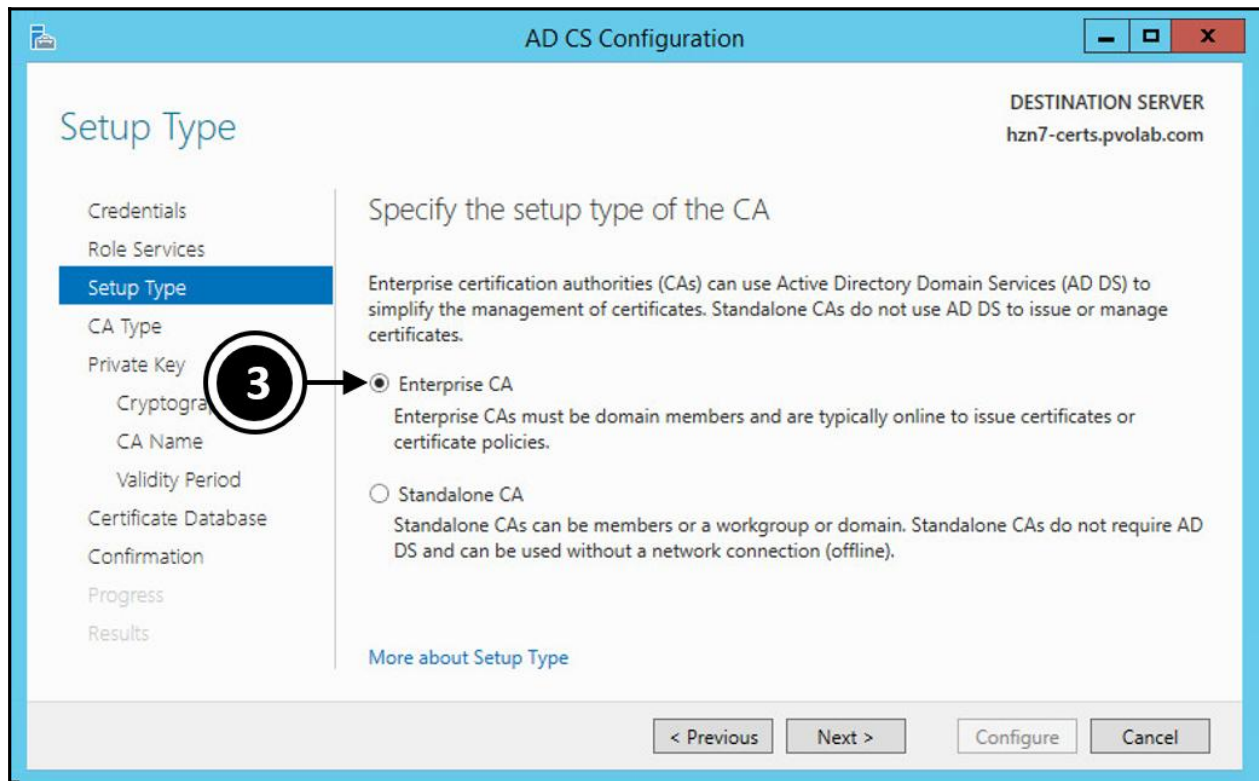
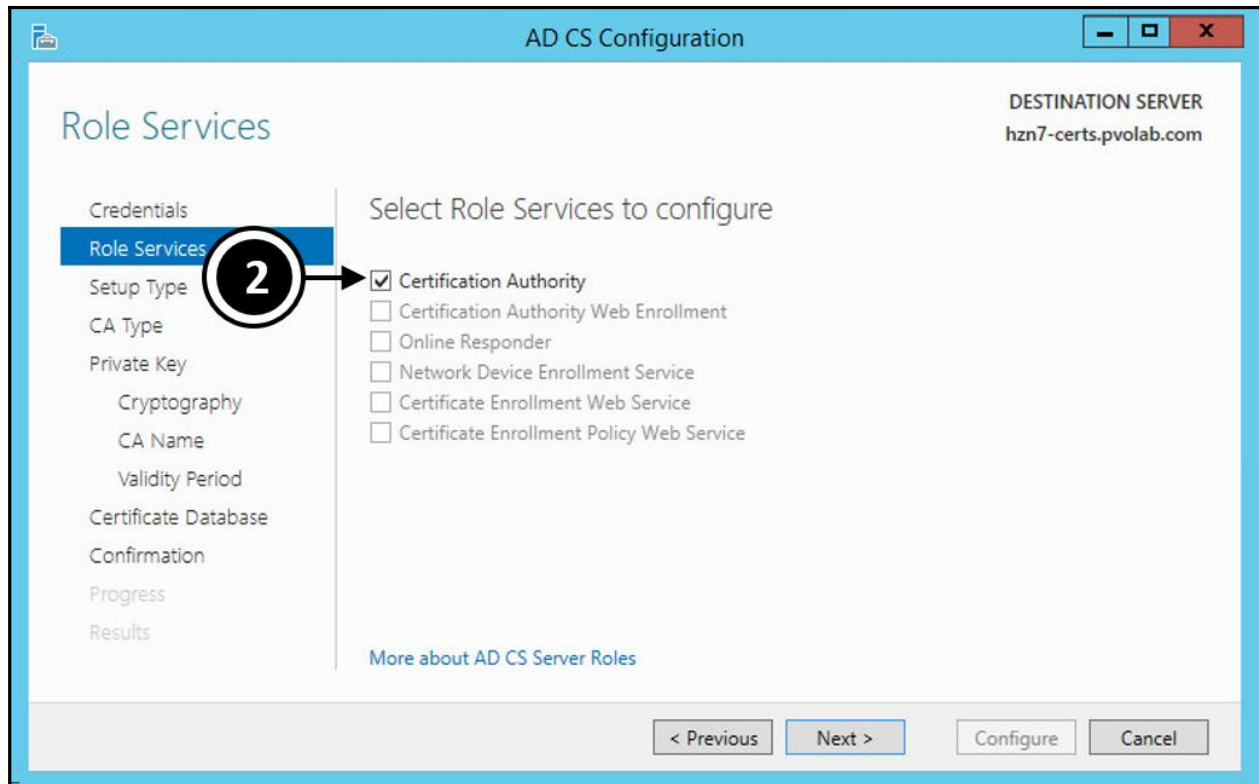


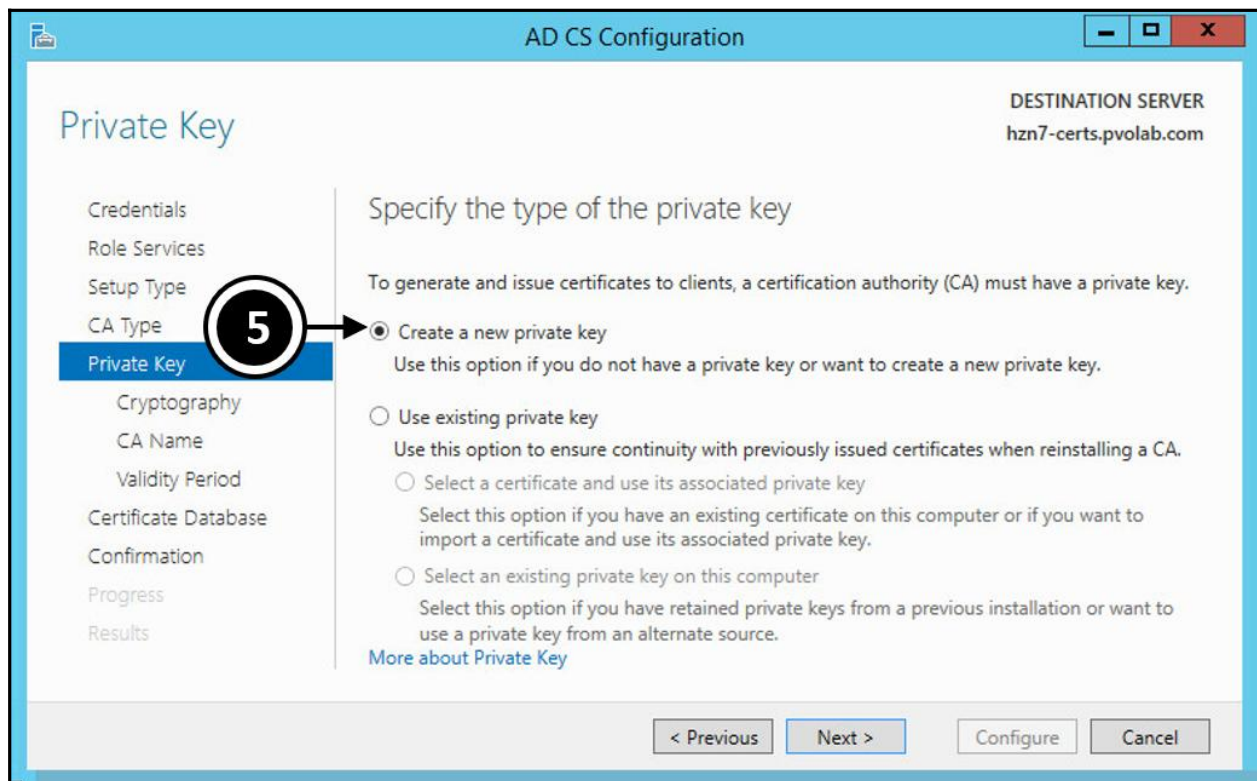
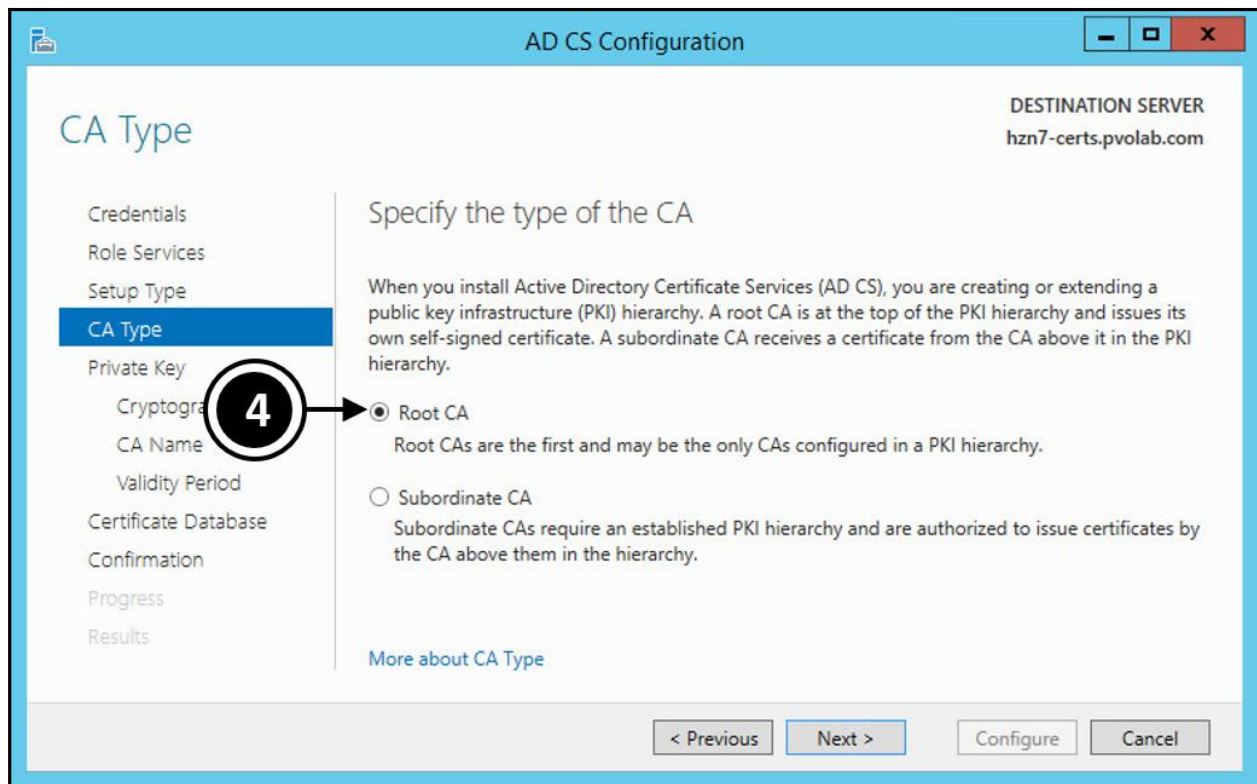


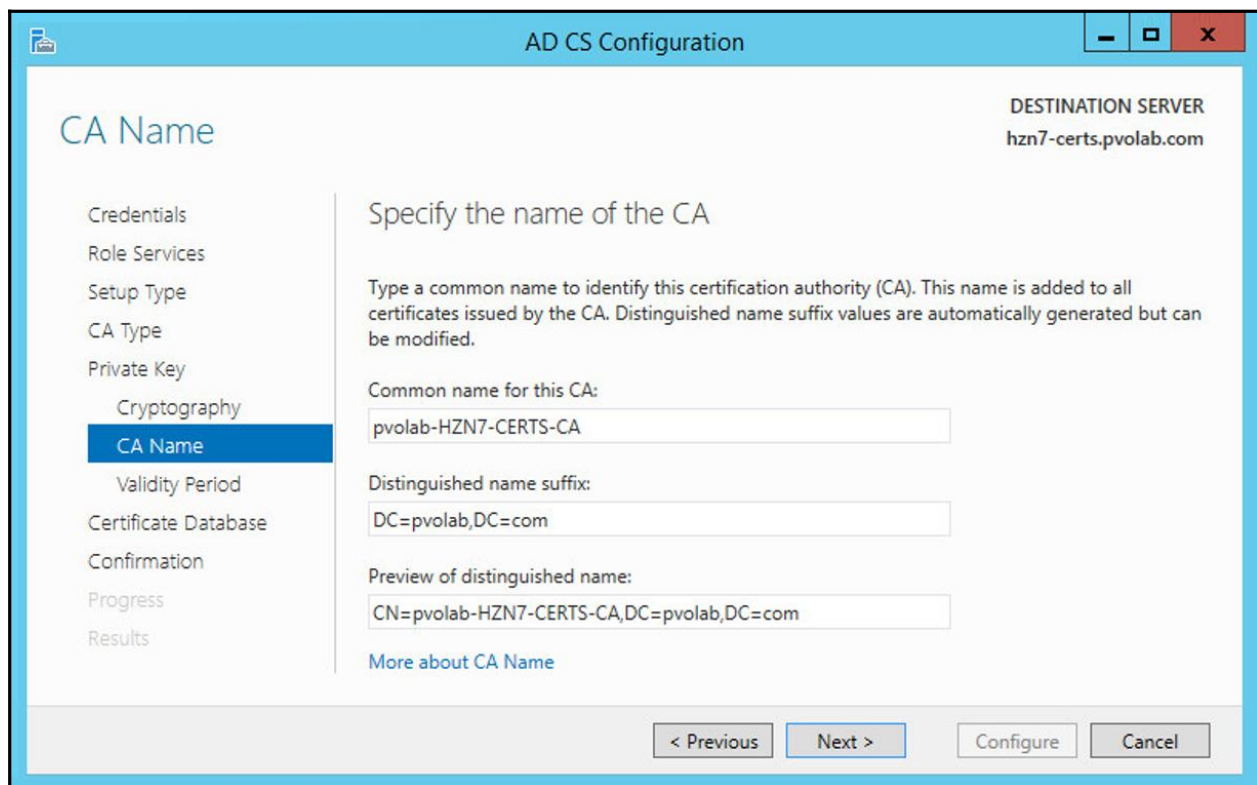
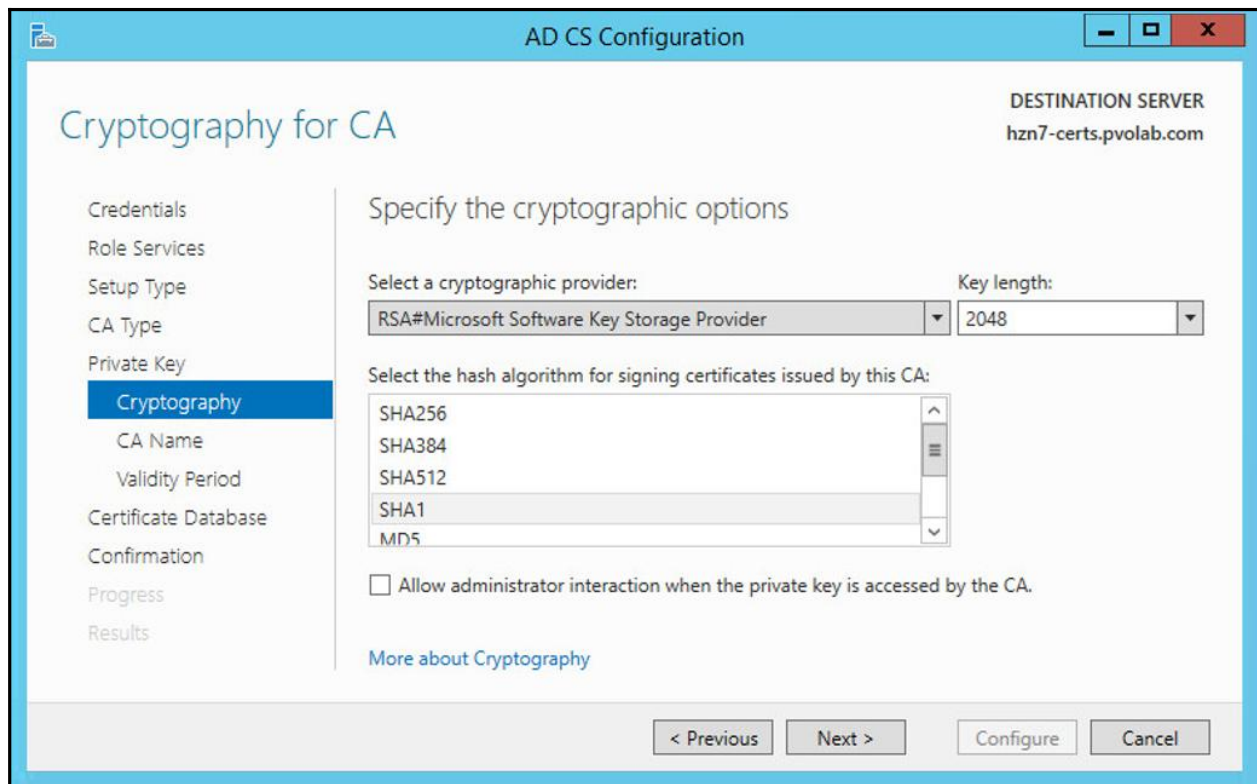


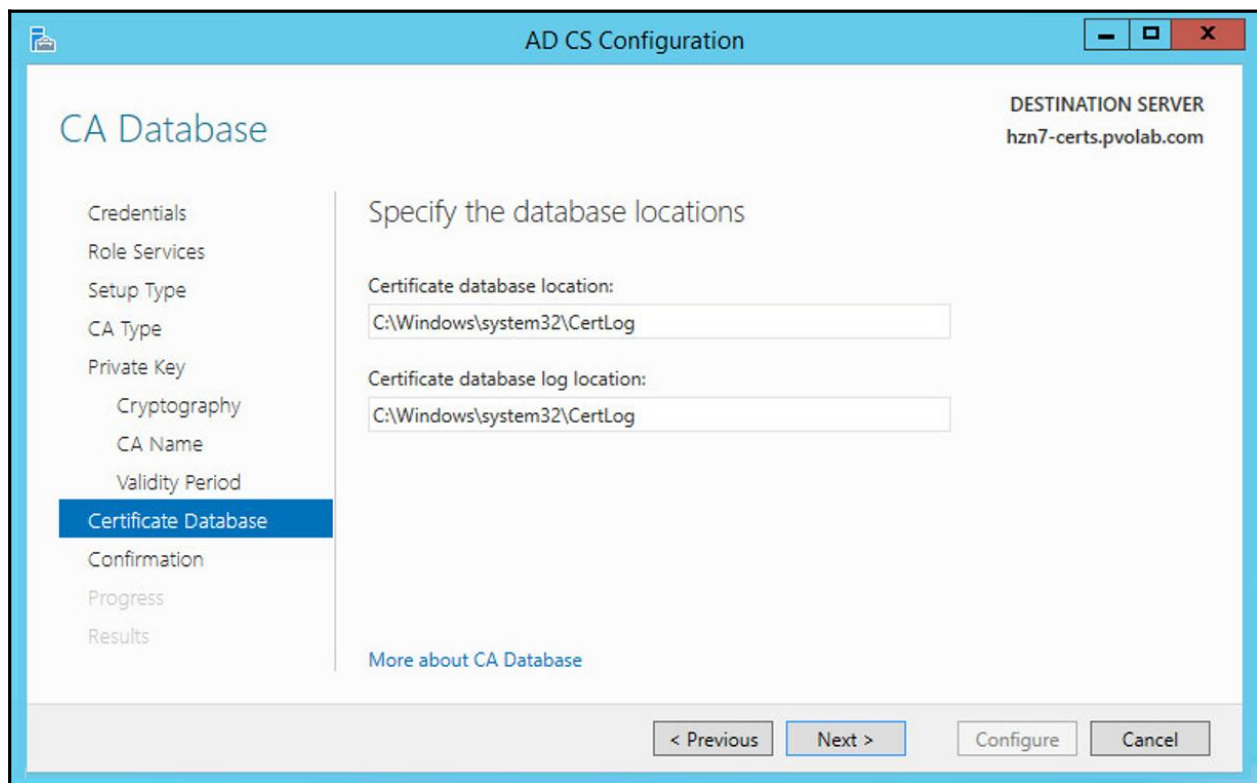
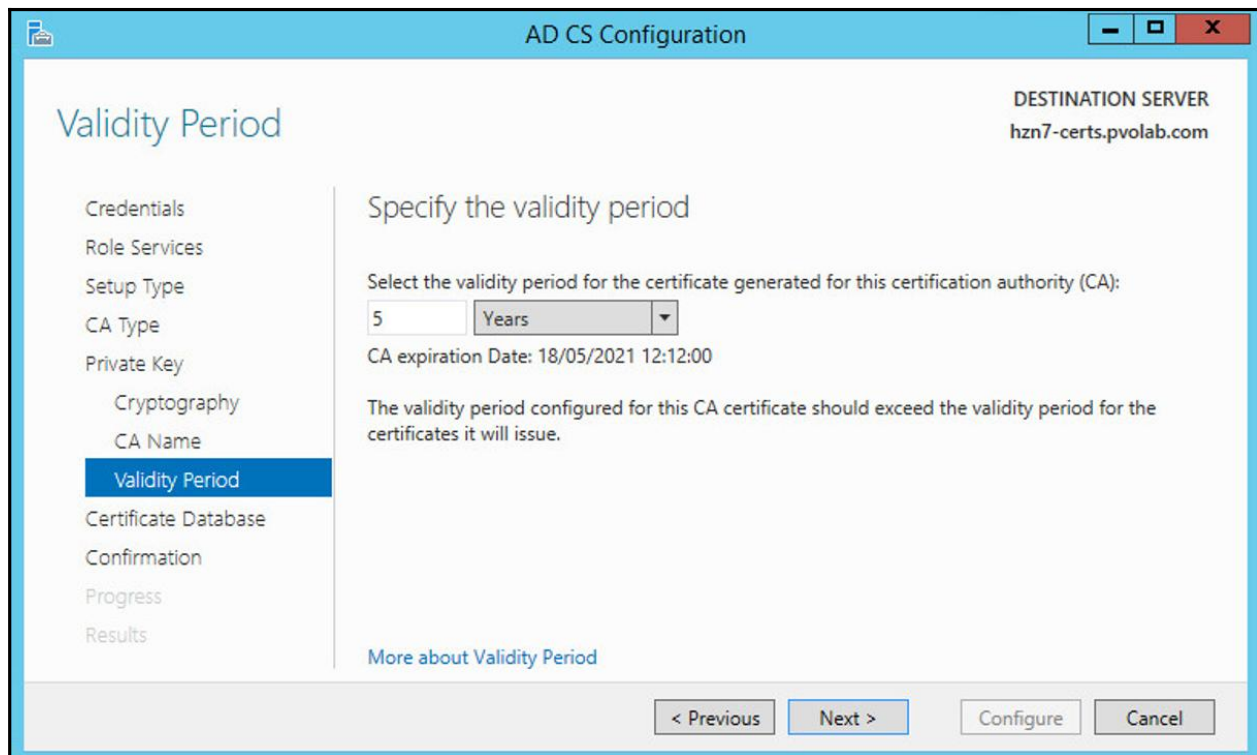


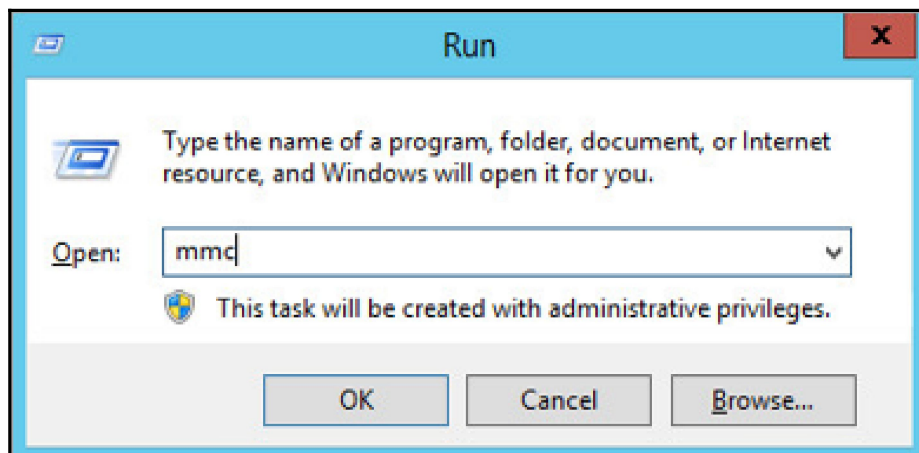
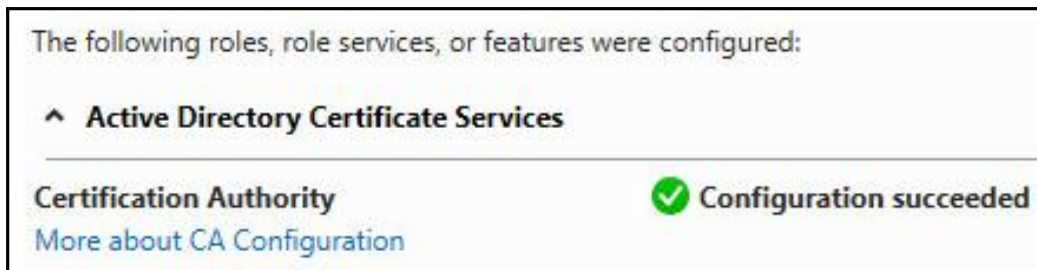
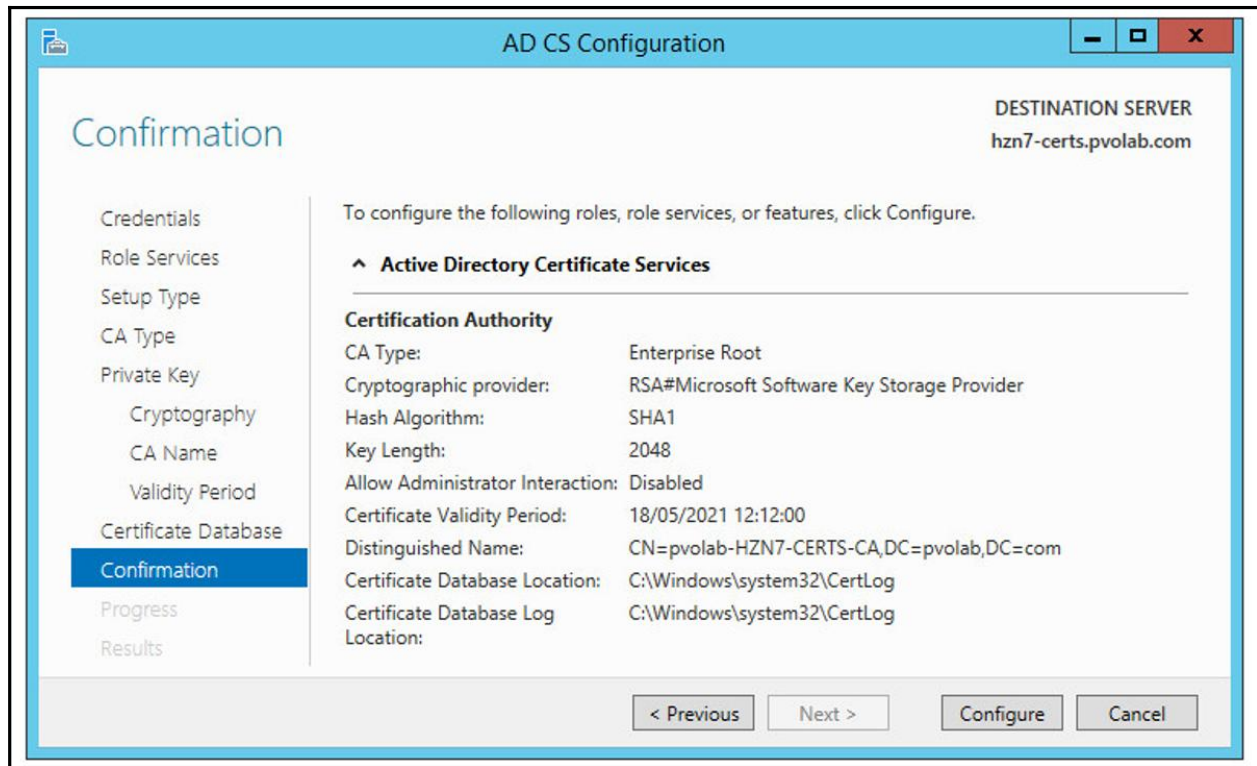




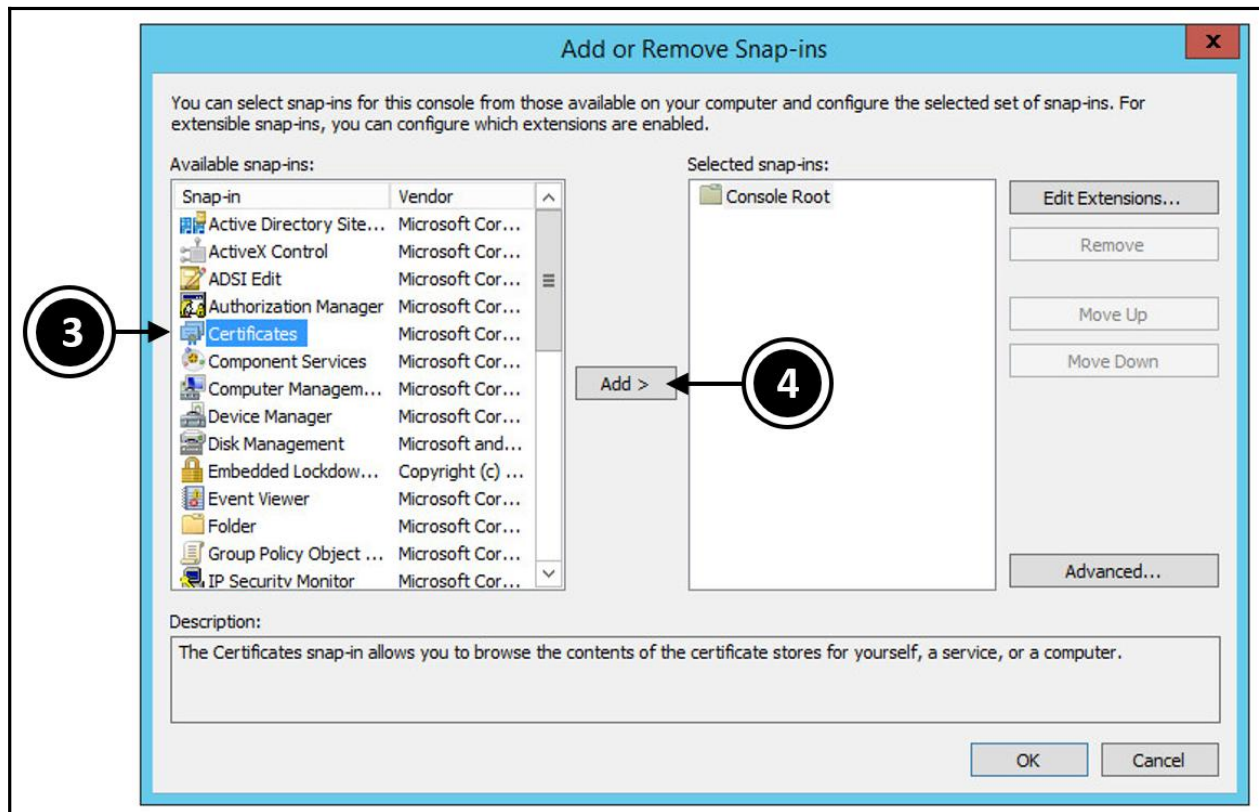
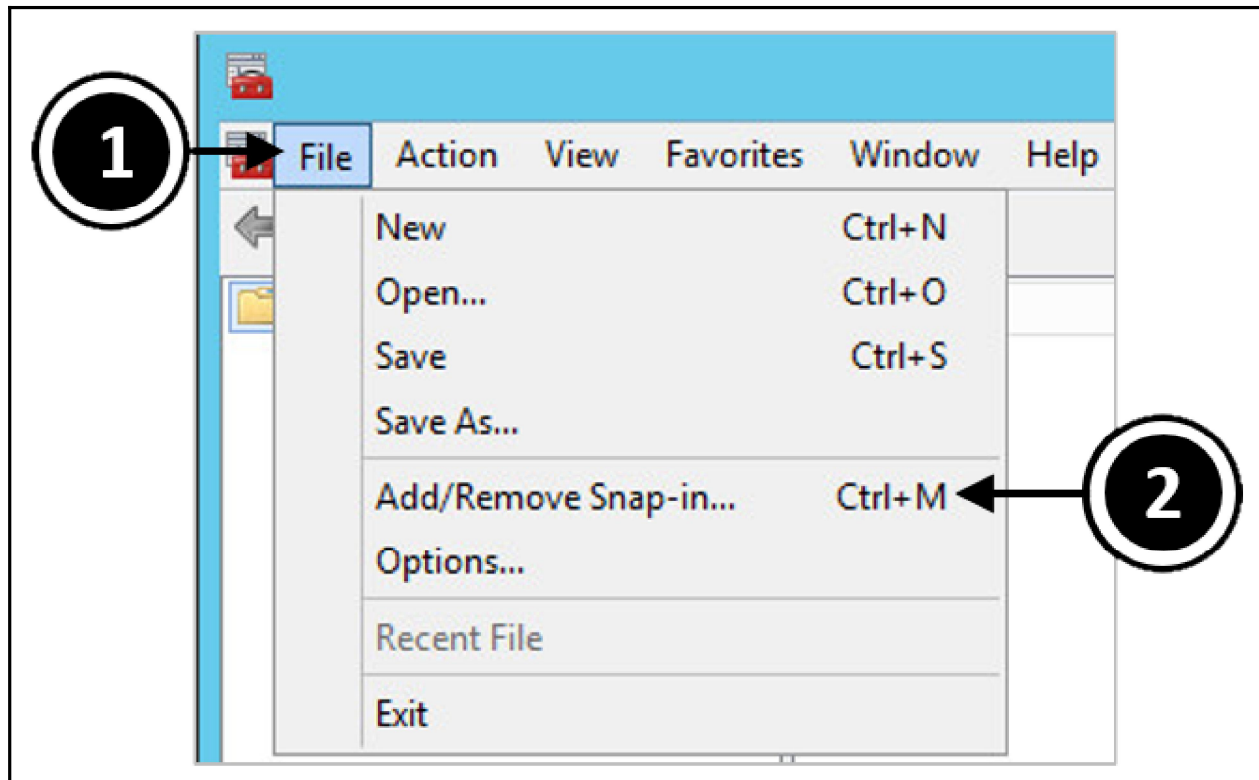


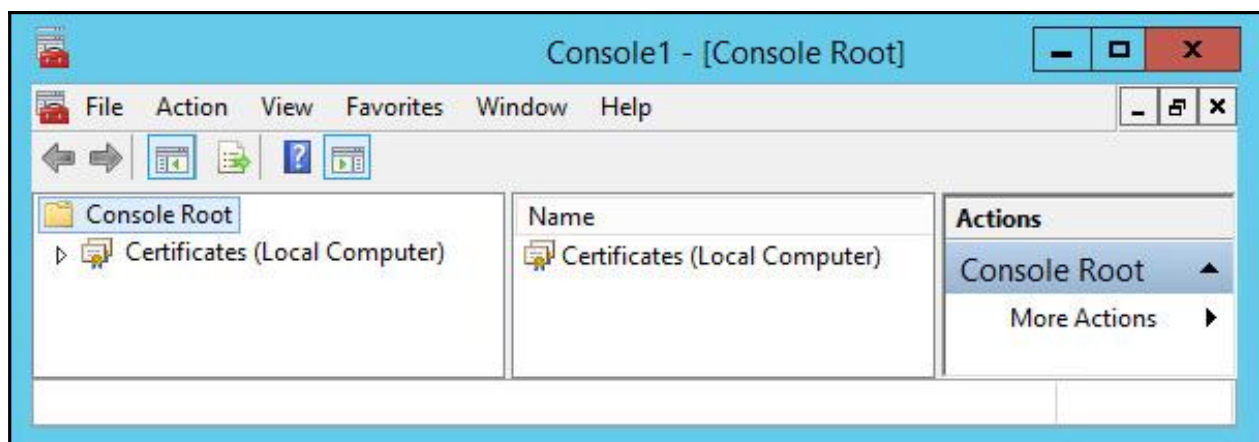
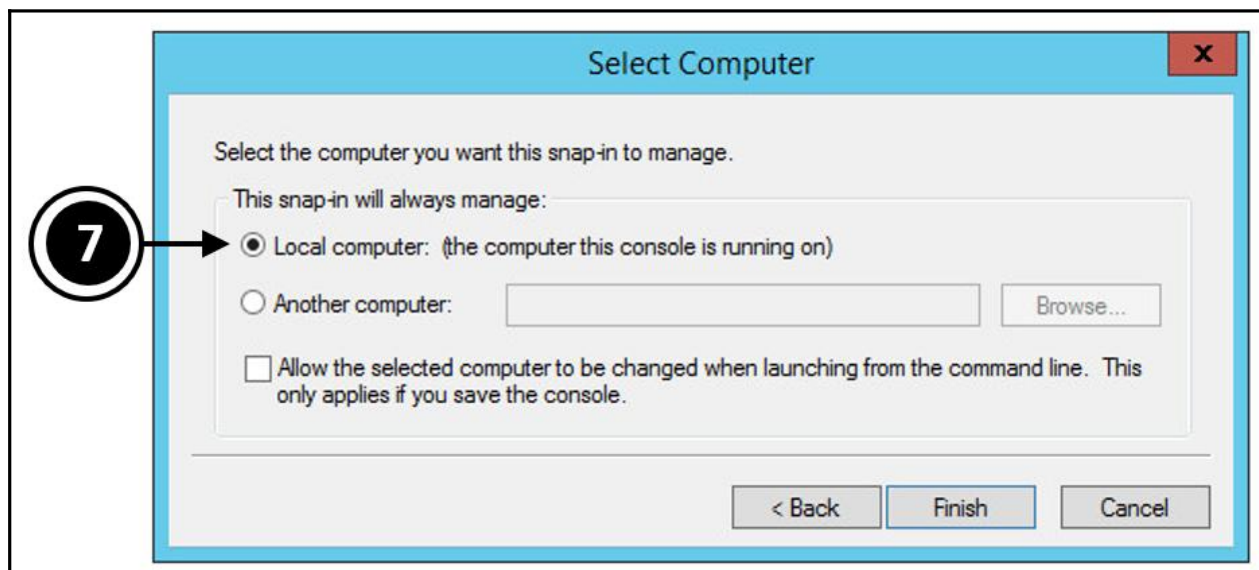
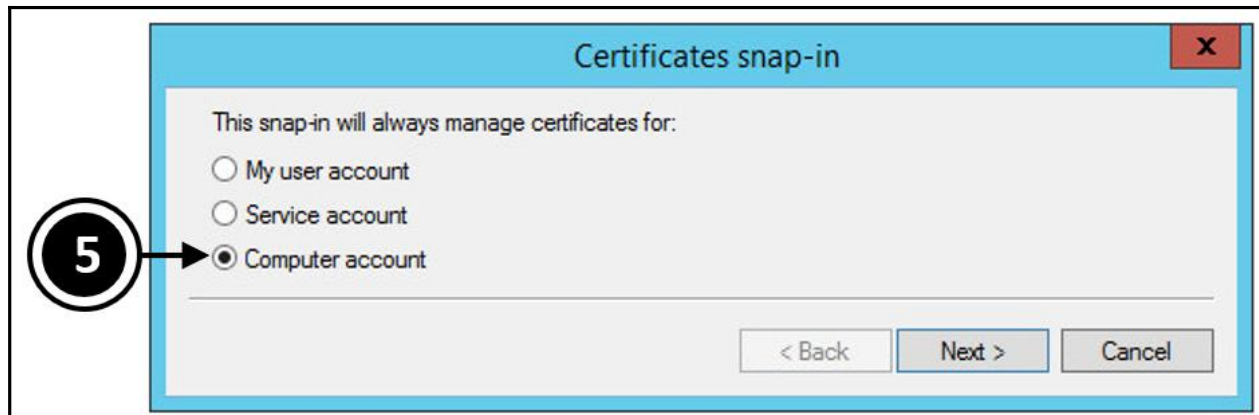


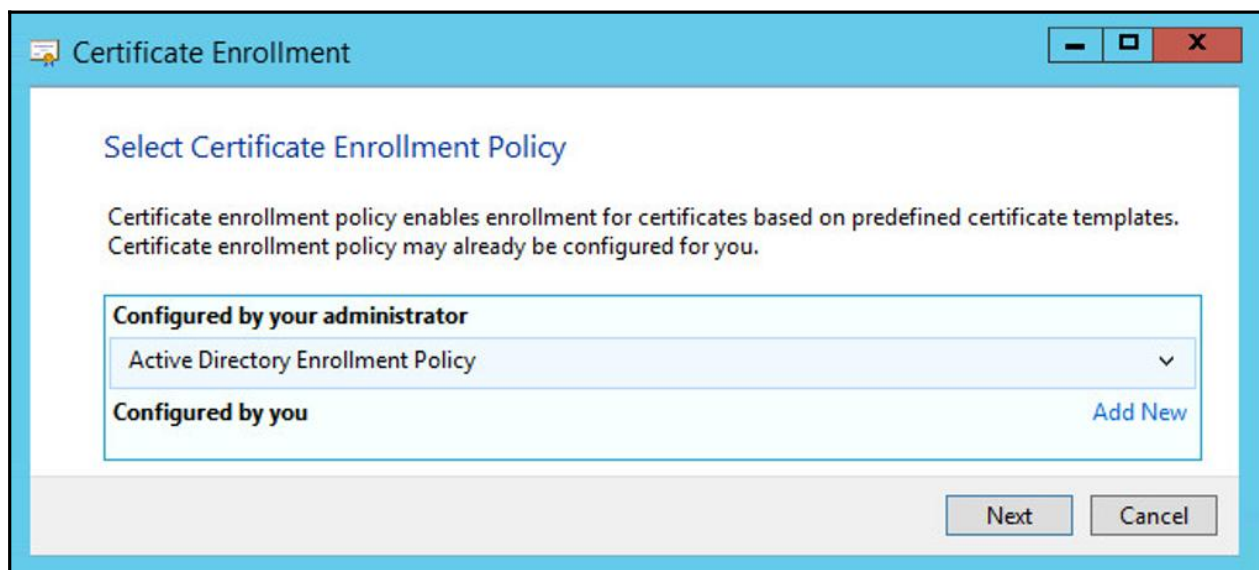
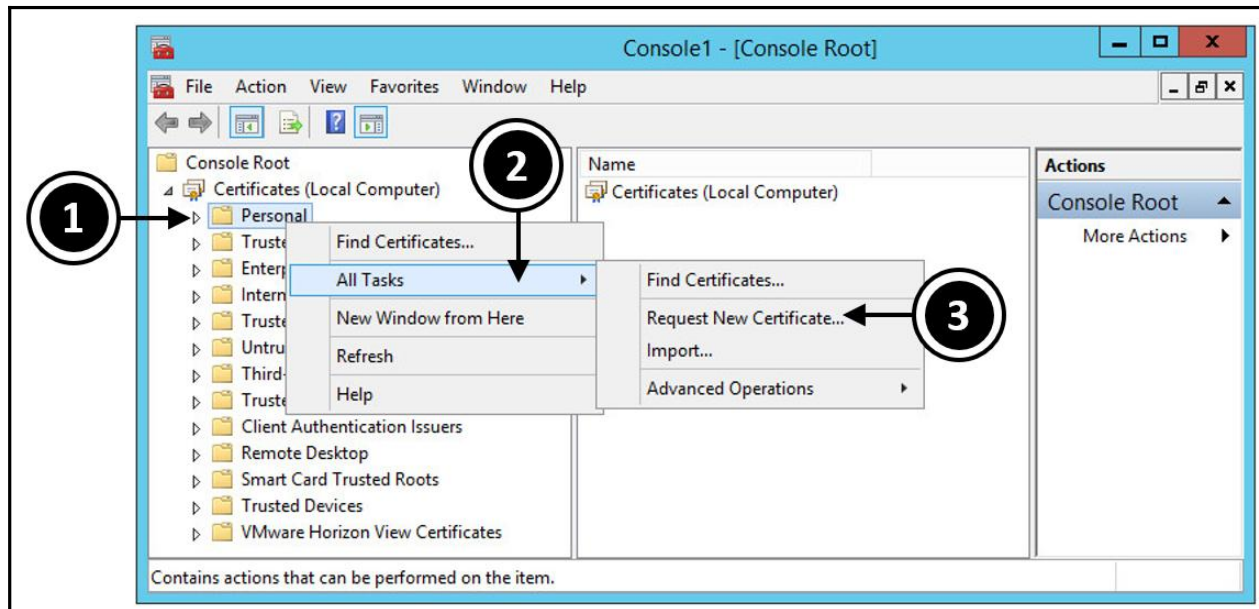


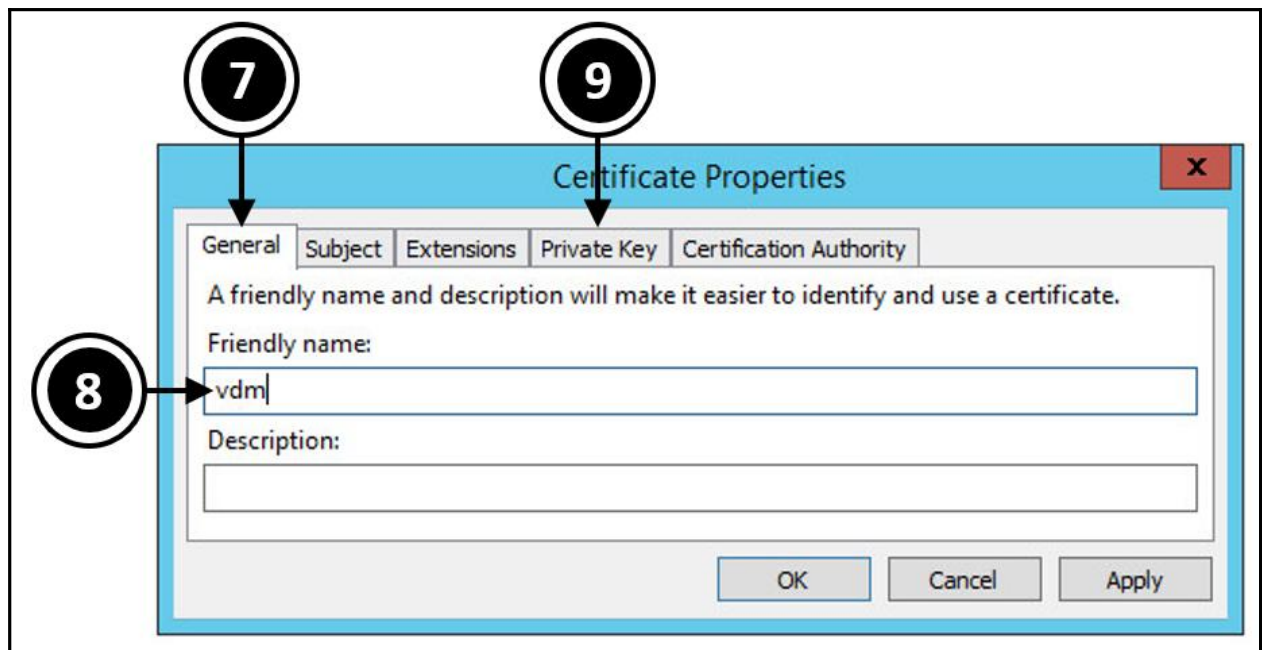
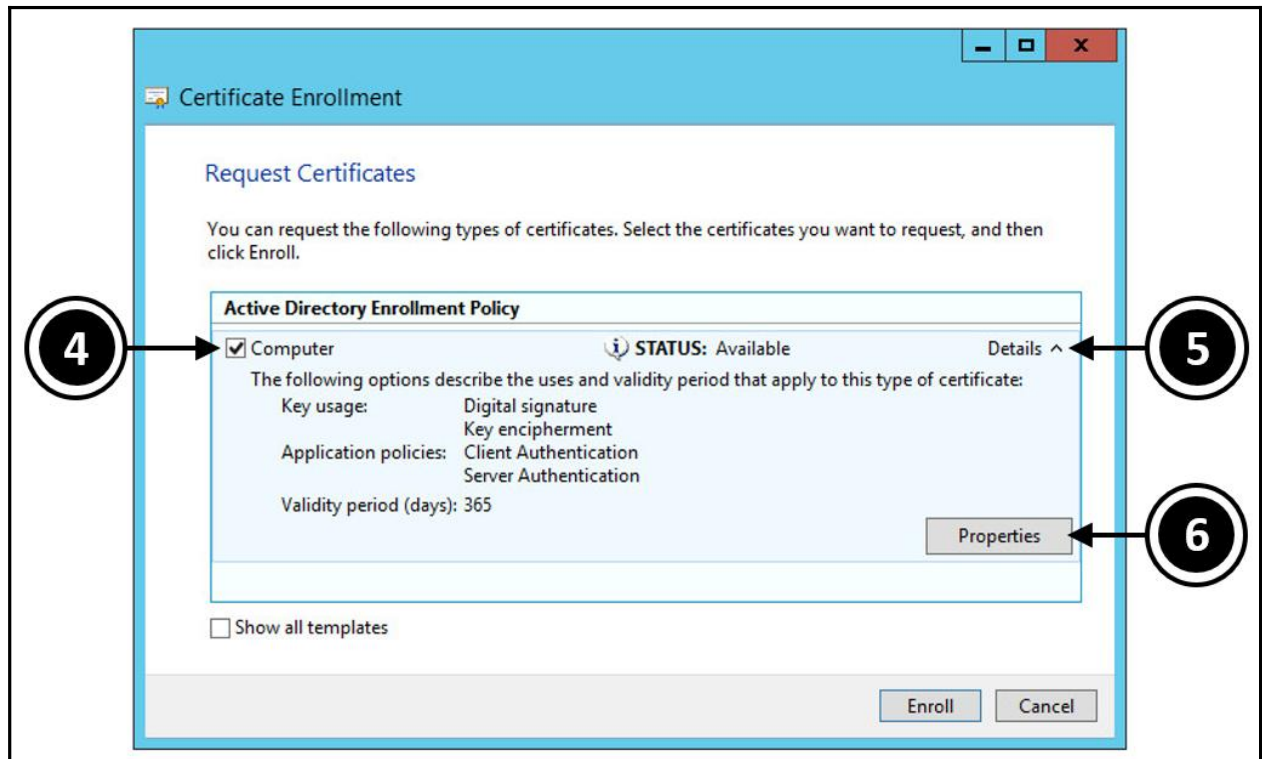


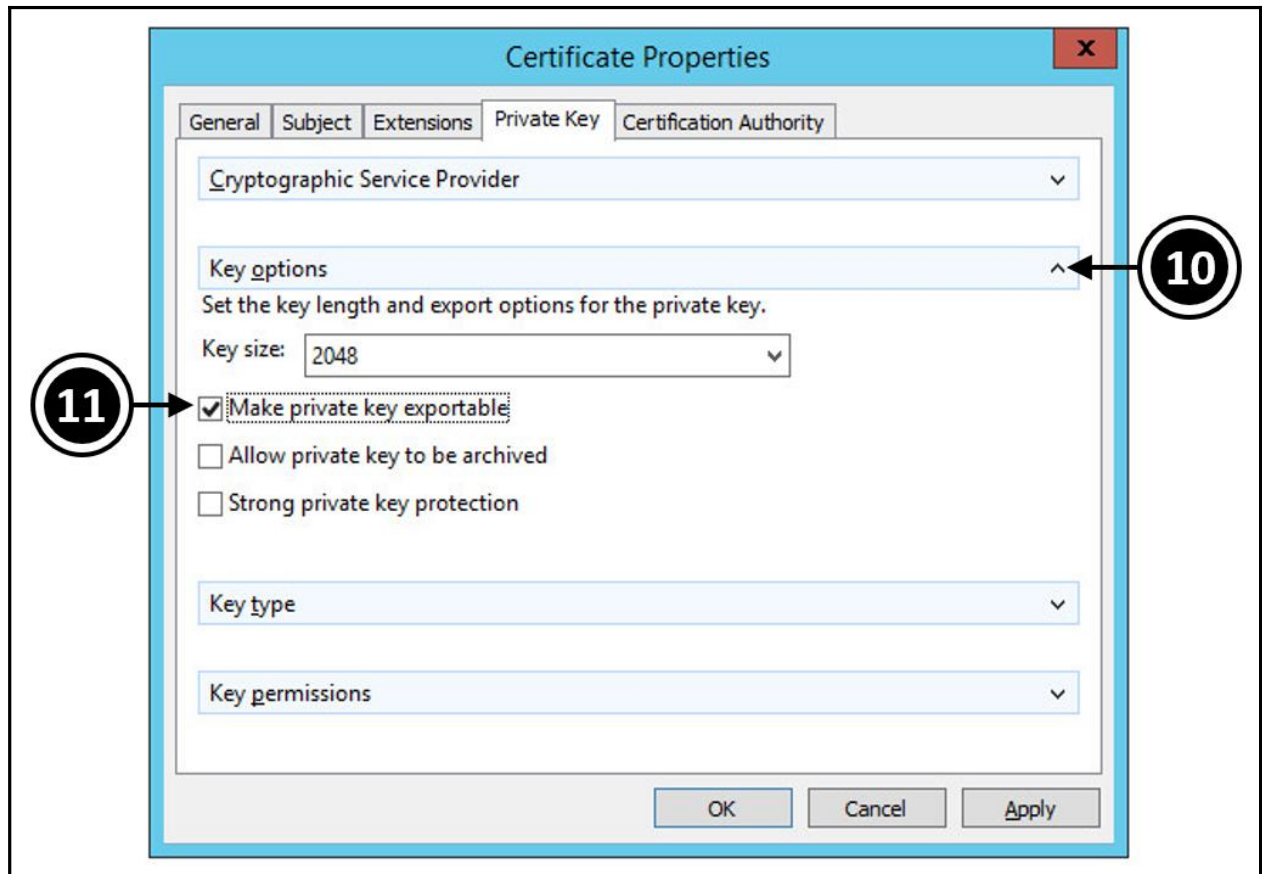


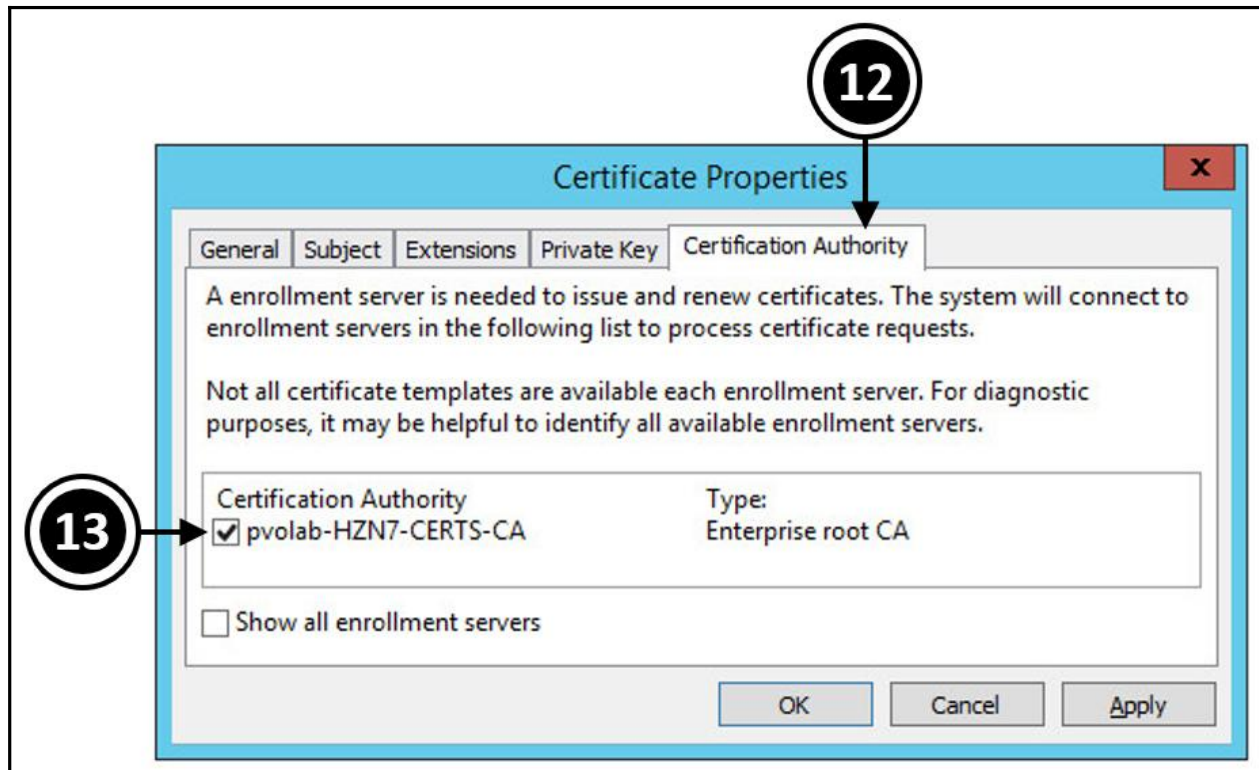


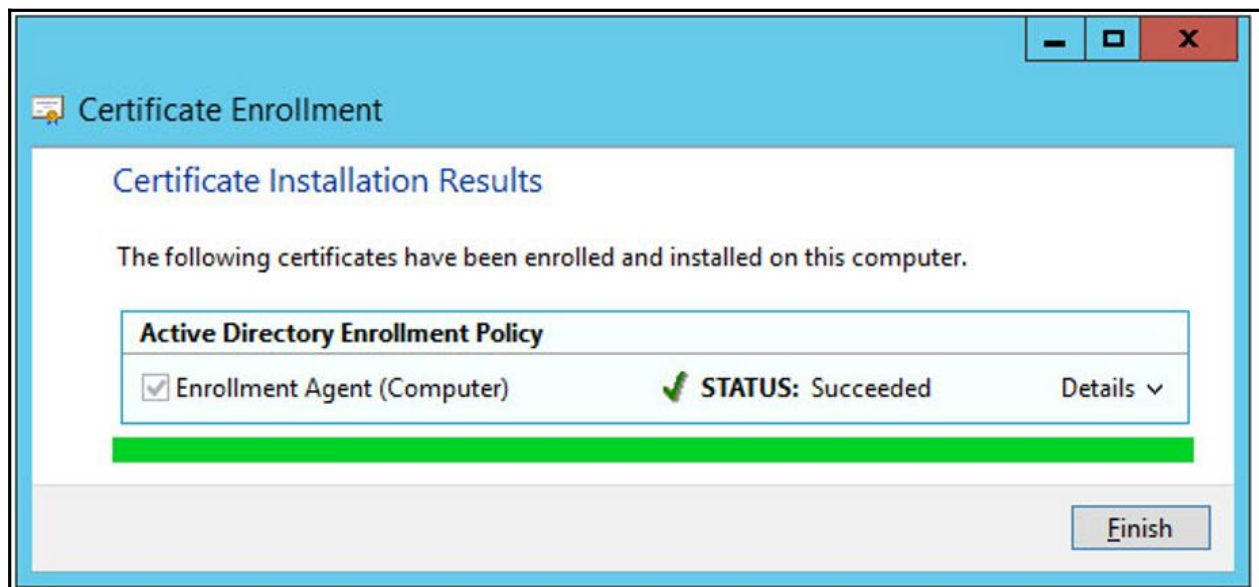
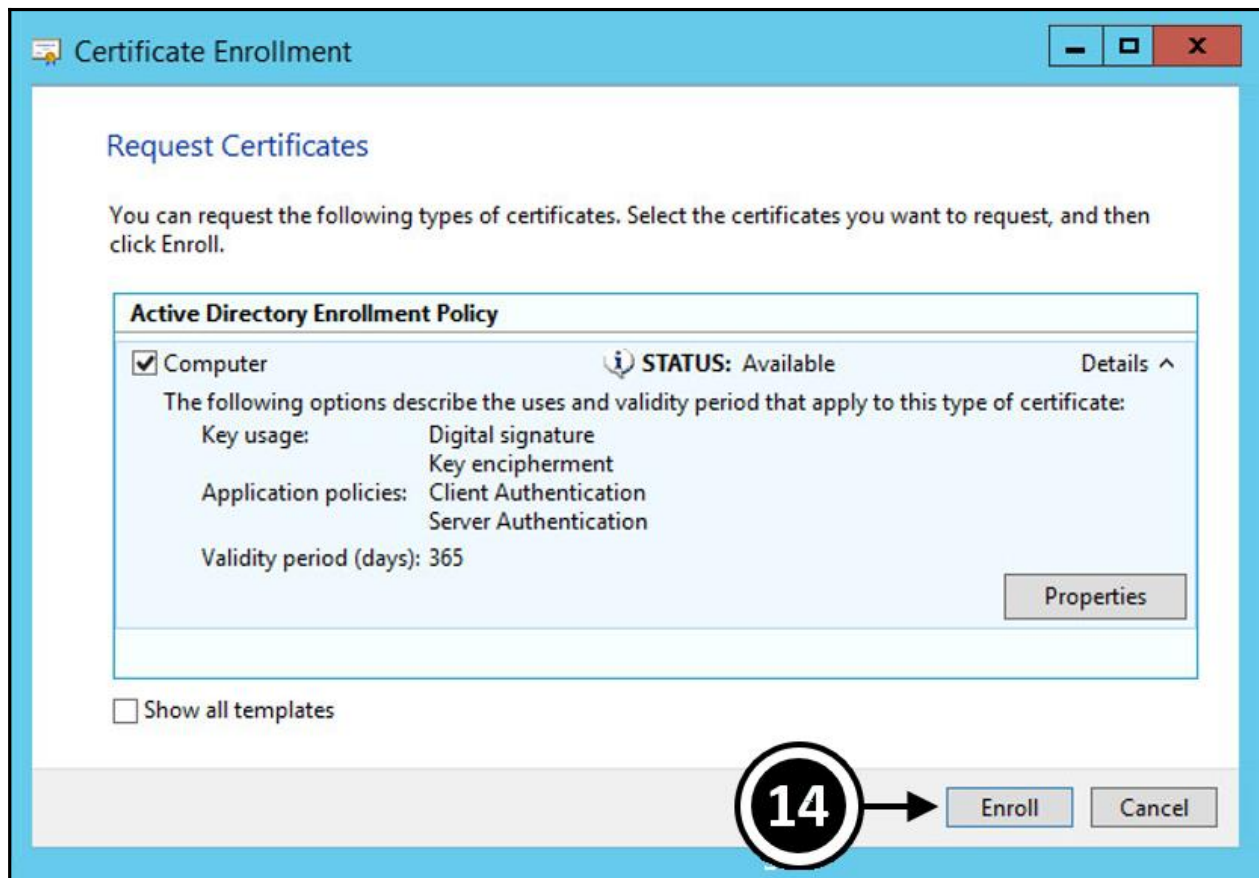














## There is a problem with this website's security certificate

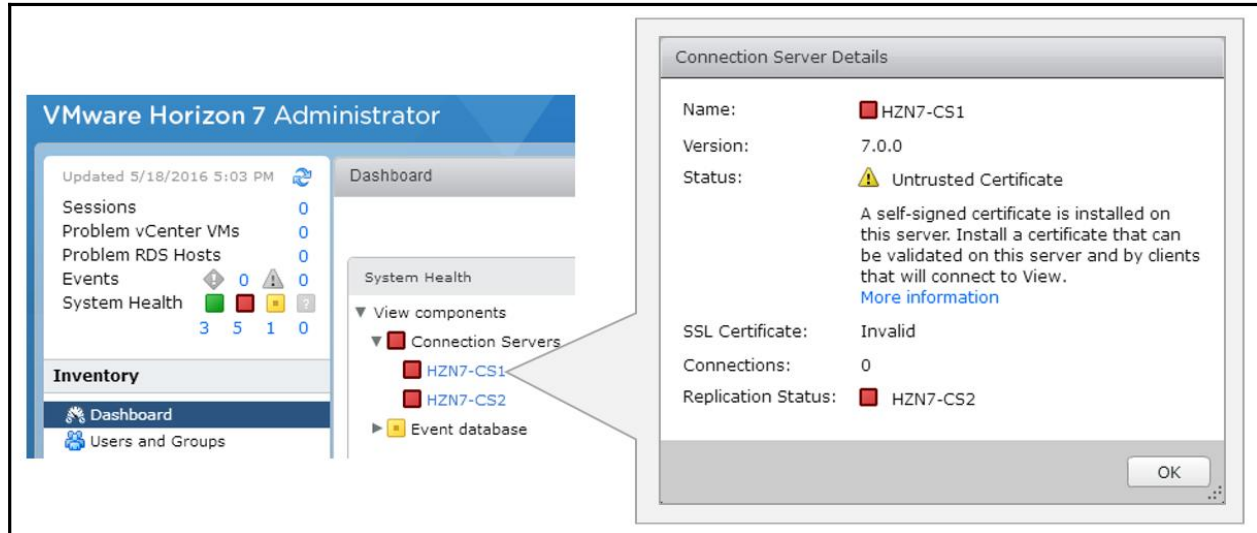
We recommend that you close this webpage and do not continue to this website.

The security certificate for this site doesn't match the site's web address and may indicate an attempt to fool you or intercept any data you send to the server.




 [Go to my homepage instead](#)

 [Continue to this webpage \(not recommended\)](#)

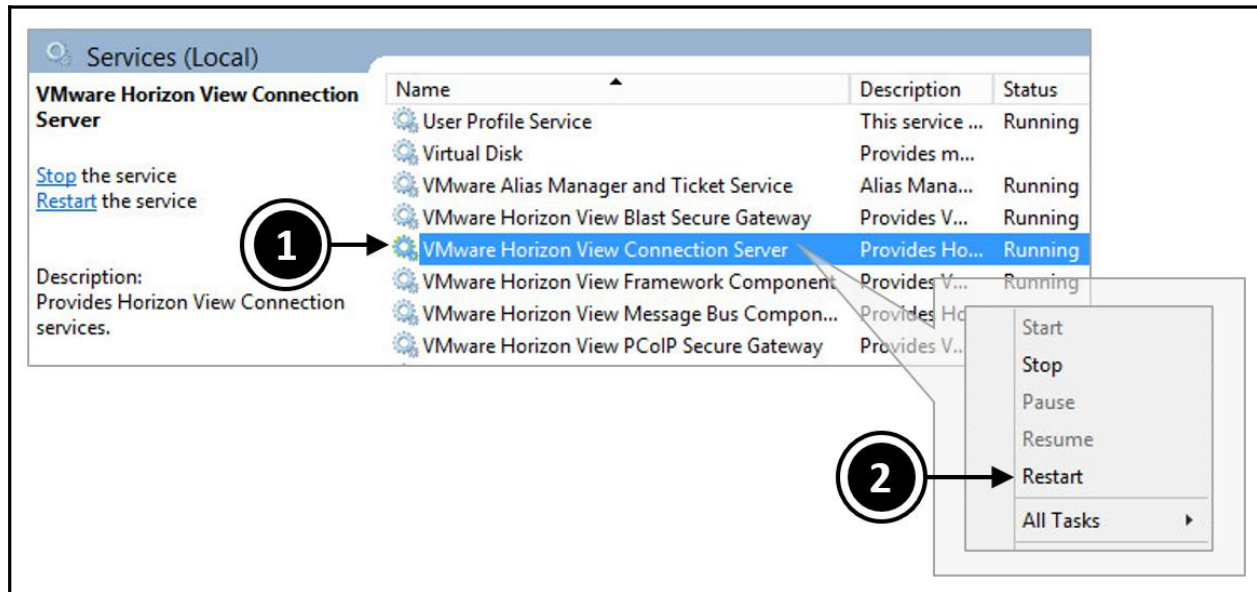
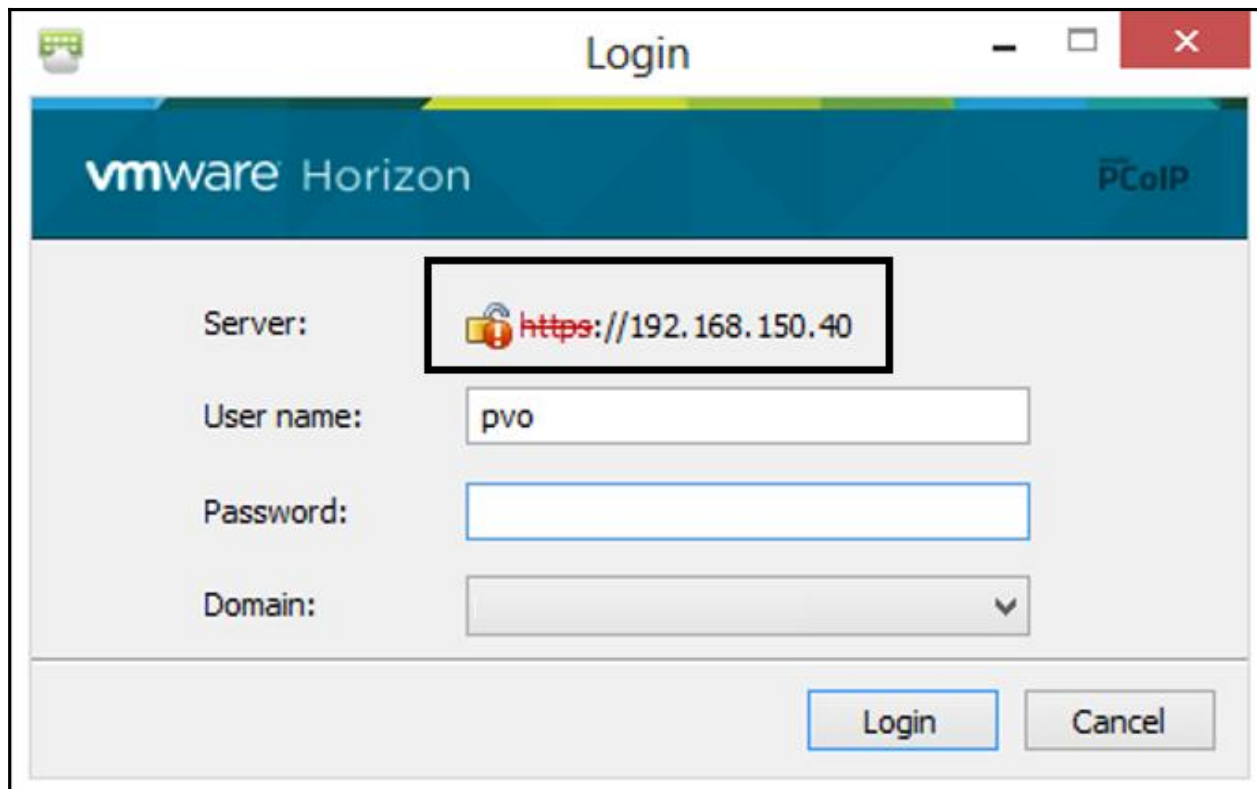
 **Certificate error** hzn7-cs1.pvolab.com/admin/#

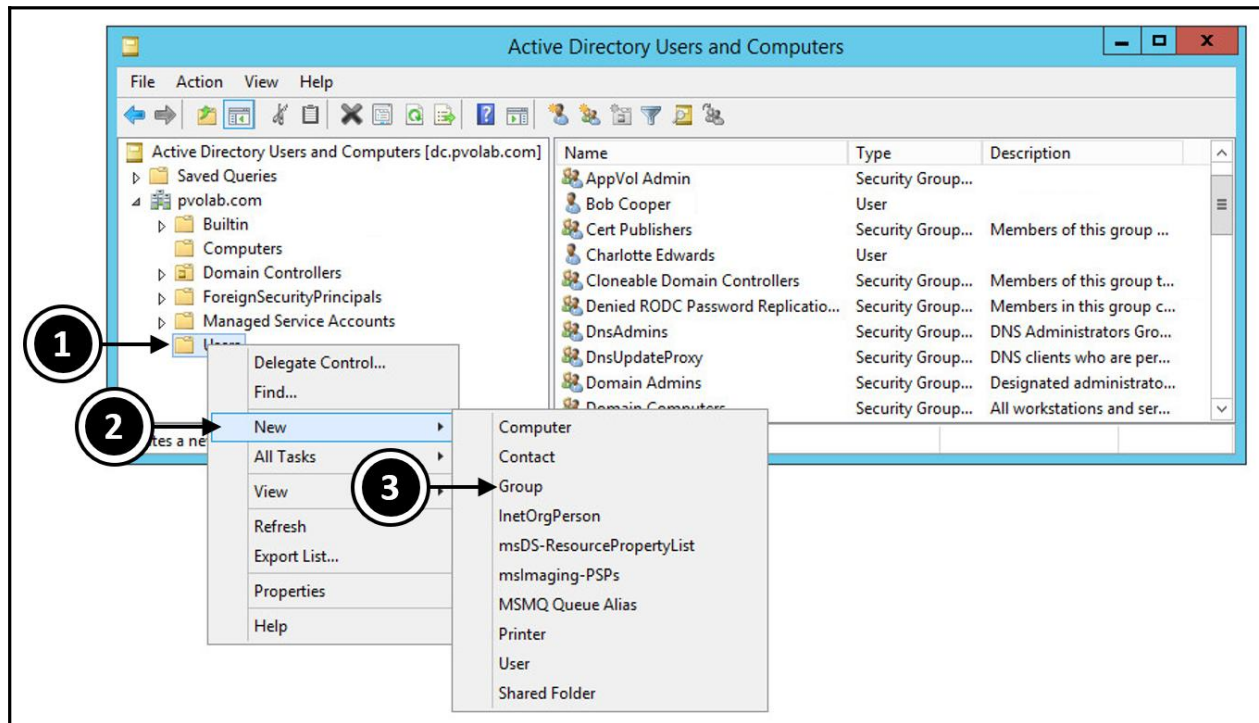
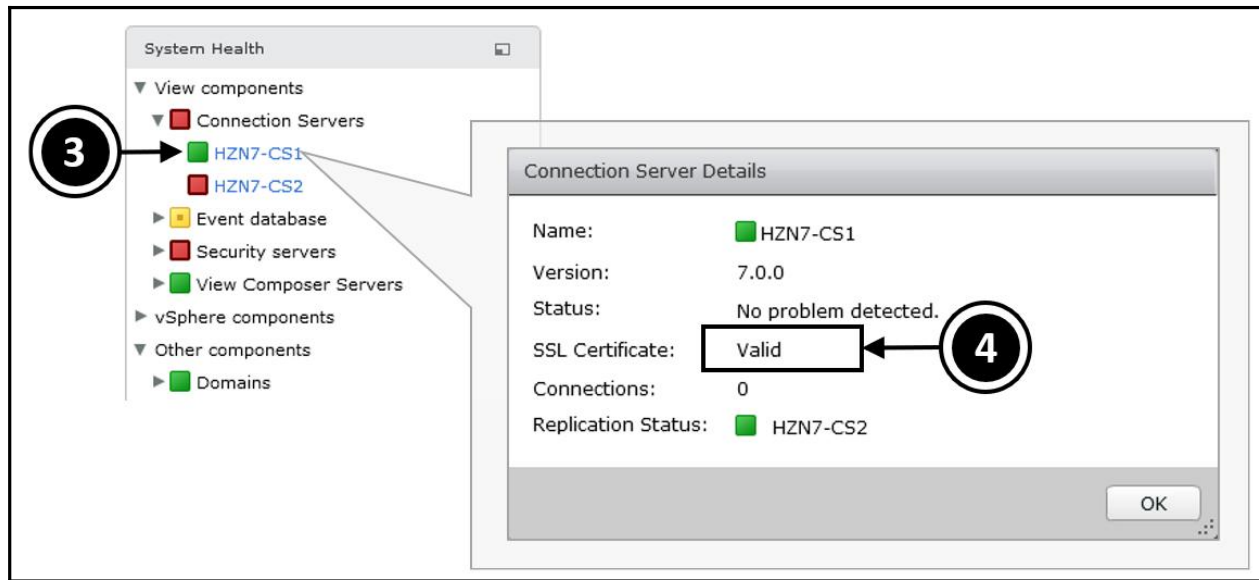


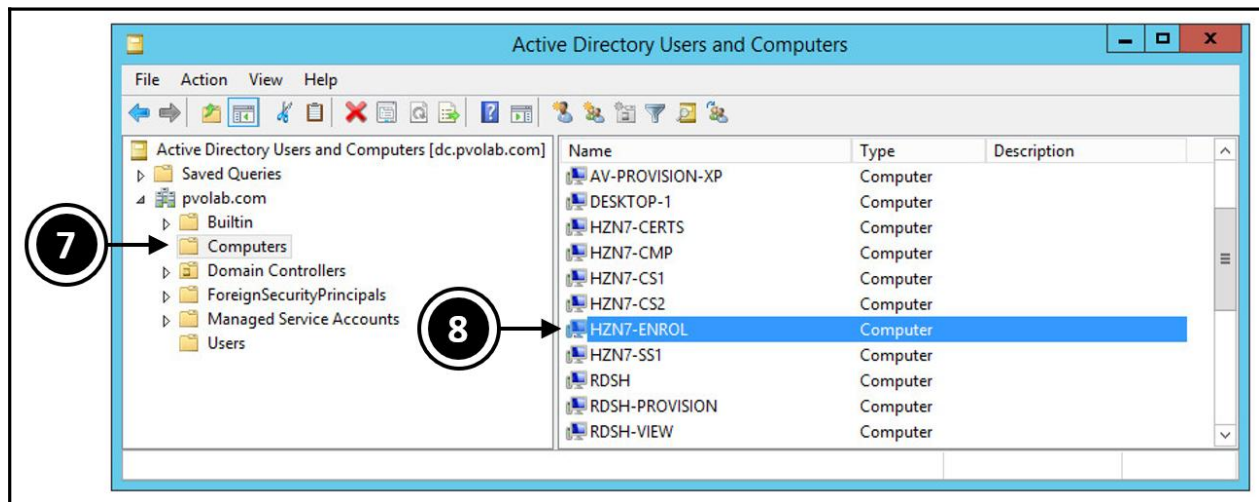
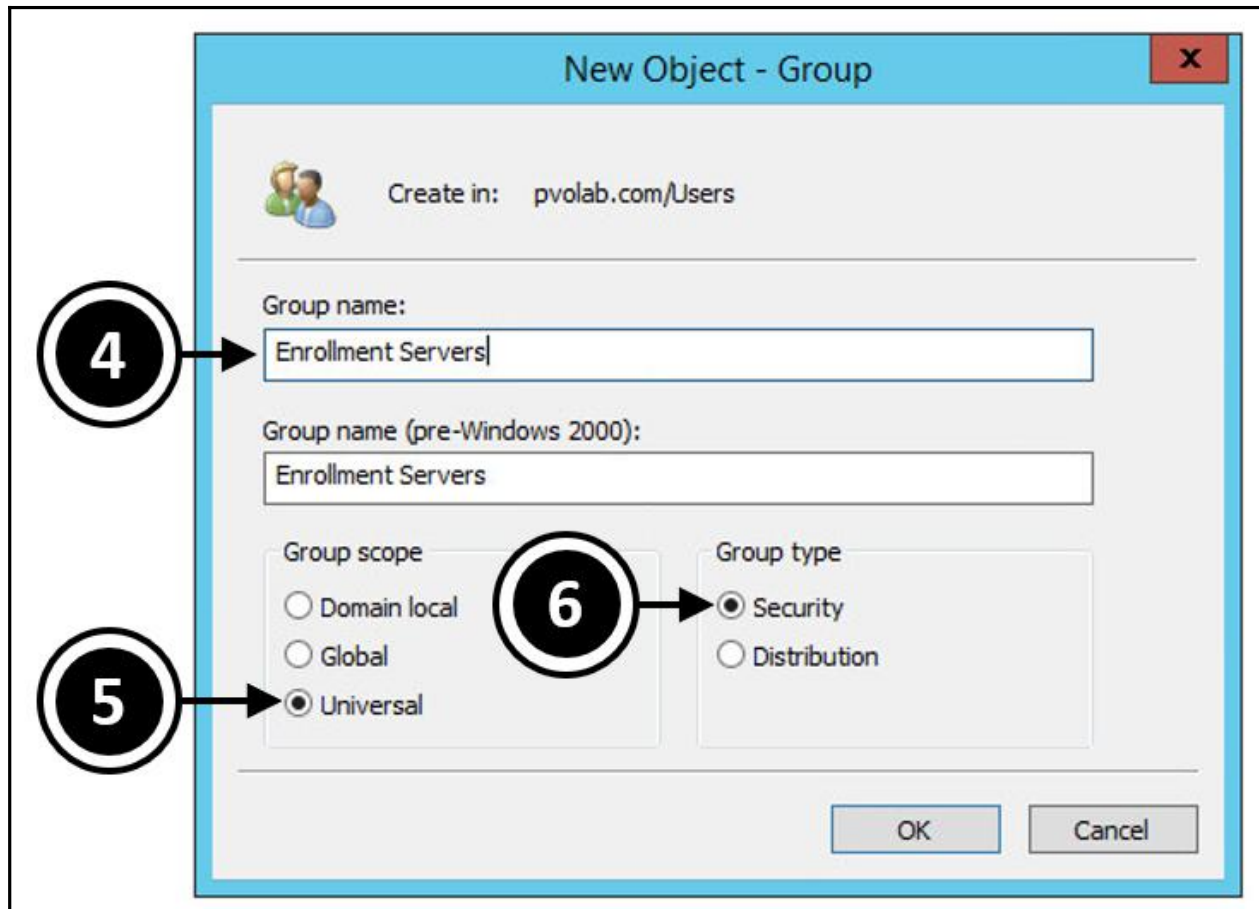
The screenshot displays the VMware Horizon 7 Administrator dashboard. On the left, there is a navigation menu with sections for 'Inventory', 'Dashboard', and 'Users and Groups'. The main area shows 'System Health' with a tree view of components: 'Connection Servers' (containing 'HZN7-CS1' and 'HZN7-CS2') and 'Event database'. A dialog box titled 'Connection Server Details' is open, showing information for 'HZN7-CS1'. The 'Status' is 'Untrusted Certificate', and the 'SSL Certificate' is 'Invalid'. The dialog also shows 'Connections: 0' and 'Replication Status: HZN7-CS2'. An 'OK' button is visible at the bottom right of the dialog.

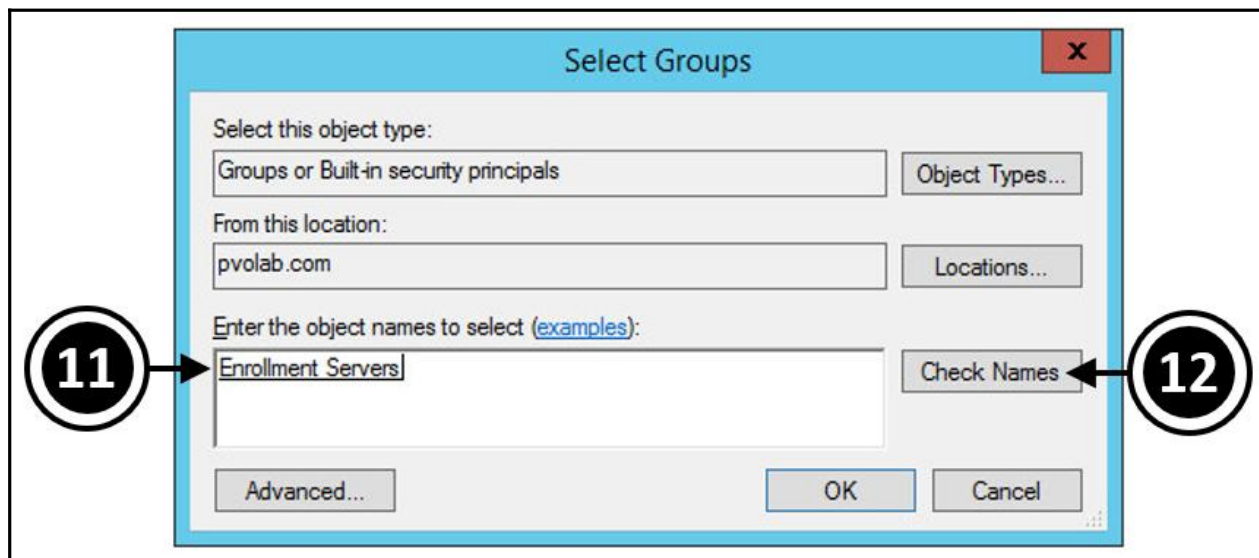
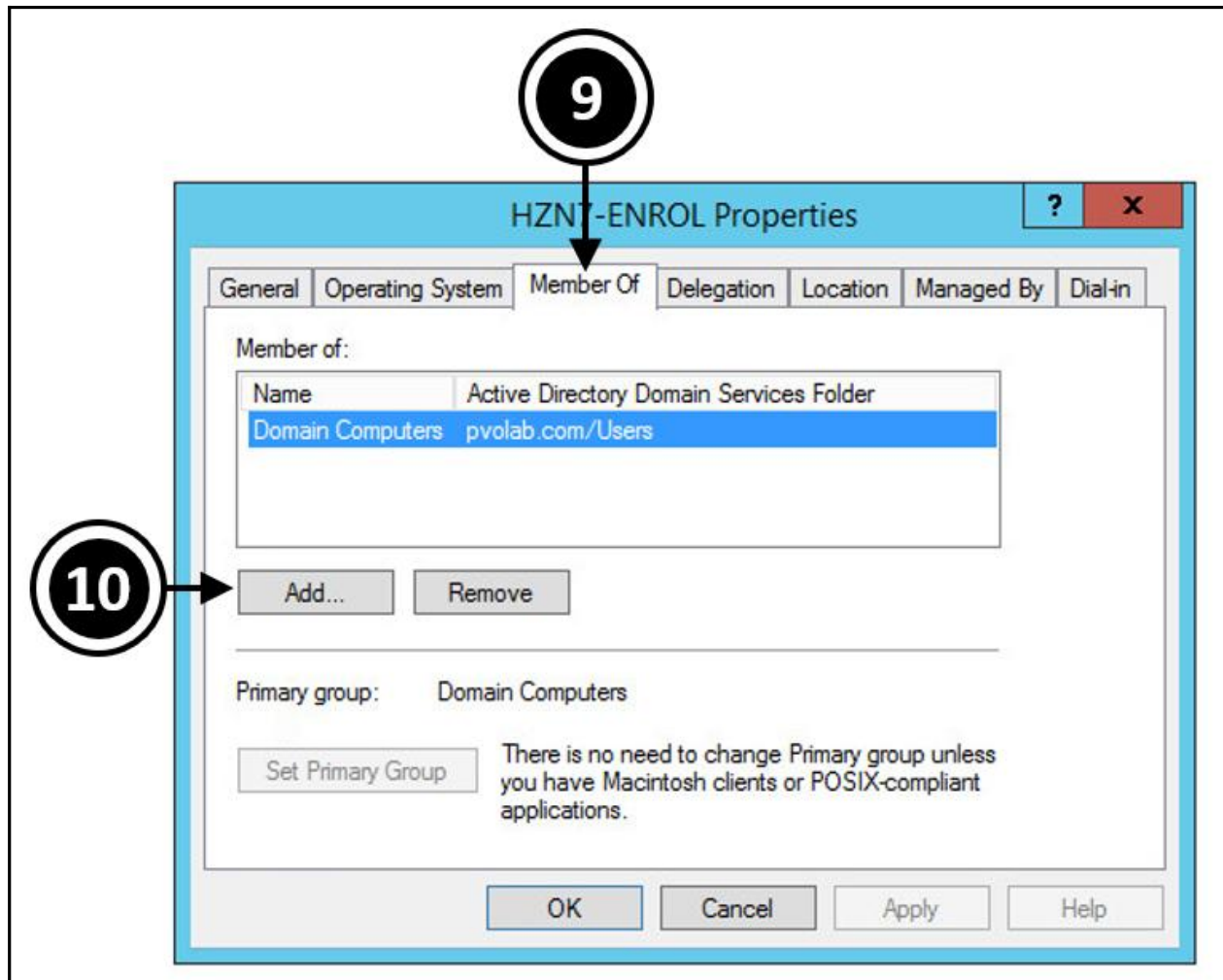
Connection Server Details	
Name:	 HZN7-CS1
Version:	7.0.0
Status:	 Untrusted Certificate
A self-signed certificate is installed on this server. Install a certificate that can be validated on this server and by clients that will connect to View. <a href="#">More information</a>	
SSL Certificate:	Invalid
Connections:	0
Replication Status:	 HZN7-CS2

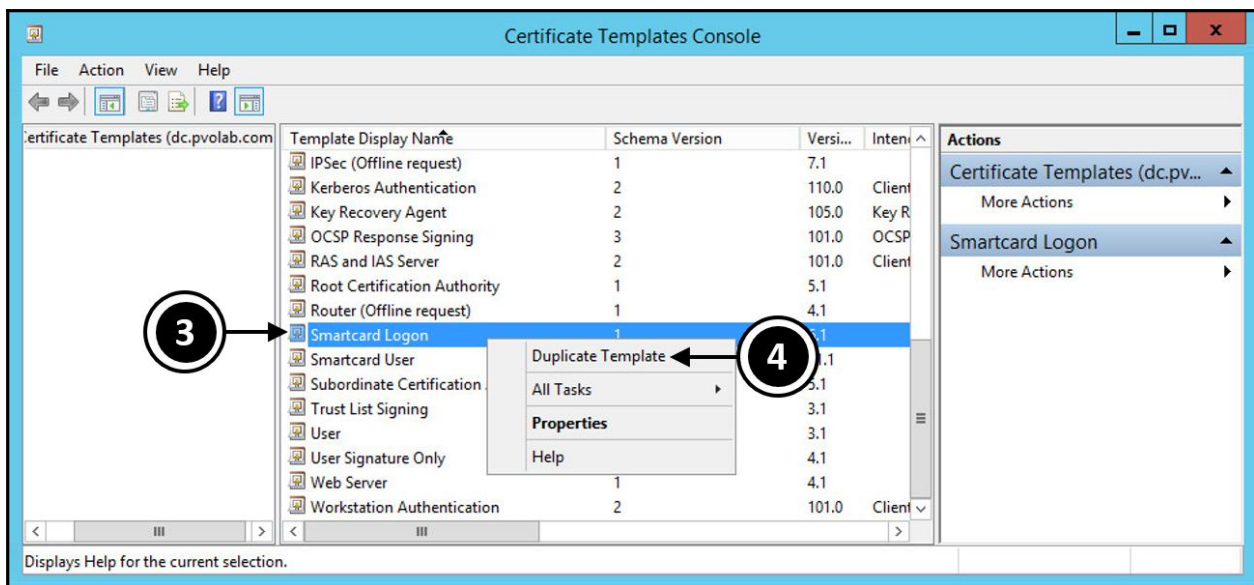
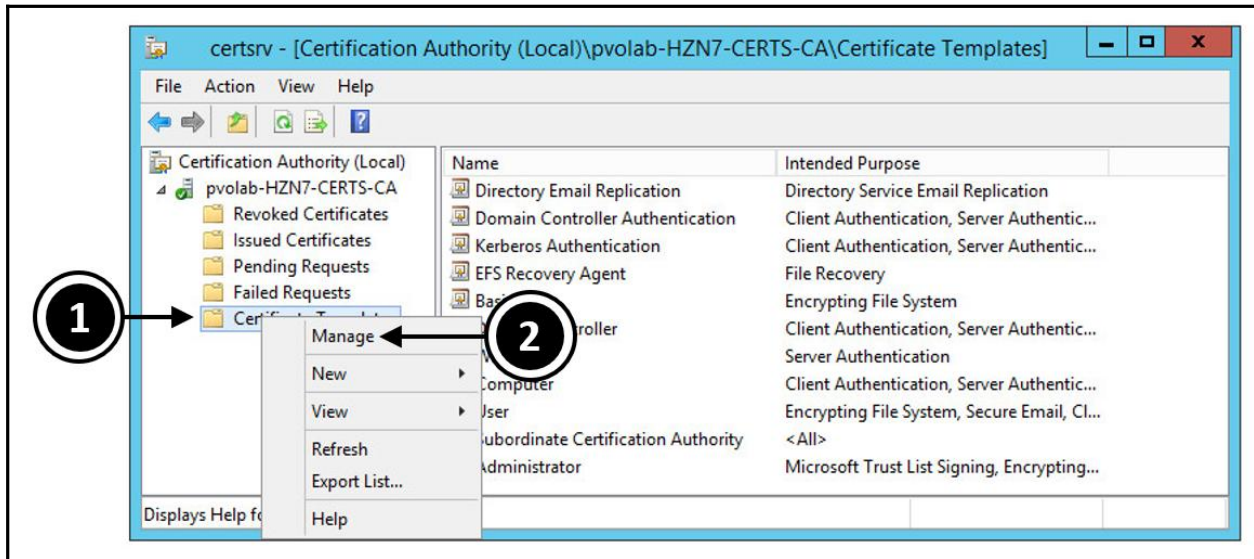
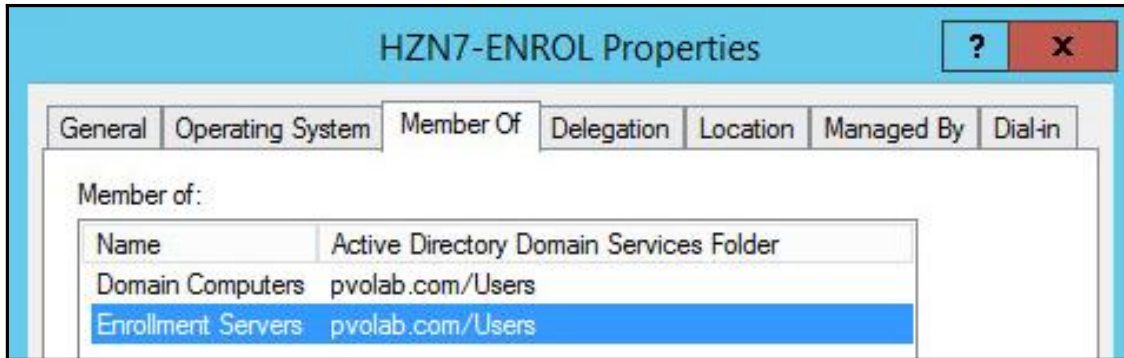


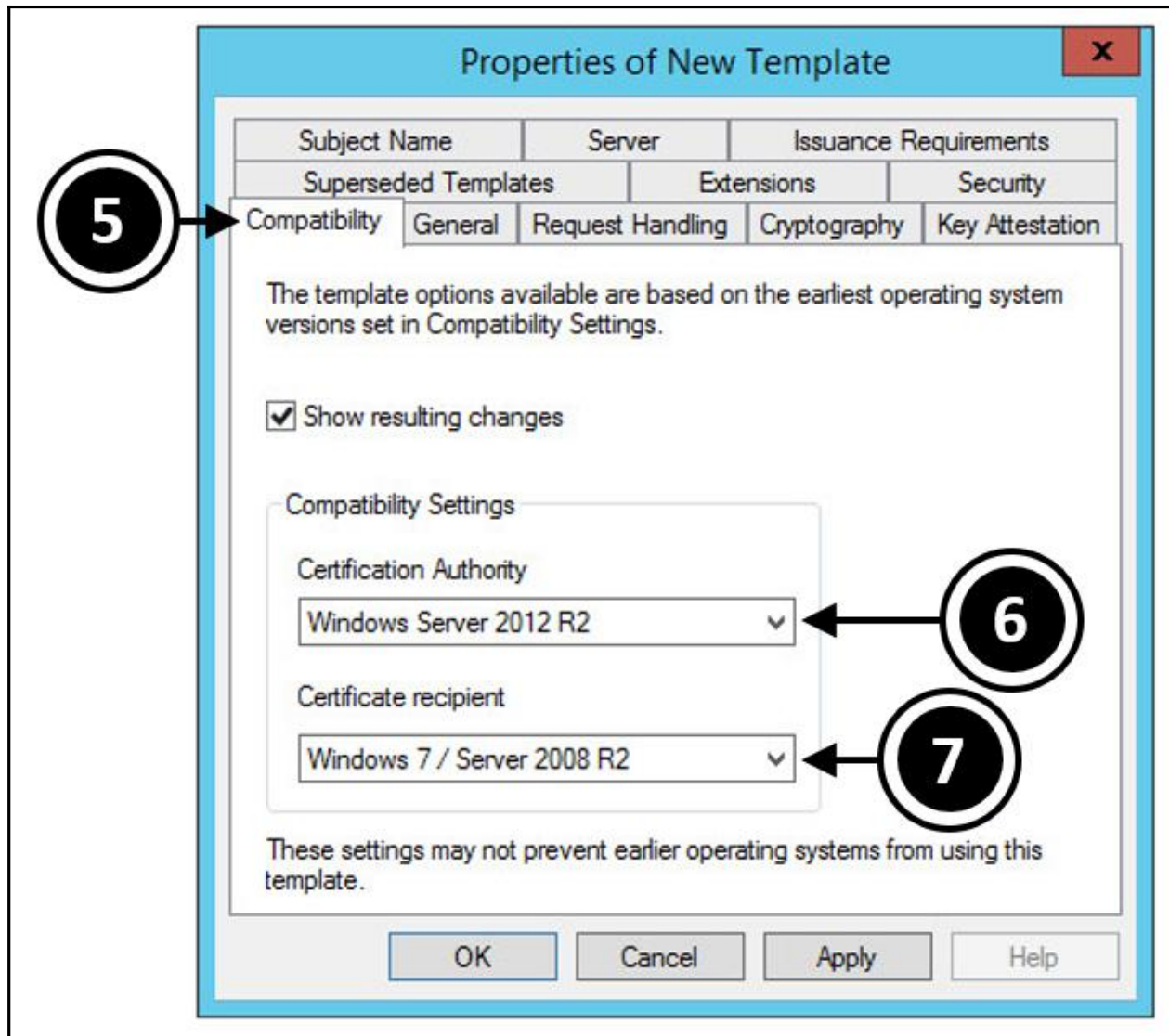


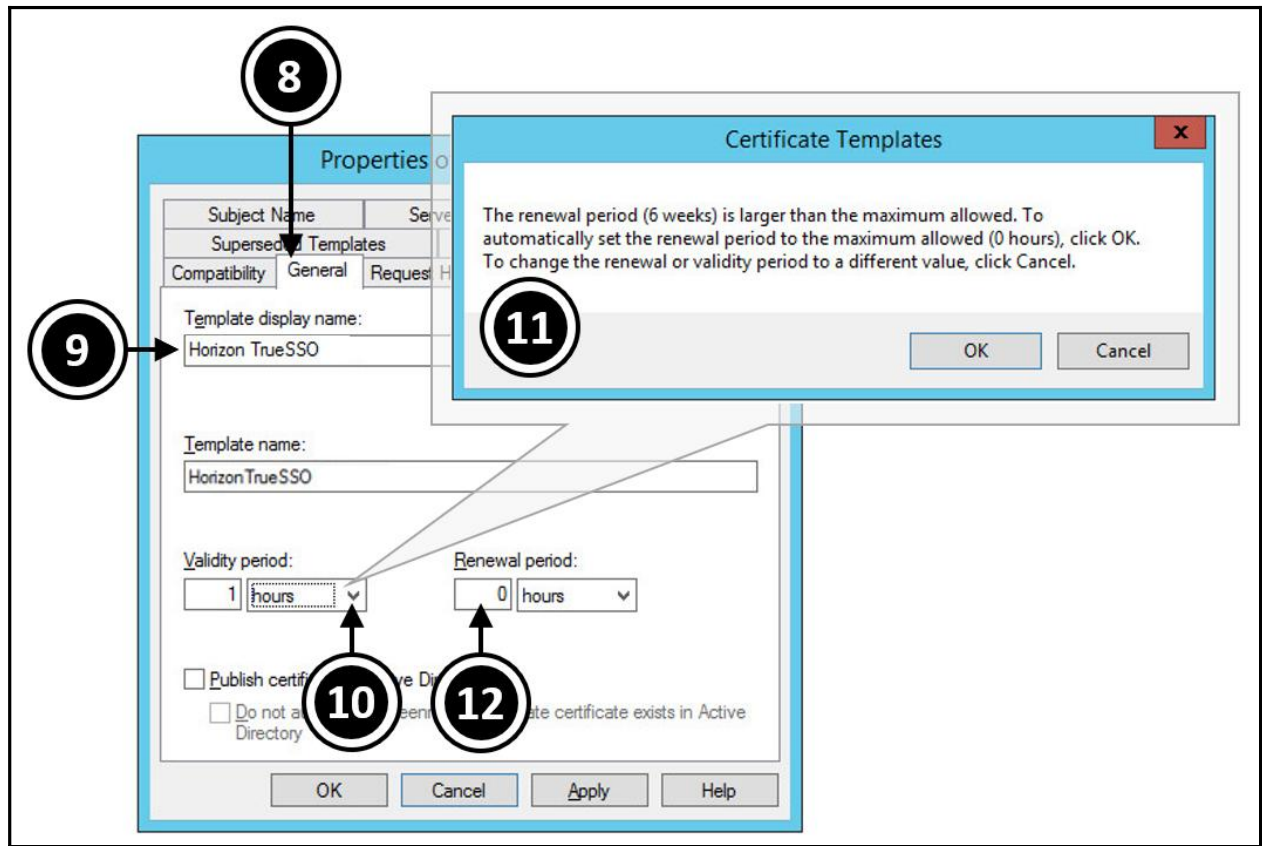


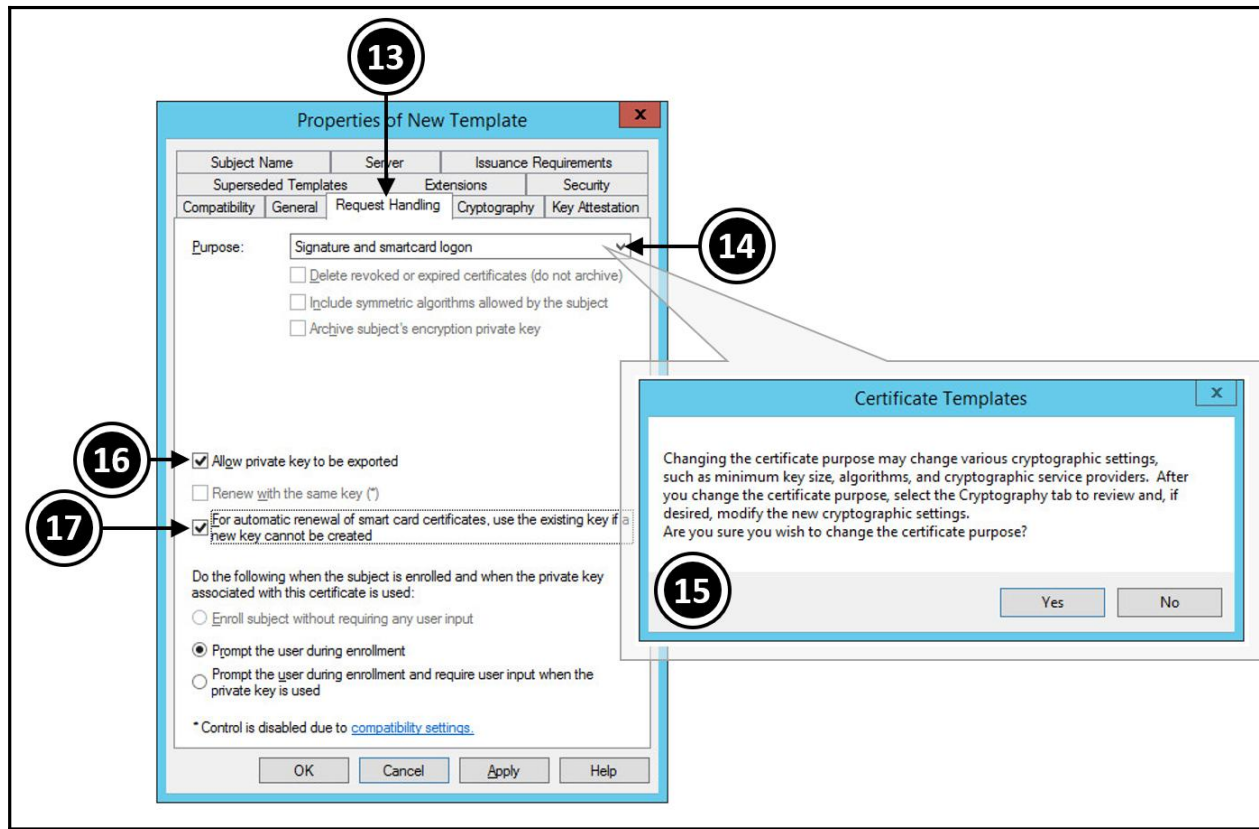




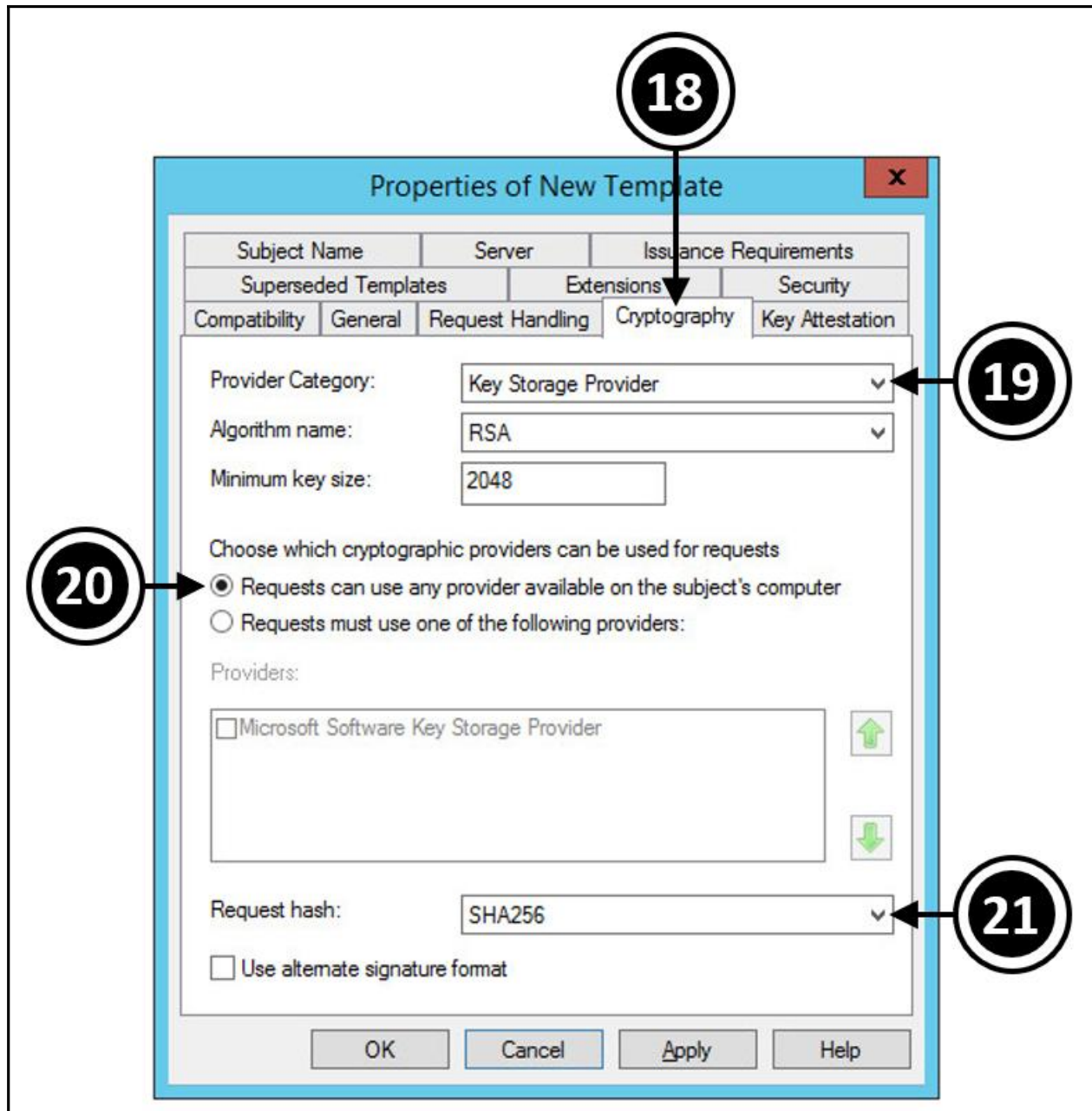


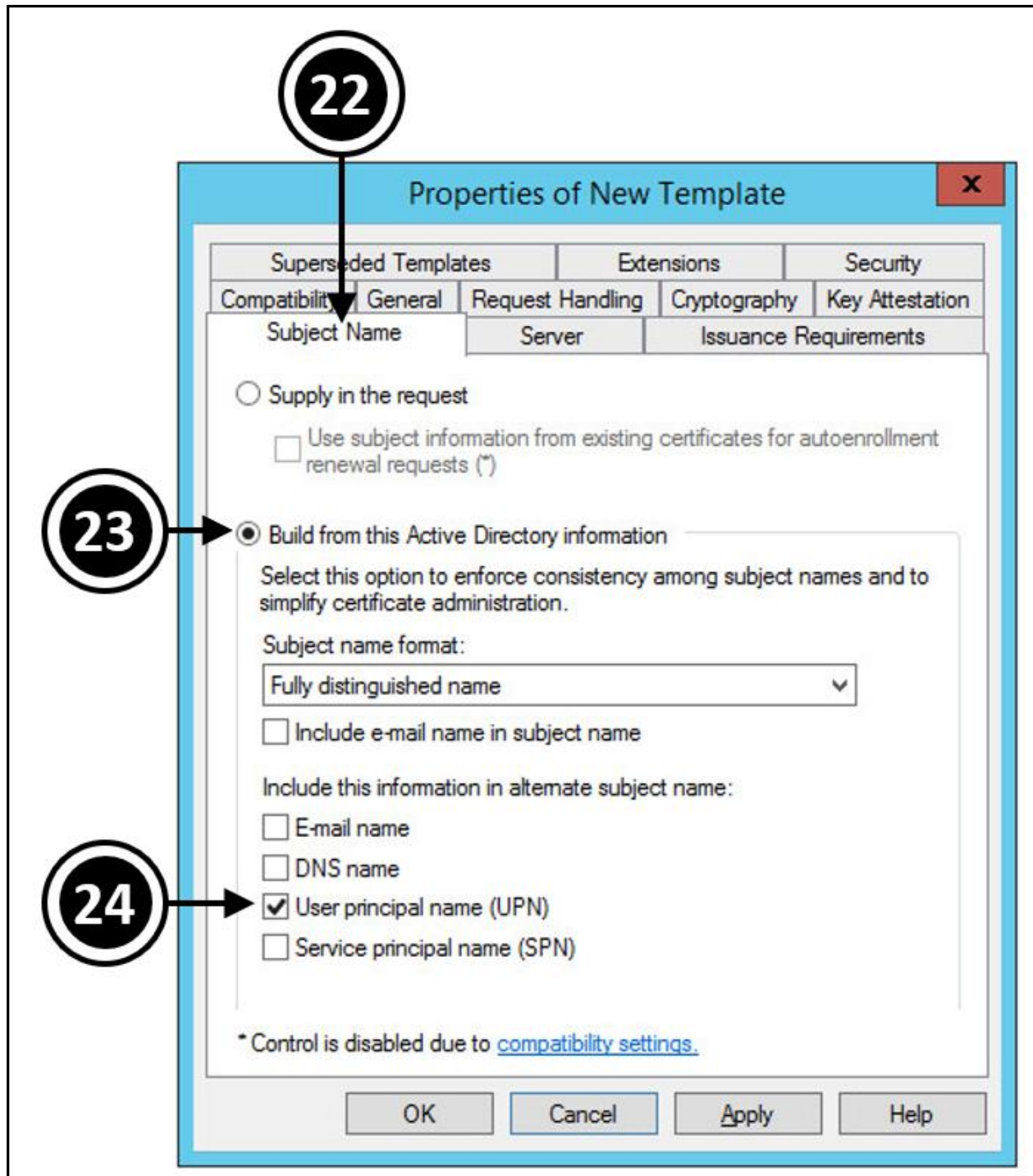


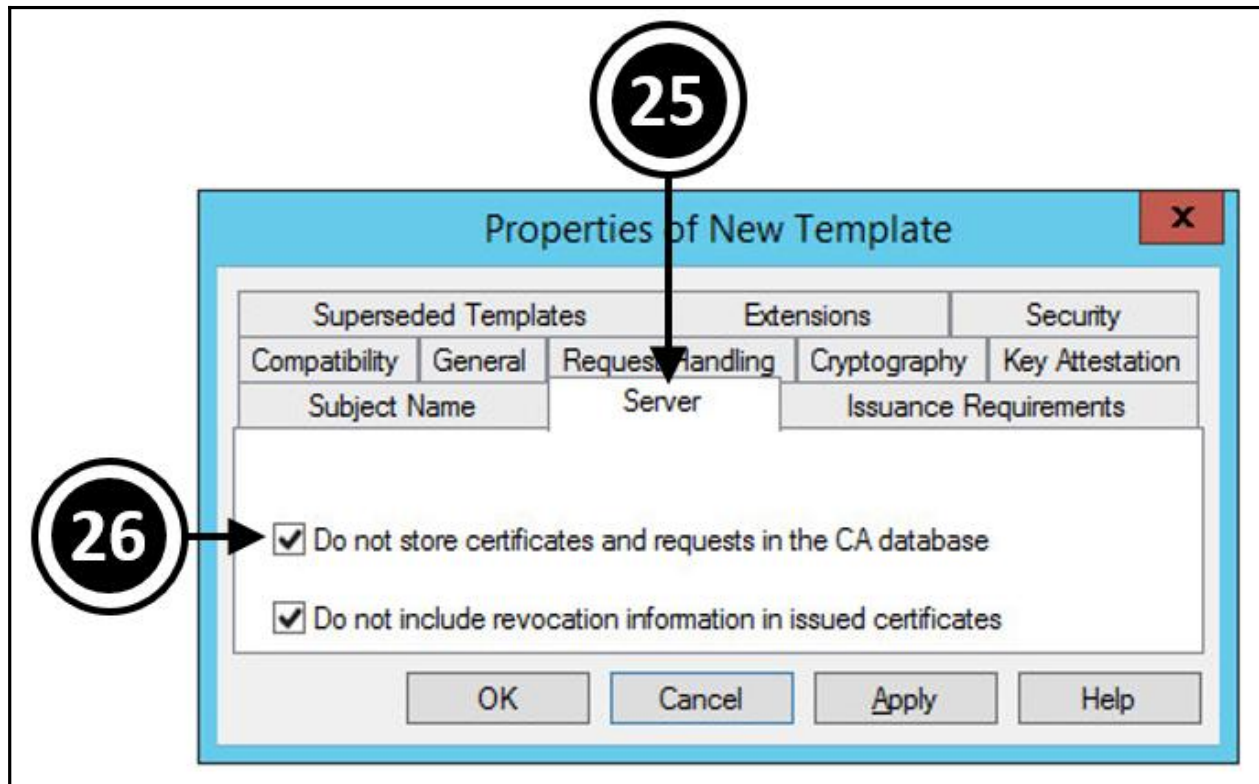


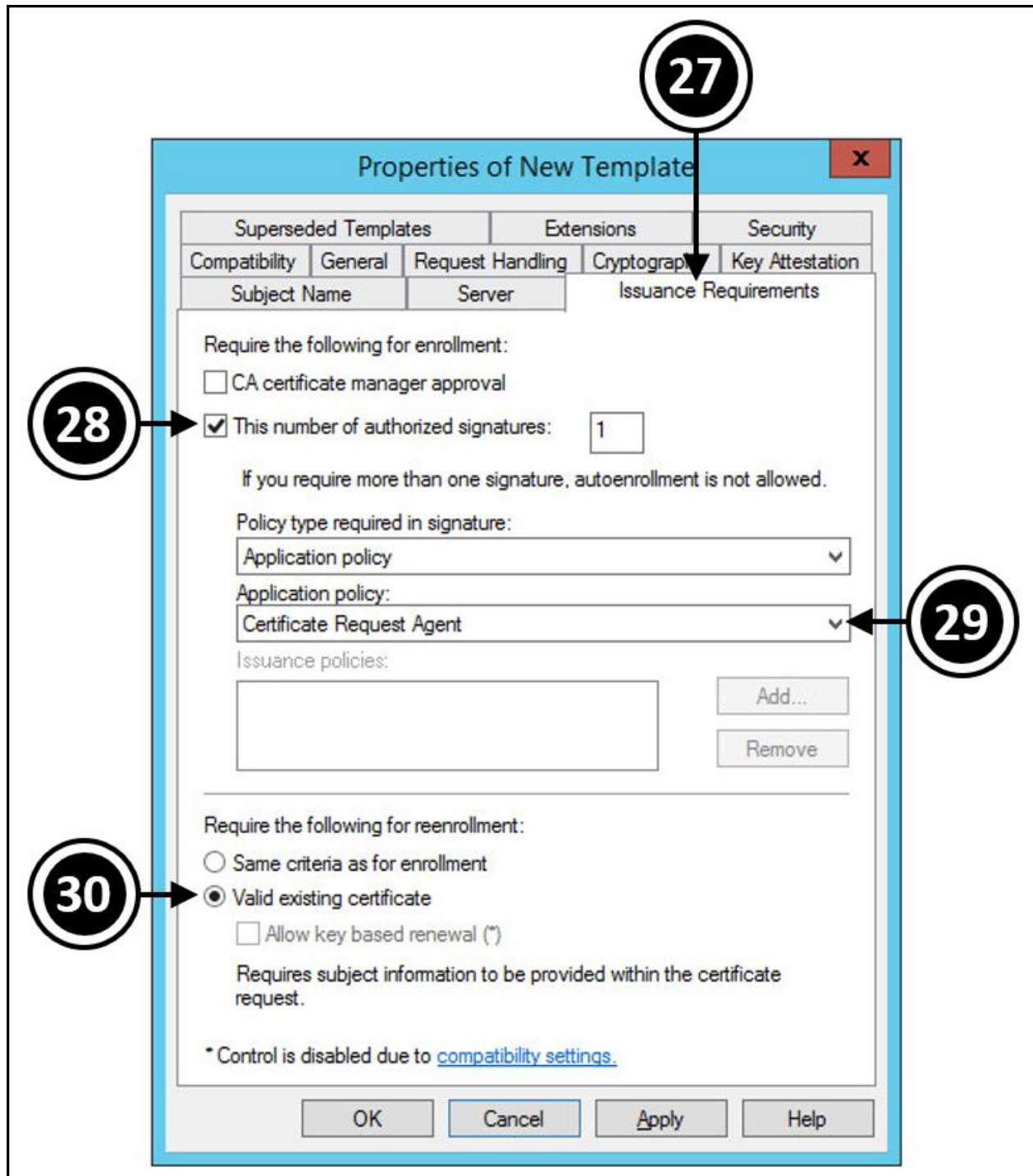


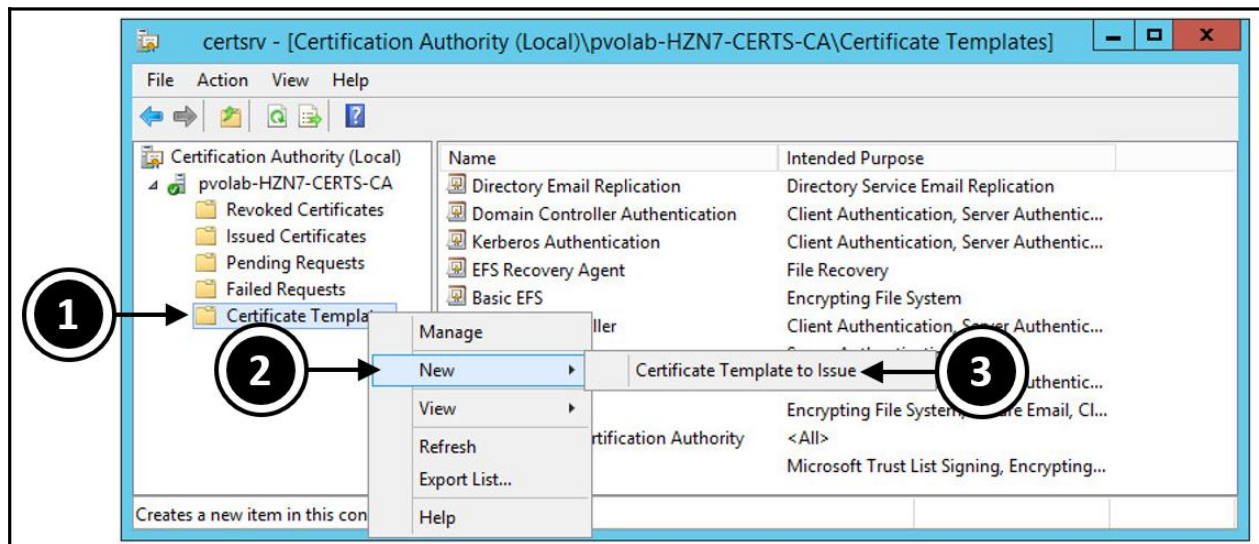
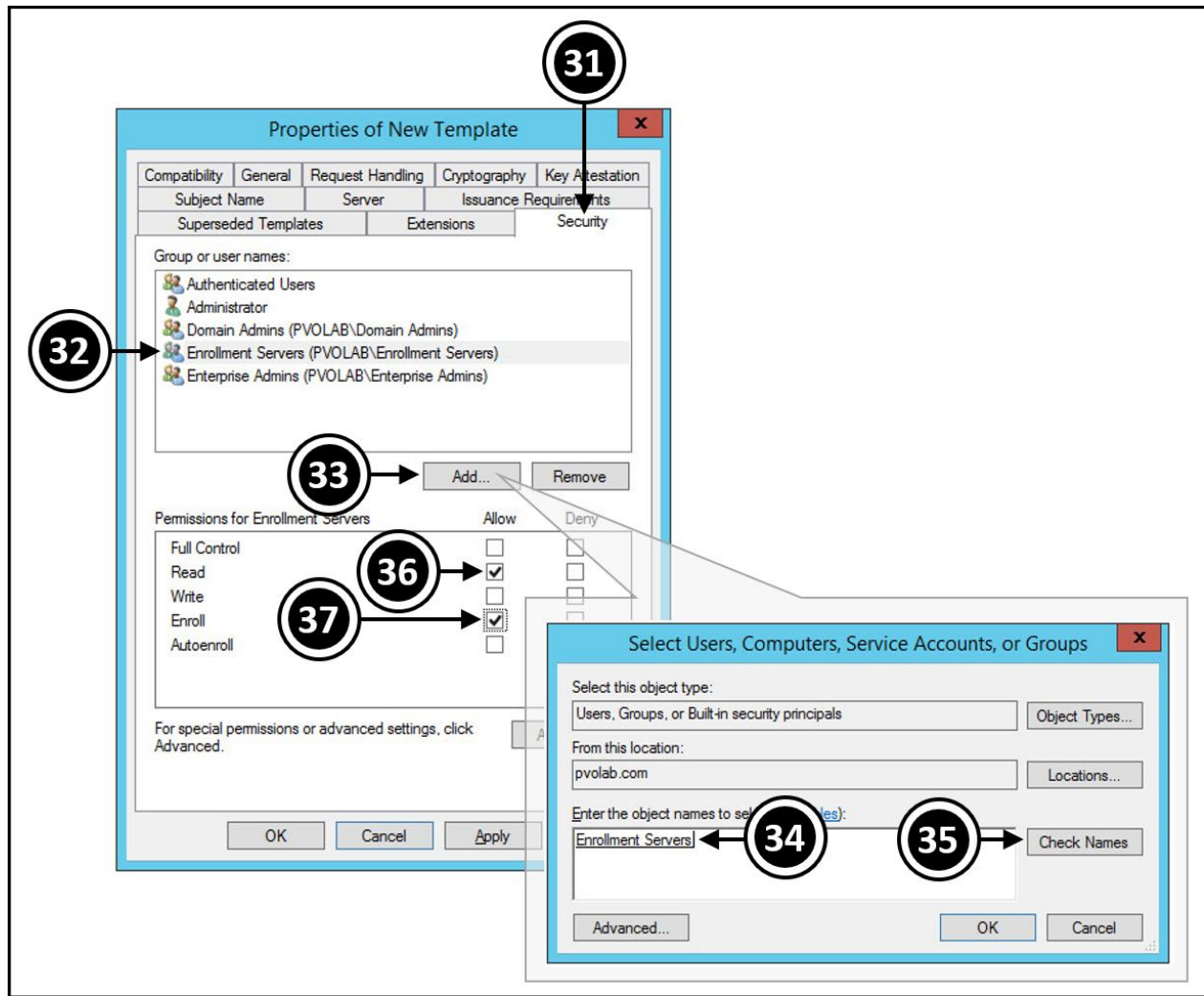


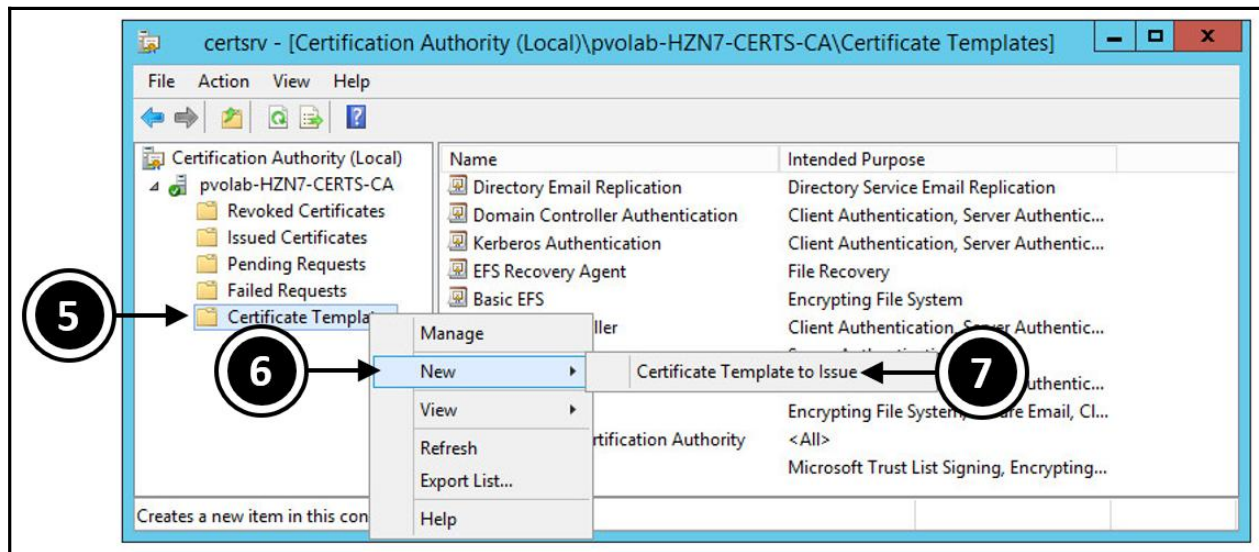
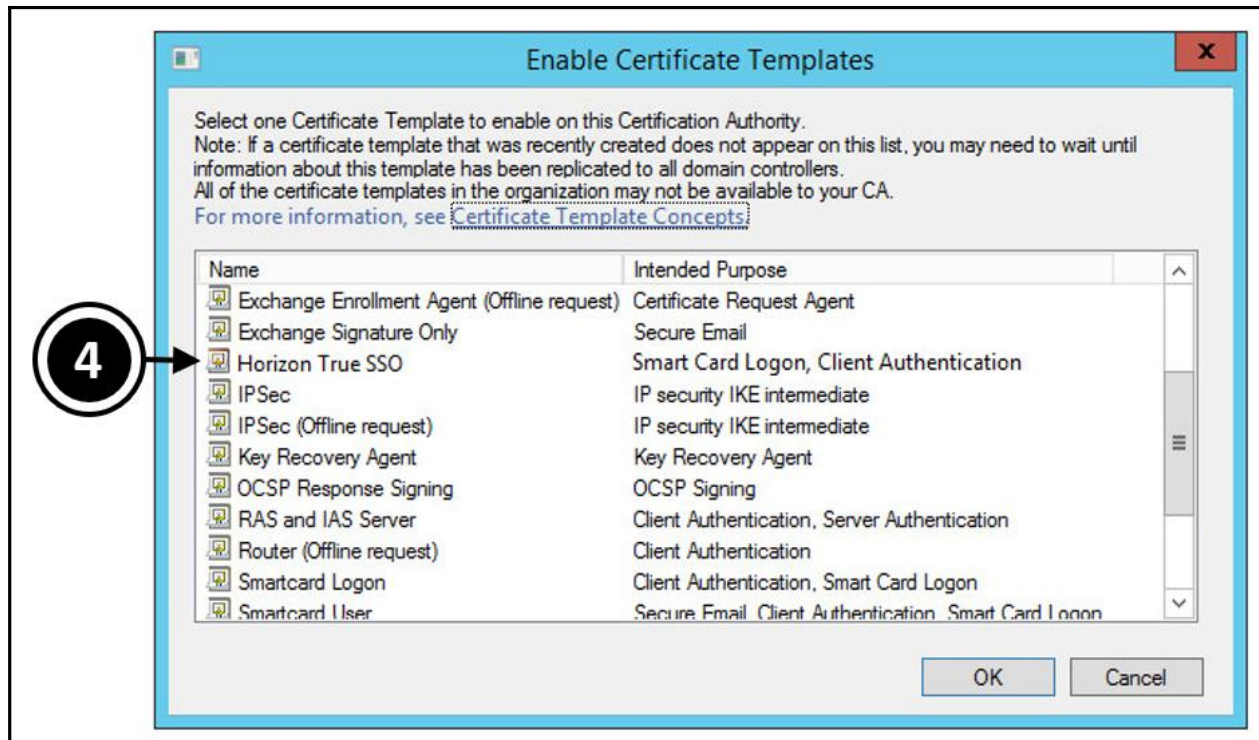


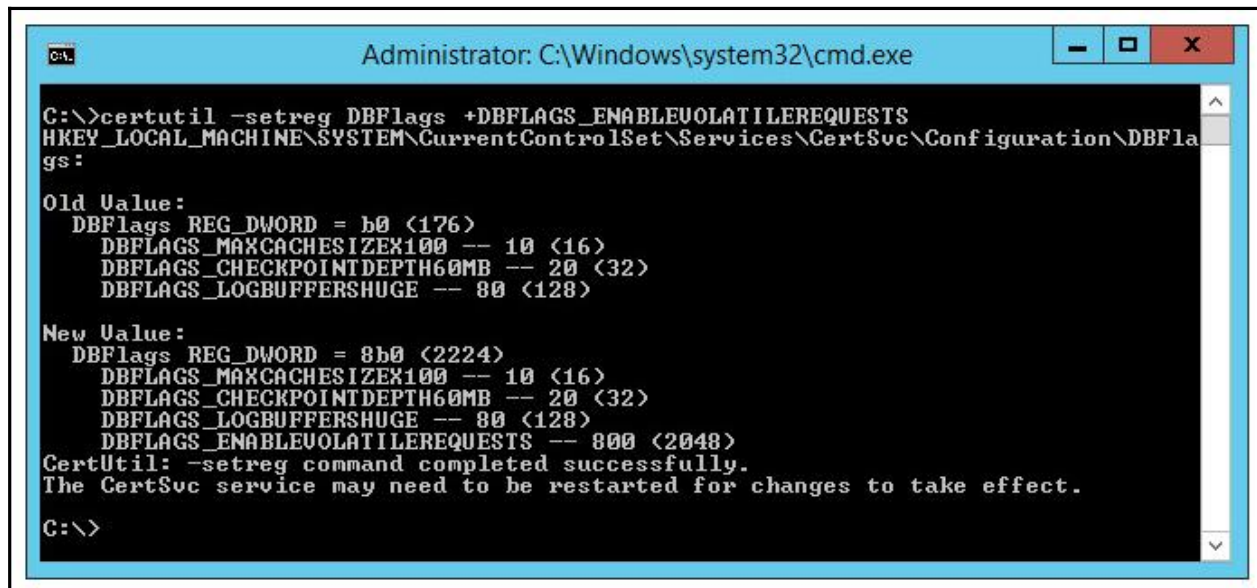
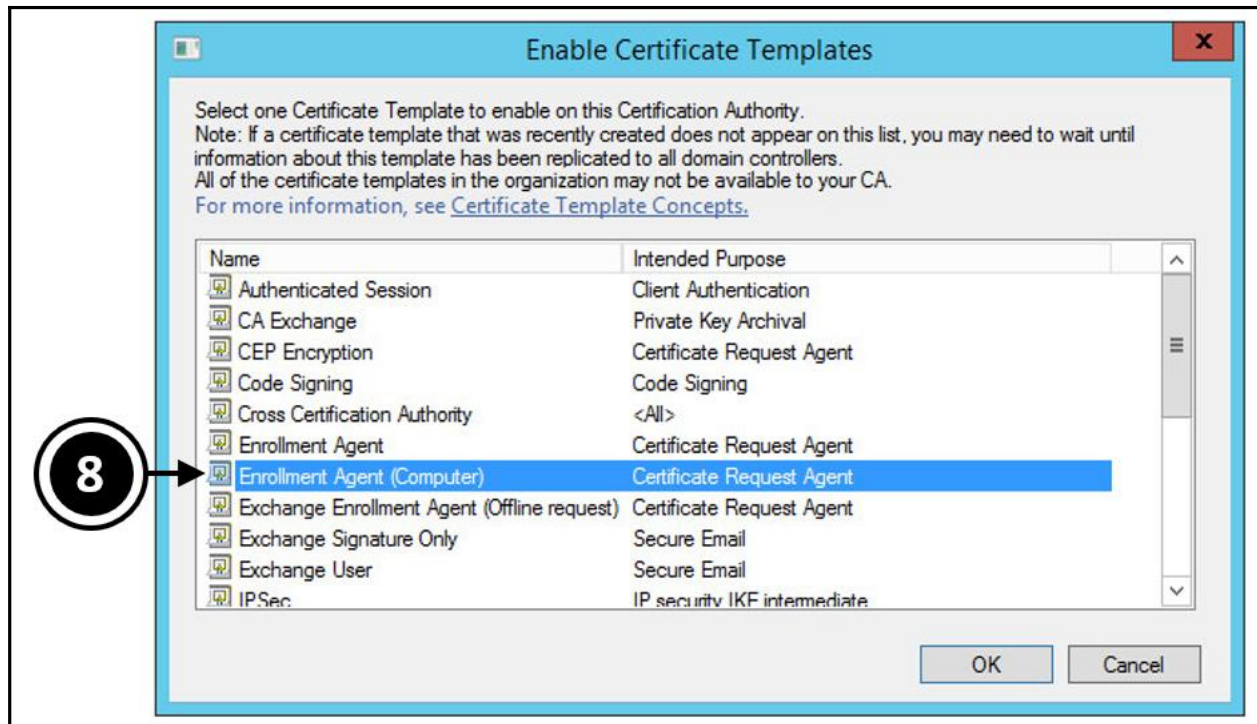












```
Administrator: C:\Windows\system32\cmd.exe

C:\>certutil -setreg ca\CRLFlags +CRLF_REUCHECK_IGNORE_OFFLINE
HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\CertSvc\Configuration\pvo la
b-HZN7-CERTS-CA\CRLFlags:

Old Value:
CRLFlags REG_DWORD = 2
CRLF_DELETE_EXPIRED_CRLS -- 2

New Value:
CRLFlags REG_DWORD = a <10>
CRLF_DELETE_EXPIRED_CRLS -- 2
CRLF_REUCHECK_IGNORE_OFFLINE -- 8
CertUtil: -setreg command completed successfully.
The CertSvc service may need to be restarted for changes to take effect.

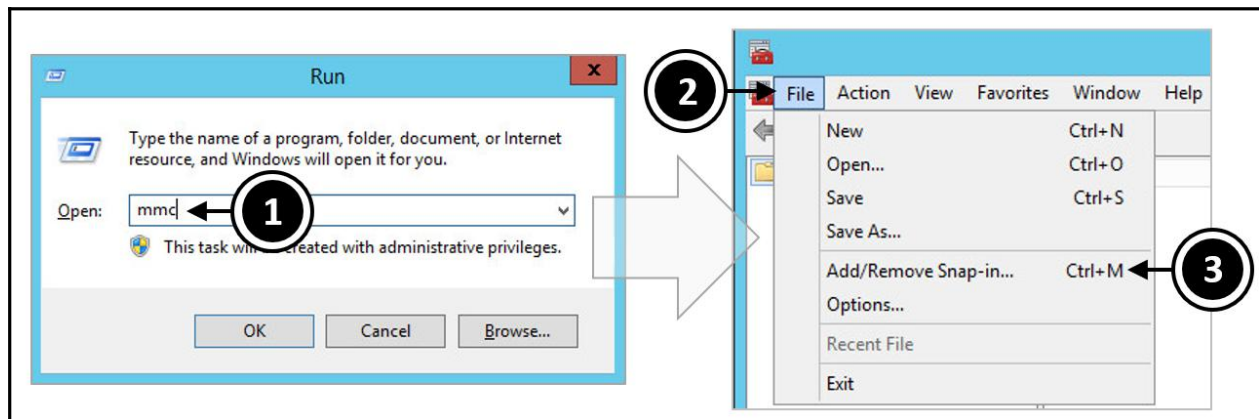
C:\>_
```

```
Administrator: C:\Windows\system32\cmd.exe

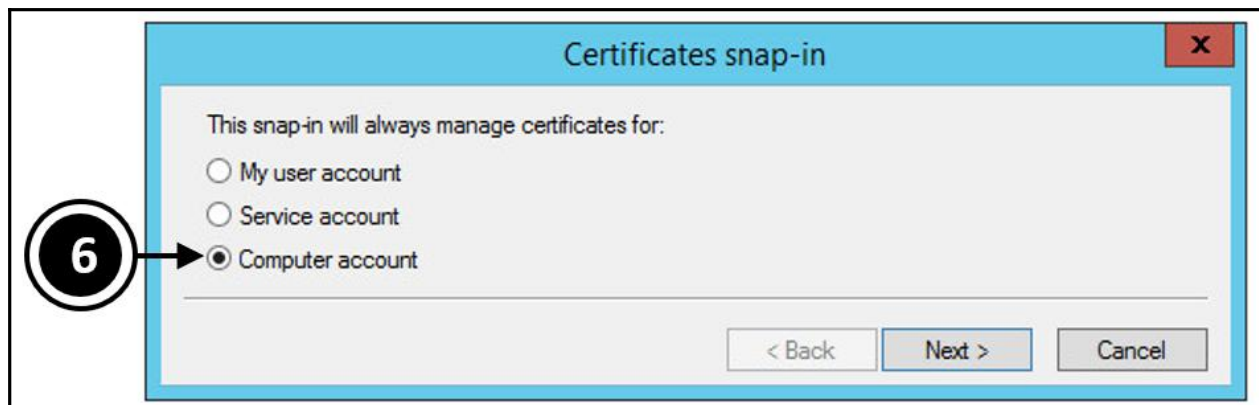
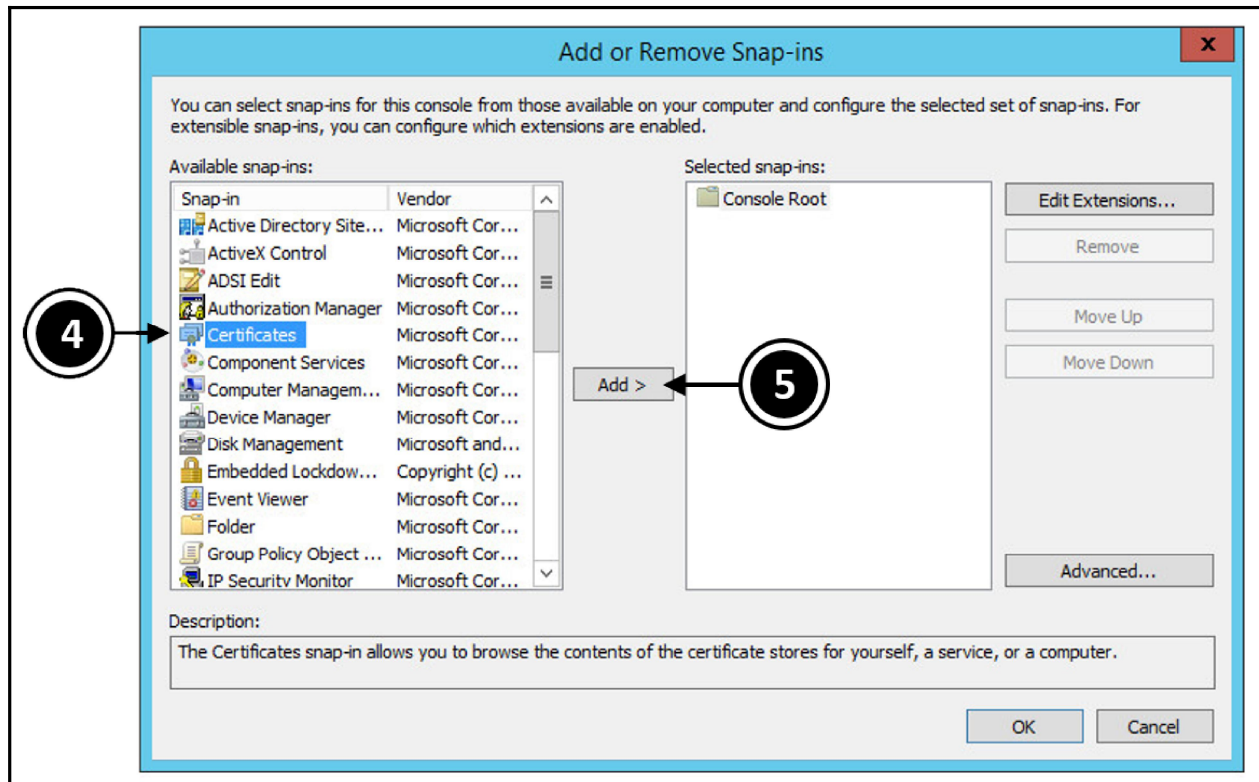
C:\>net stop certsvc
The Active Directory Certificate Services service is stopping.
The Active Directory Certificate Services service was stopped successfully.

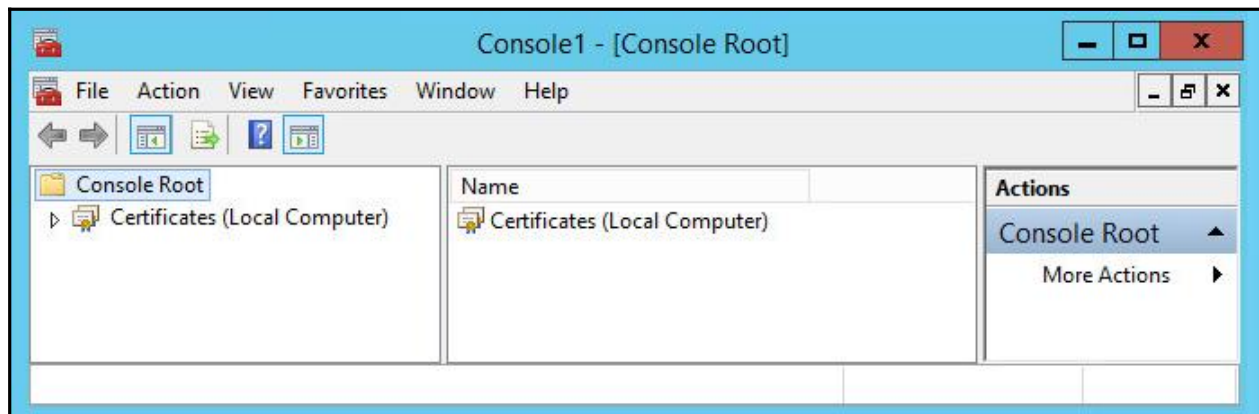
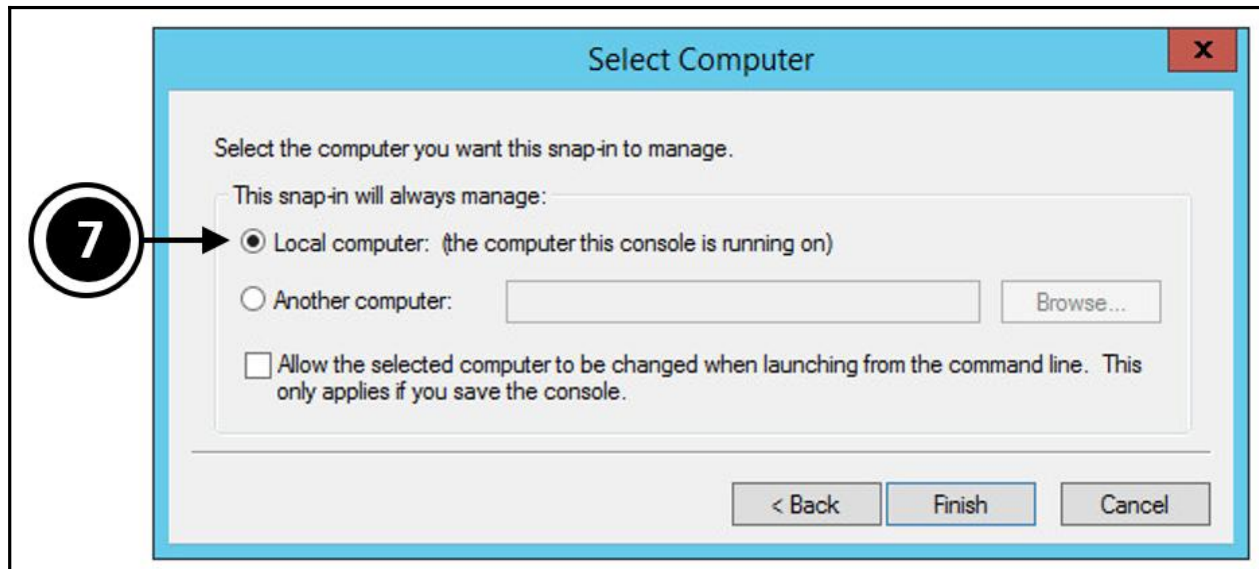
C:\>net start certsvc
The Active Directory Certificate Services service was started successfully.

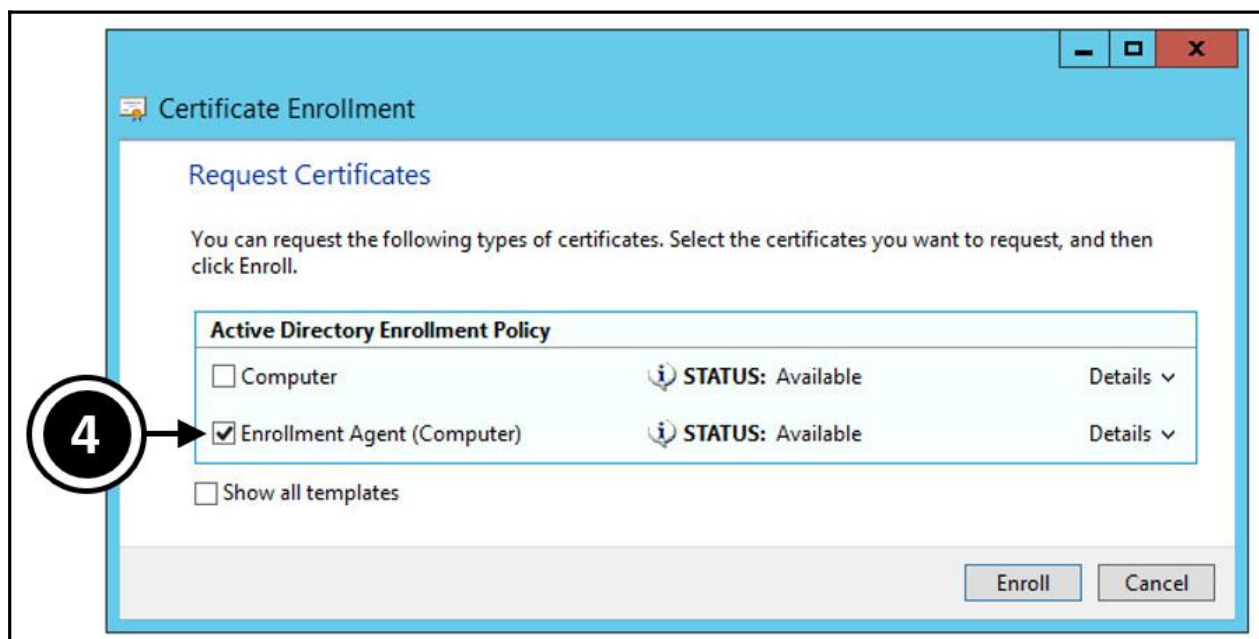
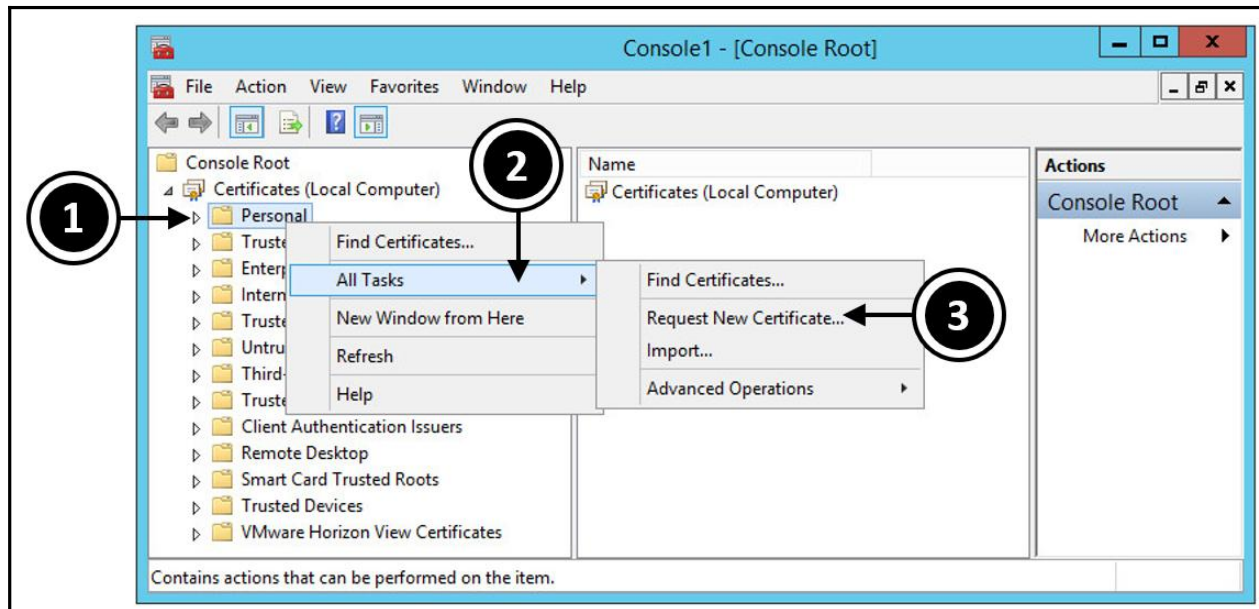
C:\>_
```

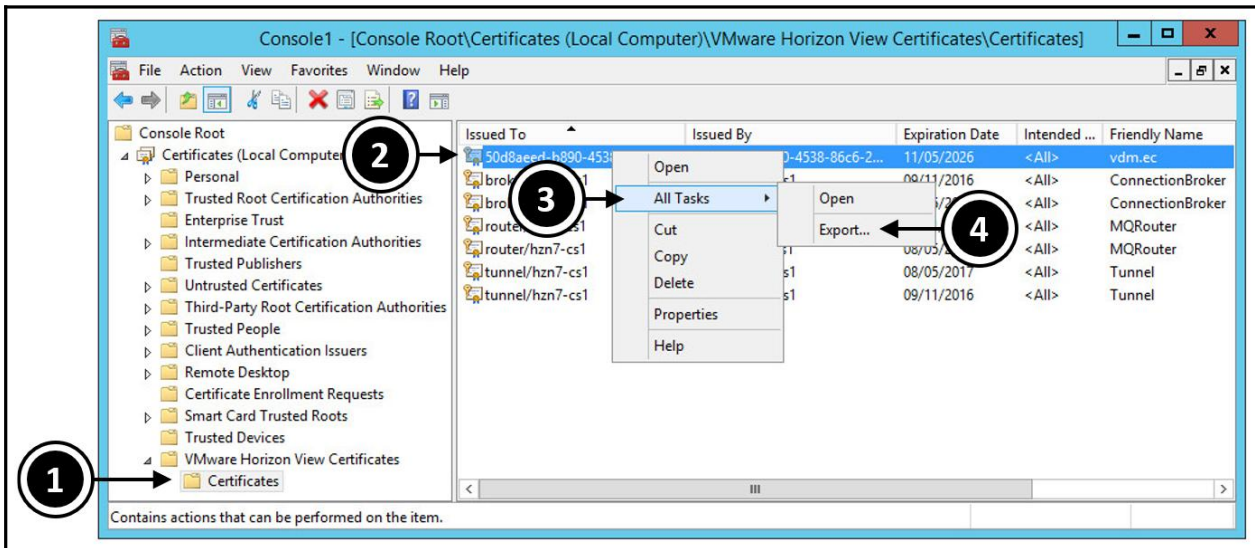
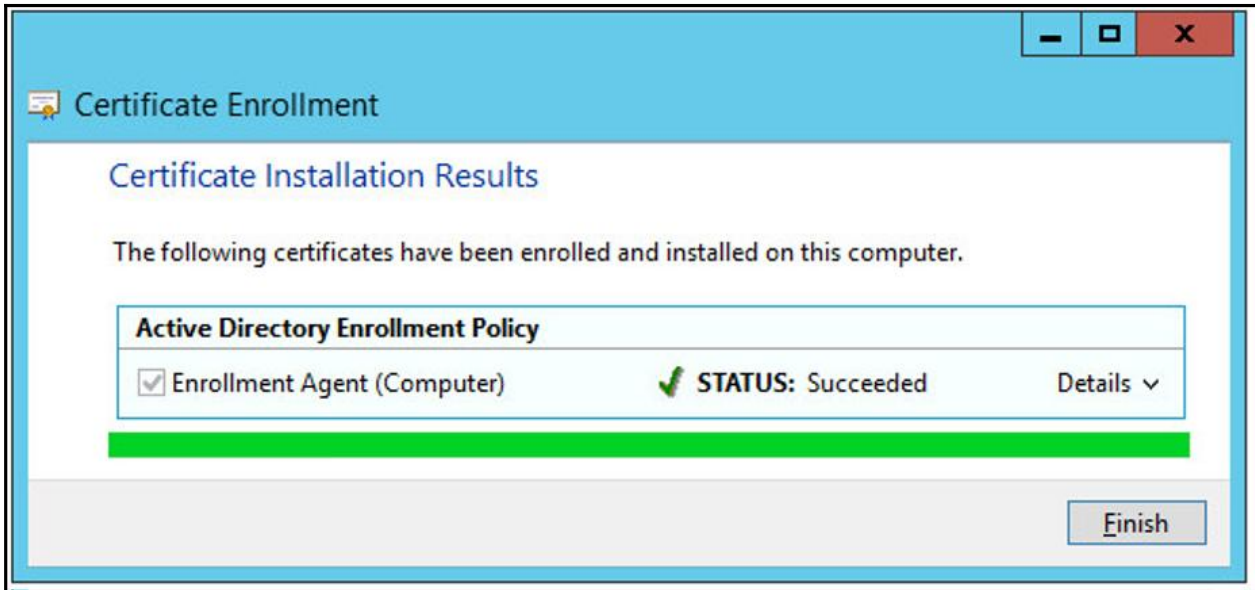




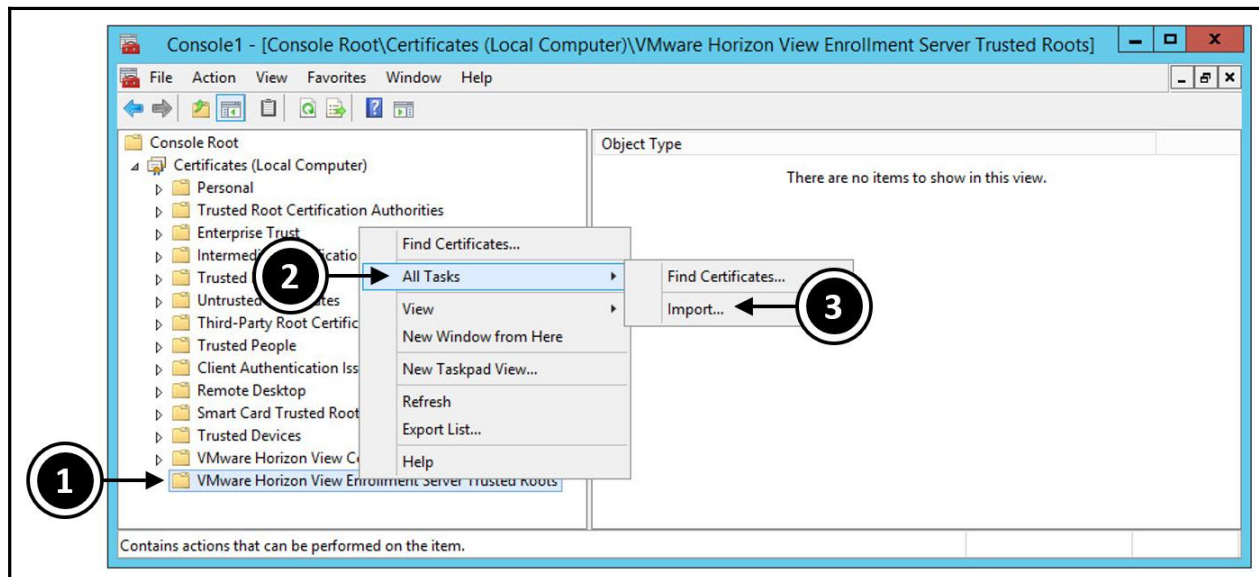
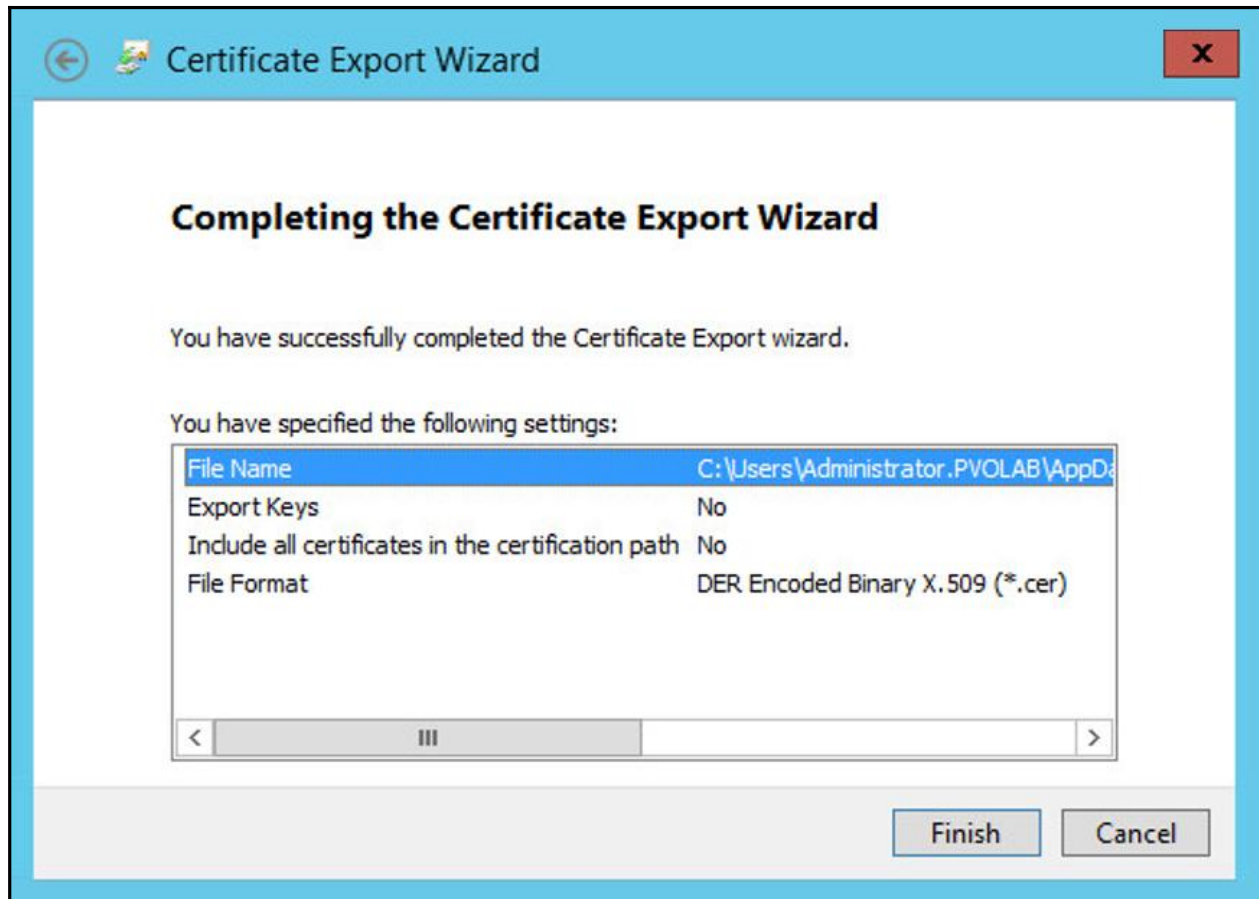


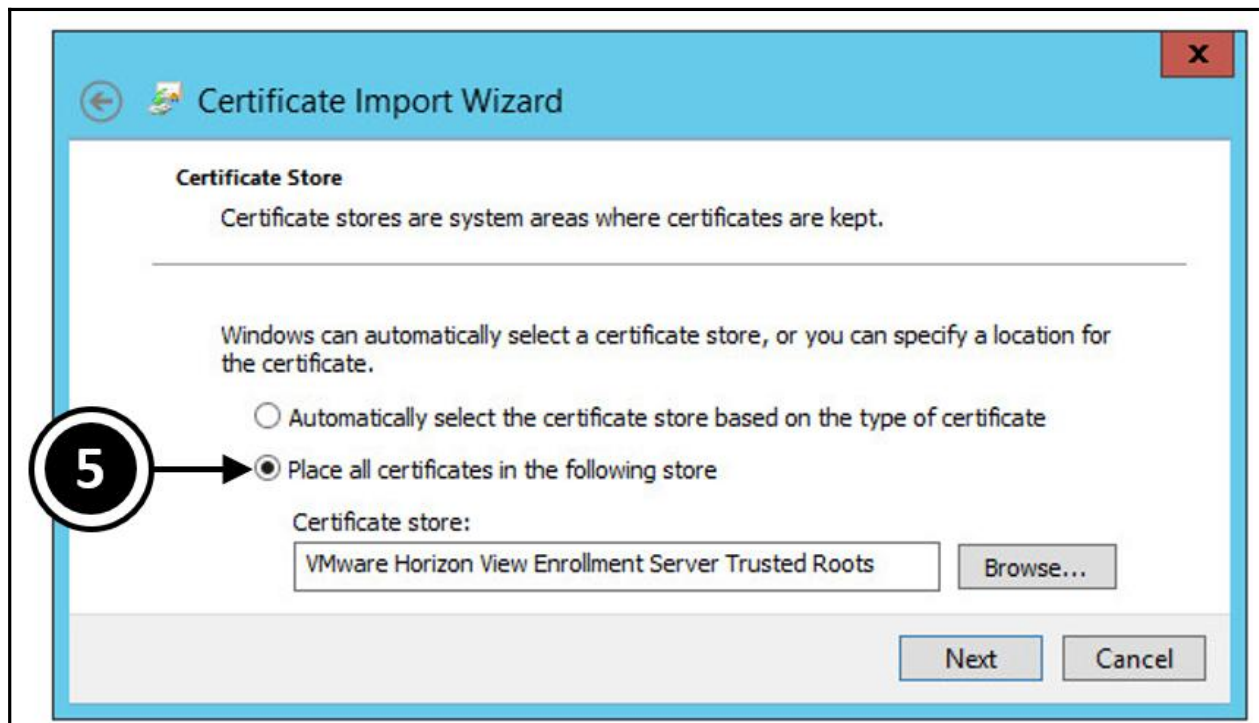


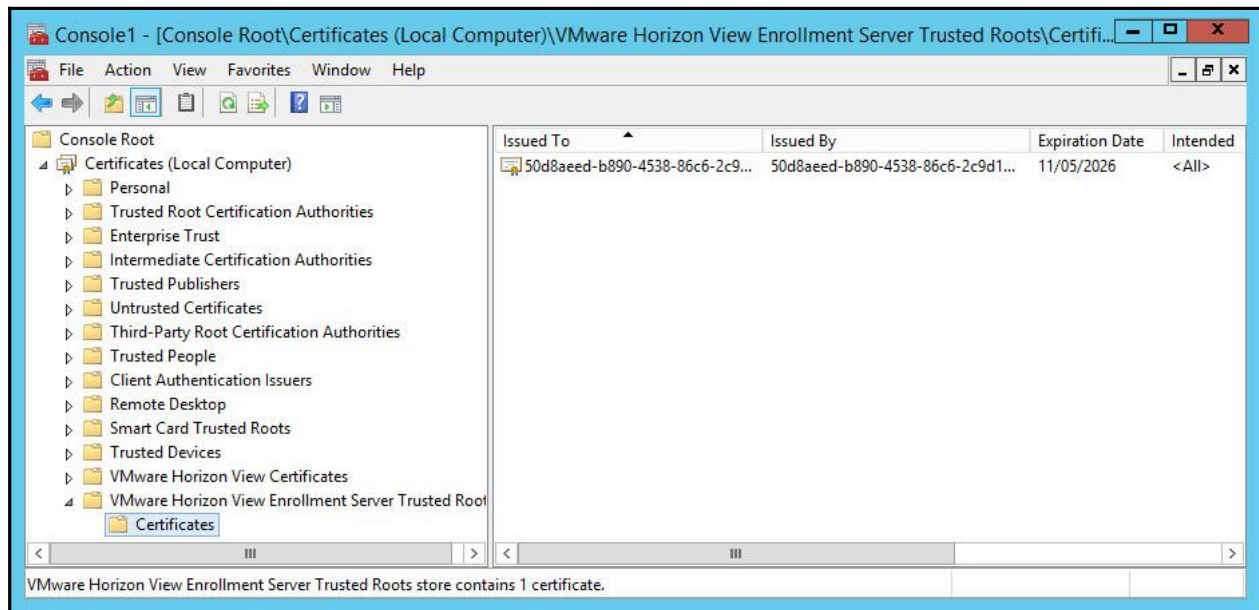
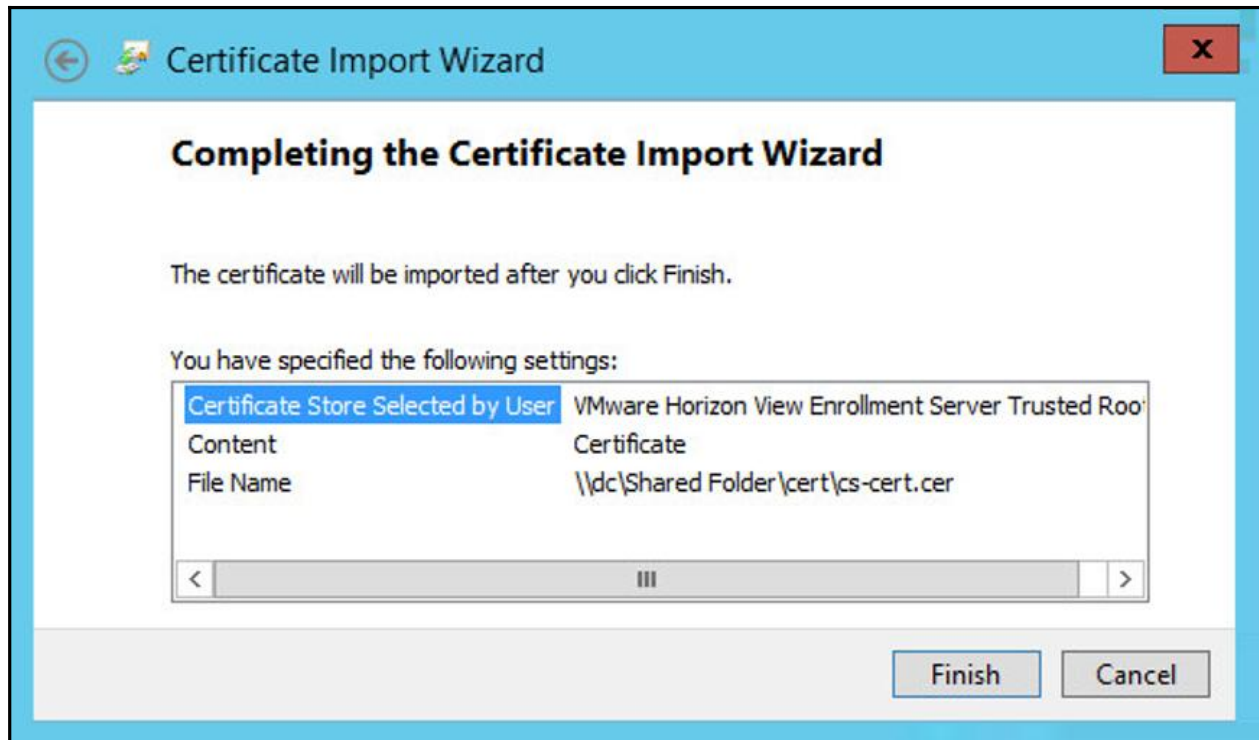














```
Administrator: C:\Windows\system32\cmd.exe

C:\>vdmutil --authAs administrator --authDomain PUOLAB --authPassword *****
--truesso --environment --add --enrollmentServer hzn7-enrol.pvolab.com
Enrollment server(s) added to the environment

C:\>
```

```
Administrator: C:\Windows\system32\cmd.exe

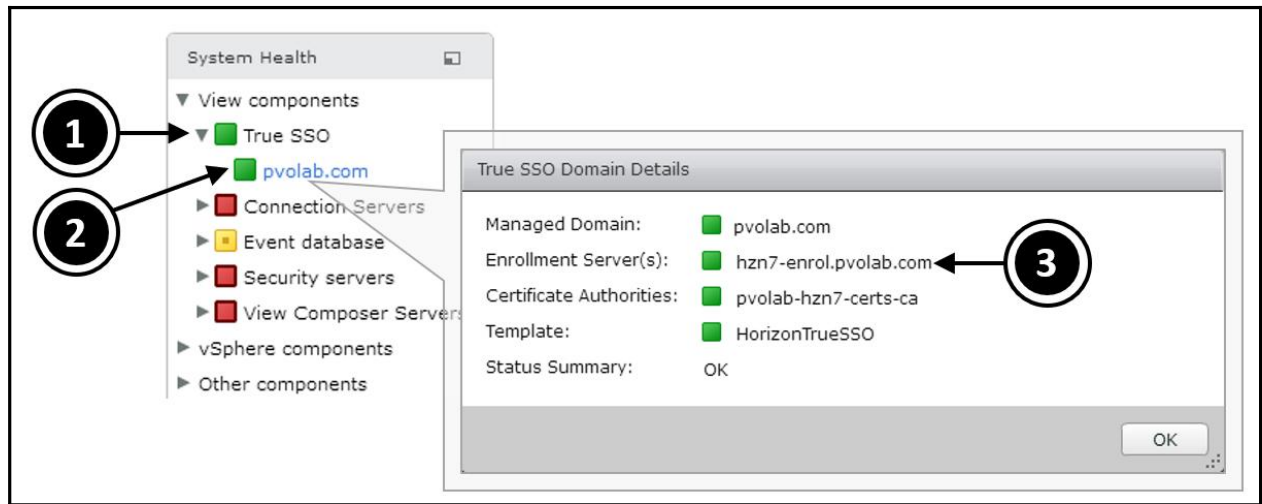
C:\>vdmutil --authAs administrator --authDomain PUOLAB --authPassword Ellie2007
--truesso --environment --list --enrollmentServer hzn7-enrol.pvolab.com --domain
pvolab.com
True SSO environment info
Enrollment server: hzn7-enrol.pvolab.com
Domain: pvolab.com
Forest:
  Name: pvolab.com
  Enrollment CertState: VALID
  Template(s):
    Name: HorizonTrueSSO
    Minimum key length: 2048
    Hash algorithm: SHA256
  Certificate Authority(s):
    Name: pvolab-HZN7-CERTS-CA

C:\>
```

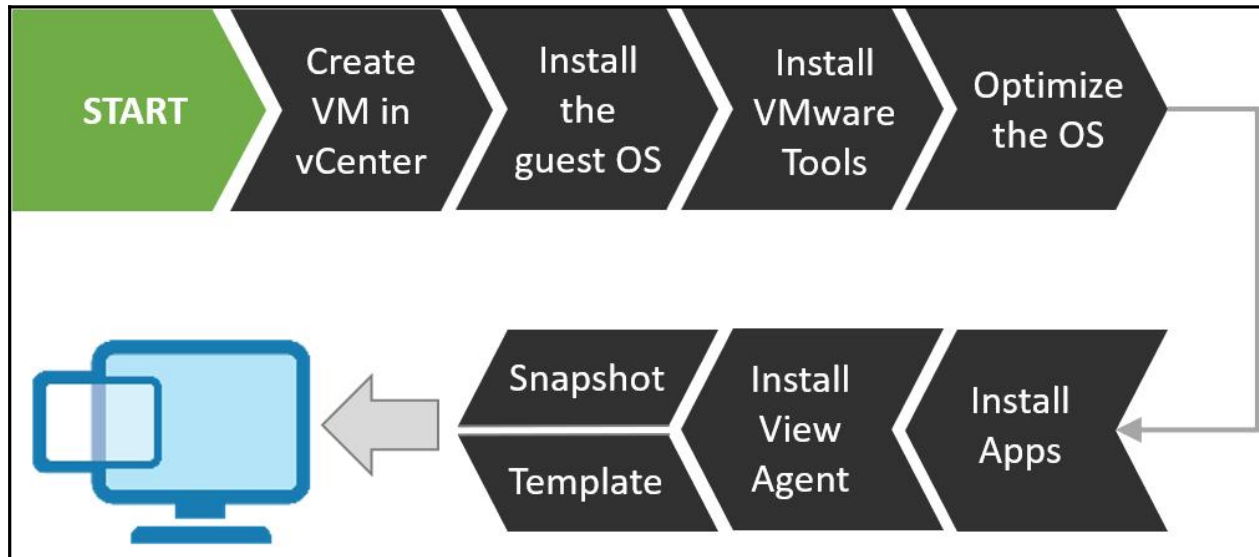
```
Administrator: C:\Windows\system32\cmd.exe

C:\>vdmutil --authAs administrator --authDomain PUOLAB --authPassword Ellie2007
--truesso --create --connector --domain pvolab.com --template HorizonTrueSSO --p
rimaryEnrollmentServer hzn7-enrol.pvolab.com --certificateServer pvolab-hzn7-cer
ts-ca --mode enabled
Connector created
Domain: pvolab.com
Mode: ENABLED

C:\>_
```



# Chapter 7: Building and Optimizing the Virtual Desktop OS



Component	Setting
CPU Requirements	Dual CPU for intensive workloads
	Single CPU for everything else
Memory	2 GB for 32-bit OS (3 GB maximum)
	4 GB for 64-bit OS and high-end graphics
SCSI Controller	LSI Logic SAS
Graphics Card	N/A as it will be overridden by pool settings
Diskette Drive	Set to disabled
Network Card	VMXNET 3
Optical Drive	Set to client device to mount ISO images
Serial and Parallel Port	Set to disabled

**User name:**

**Password:**

Use Windows session authentication

**Login**

## VMware® vCenter™ Single Sign-On

vm vSphere Client
Menu
Search
Administrator@VSPHERE.LOCAL

- Home
- Shortcuts
- Hosts and Clusters
- VMs and Templates
- Storage
- Networking
- Content Libraries
- Global Inventory Lists
- Policies and Profiles
- vRealize Operations
- Administration
- Tasks
- Events
- Tags & Custom Attribu...
- New Search

### Home

VCS2.PVOLAB.COM

**CPU**

5.53 GHz free

86 MHz used | 5.61 GHz total

**Memory**

2.63 GB free

1.37 GB used | 4 GB total

**Storage**

4.45 GB free

28.05 GB used | 32.5 GB total

**VMs** 1

0	1	0
Powered On	Powered Off	Suspended

**Hosts** 1

1	0	0
Connected	Disconnected	Maintenance

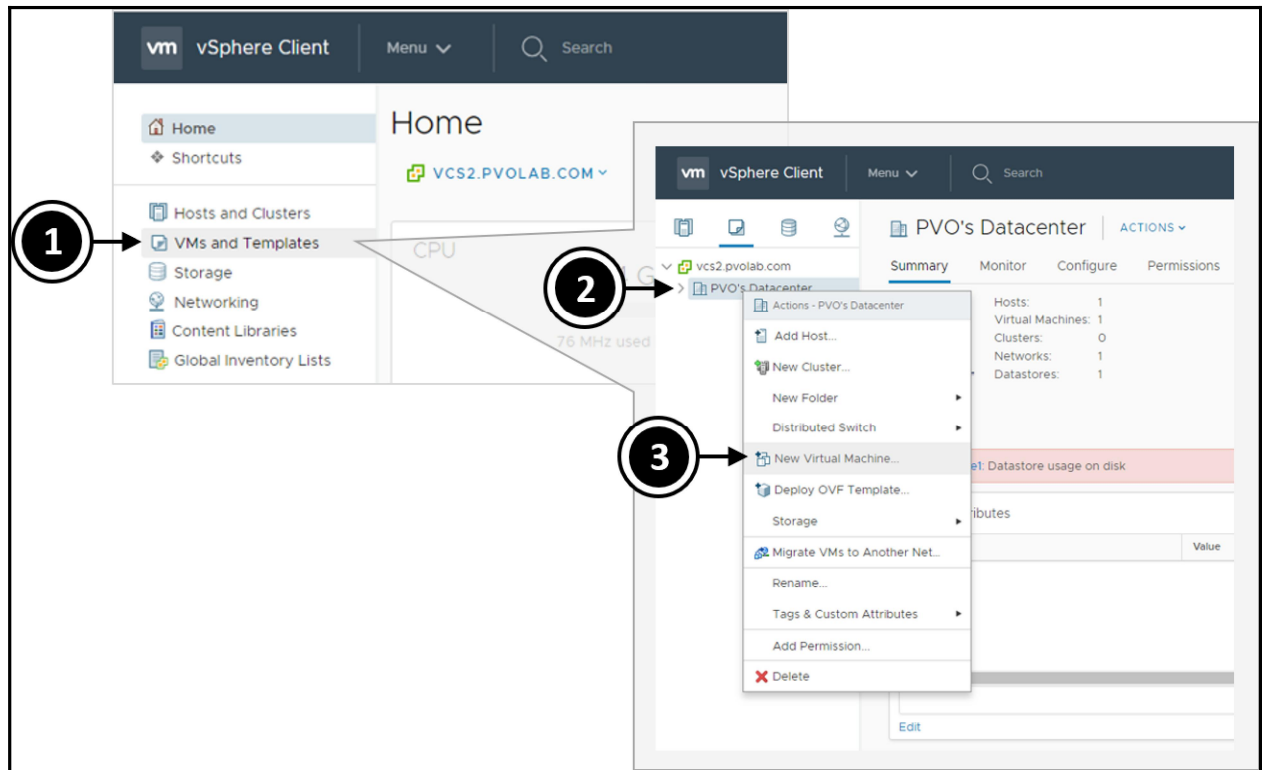
**Objects with most alerts** 2

Item	Alerts	Warnings
datastore1	1	0
vcs2.pvolab.com	0	1

**Installed Plugins** 2

- VMware vSAN HS Client Plugin
- celip

Recent Tasks
Alarms



## New Virtual Machine

### 1 Select a creation type

2 Select a name and folder

3 Select a compatibility

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

### Select a creation type

How would you like to create a virtual machine?

- Create a new virtual machine
- Deploy from template
- Clone an existing virtual machine
- Clone virtual machine to template
- Clone template to template
- Convert template to virtual machine

This option guides you through creating a new virtual machine. You will be able to customize processors, memory, network connections, and storage. You will need to install a guest operating system after creation.

CANCEL

BACK

NEXT

## New Virtual Machine

✓ 1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select a name and folder

Specify a unique name and target location

Virtual machine name: Windows 7 Gold Image

5

Select a location for the virtual machine.

▼ vcs2.pvolab.com

▶ PVO's Datacenter

6

CANCEL

BACK

NEXT

## New Virtual Machine

✓ 1 Select a creation type

✓ 2 Select a name and folder

**3 Select a compute resource**

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select a compute resource

Select the destination compute resource for this operation

▼ PVO's Datacenter

192.168.1.131

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT



## New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- 4 Select storage**
- 5 Select compatibility
- 6 Select a guest OS
- 7 Customize hardware
- 8 Ready to complete



### Select storage

Select the datastore in which to store the configuration and disk files

Encrypt this virtual machine (Requires Key Management Server)

VM Storage Policy: Datastore Default ▾

Name	Capacity	Provisioned	Free	Type
datastore1	32.5 GB	29.25 GB	4.45 GB	VM
VM Datastore	299.75 GB	973 MB	298.8 GB	VM

### Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

## New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- 5 Select compatibility**
- 6 Select a guest OS
- 7 Customize hardware
- 8 Ready to complete

### Select compatibility

Select compatibility for this virtual machine depending on the hosts in your environment

The host or cluster supports more than one VMware virtual machine version. Select a compatibility for the virtual machine.

Compatible with:



This virtual machine uses hardware version 13, which is compatible with ESXi 6.5 and later. Some virtual machine hardware features are unavailable with this option.

CANCEL

BACK

NEXT

## New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- 6 Select a guest OS**
- 7 Customize hardware
- 8 Ready to complete

### Select a guest OS

Choose the guest OS that will be installed on the virtual machine

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Guest OS Family:

Guest OS Version:

10

11

Compatibility: ESXi 6.5 and later (VM version 13)

CANCEL

BACK

NEXT

## New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- ✓ 6 Select a guest OS
- 7 Customize hardware**
- 8 Ready to complete

### Customize hardware

Configure the virtual machine hardware

Virtual Hardware VM Options

12

ADD NEW DEVICE

> CPU *	1	
> Memory	2	GB
> New Hard disk *	32	GB
> New SCSI controller *	LSI Logic SAS	

13

1

2

## New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- ✓ 6 Select a guest OS
- 7 Customize hardware**
- 8 Ready to complete

Customize hardware  
Configure the virtual machine hardware

Virtual Hardware VM Options

ADD NEW DEVICE

14

> CPU *	2		
> Memory	2	GB	
> New Hard disk *	32	GB	
> New SCSI controller *	LSI Logic SAS		
> New Network *	VM Network		
Status	<input checked="" type="checkbox"/> Connect At Power On		
Adapter Type	E1000		
MAC Address	E1000 E1000E VMXNET 3		Automatic
> New CD/DVD Drive	Client Device		<input type="checkbox"/> Connect...
> Video card *	Specify custom settings		
VMCI device	Device on the virtual machine PCI bus that provides support for the virtual machine		

CANCEL

BACK

NEXT

## New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- ✓ 6 Select a guest OS
- 7 Customize hardware**
- 8 Ready to complete

Customize hardware  
Configure the virtual machine hardware

Virtual Hardware VM Options

ADD NEW DEVICE

> CPU *	2		
> Memory	2	GB	
> New Hard disk *	32	GB	
> New SCSI controller *	LSI Logic SAS		
▼ New Network *	VM Network		
Status	<input checked="" type="checkbox"/> Connect At Power On		
Adapter Type	E1000		
MAC Address			Automatic
> New CD/DVD Drive *	Client Device <input type="checkbox"/> Connect...		
> Video card *	Client Device		
	Host Device		
	Datastore ISO File		
	Content Library ISO File		
VMCI device	e PCI bus that provides support for the virtual machine		

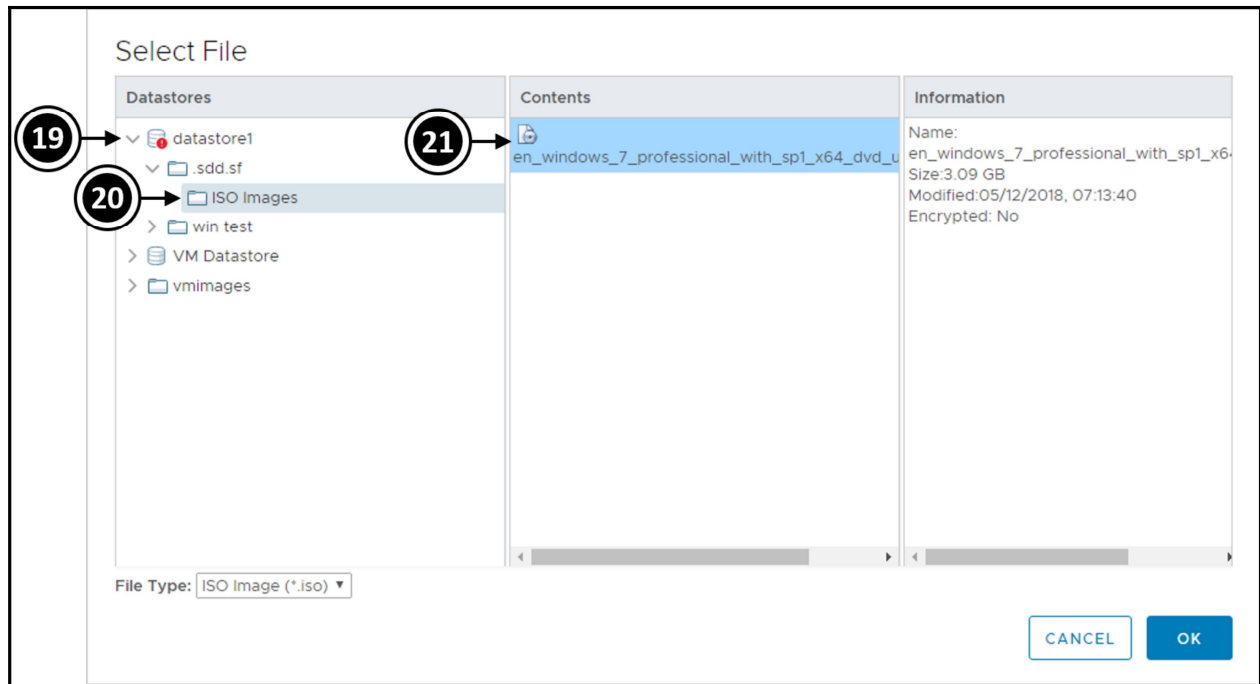
17

18

CANCEL

BACK

NEXT



## New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- ✓ 6 Select a guest OS
- ✓ 7 **Customize hardware**
- 8 Ready to complete

### Customize hardware

Configure the virtual machine hardware

Virtual Hardware **VM Options** ← 23

> General Options	VM Name: Windows 7 Gold Image
> VMware Remote Console Options	<input type="checkbox"/> Lock the guest operating system when the last remote user disconnects
> Encryption	Expand for encryption settings
> Power management	Expand for power management settings
> VMware Tools	Expand for VMware Tools settings
24 > <b>Boot Options</b>	
Firmware	BIOS (recommended) ▾
Boot Delay	When powering on or resetting, delay boot order by 0 milliseconds
Force BIOS setup	<input checked="" type="checkbox"/> ← 25 During the next boot, force entry into the BIOS setup screen
Failed Boot Recovery	

CANCEL

BACK

NEXT

## New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- ✓ 6 Select a guest OS
- ✓ 7 Customize hardware
- 8 Ready to complete**

Ready to complete  
Click Finish to start creation.

Provisioning type	Create a new virtual machine
Virtual machine name	Windows 7 Gold Image
Folder	PVO's Datacenter
Host	192.168.1.131
Datastore	VM Datastore
Guest OS name	Microsoft Windows 7 (64-bit)
Virtualization Based Security	Disabled
CPUs	2
Memory	2 GB
NICs	1
NIC 1 network	VM Network
NIC 1 type	VMXNET 3
SCSI controller 1	LSI Logic SAS

Compatibility: ESXi 6.5 and later (VM version 13)

CANCEL

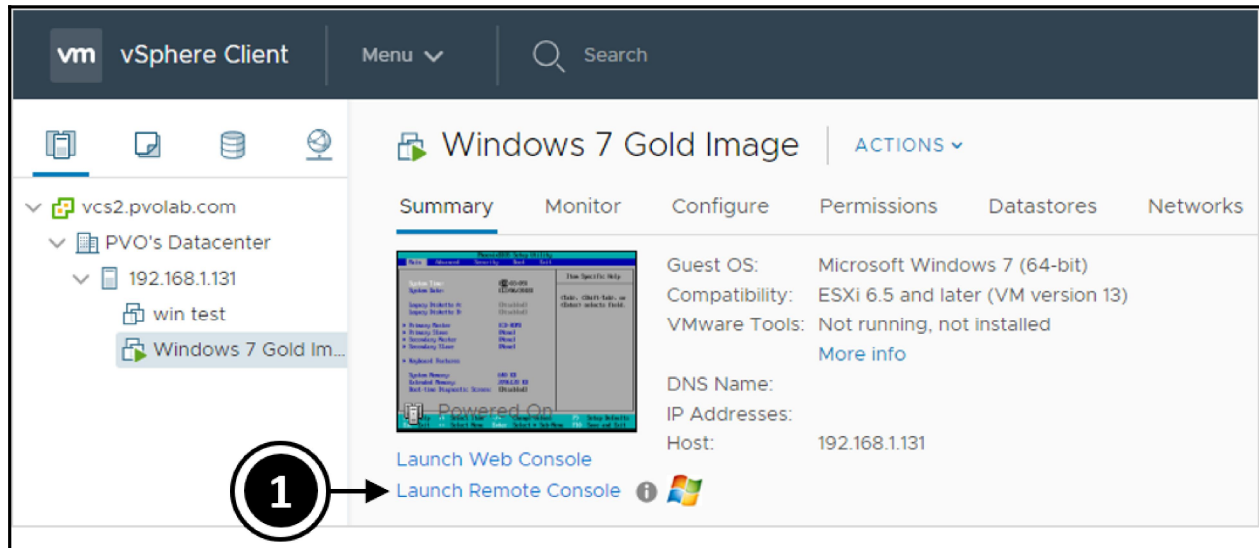
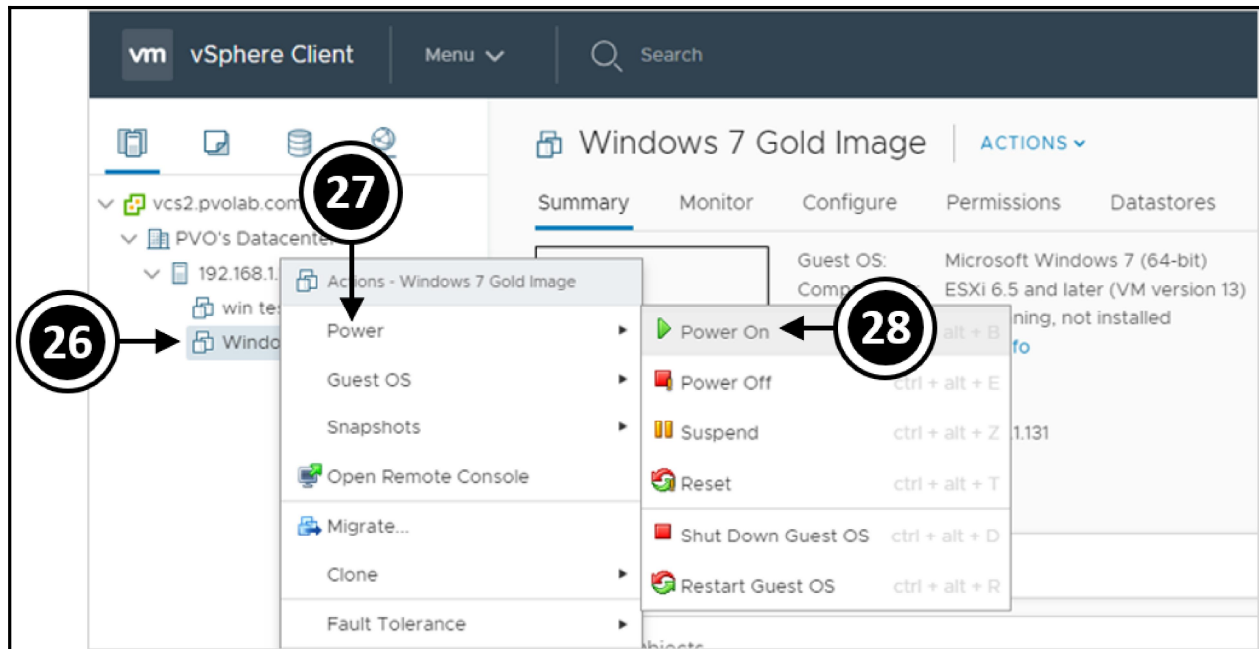
BACK

FINISH

### Recent Tasks    Alarms

Task Name	Target	Status
Create virtual machine	 PVO's Datacenter	✓ Completed





**PhoenixBIOS Setup Utility**

Main   **Advanced**   Security   Boot   Exit

<p>System Time: [15:45:29]  System Date: [05/24/2016]</p> <p>Legacy Diskette A: [1.44/1.25 MB 3½"] ← <b>2</b>  Legacy Diskette B: [Disabled]</p> <p>▶ Primary Master [None]  ▶ Primary Slave [None]  ▶ Secondary Master [None]  ▶ Secondary Slave [None]</p> <p>▶ Keyboard Features</p> <p>System Memory: 640 KB  Extended Memory: 2096128 KB  Boot-time Diagnostic Screen: [Disabled]</p>	<p style="text-align: center;">Item Specific Help</p> <p>Selects floppy type. Note that 1.25 MB 3½" references a 1024 byte/sector Japanese media format. The 1.25 MB, 3½" diskette requires</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;"><b>3</b></p> <p><b>Disabled</b></p> <table style="width: 100%; border-collapse: collapse;"> <tr><td>360 Kb</td><td>5¼"</td></tr> <tr><td>1.2 MB</td><td>5¼"</td></tr> <tr><td>720 Kb</td><td>3½"</td></tr> <tr><td>1.44/1.25 MB</td><td>3½"</td></tr> <tr><td>2.88 MB</td><td>3½"</td></tr> </table> </div>	360 Kb	5¼"	1.2 MB	5¼"	720 Kb	3½"	1.44/1.25 MB	3½"	2.88 MB	3½"
360 Kb	5¼"										
1.2 MB	5¼"										
720 Kb	3½"										
1.44/1.25 MB	3½"										
2.88 MB	3½"										

F1 Help ↑↓ Select Item -/+ Change Values F9 Setup Defaults  
Esc Exit ↔ Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit

**4**

↓

**5** →

**PhoenixBIOS Setup Utility**

Main   **Advanced**   Security   Boot   Exit

<p>Multiprocessor Specification: [1.4]  Installed O/S: [Other]  Reset Configuration Data: [No]</p> <p>▶ Cache Memory  ▶ I/O Device Configuration  Large Disk Access Mode: [DOS]  Local Bus IDE adapter: [Both]  ▶ Advanced Chipset Control</p>	<p style="text-align: center;">Item Specific Help</p> <p>Peripheral Configuration</p>
--	---

F1 Help ↑↓ Select Item -/+ Change Values F9 Setup Defaults  
Esc Exit ↔ Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit

**PhoenixBIOS Setup Utility**

**Advanced**

I/O Device Configuration	Item Specific Help
Serial port A: [Disabled] Serial port B: [Disabled] Parallel port: [Disabled] Floppy disk controller: [Disabled]	<div style="border: 1px solid black; padding: 5px; display: inline-block;">             Disabled              Enabled              Auto           </div> <span style="font-size: 2em; border: 1px solid black; border-radius: 50%; padding: 5px; margin-left: 10px;">6</span>

F1 Help ↑↓ Select Item -/+ Change Values F9 Setup Defaults  
 Esc Exit ↔ Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit

**Setup Confirmation**

**Save configuration changes and exit now?**

7
→
Yes
[No]

Windows 7 Gold Image | ACTIONS ▾

Summary Monitor Configure Permissions Datastores Networks

<p>Launch Web Console Launch Remote Console</p>	<p>Guest OS: Microsoft Windows 7 (64-bit)            Compatibility: ESXi 6.5 and later (VM version 13)            VMware Tools: Not running, not installed            More info</p> <p>DNS Name:            IP Addresses:            Host: 192.168.1.131</p>	<p>CPU USAGE 1.29 GHz</p> <p>MEMORY USAGE 1.98 GB</p> <p>STORAGE USAGE 34.11 GB</p>
---	--	---

⚠ VMware Tools is not installed on this virtual machine.
 1
→ [Install VMware Tools...](#)

---

## Install VMware Tools



VMware Tools includes drivers to improve graphics, mouse, networking, and storage for VMware virtual devices.

Click Mount to mount the disk image with VMware Tools on the virtual CD/DVD drive of the virtual machine. Then, go to the console to run the VMware Tools Install wizard from the virtual CD/DVD.

Click Cancel if the guest OS is not running. The guest OS of the virtual machine must be running to install VMware Tools.

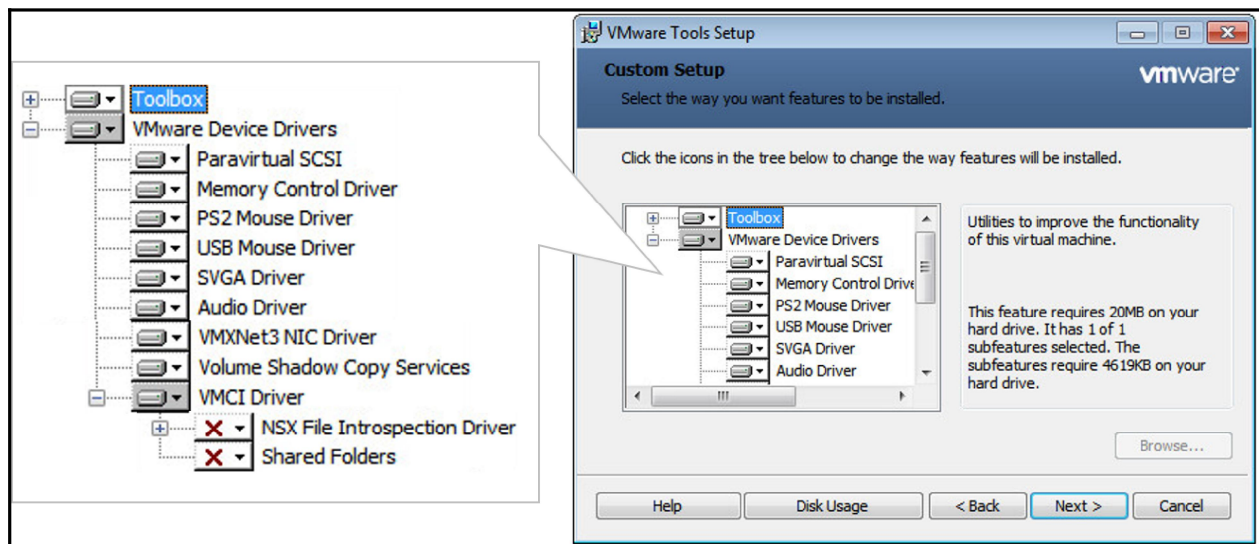
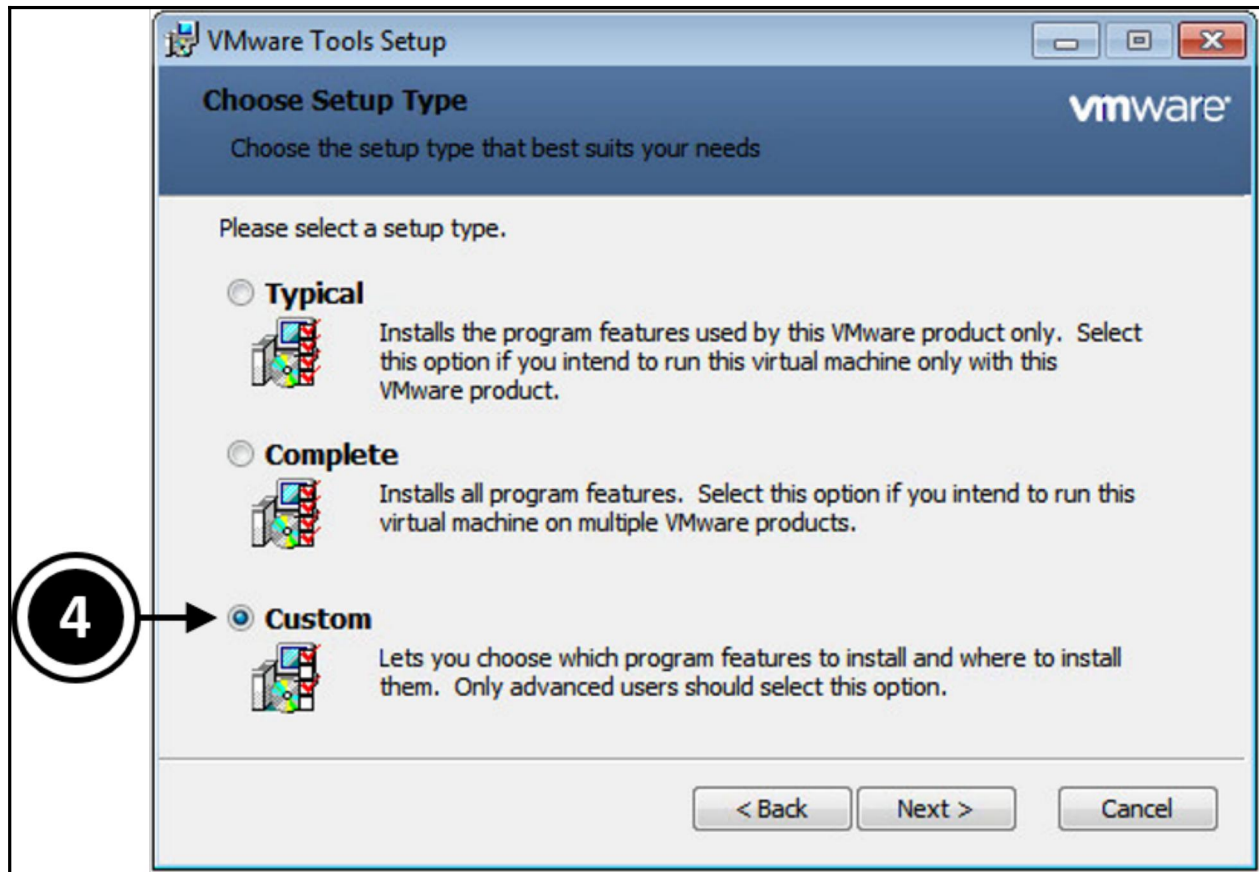
CANCEL

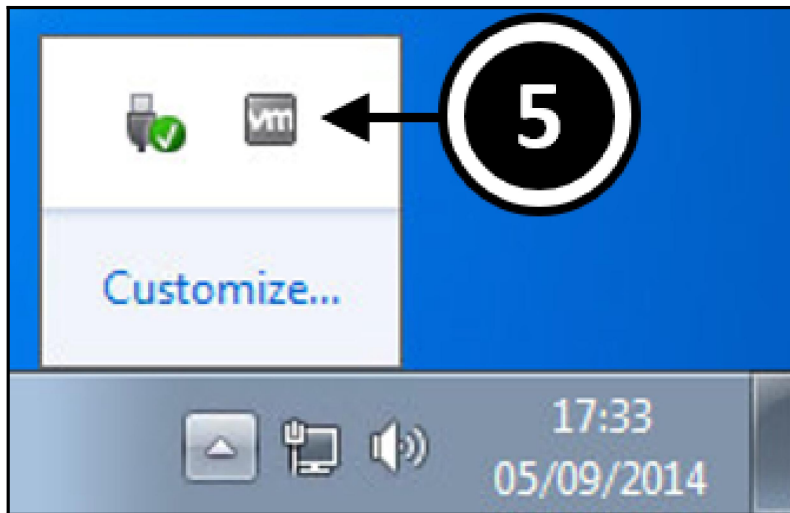
MOUNT



2



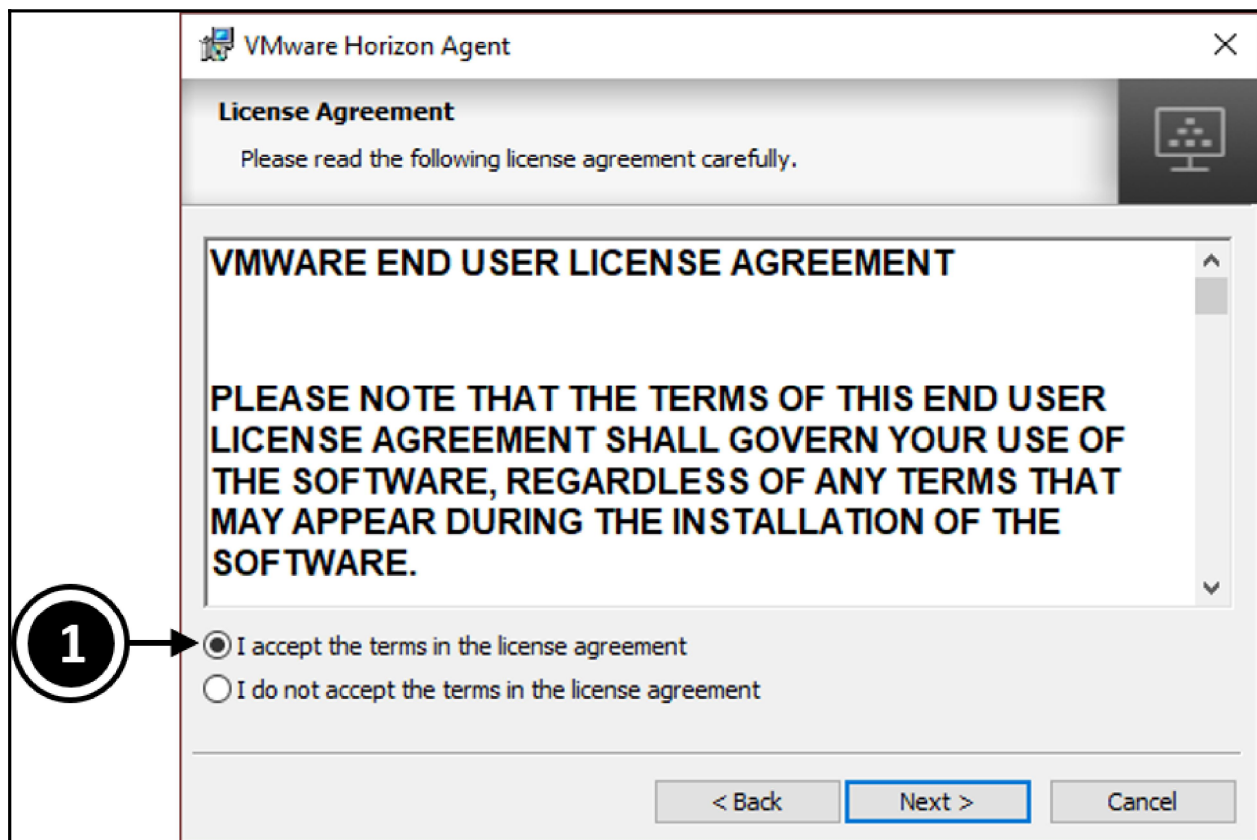


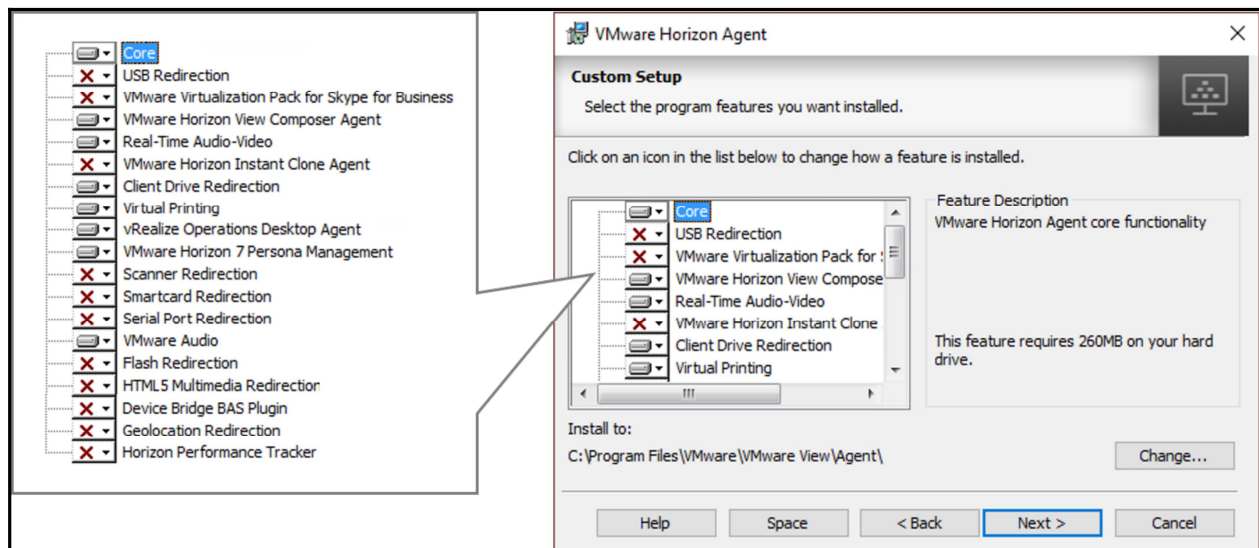
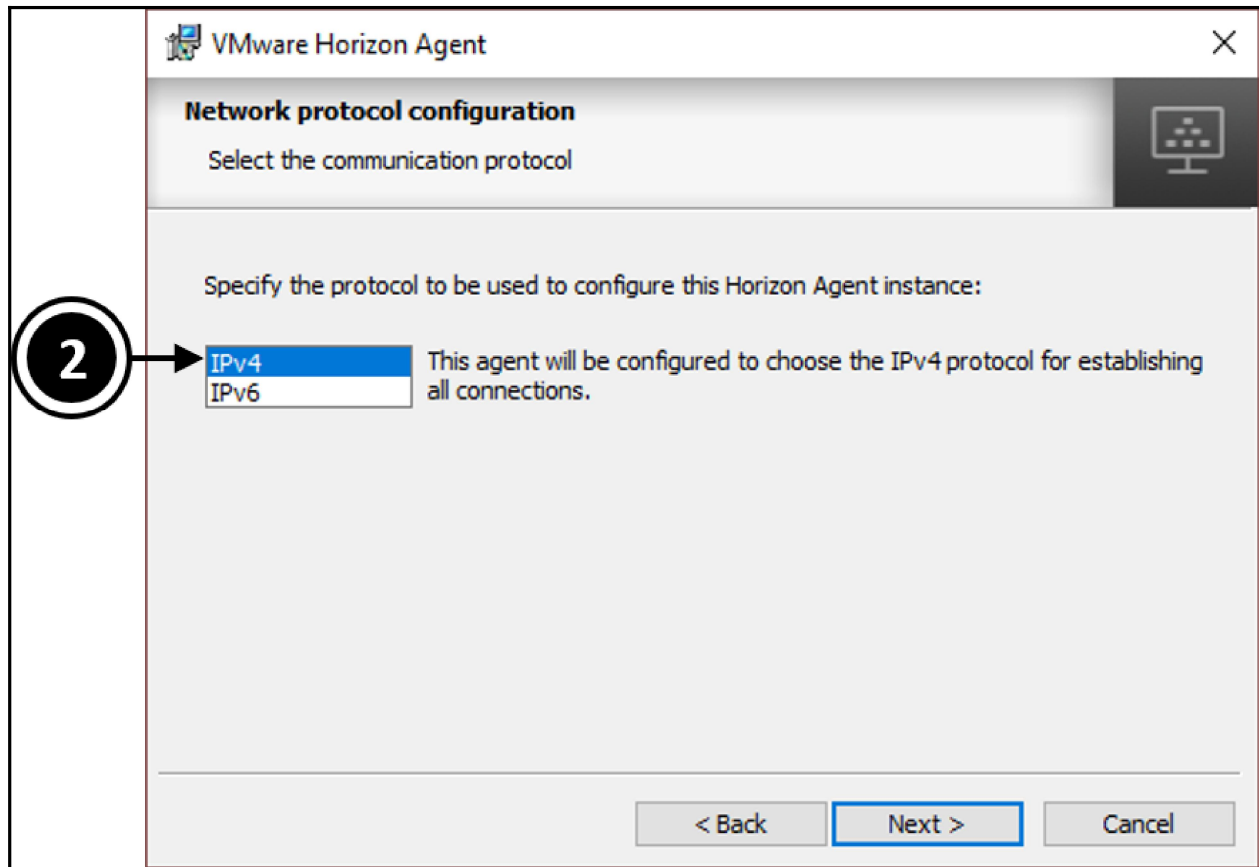


Services (Local)

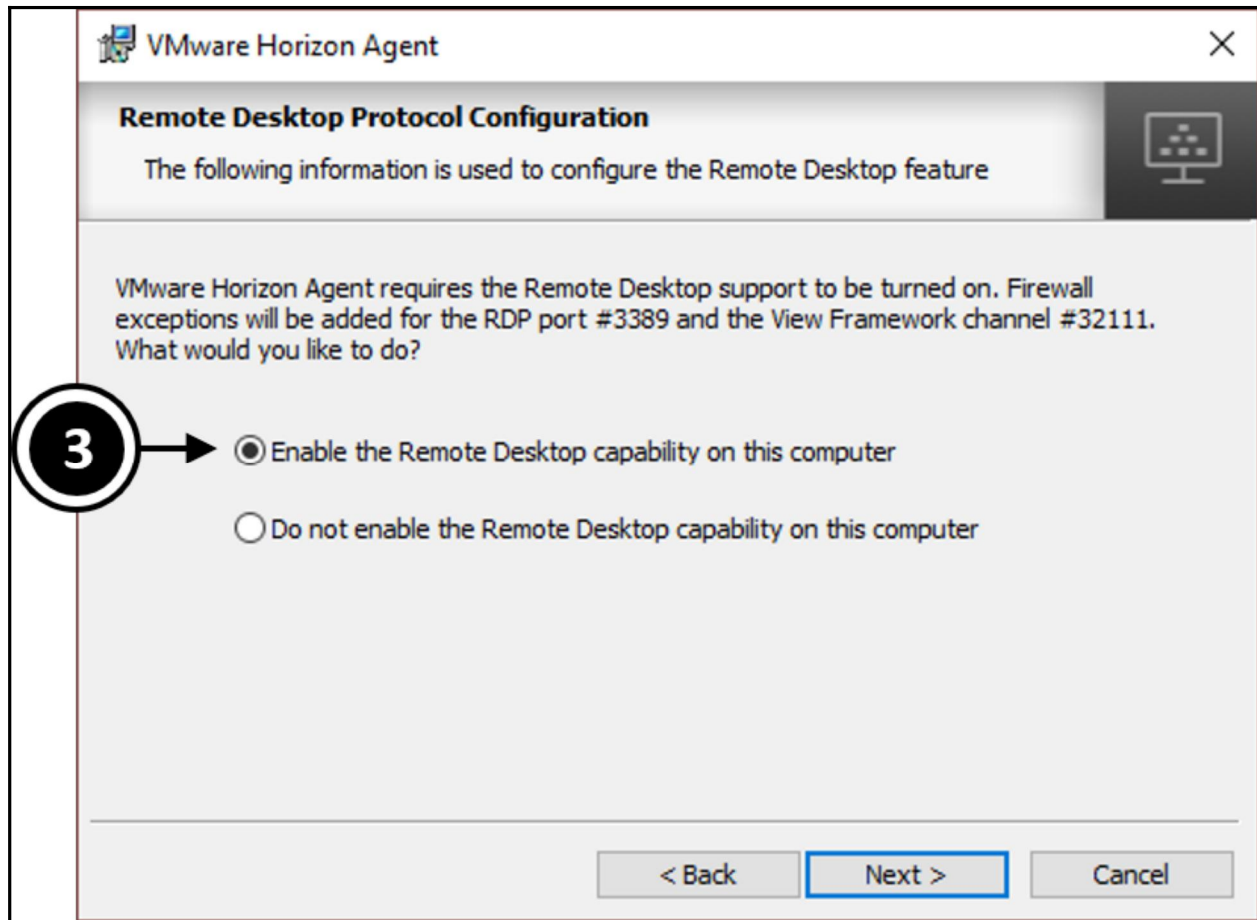
Name	Description	Status	Startup Type	Log On As
VMware Alias Ma...	Alias Manager and Ticket Service	Started	Automatic	Local Syste...
VMware Snapshot...	VMware Snapshot Provider		Manual	Local Syste...
VMware Tools	Provides support for synchronizing objects between the host...	Started	Automatic	Local Syste...
Volume Shadow C...	Manages and implements Volume Shadow Copies used for b...		Manual	Local Syste...

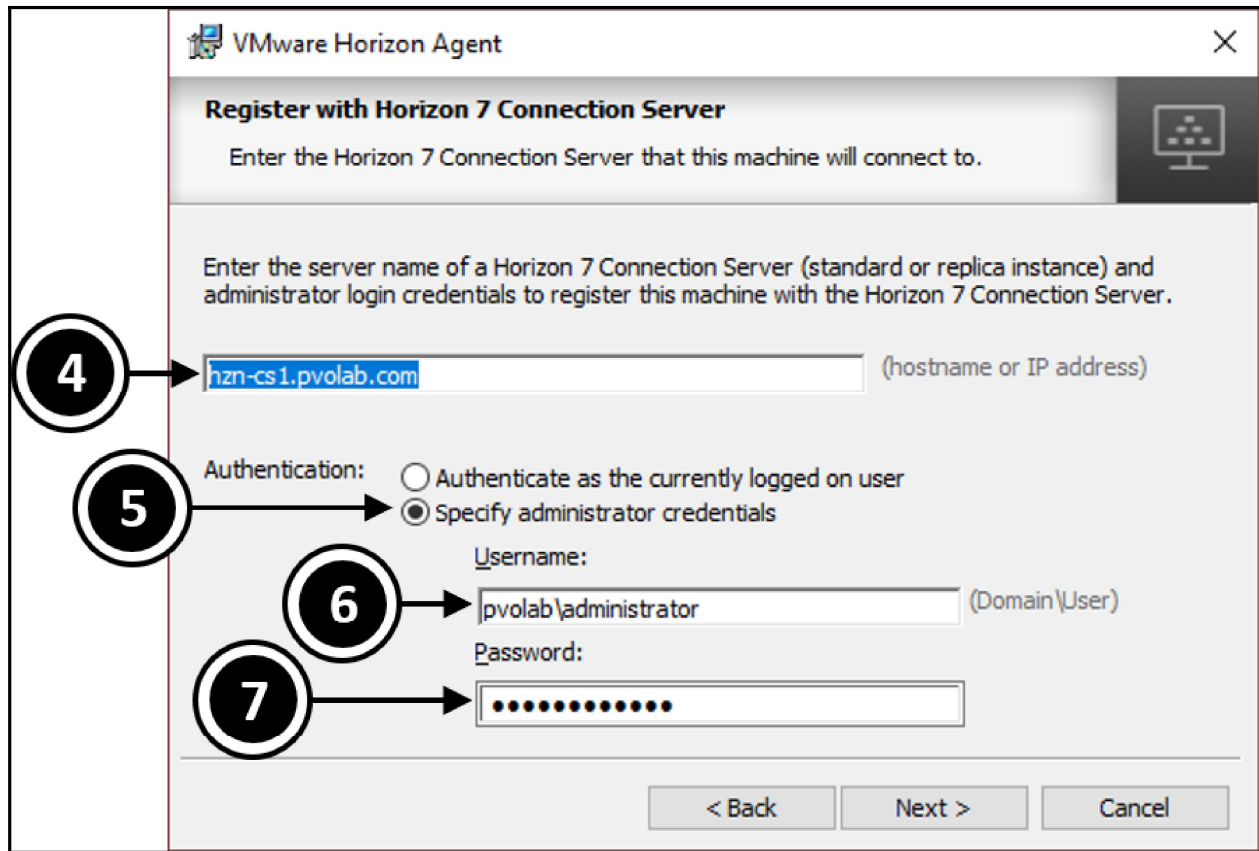
Stop the service  
Pause the service  
Restart the service






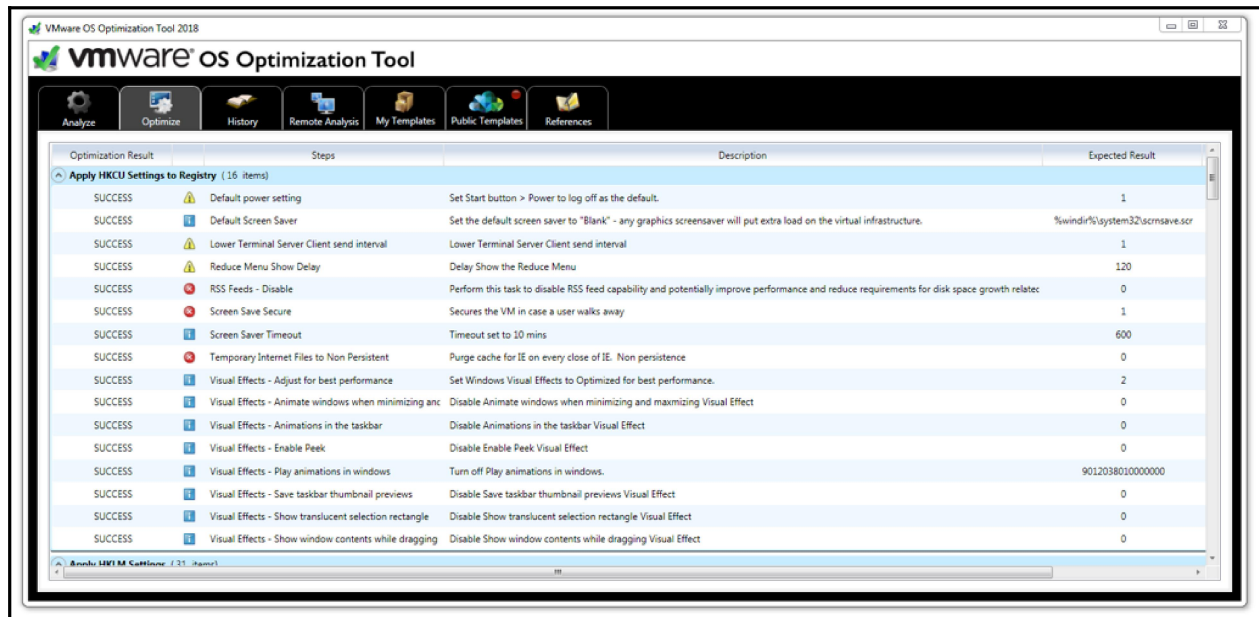
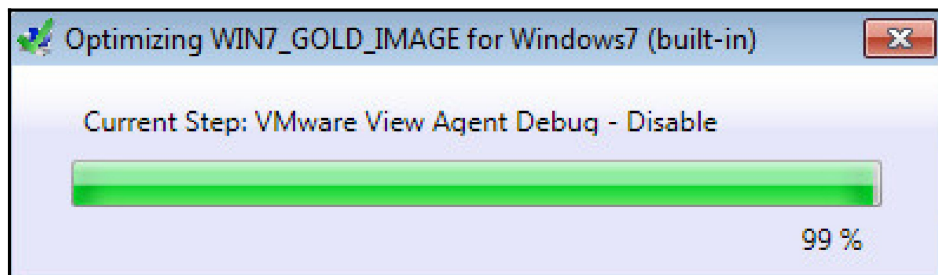
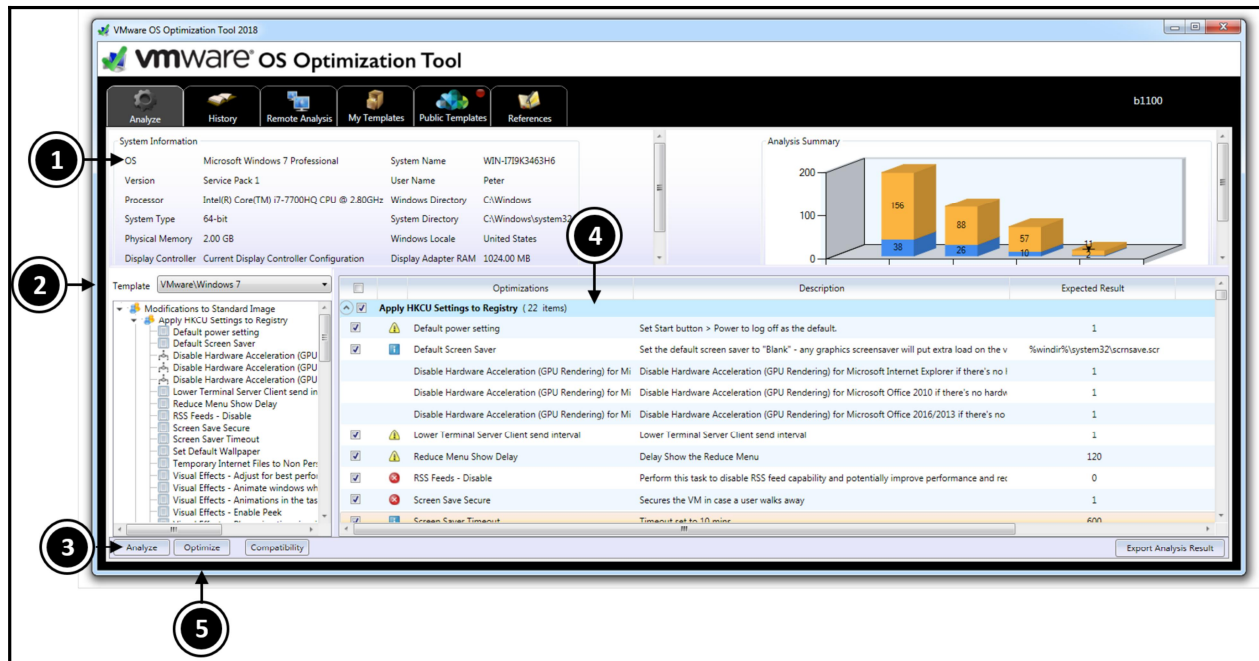








Name	Date modified	Type	Size
 VMwareOSOptimizationTool	07/12/2018 08:38	Application	12,550 KB
 VMwareOSOptimizationTool.exe.config	07/12/2018 08:38	CONFIG File	1 KB
 VMwareOSOptimizationTool_b1100_932...	07/12/2018 08:38	Compressed (zipp...	4,010 KB



### New Virtual Machine

- ✓ 1 Select a creation type
- 2 Select a name and folder**
- 3 Select a compute resource
- 4 Select storage
- 5 Select compatibility
- 6 Select a guest OS
- 7 Customize hardware
- 8 Ready to complete

Select a name and folder  
Specify a unique name and target location

Virtual machine name:  **1**

Select a location for the virtual machine.

- ✓ vcs2.pvolab.com
- PVO's Datacenter**

### New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- 6 Select a guest OS**
- 7 Customize hardware
- 8 Ready to complete

Select a guest OS  
Choose the guest OS that will be installed on the virtual machine

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Guest OS Family:  **3**

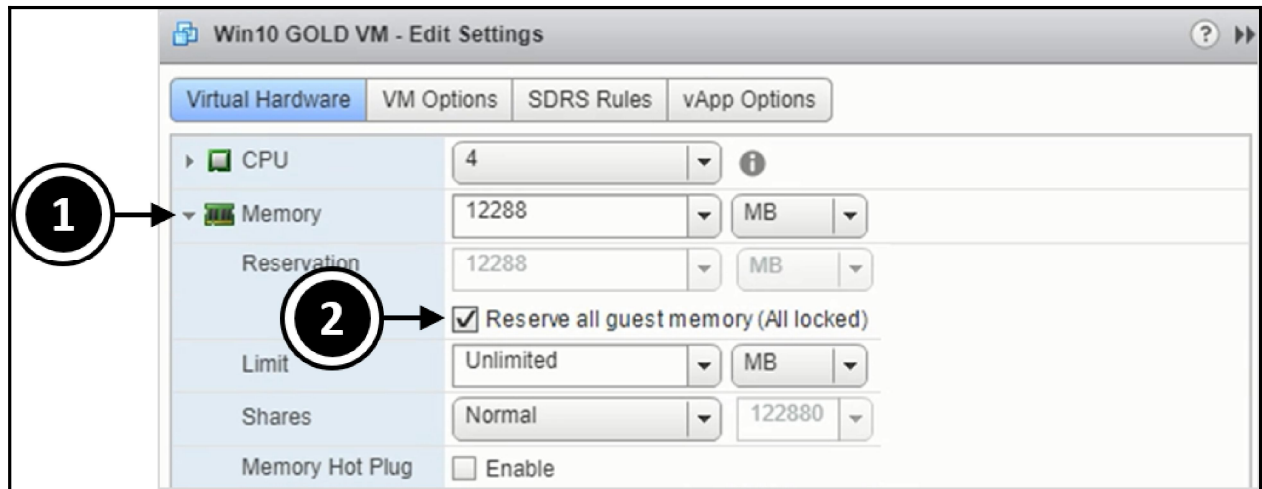
Guest OS Version:  **4**

### Select File

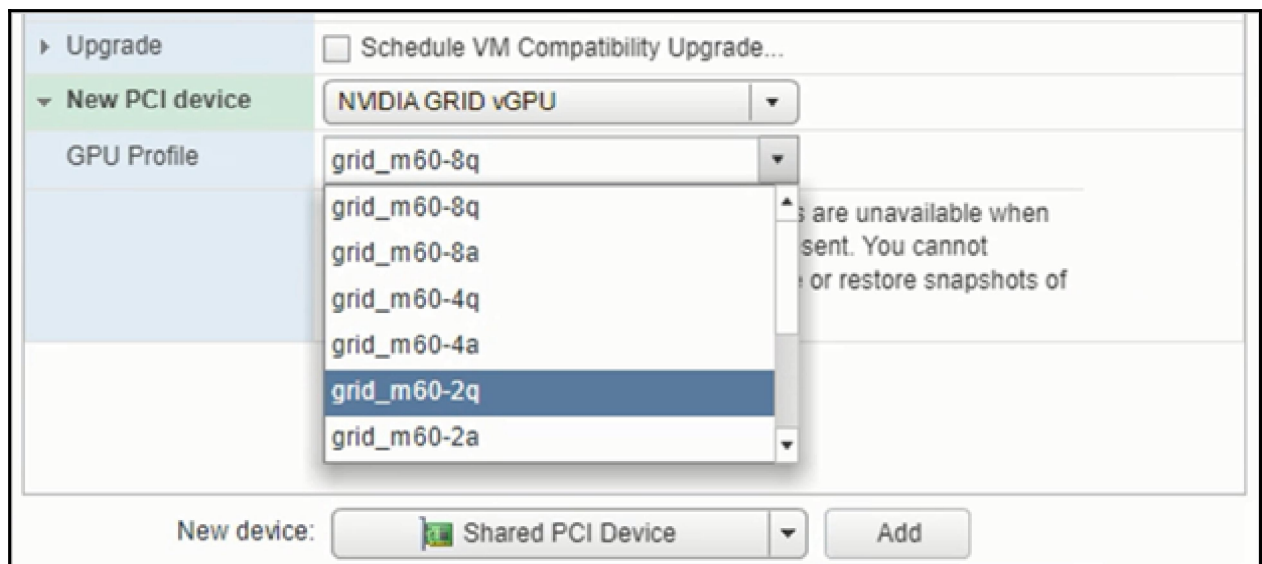
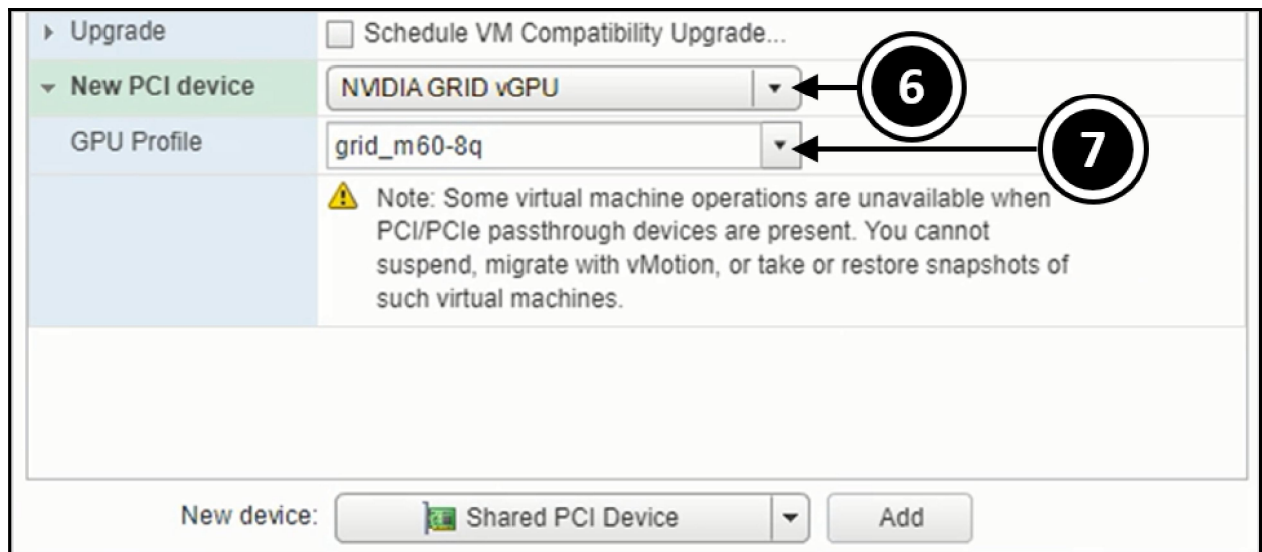
**5** → **6** → **7**

Datstores	Contents	Information
<ul style="list-style-type: none"> <li>datastore1</li> <li>  sdd.sf</li> <li>    <b>ISO Images</b></li> <li>    win test</li> <li>  VM Datastore</li> <li>  vmimages</li> </ul>	<ul style="list-style-type: none"> <li>en-gb_windows_10_enterprise_version_1511_x64_dvd_7224923.iso</li> <li>en_windows_7_professional_with_sp1_x64_dvd_u_676939.iso</li> </ul>	<p>Name: en-gb_windows_10_enterprise_...</p> <p>Size: 3.58 GB</p> <p>Modified: 10/12/2018, 08:42:01</p> <p>Encrypted: No</p>

File Type:







---

## NVIDIA Driver Downloads

---

**Option 1:** Manually find drivers for my NVIDIA products.

[Help](#)

Product Type:

Product Series:

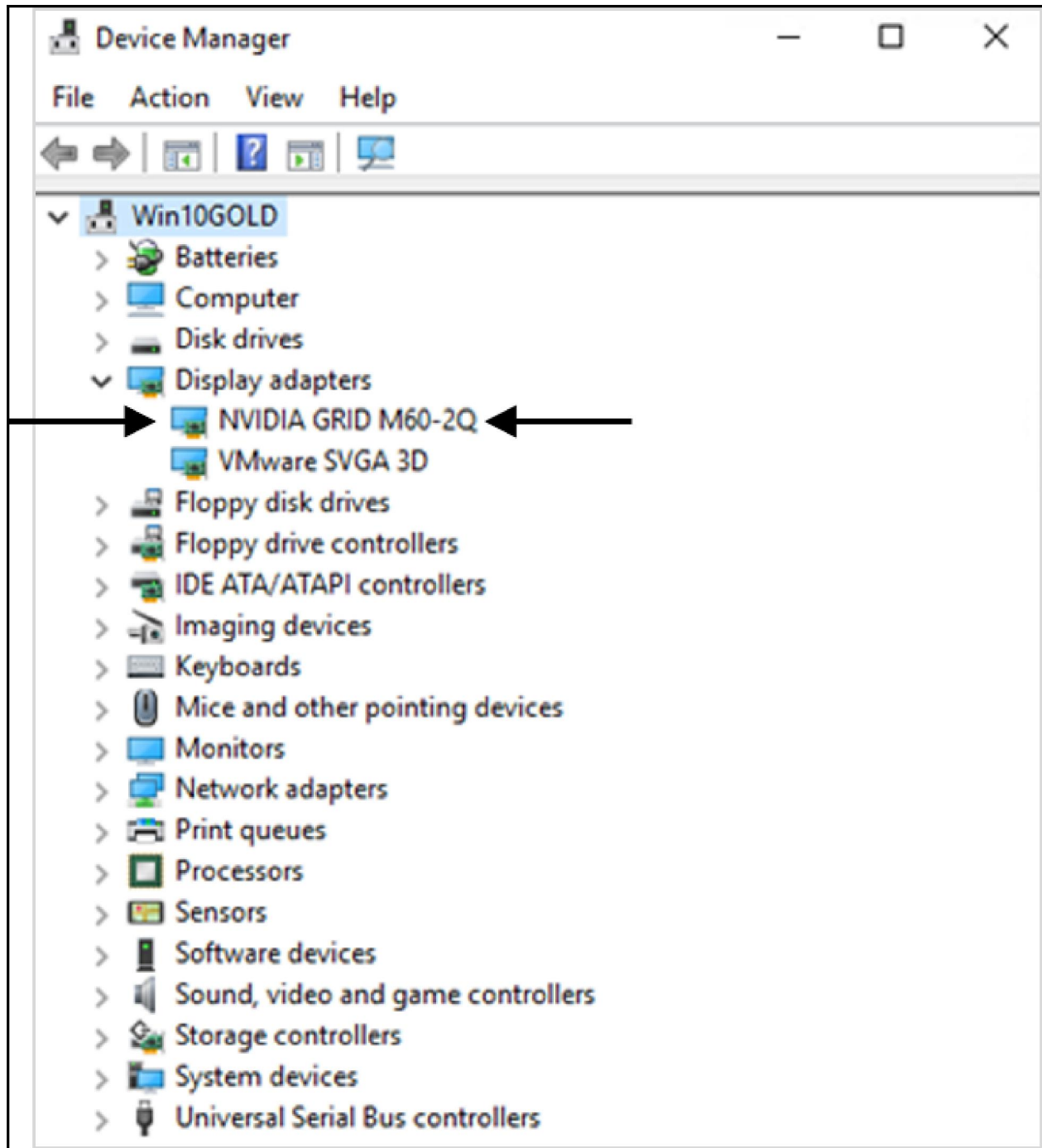
Product:

Operating System:

Language:

**SEARCH**





### New Virtual Machine

- ✓ 1 Select a creation type
- 2 Select a name and folder**
- 3 Select a compute resource
- 4 Select storage
- 5 Select compatibility
- 6 Select a guest OS
- 7 Customize hardware
- 8 Ready to complete

**Select a name and folder**  
Specify a unique name and target location

Virtual machine name:  **1**

Select a location for the virtual machine.

- ✓ vcs2.pvolab.com
- PVO's Datacenter**

### New Virtual Machine

- ✓ 1 Select a creation type
- ✓ 2 Select a name and folder
- ✓ 3 Select a compute resource
- ✓ 4 Select storage
- ✓ 5 Select compatibility
- 6 Select a guest OS**
- 7 Customize hardware
- 8 Ready to complete

**Select a guest OS**  
Choose the guest OS that will be installed on the virtual machine

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Guest OS Family:  **3**

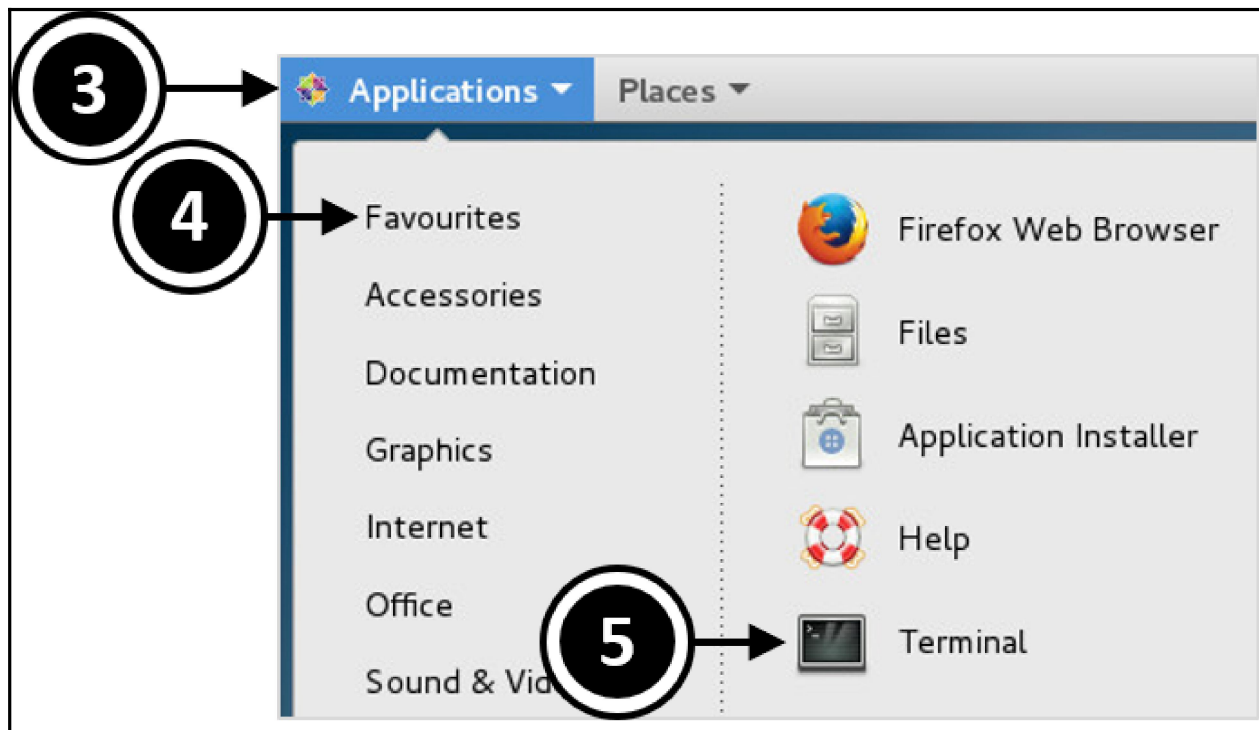
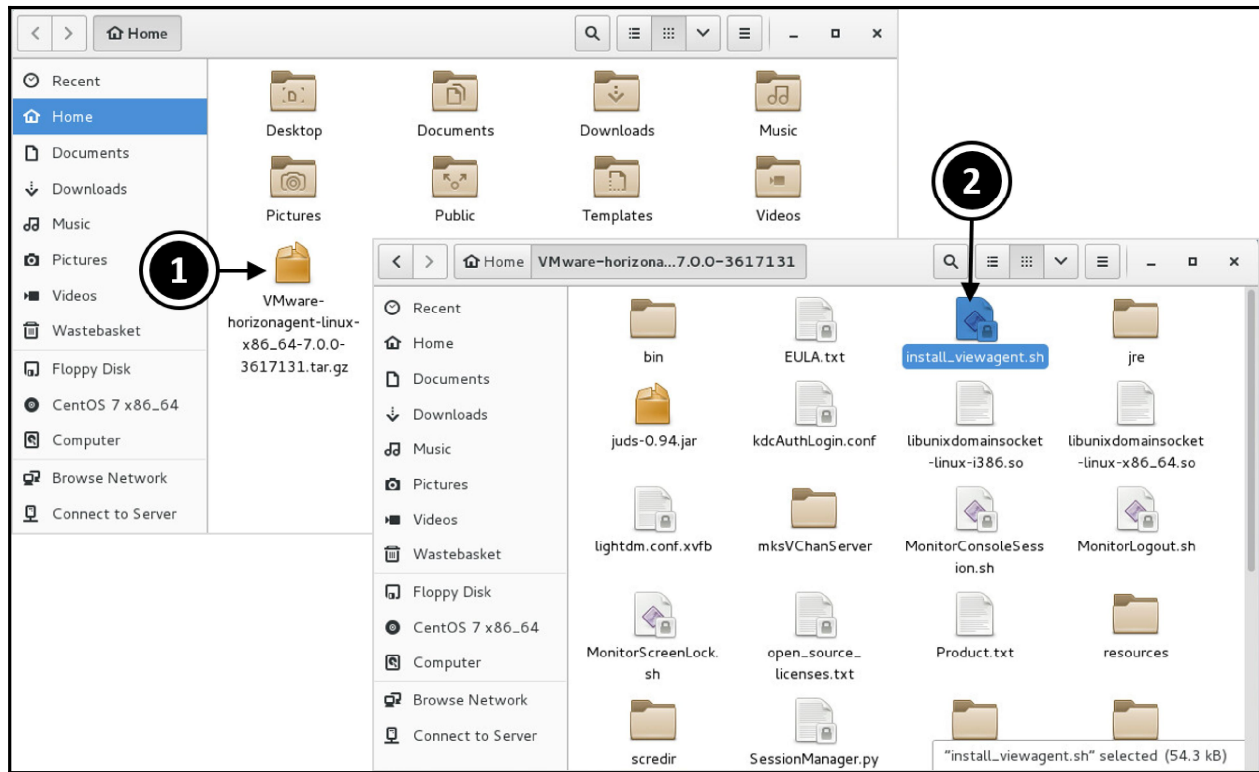
Guest OS Version:  **4**

### Select File

Datstores	Contents	Information
<ul style="list-style-type: none"> <li>datastore1</li> <li>.sdd.sf</li> <li><b>ISO Images</b></li> <li>win test</li> <li>VM Datastore</li> <li>vmimages</li> </ul>	<ul style="list-style-type: none"> <li><b>CentOS-7-x86_64-DVD-1511.iso</b></li> </ul>	<p>Name: CentOS-7-x86_64-DVD-1511.iso            Size: 4.03 GB            Modified: 10/12/2018, 16:05:03            Encrypted: No</p>

File Type:

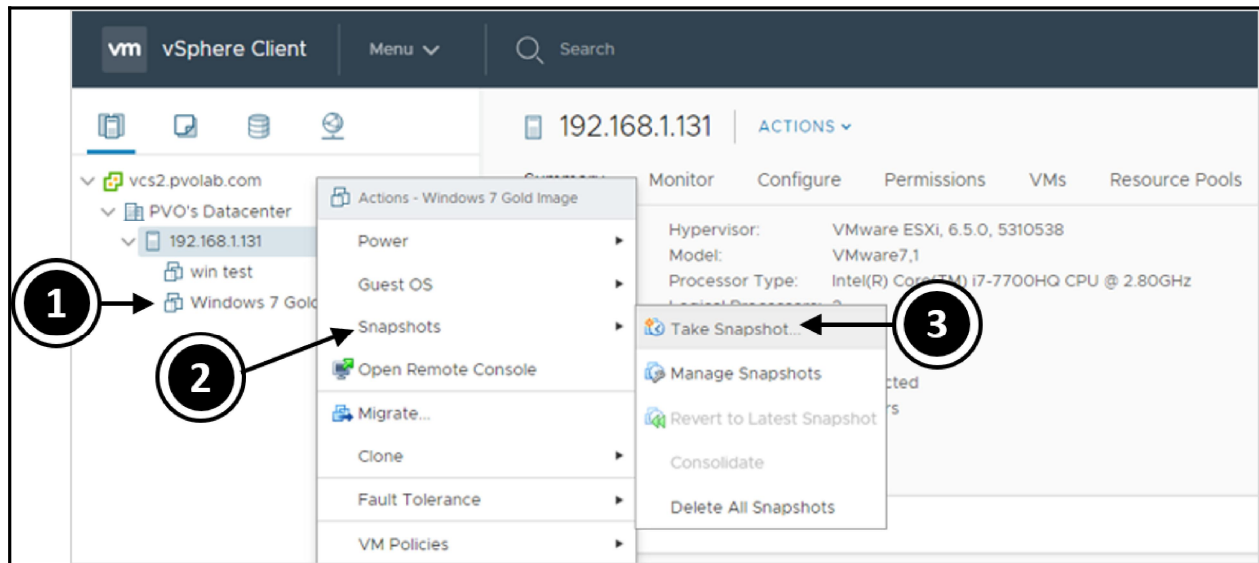
**5** → **6** → **7**

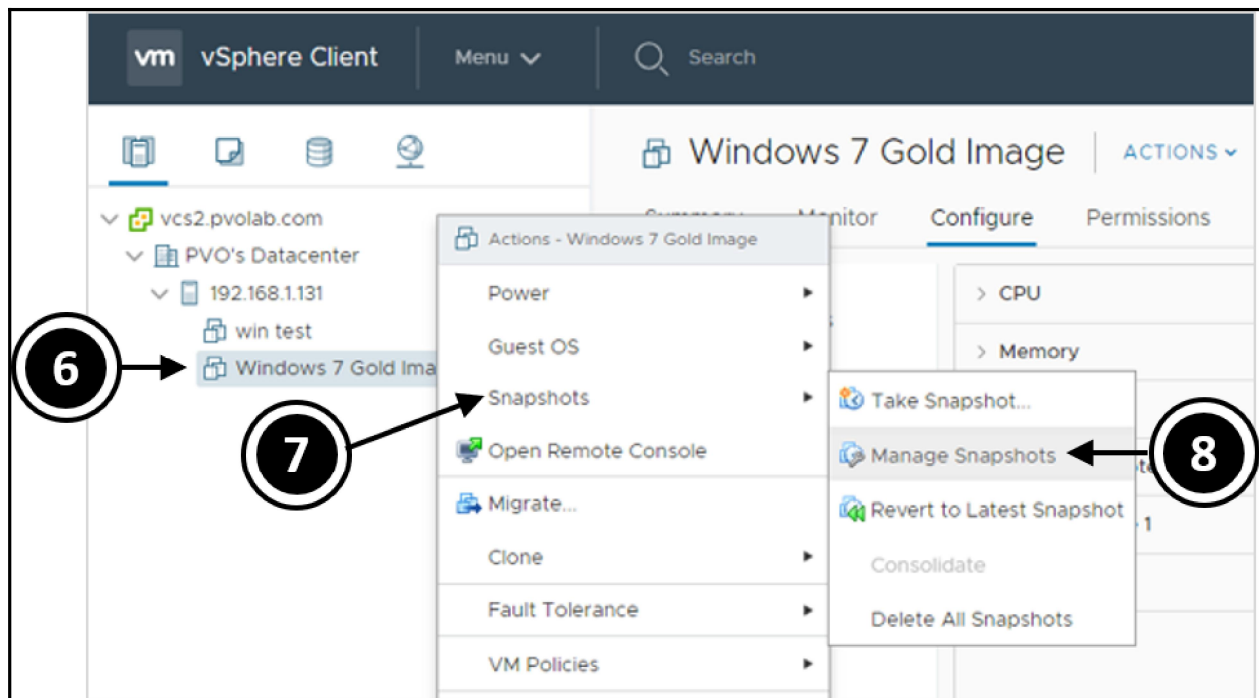
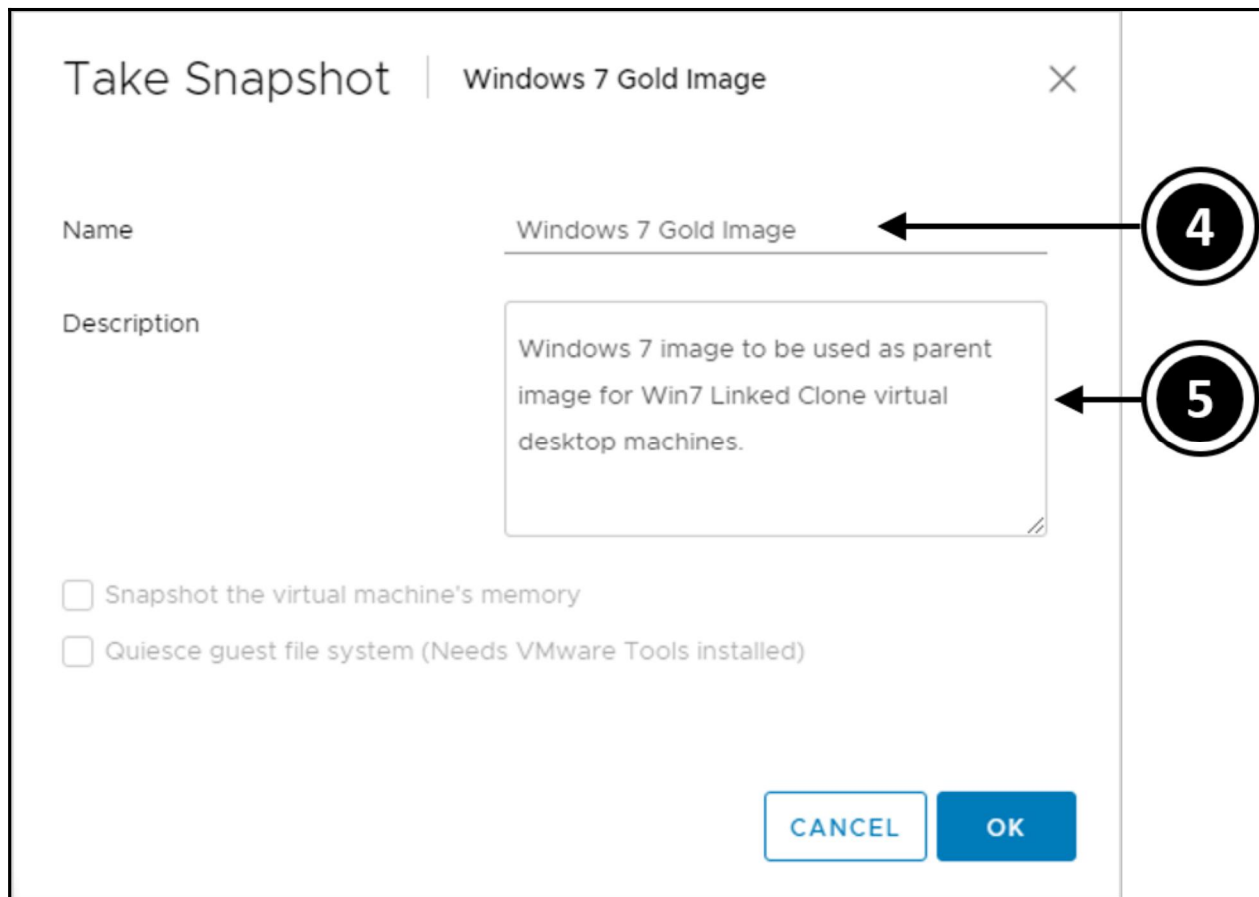


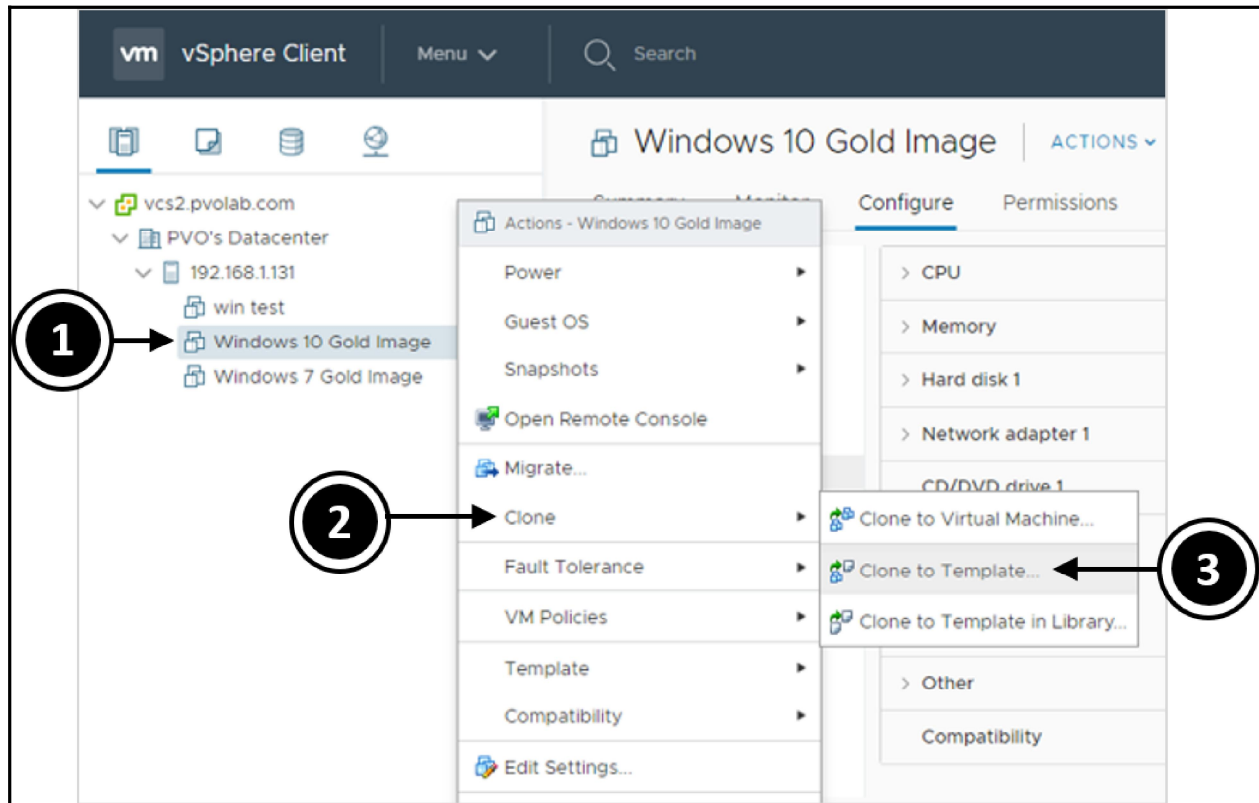
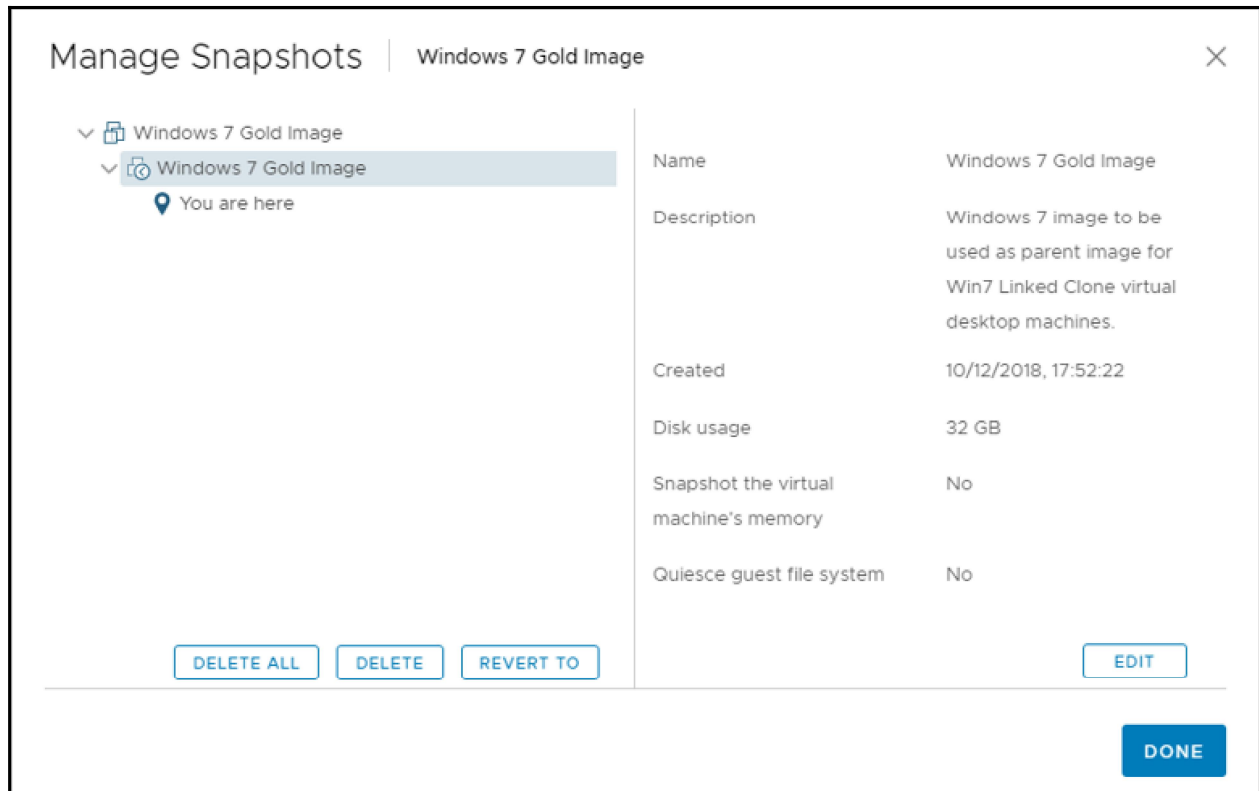
```
Desktop    Pictures    VMware-horizonagent-linux-x86_64-7.0.0-3617131
Documents  Public      VMware-horizonagent-linux-x86_64-7.0.0-3617131.tar.gz
Downloads  Templates
Music      Videos
[root@linux-desktop pvo]# cd VMware-horizonagent-linux-x86_64-7.0.0-3617131/
```

```
root@linux-desktop:/home/pvo/VMware-horizonagent-linux-x86_64-7.0.0-3617131 - □ ×
File Edit View Search Terminal Help
be the exclusive jurisdiction for disputes arising out of or in connection with
this EULA. The U.N. Convention on Contracts for the International Sale of
Goods does not apply.
12.8 Third Party Rights. Other than as expressly set out in this EULA,
this EULA does not create any rights for any person who is not a party to
it, and no person who is not a party to this EULA may enforce any of its
terms or rely on any exclusion or limitation contained in it.
12.9 Order of Precedence. In the event of conflict or inconsistency
among the Product Guide, this EULA and the Order, the following order of
precedence shall apply: (a) the Product Guide, (b) this EULA and (c) the
Order. With respect to any inconsistency between this EULA and an
Order, the terms of this EULA shall supersede and control over any
conflicting or additional terms and conditions of any Order,
acknowledgement or confirmation or other document issued by You.
12.10 Entire Agreement. This EULA, including accepted Orders and any
amendments hereto, and the Product Guide contain the entire agreement
of the parties with respect to the subject matter of this EULA and
supersede all previous or contemporaneous communications,
representations, proposals, commitments, understandings and
agreements, whether written or oral, between the parties regarding the
subject matter hereof. This EULA may be amended only in writing signed
by authorized representatives of both parties.
12.11 Contact Information. Please direct legal notices or other
correspondence to VMware, Inc., 3401 Hillview Avenue, Palo Alto,
California 94304, United States of America, Attention: Legal Department.
Are you sure to install linux agent (y/n)?
```

```
root@linux-desktop:/home/pvo/VMware-horizonagent-linux-x86_64-7.0.0-3617131 - □ ×
File Edit View Search Terminal Help
/C=US/ST=California/O=VMware/CN=linux-desktop.pvolab.com
Defaulting to Xorg X server
Warning: Unable to find libpng12.so.0, Clipboard Redirection will not work
Begin to create vmware blast server group vmwblast
Blast server group vmwblast already exists
Begin to create vmware blast server account vmwblast
Blast server account vmwblast already exists.
Generating a 2048 bit RSA private key
.....+++
.....+++
writing new private key to '/etc/vmware/ssl/rui.key'
-----
Signature ok
subject=/C=US/ST=California/O=VMware/CN=linux-desktop.pvolab.com
Getting Private key
Created symlink from /etc/systemd/system/multi-user.target.wants/viewagent.service
to /usr/lib/systemd/system/viewagent.service.
Redirecting to /bin/systemctl start viewagent.service
Your VM is configured as 2D/vSGA, please check guide for "Recommended Video Memory
(vRAM) Settings".
If you have any questions or issues to Linux VDI, please post at https://communit
ies.vmware.com/community/vmtn/horizon/vmware-horizon-for-linux, and we will respo
nse you as soon as possible.
You must restart your system for the configuration changes make to VMware Horizon
Agent to take effect.
[root@linux-desktop VMware-horizonagent-linux-x86_64-7.0.0-3617131]#
```







## Windows 10 Gold Image - Clone Virtual Machine To Template

**1 Select a name and folder**

Select a name and folder

2 Select a compute resource

Specify a unique name and target location

3 Select storage

4 Ready to complete

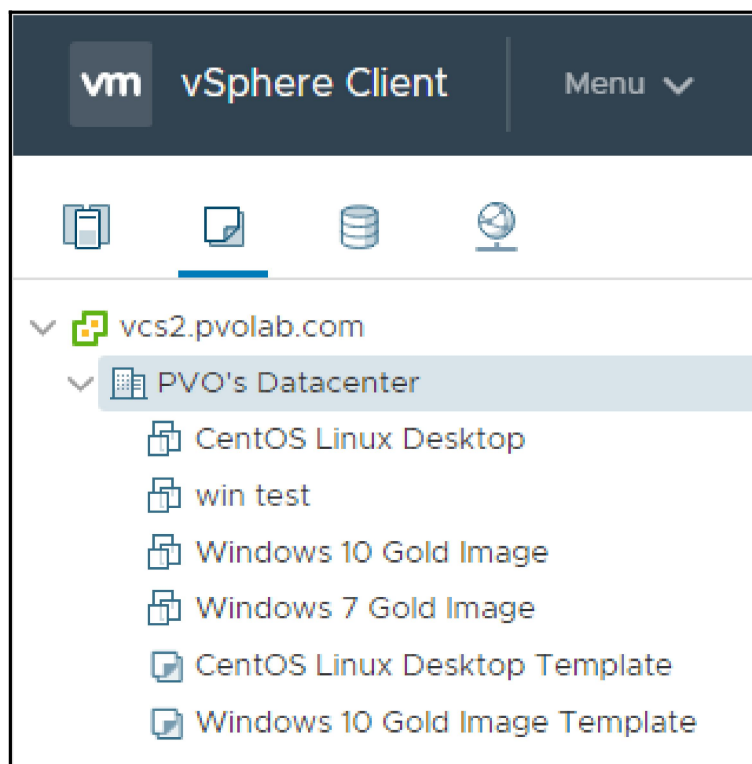
VM template name: Windows 10 Gold Image Template

4

Select a location for the template.

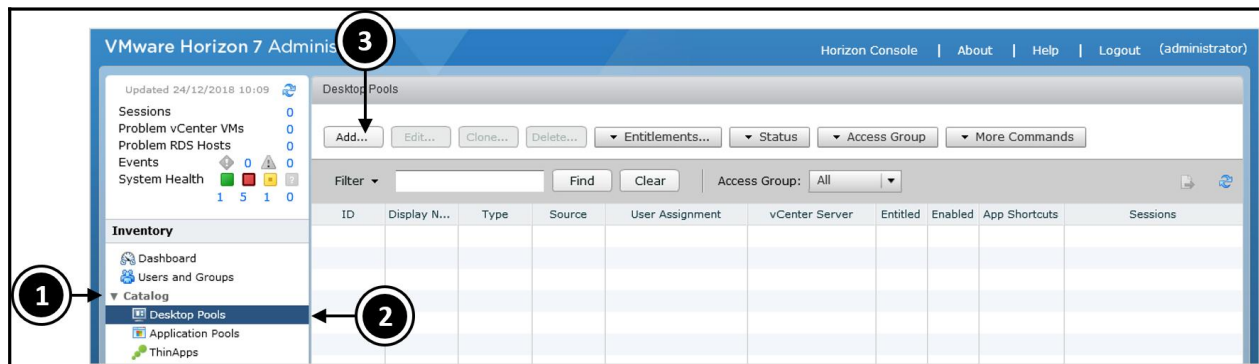
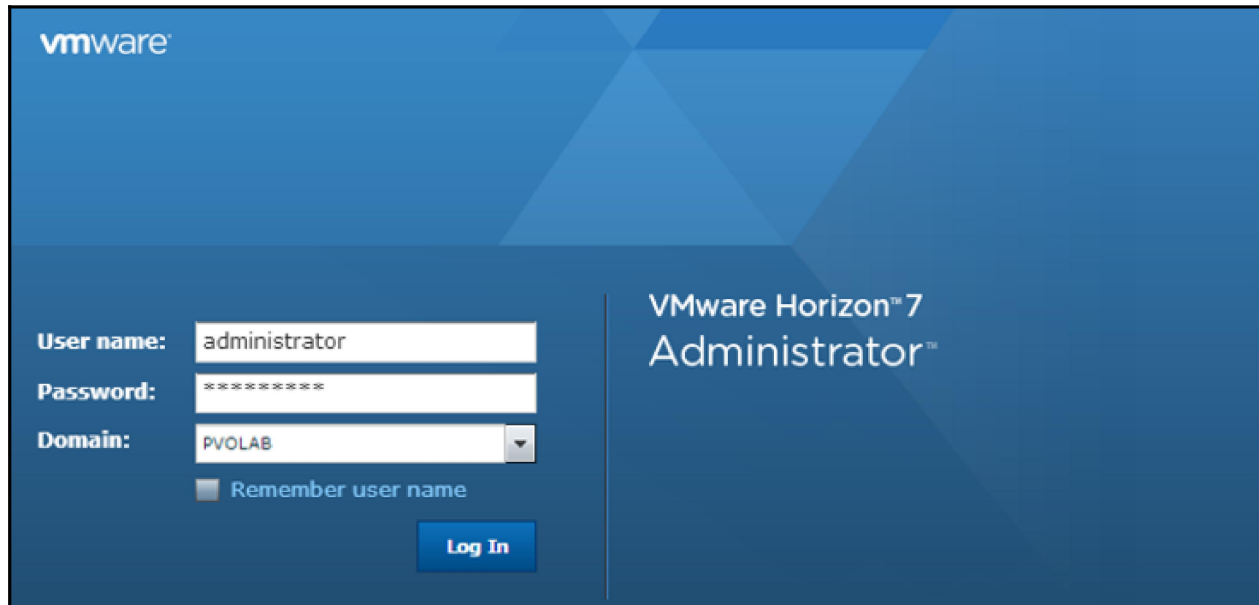
5

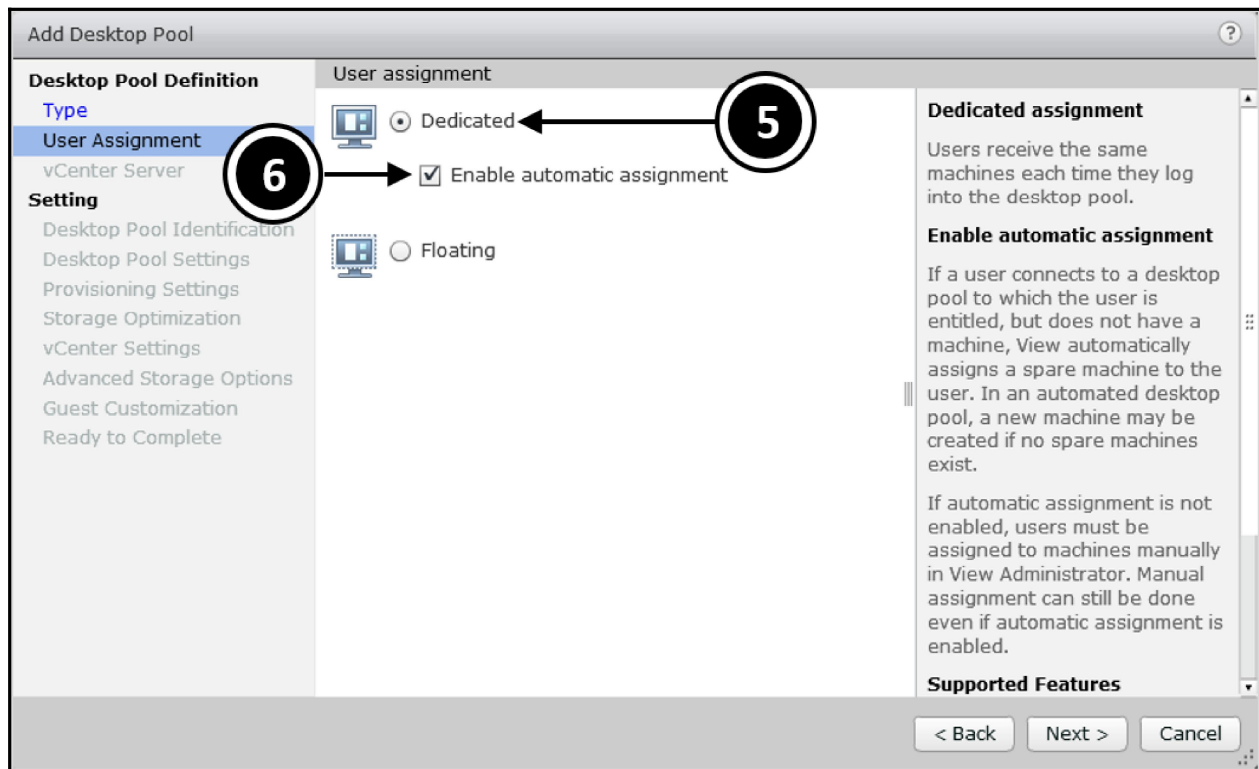
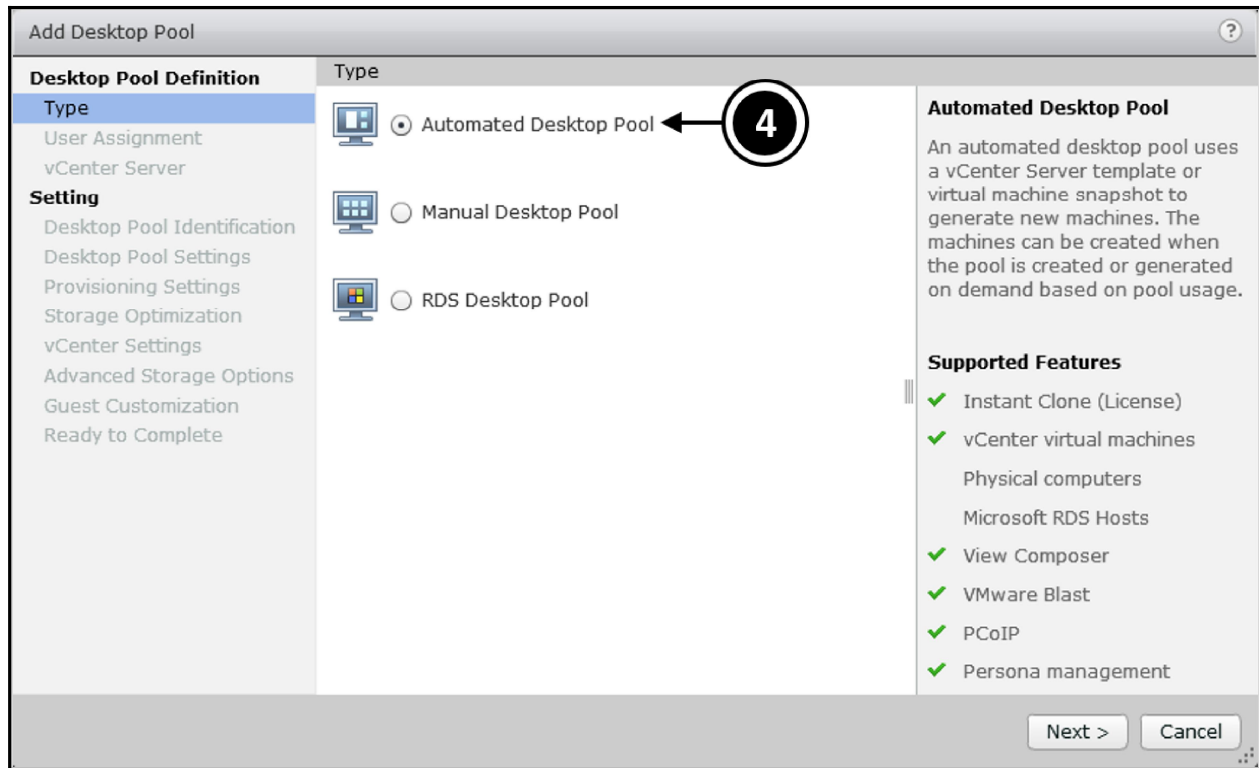
- ▼ vcs2.pvolab.com
- ▶ PVO's Datacenter

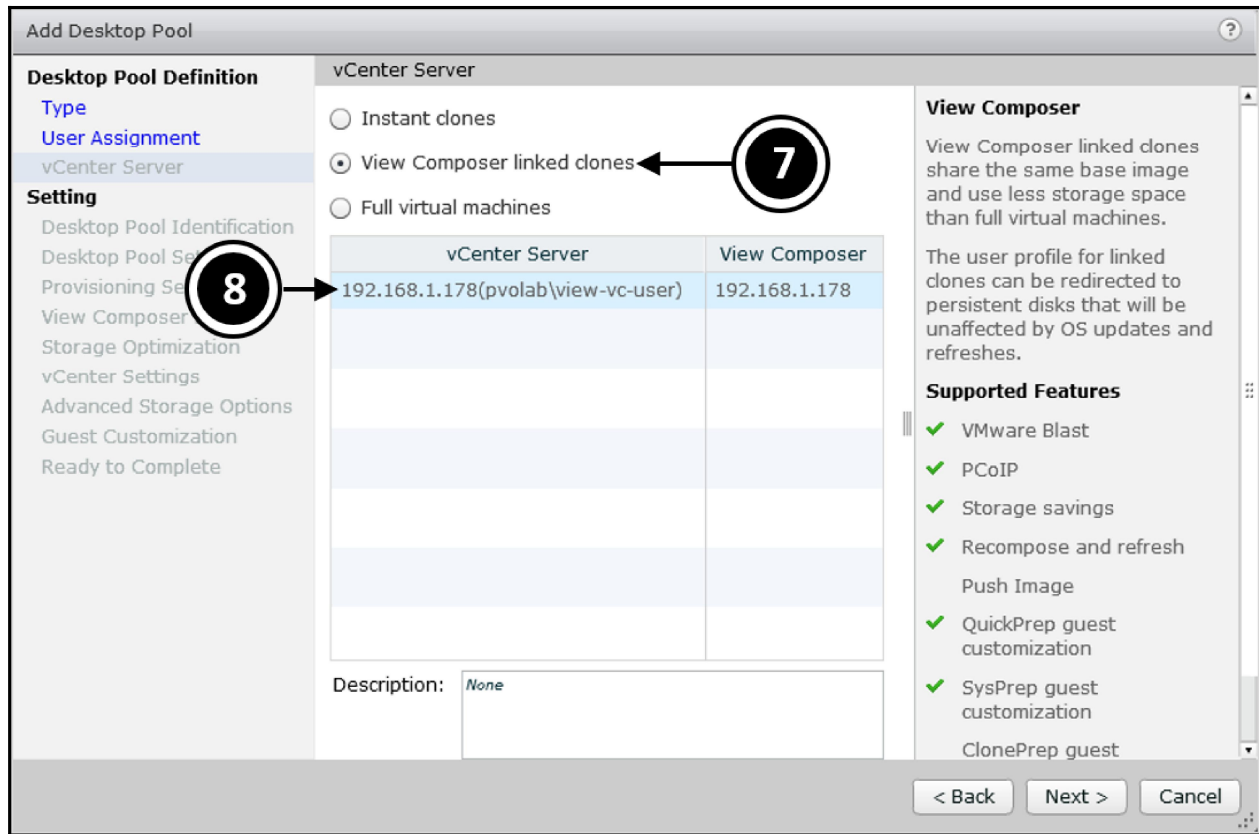


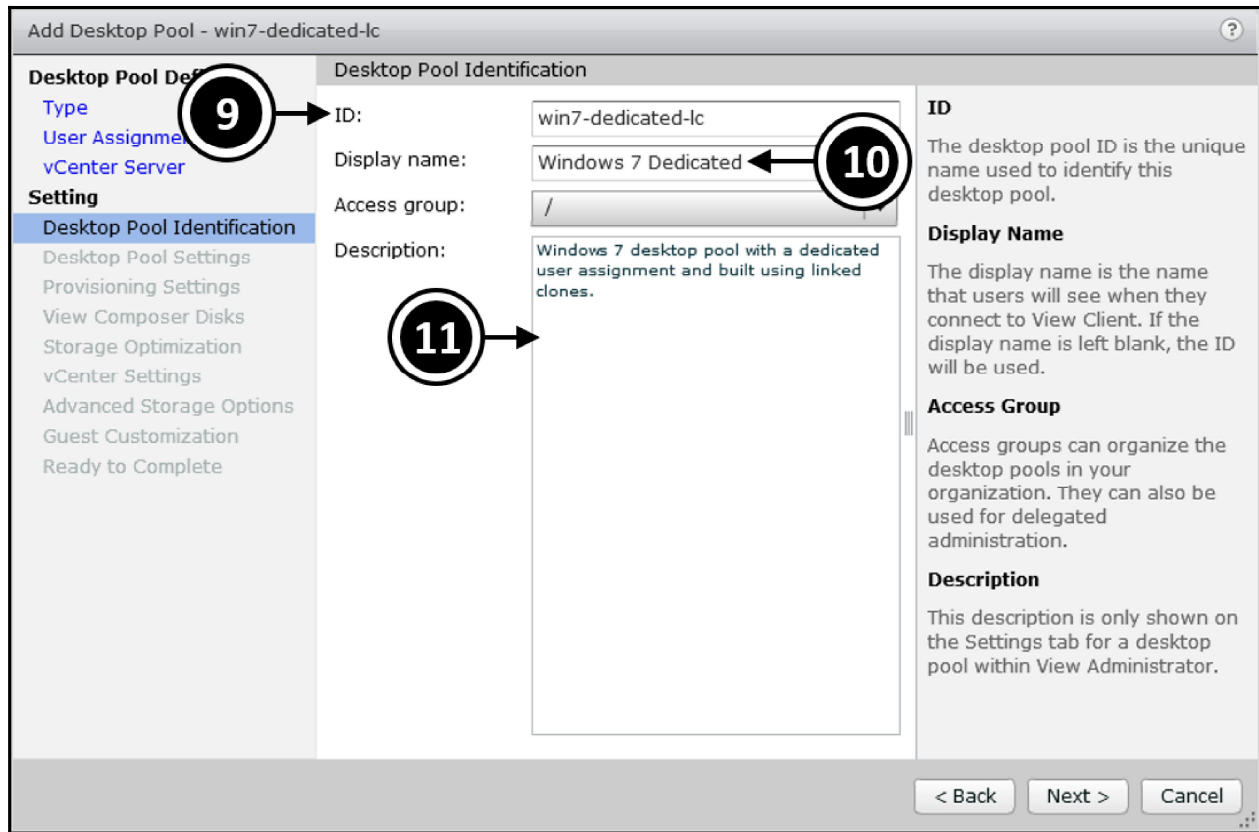


# Chapter 8: Configuring and Managing Desktop Pools - Part 1









Add Desktop Pool - Win7-dedicated-1c

**Desktop Pool Definition**

- Type
- User Assignment
- vCenter Server

**Setting**

- [Desktop Pool Identification](#)
- Desktop Pool Settings**
- Provisioning Settings
- View Composer Disks
- Storage Optimization
- vCenter Settings
- Advanced Storage Options
- Guest Customization
- Ready to Complete

**Desktop Pool Settings**

**General**

State: Enabled ▾

Connection Server restrictions: None Browse...

Category Folder: None Browse...

---

**Remote Settings**

Remote Machine Power Policy: Take no power action ▾ ?

Automatically logoff after disconnect: Never ▾

Allow users to reset/restart their machines: No ▾

Refresh OS disk after logoff: Never ▾

---

**Remote Display Protocol**

Default display protocol: VMware Blast ▾

Allow users to choose protocol: Yes ▾

Max number of monitors: 2 ▾ ?  
May require power-cycle of related virtual machines ?

Max resolution of any one monitor: 1920x1200 ▾ ?  
May require power-cycle of related virtual machines ?

HTML Access:  Enabled ?  
Requires installation of HTML Access.

Allow Session Collaboration:  Enabled ?  
Requires VMware Blast Protocol.

---

**Adobe Flash Settings for Sessions**

Adobe Flash quality: Do not control ▾ ?

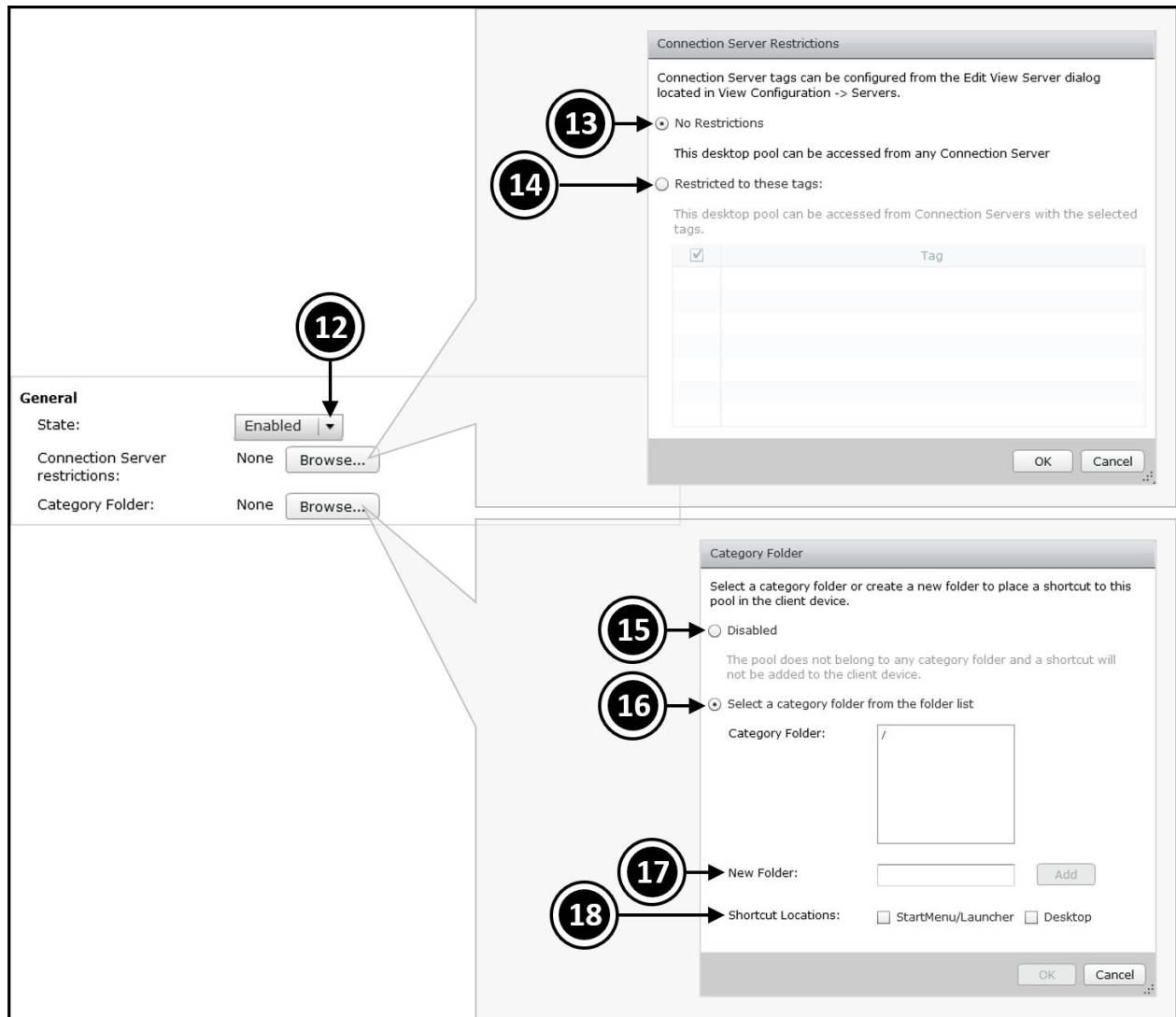
Adobe Flash throttling: Disabled ▾ ?

---

**Mirage Settings**

Override global Mirage settings

< Back
Next >
Cancel



**Remote Settings**

Remote Machine Power Policy: Take no power action

Automatically logoff after disconnect: Never

Allow users to reset/restart their machines: No

Refresh OS disk after logoff: Never

**19** Take no power action  
Ensure machines are always powered on  
Suspend  
Power off

**20** Automatically logoff after disconnect: Never  
Immediately  
Never  
After...

**21** Allow users to reset/restart their machines: No  
Immediately  
Never  
After...

**22** Refresh OS disk after logoff: Never  
Never  
Always  
Every...  
At...

**Remote Display Protocol**

Default display protocol: PCoIP

Allow users to choose protocol: Yes

3D Renderer: Disabled

Max number of monitors: 2

May require power-cycle of related virtual machines

Max resolution of any one monitor: 1920x1200

May require power-cycle of related virtual machines

HTML Access:  Enabled

Requires installation of HTML Access.

Allow Session Collaboration:  Enabled

Requires VMware Blast Protocol.

**23** Microsoft RDP  
PCoIP  
VMware Blast

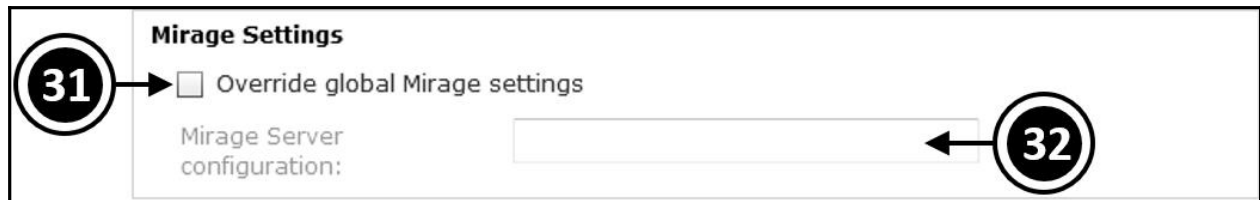
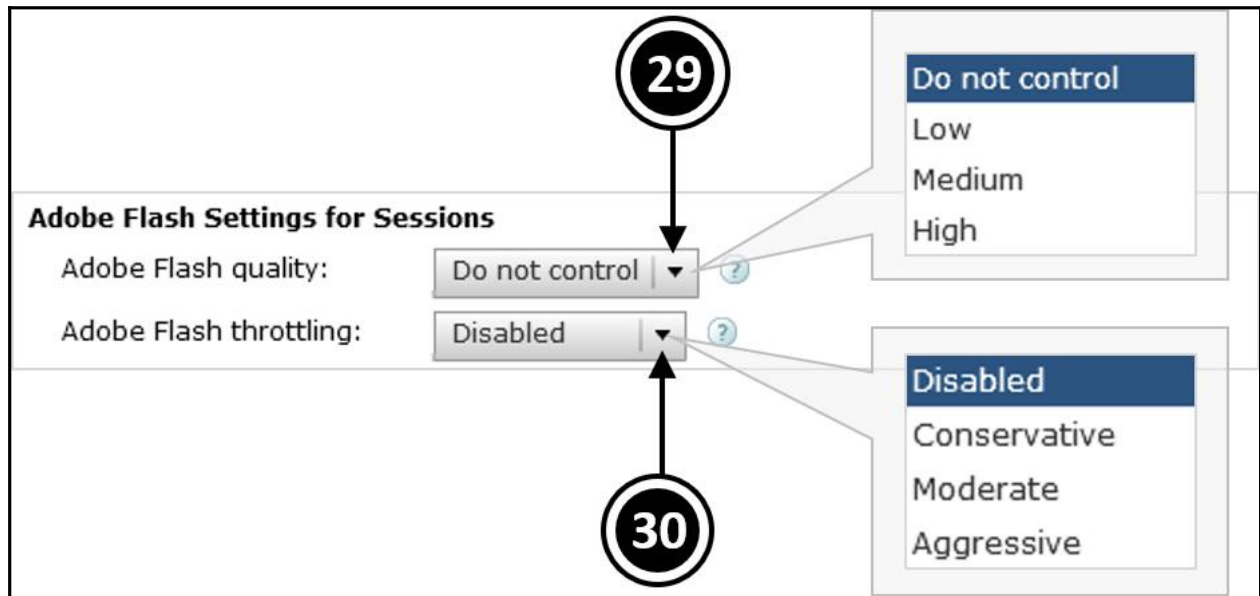
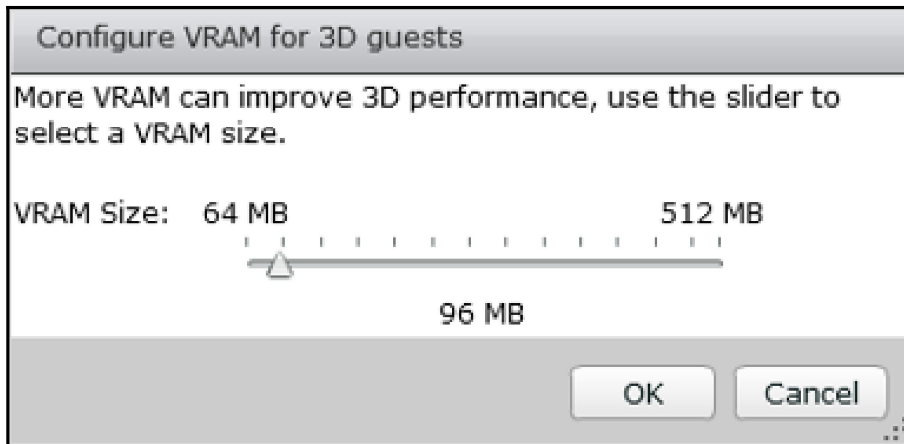
**24** Manage using vSphere Client  
Automatic  
Software  
Hardware  
NVIDIA GRID vGPU  
Disabled

**25** 3D Renderer: Disabled

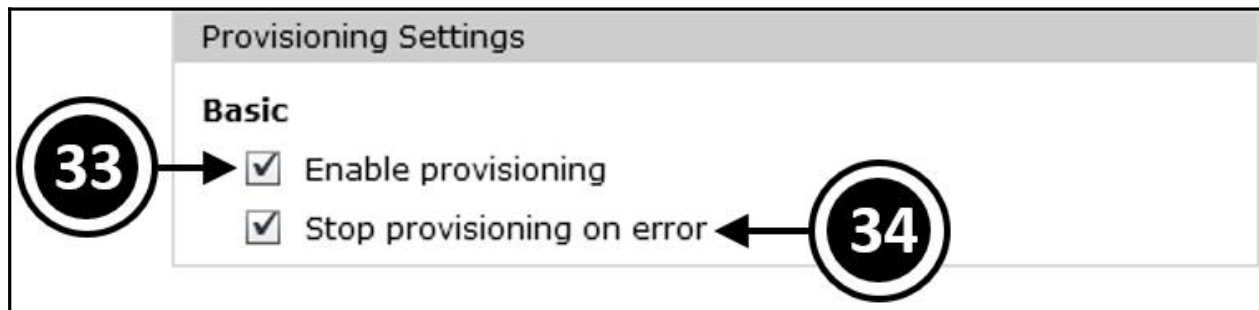
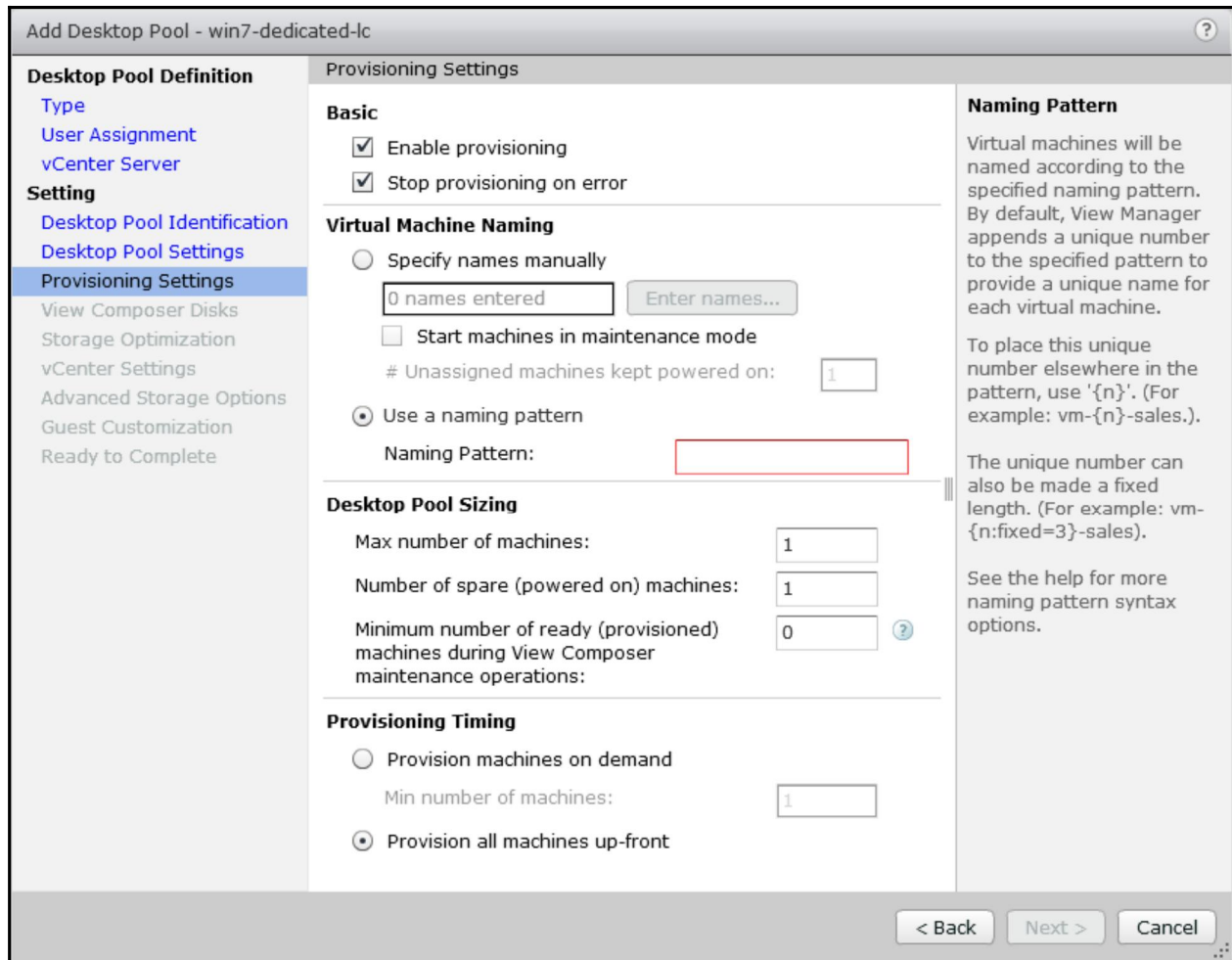
**26** Max resolution of any one monitor: 1920x1200  
1680x1050  
1920x1200  
2560x1600  
3840x2160

**27** HTML Access:  Enabled

**28** Allow Session Collaboration:  Enabled







**36** → Enter Machine Names

Enter names that will be used to create new virtual machines.

Each line must contain a unique machine name. Optionally, for dedicated desktop pools, a user name can be specified also. User names will be ignored for floating desktop pools.

Windows-7-001

Examples:  
Machine-001  
Machine-002-jdoe,abccorp.com/jdoe

**37** → Next > Cancel

Enter Machine Names

1 names entered 0 entries with error

Line	Machine name	Status
1	Windows-7-001	

**38** → **39** → < Back Finish Cancel

**35** → Virtual Machine Naming

Specify names manually

0 names entered Enter names...

Start machines in maintenance mode

# Unassigned machines kept powered on: 1

Use a naming pattern

Naming Pattern:

**40** → Virtual Machine Naming

Specify names manually

1 names entered Enter names...

Start machines in maintenance mode

# Unassigned machines kept powered on: 1

Use a naming pattern

Naming Pattern:

### Virtual Machine Naming

Specify names manually

0 names entered Enter names...

Start machines in maintenance mode

# Unassigned machines kept powered on: 1

**41** →  Use a naming pattern

Naming Pattern: Win7-VM-{n} ← **42**

### Desktop Pool Sizing

Max number of machines: 1 ← **43**

Number of spare (powered on) machines: 1 ← **44**

Minimum number of ready (provisioned) machines during View Composer maintenance operations: 0 ← **45**

**46** →  Provision machines on demand  
 Min number of machines:  ← **47**

**48** →  Provision all machines up-front

Add Desktop Pool - win7-dedicated-1c

**Desktop Pool Definition**

- Type
- User Assignment
- vCenter Server

**Setting**

- Desktop Pool Identification
- Desktop Pool Settings
- Provisioning Settings
- View Composer Disks**
- Storage Optimization
- vCenter Settings
- Advanced Storage Options
- Guest Customization
- Ready to Complete

**View Composer Disks**

**Persistent Disk**

- Redirect Windows profile to a persistent disk
  - Disk size:  MB (minimum 128 MB)
  - Drive letter:
- Do not redirect Windows profile

**Disposable File Redirection**

- Redirect disposable files to a non-persistent disk
  - Disk size:  MB (minimum 512 MB)
  - Drive letter:
- Do not redirect disposable files

**Redirect Windows Profile**

Windows profiles will be redirected to persistent disks, which are not affected by View Composer operations such as refresh, recompose, and rebalance.

**Disposable File Redirection**

Use this option to redirect disposable files to a non-persistent disk that will be deleted automatically when a user's session ends.

**Supported Features**

- ✓ PCoIP
- ✓ Storage savings
- ✓ Detach and Attach persistent disk
- ✓ Persona management

< Back    Next >    Cancel

**Persistent Disk**

**49** →  Redirect Windows profile to a persistent disk

Disk size:  MB (minimum 128 MB) ← **50**

Drive letter:  ← **51**

**52** →  Do not redirect Windows profile

**Disposable File Redirection** ?

**53** →  Redirect disposable files to a non-persistent disk

Disk size:  MB (minimum 512 MB) ← **54**

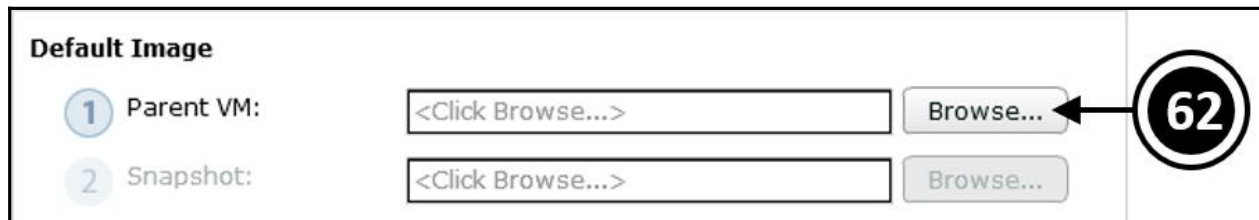
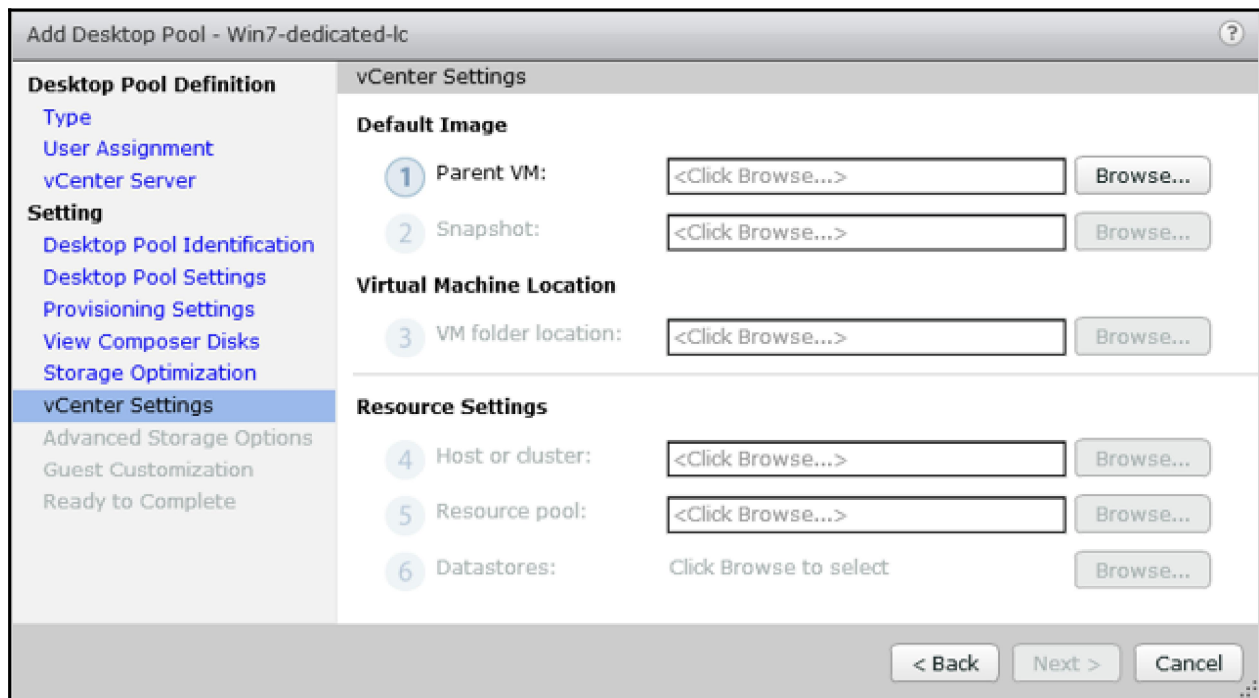
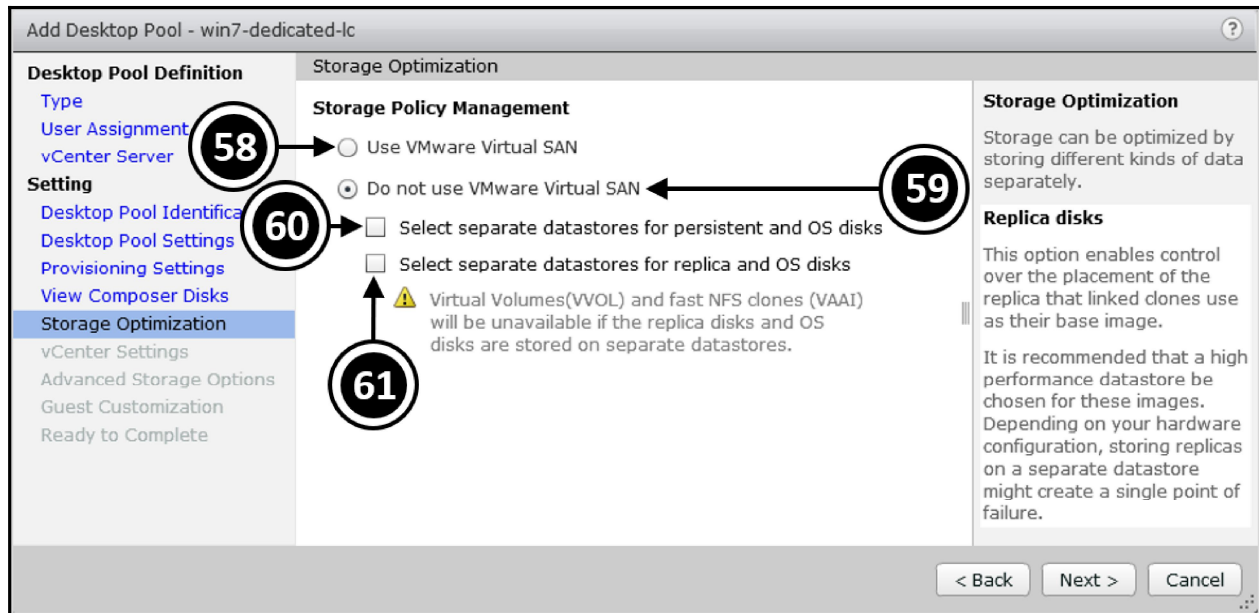
Drive letter:  ?

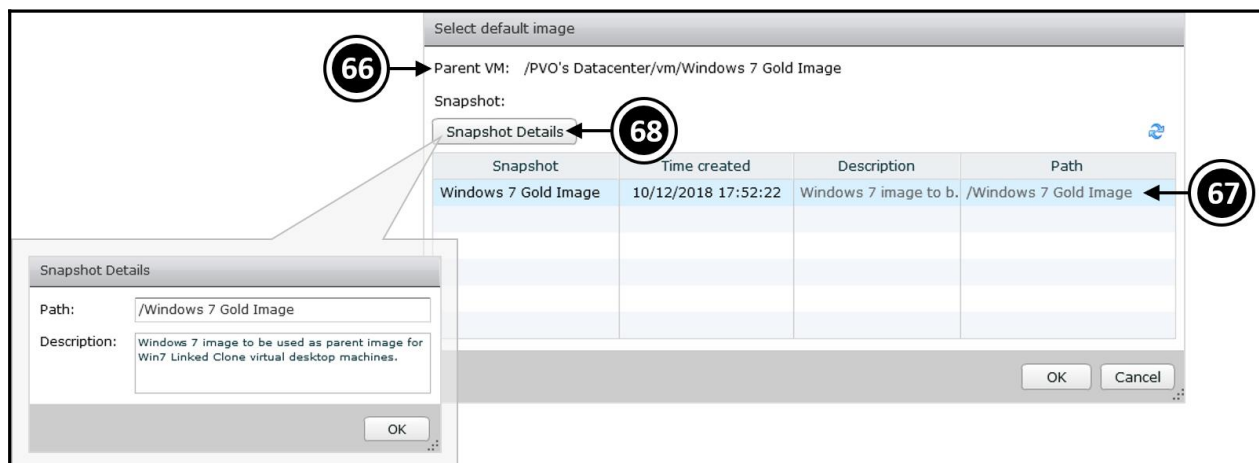
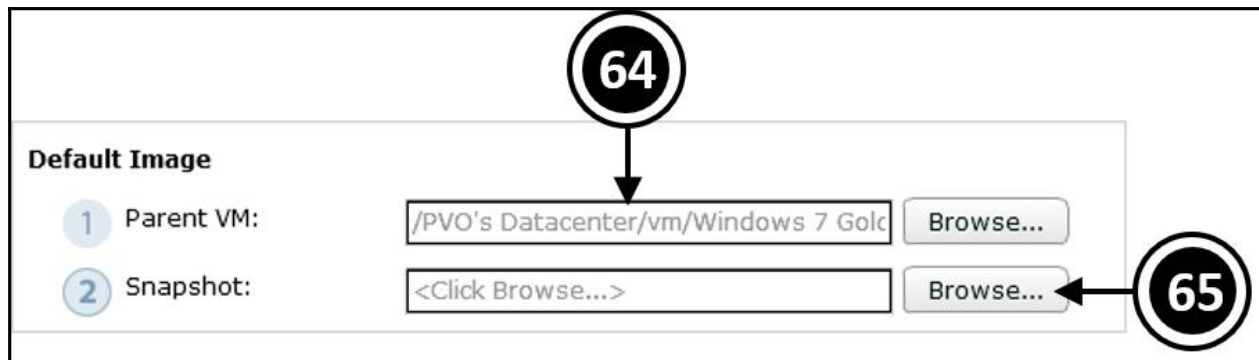
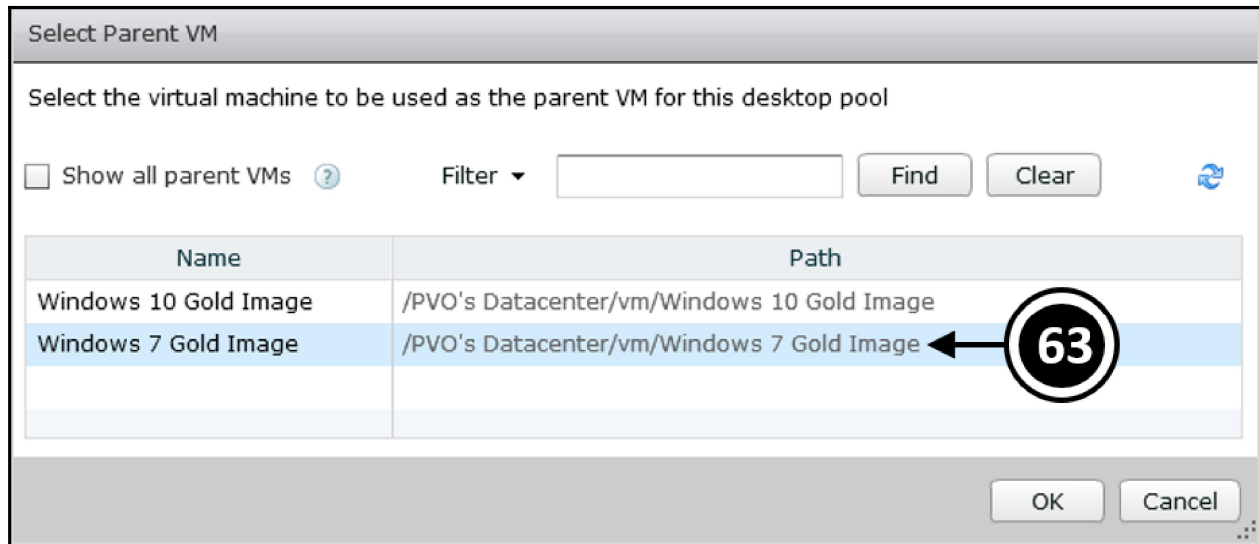
**57** →  Do not redirect disposable files

**55** ↑

**56** ←

- Auto
- E
- F
- G
- H





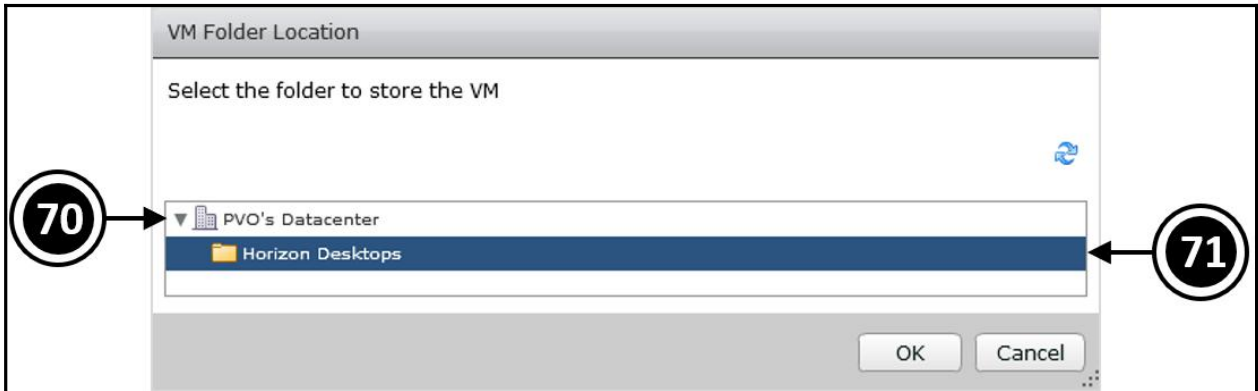
**Default Image**

1 Parent VM:

2 Snapshot:

**Virtual Machine Location**

3 VM folder location:   **69**



**Virtual Machine Location**

3 VM folder location:

**Resource Settings**

4 Host or cluster: <Click Browse...> Browse... **72**

5 Resource pool: <Click Browse...> Browse...

6 Datastores: Click Browse to select Browse...

Host or Cluster

Select a host or a cluster on which to run the virtual machines created for this desktop pool.

PVO's Datacenter

192.168.1.131

OK Cancel

**73**

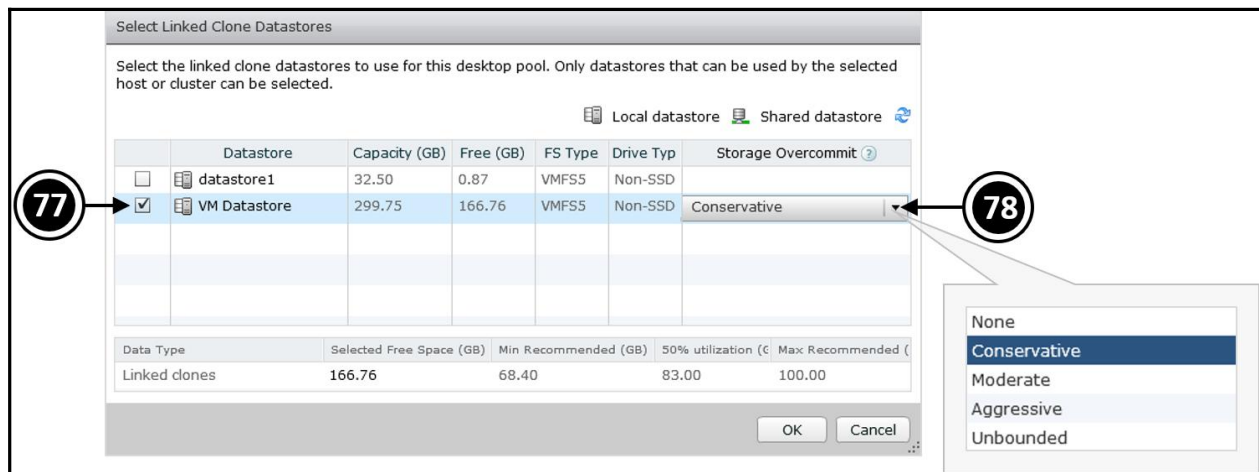
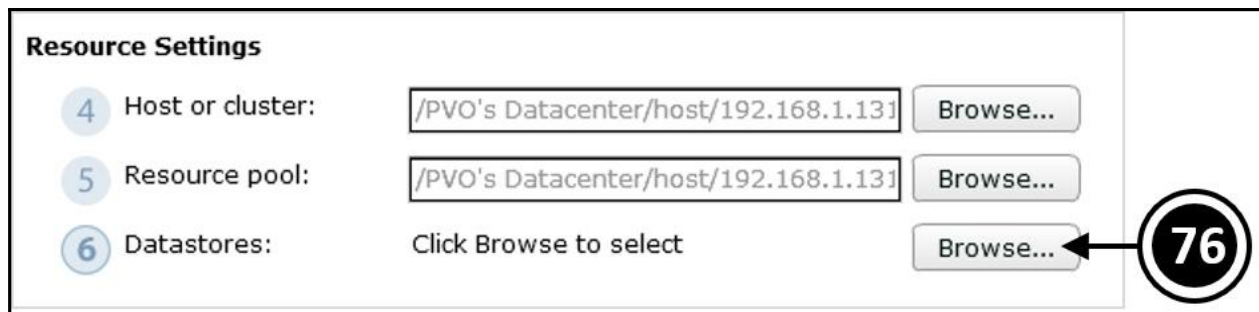
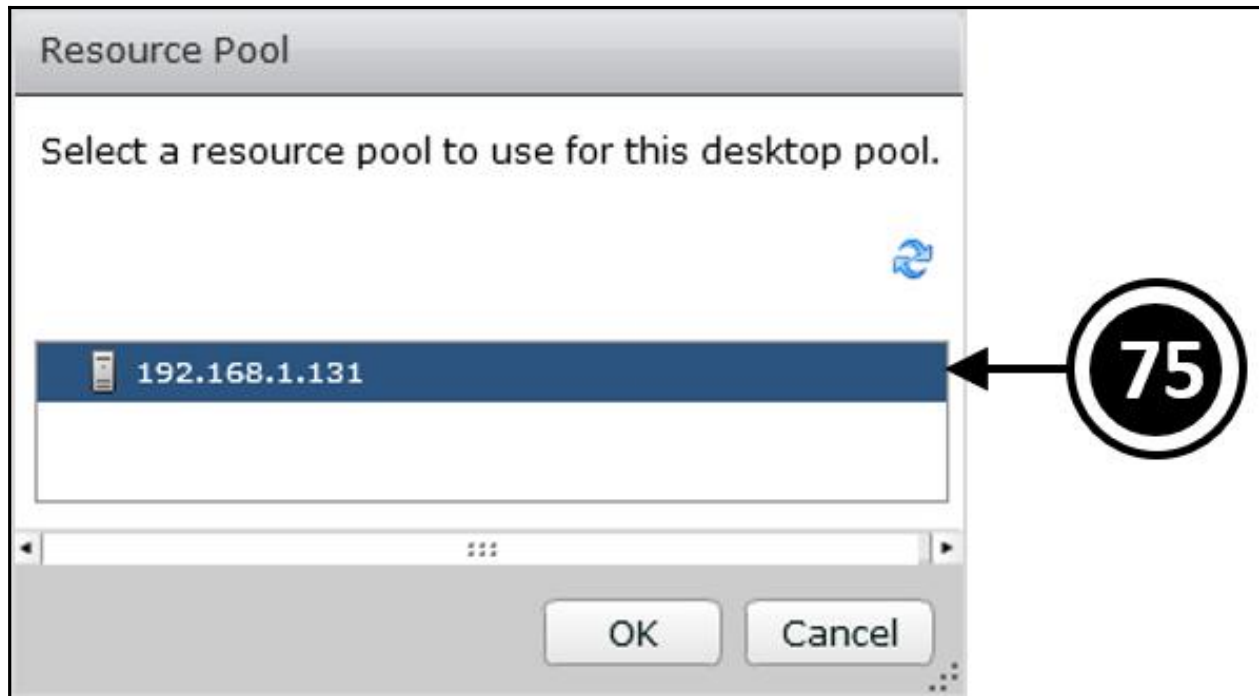
**Resource Settings**

4 Host or cluster: [/PVO's Datacenter/host/192.168.1.131] Browse...

5 Resource pool: <Click Browse...> Browse... **74**

6 Datastores: Click Browse to select Browse...





## Resource Settings

4 Host or cluster:

5 Resource pool:

6 Datastores: 1 selected 

Add Desktop Pool - Win7-dedicated-1c

**Desktop Pool Definition**

- Type
- User Assignment
- vCenter Server

**Setting**

- Desktop Pool Identification
- Desktop Pool Settings
- Provisioning Settings
- View Composer Disks
- Storage Optimization
- vCenter Settings
- Advanced Storage Options**
- Guest Customization
- Ready to Complete

**Advanced Storage Options**


Based on your resource selection, the following features are recommended. Options that are not supported by the selected hardware are disabled.

Use View Storage Accelerator

Disk Types:

Regenerate storage accelerator after:  Days

Other Options

- Use native NFS snapshots (VAAI) 
- Reclaim VM disk space

Initiate reclamation when unused space on VM exceeds:  GB

**Blackout Times**

Storage accelerator regeneration and VM disk space reclamation do not occur during blackout times. The same blackout policy applies to both operations.

Day	Time

Transparent Page Sharing Scope:

**View Storage Accelerator**

vSphere 5.x hosts can be configured to improve performance by caching certain desktop pool data. Enable this option to use View Storage Accelerator for this pool. View Storage Accelerator is most useful for shared disks that are read frequently, such as View Composer OS disks.

**Native NFS Snapshots (VAAI)**

VAAI (vStorage API for Array Integration) is a hardware feature of certain storage arrays. It uses native snapshotting technology to provide linked clone functionality. Choose this option only if you have appropriate hardware devices.

**Disk Space Reclamation**

With vSphere 5.x, virtual machines can be configured to use a space efficient disk format that supports reclamation of unused disk space (such as deleted files). This option reclaims unused disk space on each virtual machine. The operation is initiated when an estimate of used disk space exceeds the

< Back   Next >   Cancel

**Advanced Storage Options**

Based on your resource selection, the following features are recommended. Options that are not supported by the selected hardware are disabled.

**80** →  Use View Storage Accelerator

Disk Types: OS disks

Regenerate storage accelerator after: 7 Days

**82** →  Other Options

Use native NFS snapshots (VAAT) ?

Reclaim VM disk space

Initiate reclamation when unused space on VM exceeds: 1 GB

**81** → OS disks  
OS and persistent disks

**Blackout Times**

Storage accelerator regeneration and VM disk space reclamation do not occur during blackout times. The same blackout policy applies to both operations.

**83** → Add... Edit... Remove

Day	Time

**Set Blackout Days**

Storage accelerator regeneration or space reclamation will not run on the following days:

Monday  Wednesday  Friday  Sunday

Tuesday  Thursday  Saturday

Storage accelerator regeneration or space reclamation will not run on the following times on the selected days:

From: 8 : 00 To: 10 : 00

OK Cancel

Day	Time
Mon, Tue, Wed, Thu, Fri	08:00-19:00

Transparent Page Sharing Scope: Virtual Machine 84

**Virtual Machine**

Desktop Pool

Pod

Global

Add Desktop Pool - Win7-dedicated-1c

**Desktop Pool Definition**

Type

User Assignment

vCenter Server

**Setting**

Desktop Pool Identification

Desktop Pool Settings

Provisioning Settings

View Composition

Storage Optimization

vCenter Settings

Advanced Storage Options

**Guest Customization**

Ready to Complete

**Guest Customization**

Domain: pvolab.com(administrator) 85

AD container: CN=Computers Browse... 86

Allow reuse of pre-existing computer accounts

Use QuickPrep 87

Power-off script name:  ?

Power-off script parameters:  Example: p1 p2 p3

Post-synchronization script name:  ?

Post-synchronization script parameters:  Example: p1 p2 p3

Use a customization specification (SysPrep)

Name	Guest OS	Description

< Back   Next >   Cancel

**AD container**

- ▼ pvolab.com
  - CN=Computers
  - ▶ CN=Configuration
  - CN=ForeignSecurityPrincipals
  - CN=Keys
  - CN=Managed Service Accounts
  - ▶ CN=Program Data
  - ▶ CN=System
  - CN=Users
  - OU=Domain Controllers

OK   Cancel

Use a customization specification (SysPrep)

Name	Guest OS	Description
Virtual Desktop Customization	Windows	Windows 7 VM customization

Add Desktop Pool - Win7-dedicated-ic

Ready to Complete

**88** →  Entitle users after this wizard finishes

Type:	Automated
User assignment:	Dedicated assignment
Assign on first login:	Yes
vCenter Server:	192.168.1.178(pvolab/view-vc-user)
Use View Composer:	Yes
Unique ID:	Win7-dedicated-ic
Description:	Windows 7 desktop pool with a dedicated user assignment and built using linked clones.
Display name:	Windows 7 Dedicated
Access Group:	/
Desktop pool state:	Enabled
Remote Machine Power Policy:	Take no power action
Automatic logoff after disconnect:	Never
Connection Server restrictions:	None
Category Folder:	None
Allow users to reset/restart their machine:	No
Refresh OS disk after logoff:	Never
Default display protocol:	PCoIP
Allow users to choose protocol:	Yes
3D Renderer:	Disabled
Max number of monitors:	2
Max resolution of any one monitor:	1920x1200
HTML Access:	Disabled
Allow Session Collaboration:	Disabled
Adobe Flash quality:	Disabled
Override global Mirage settings:	No
Mirage Server configuration:	
Enable provisioning:	Yes
Stop provisioning on error:	Yes
Virtual Machine Naming:	Use a naming pattern
VM naming pattern:	Win7-VM-{n}
Provision all machines up-front:	Yes
Max number of machines:	1
Number of spare (powered on) machines:	1
Minimum number of ready (provisioned) machines during View Composer maintenance operations:	0

< Back Finish Cancel

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 28/12/2018 10:54

Sessions: 0  
Problem vCenter VMs: 0  
Problem RDS Hosts: 0  
Events: 0  
System Health: 5 4 1 0

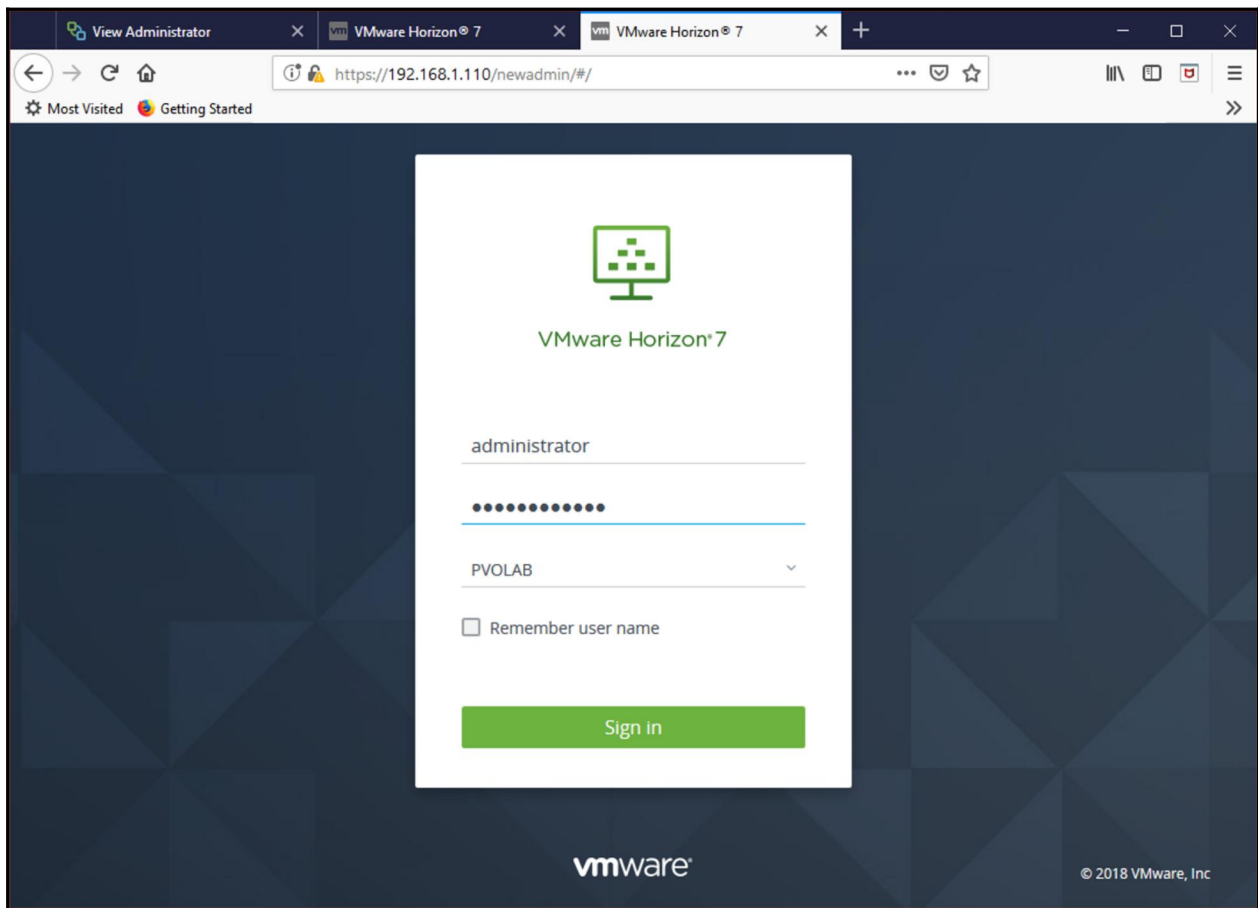
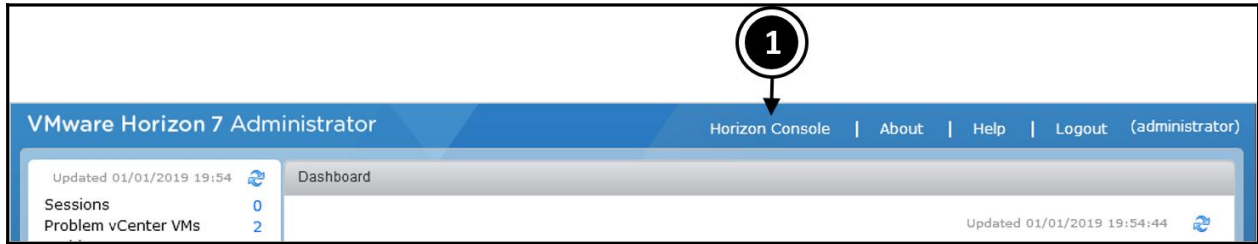
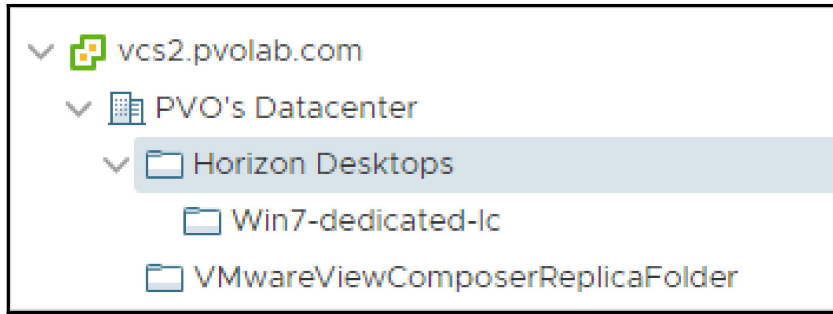
Inventory: Dashboard, Users and Groups, Catalog, Desktop Pools, Application Pools, ThinApps

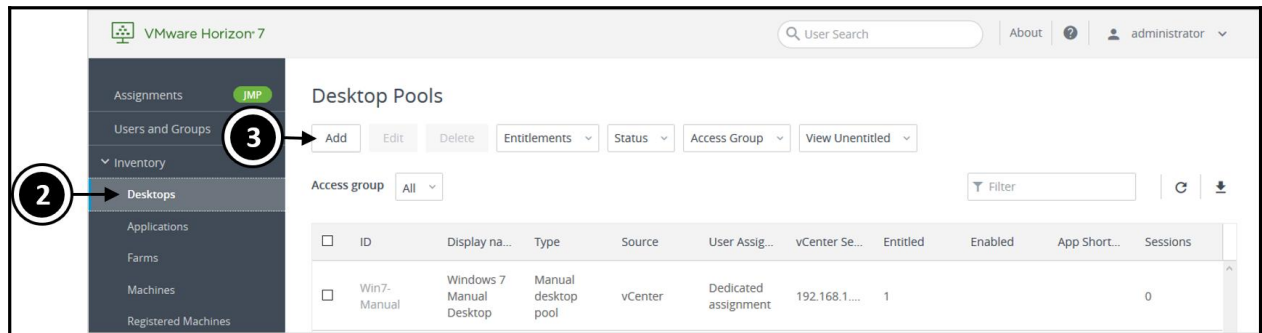
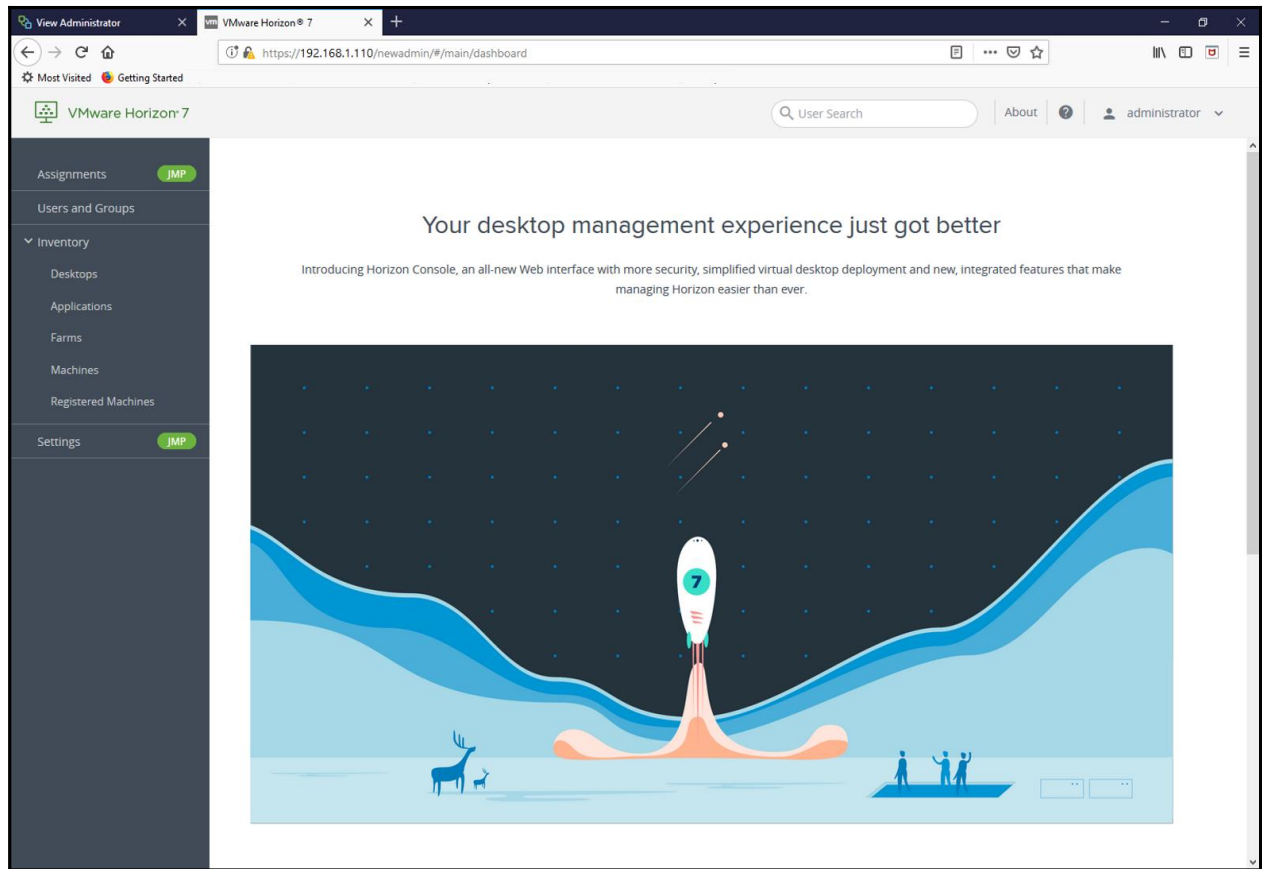
Desktop Pools

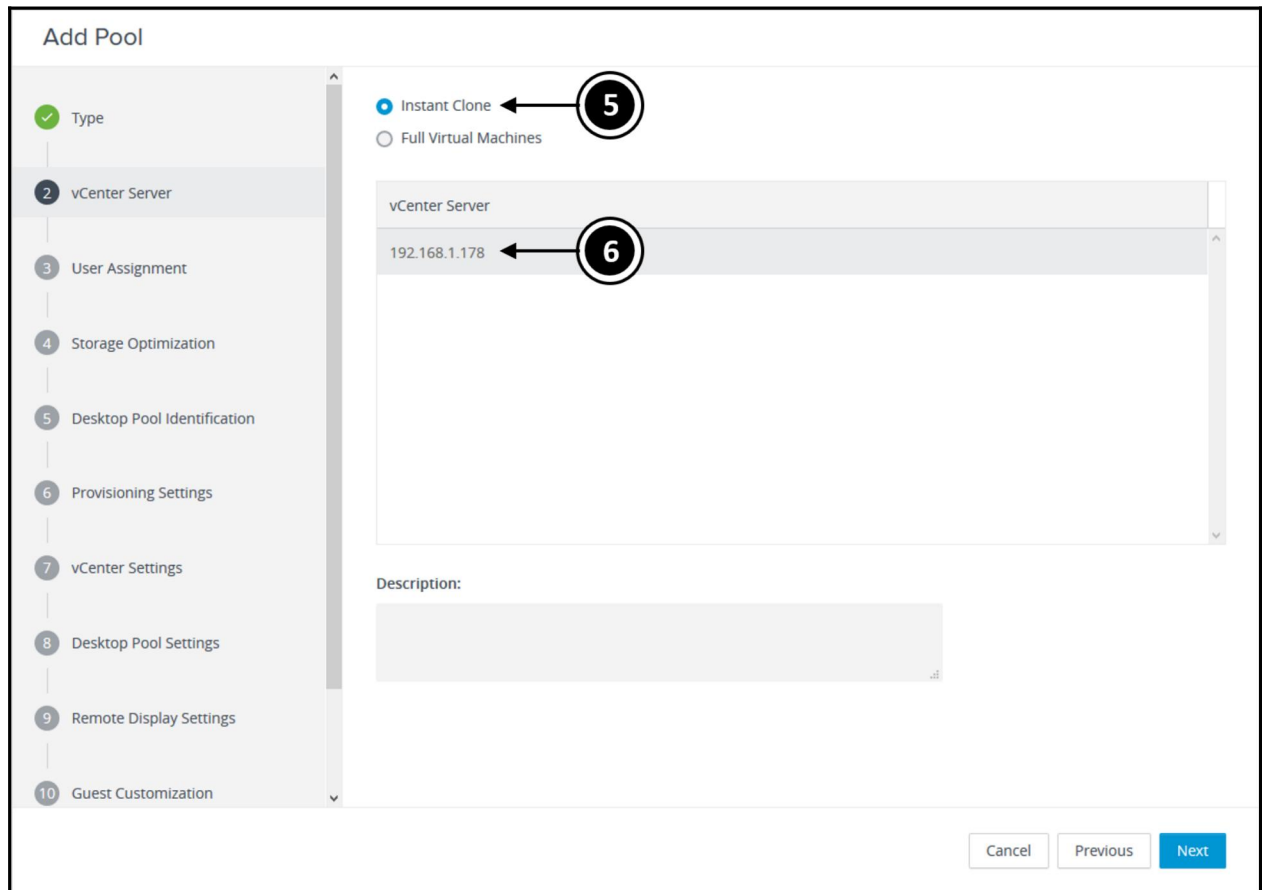
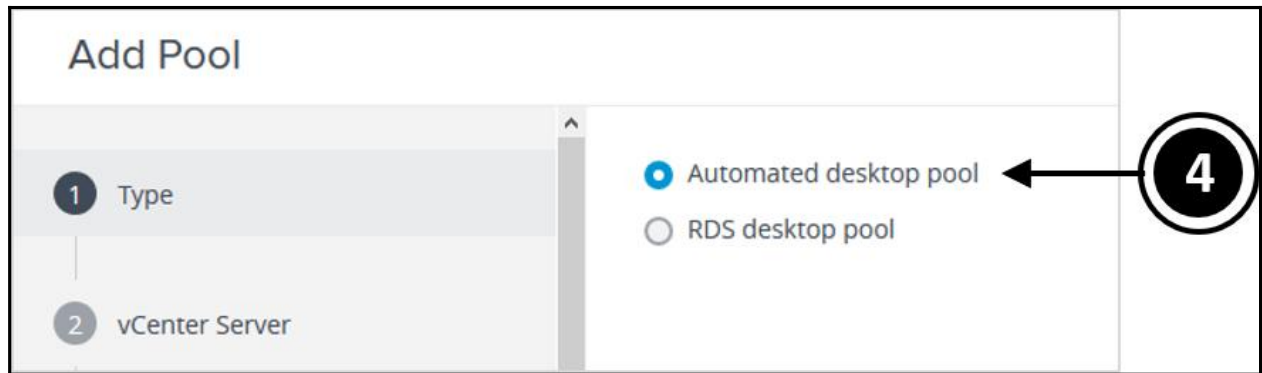
Add... Edit... Clone... Delete... Entitlements... Status Access Group More Commands

Filter Find Clear Access Group: All

ID	Display Name	Type	Source	User As...	vCenter Ser...	Entitled	Enabled	App Shortcuts	Sessions
Win7-dedicated-ic	Windows 7 Dedicated	Automated Desktop Pool	vCenter (linked clone)	Dedicated	192.168.1.178	0	✓		0









### Add Pool


Progress indicator: Type (✓), vCenter Server (✓), **3** User Assignment, 4 Storage Optimization

7

- Floating
- Dedicated
- Enable automatic assignment

### Add Pool

Progress indicator: Type (✓), vCenter Server (✓), User Assignment (✓), **4** Storage Optimization

- Use VMware Virtual SAN
- Do not use VMware Virtual SAN
-  Virtual SAN is not available because no Virtual SAN datastores are configured.
- Use separate datastores for replica and OS disks

### Add Pool - Win-7-Desktop-IC

Type  
 vCenter Server  
 User Assignment  
 Storage Optimization  
 Desktop Pool Identification

\* ID: Win-7-Desktop-IC **8**

Display name: Windows 7 Desktop **9**

Access group: /

Description: Windows 7 desktop with built using Instant Clones. **10**

### Add Pool - Win-7-Desktop-IC

Type  
 vCenter Server  
 User Assignment  
 Storage Optimization  
 Desktop Pool Identification  
 Provisioning Settings  
 vCenter Settings  
 Desktop Pool Settings

Basic

Enable provisioning **11**

Stop provisioning on error **12**

Virtual Machine Naming

\* Naming Pattern: Win7-IC **13**

Provisioning Timing

Provision machines on demand

Min number of machines: 1

Provision all machines up-front **14**

Desktop Pool Sizing

\* Max number of machines: 1 **15**

\* Number of spare (powered on) machines: 1 **16**

### Add Pool - Win-7-Desktop-IC

- ✓ Type
- ✓ vCenter Server
- ✓ User Assignment
- ✓ Storage Optimization
- ✓ Desktop Pool Identification
- ✓ Provisioning Settings
- 7** vCenter Settings
- 8 Desktop Pool Settings
- 9 Remote Display Settings
- 10 Guest Customization

#### Default image

Parent VM:   **17**

Snapshot:

#### Virtual Machine Location

VM Folder Location:

#### Resource Settings

Cluster:

Resource pool:

Datstores: Click Browse to select

Network: Click Browse to select

### Select Parent VM

Select the virtual machines to be used as the parent VM for this desktop pool

Show all parent VMs ⓘ

Filter

Name	Path
Windows 10 Gold Image	/PVO's Datacenter/vm/Windows 10 Gold Image
Windows 7 Gold Image	/PVO's Datacenter/vm/Windows 7 Gold Image

Submit Cancel

### Default image

Parent VM:

/PVO's Datacenter/vm/Windows 7 Gold Image  Browse...

Snapshot:

Browse...

### Select default image

Parent VM in vCenter: /PVO's Datacenter/vm/Windows 7 Gold Image

Snapshot Details

Snapshot	Time Created	Description	Path
Windows 7 Gold Image	10/12/2018, 17:52	Windows 7 image to be used as parent image for Win7 Linked Clone virtual desktop machines.	/Windows 7 Gold Image

SVGA settings for Instant Clone Pool (Inherited from Master VM)

Number of monitors:	Total Video Memory:	Resolution:	3D Renderer:
1	8.00 MB	1600x1200	Disabled

**21** →

### Default image

Parent VM:

/PVO's Datacenter/vm/Windows 7 Gold Image 

Snapshot:

/Windows 7 Gold Image 

Virtual Machine Location

VM Folder Location:

**22** ← **23** ←

### VM Folder Location

Select the folder to store the VM

Show all folders ⓘ

▼ PVO's Datacenter

Discovered virtual machine

▶ Horizon Desktops ← **24**

### Virtual Machine Location

VM Folder Location:

/PVO's Datacenter/vm/Horizon Desktops

### Resource Settings

Cluster:

25

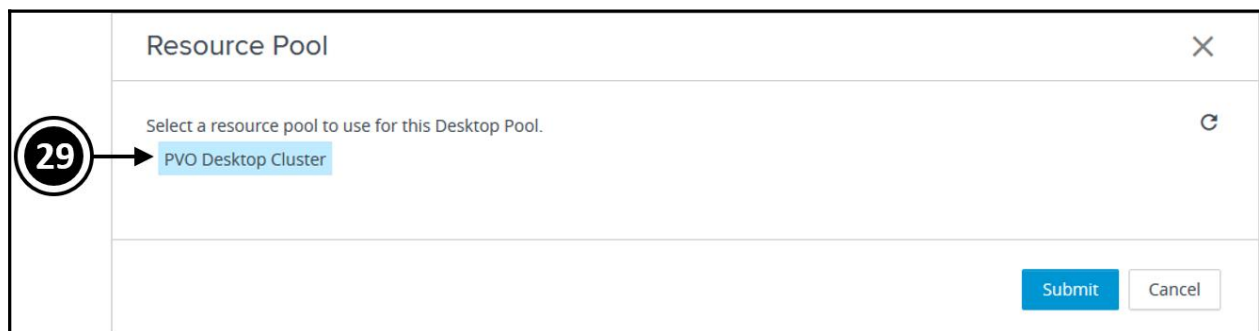
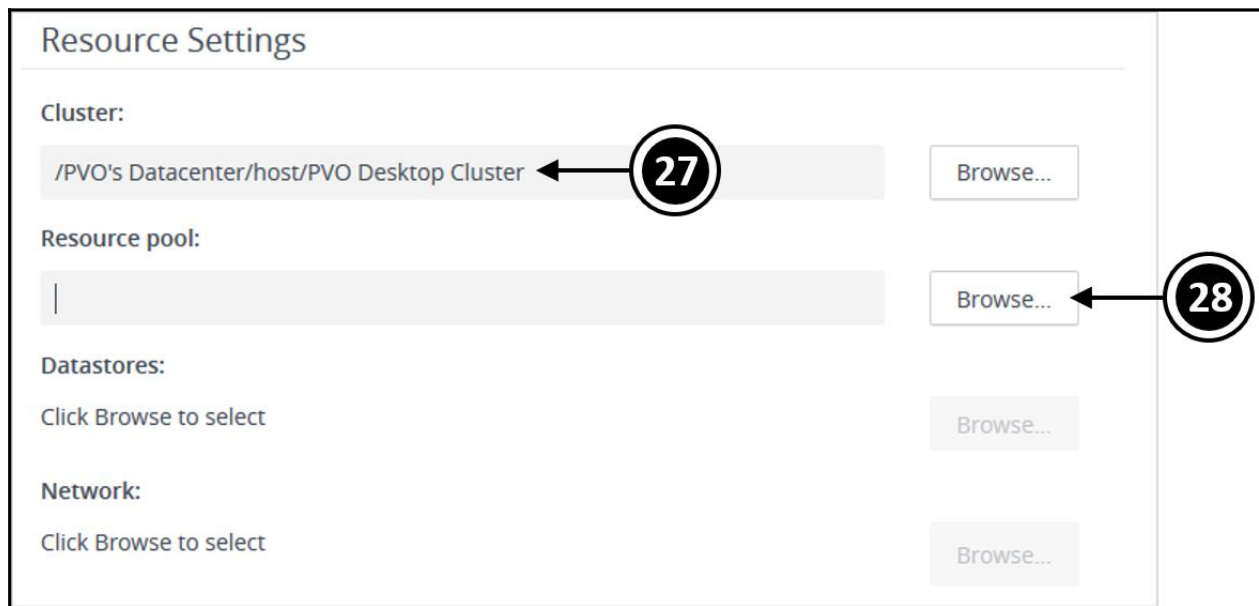
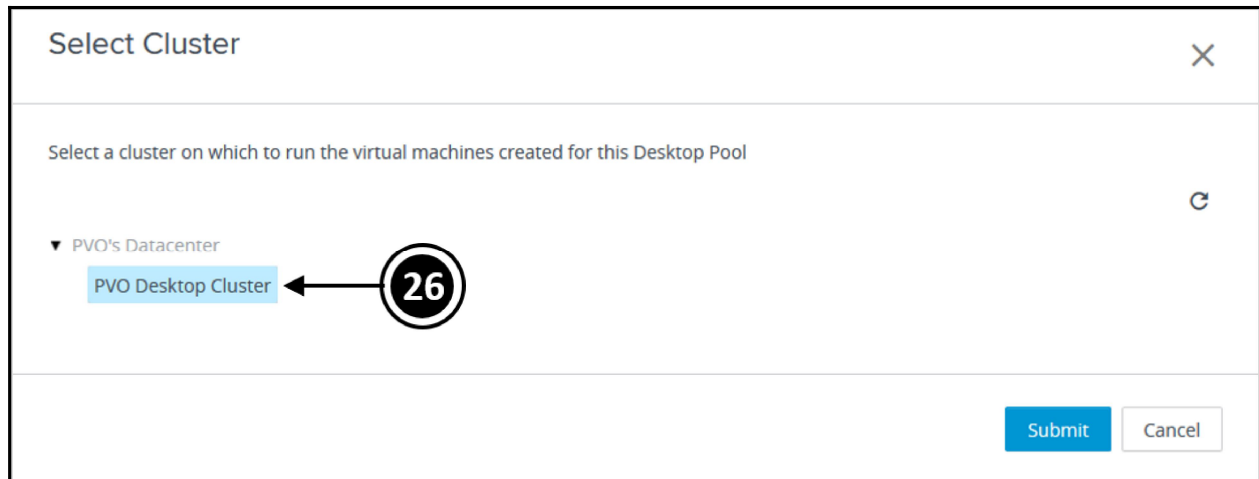
Resource pool:

Datstores:

Click Browse to select 

Network:

Click Browse to select



### Resource Settings

**Cluster:**

**Resource pool:**

**Datstores:**  
 Click Browse to select

**Network:**  
 Click Browse to select

### Select Datstores


Select the instant clone datstores to use for this desktop pool. Only datstores that can be used by the selected host or cluster can be selected.

<input type="checkbox"/>	Datstore	Capacity(GB)	Free(GB)	FS Type	Drive Type	Storage Overco...
<input type="checkbox"/>	datastore1	32.50 GB	24.88 GB	VMF55	Non-SSD	
<input checked="" type="checkbox"/>	VM Datstore	299.75 GB	76.12 GB	VMF55	Non-SSD	Unbounded

Data Type	Selected Free Space (...)	Min Recommended (...)	50% utilization (GB)	Max Recommended (...)
Instant clones	76.12	68	82	98



 **Warning** ✕

You have selected a local datastore for your instant clone pool. Please note the following:

- 1) If you are deploying instant clones on a single ESXi host with local datastore, you must configure a cluster containing that single ESXi host. If you have a cluster of two or more ESXi hosts with local datastores, select the local datastore from each of the hosts in the cluster. Instant clone creation fails otherwise.
- 2) VMotion, VMWare High Availability, and vSphere Distributed Resource Scheduler (DRS) are not supported.
- 3) We recommend that you use direct Solid-State Disks (SSDs). Local spinning-disk drives may not have the throughput required by instant clones.

OK

### Resource Settings

**Cluster:**  
/PVO's Datacenter/host/PVO Desktop Cluster Browse...

**Resource pool:**  
/PVO's Datacenter/host/PVO Desktop Cluster/Resources Browse...

**Datastores:**  
1 selected 33 Browse...

**Network:**  
Parent VM network selected Browse... 34

### Add Pool - Win-7-Desktop-IC

- ✓ Type
- ✓ vCenter Server
- ✓ User Assignment
- ✓ Storage Optimization
- ✓ Desktop Pool Identification
- ✓ Provisioning Settings
- ✓ vCenter Settings
- 8 Desktop Pool Settings

State: Enabled **35**

Connection Server restrictions: None

Category Folder: None

Automatically logoff after disconnect: Never **36**

Allow users to restart/reset machines: No **37**

### Add Pool - Win-7-Desktop-IC

- Type
- vCenter Server
- User Assignment
- Storage Optimization
- Desktop Pool Identification
- Provisioning Settings
- vCenter Settings
- Desktop Pool Settings
- 9 Remote Display Settings

Default display protocol: PCoIP

Allow users to choose protocol: Yes

3D Renderer: Manage using vSphere Client

HTML Access:  Enabled ?  
Requires installation of HTML Access.

Allow Session Collaboration:  Enabled ?  
Requires VMware Blast Protocol.

Annotations: 38, 39, 40, 41, 42

### Add Pool - Win-7-Desktop-IC

- ✓ vCenter Server
- ✓ User Assignment
- ✓ Storage Optimization
- ✓ Desktop Pool Identification
- ✓ Provisioning Settings
- ✓ vCenter Settings
- ✓ Desktop Pool Settings
- ✓ Remote Display Settings
- 10 Guest Customization

**43** → Domain: pvolab.com(administrator)

**44** → AD Container: CN=Computers

Allow reuse of pre-existing computer accounts ⓘ

Use ClonePrep

Power-off script name:  ⓘ

Power-off script parameters:

Example: p1 p2 p3

Post-synchronization script name:  ⓘ

Post-synchronization script parameters:

Example: p1 p2 p3

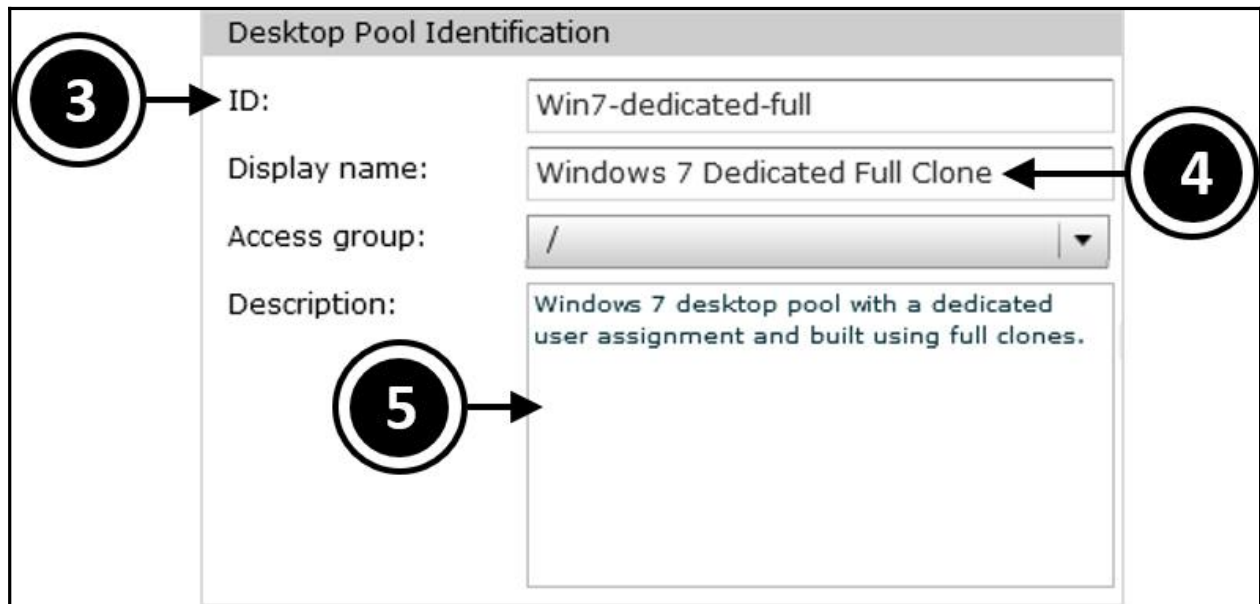
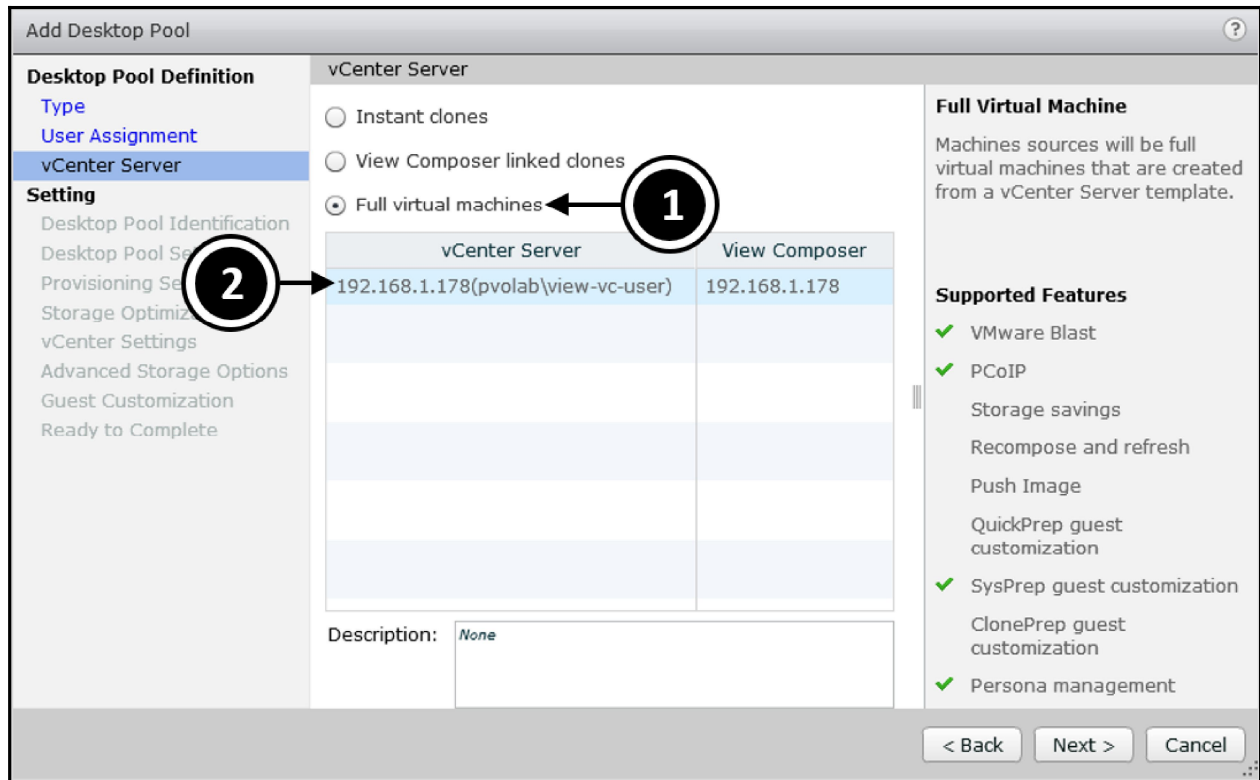
### Add Pool - Win-7-Desktop-IC

- ✓ vCenter Server
- ✓ User Assignment
- ✓ Storage Optimization
- ✓ Desktop Pool Identification
- ✓ Provisioning Settings
- ✓ vCenter Settings
- ✓ Desktop Pool Settings
- ✓ Remote Display Settings
- ✓ Guest Customization
- 11 Ready to Complete

**45**  Entitle users after this wizard finishes

Type:	Automated desktop pool
User Assignment:	Dedicated assignment
Enable automatic assignment:	Yes
vCenter Server:	192.168.1.178
Unique ID:	Win-7-Desktop-IC
Description:	Windows 7 desktop with built using Instant Clones.
Display name:	Windows 7 Desktop
Access group:	/
Desktop pool state	Enabled
Automatically logoff after disconnect:	Never
Connection Server restrictions:	None
Category Folder:	None

Cancel Previous **Submit**



Use a naming pattern

Naming Pattern:  **6**

**Virtual Device**

Add a Trusted Platform Module (vTPM) device to the VMs **?**

Add Desktop Pool - Win7-dedicated-1c **?**

**Desktop Pool Definition**

- Type
- User Assignment
- vCenter Server

**Setting**

- Desktop Pool Identification
- Desktop Pool Settings
- Provisioning Settings
- View Composer Disks
- Storage Optimization
- vCenter Settings**
- Advanced Storage Options
- Guest Customization
- Ready to Complete

**vCenter Settings**

**Default Image**

**1** Parent VM:

**2** Snapshot:

**Virtual Machine Location**

**3** VM folder location:

**Resource Settings**

**4** Host or cluster:

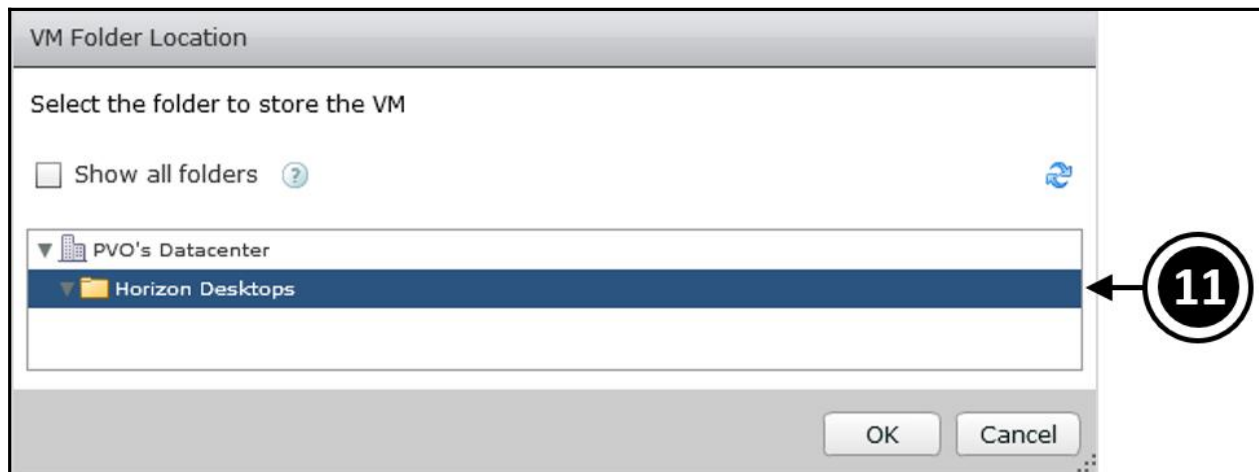
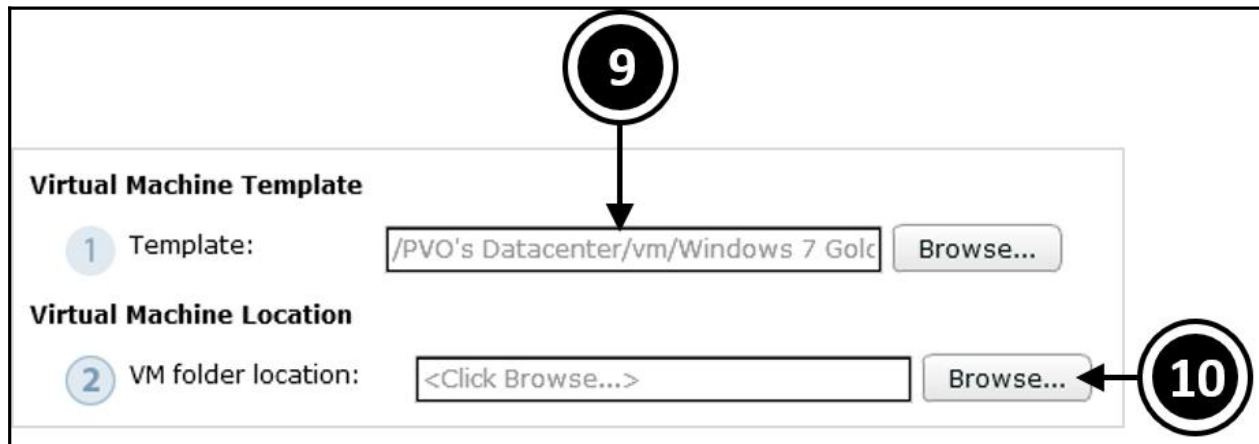
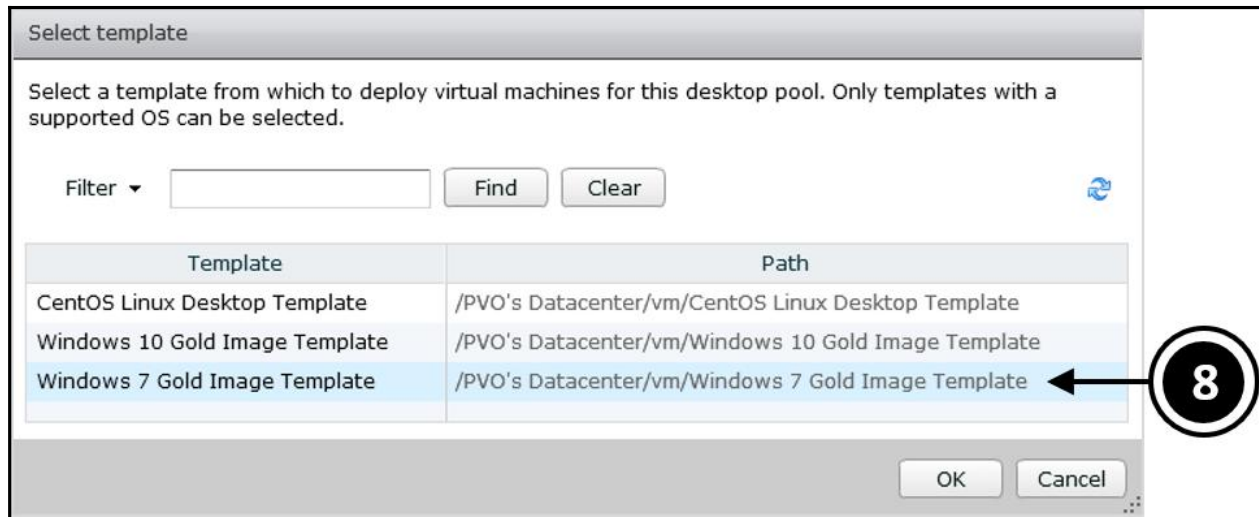
**5** Resource pool:

**6** Datastores: Click Browse to select

< Back   Next >   Cancel

**Virtual Machine Template**

**1** Template:   **7**





## Virtual Machine Location

2 VM folder location:

/PVO's Datacenter/vm/Horizon Desktop

Browse...

Select Datastores

Select the Datastore type: Individual Datastore

Select the datastores to use for this desktop pool. Only datastores that can be used by the selected host or cluster can be selected.

Local datastore Shared datastore

	Datastore	Datastore Cluster	Capacity (GB)	Free (GB)	FS Type	Drive Type
<input type="checkbox"/>	datastore1		32.50	24.88	VMFS5	Non-SSD
<input checked="" type="checkbox"/>	VM Datastore		299.75	134.76	VMFS5	Non-SSD

Free space selected: 134.76 (A minimum of 34.00 GB is recommended for new virtual machines)

OK Cancel

Add Desktop Pool - Win7-dedicated-full

Desktop Pool Definition

- Type
- User Assignment
- vCenter Server

Setting

- Desktop Pool Identification
- Desktop Pool Settings
- Provisioning Settings
- Storage Optimization
- vCenter Settings
- Advanced Storage Options
- Guest Customization

Ready to Complete

Guest Customization

None - Customization will be done manually

Do not power on virtual machines after creation

Use this customization specification:

Allow reuse of pre-existing computer accounts

Name	Guest OS	Description
Virtual Desktop Customization	Windows	Windows 7 VM customization

< Back Next > Cancel

Add Desktop Pool - Win7-dedicated-full

**Desktop Pool Definition**

- Type
- User Assignment
- vCenter Server

**Setting**

- Desktop Pool Identification
- Desktop Pool Settings
- Provisioning Settings
- Storage Optimization
- vCenter Settings
- Advanced Storage Options
- Guest Customization
- Ready to Complete

Ready to Complete

Entitle users after this wizard finishes

Type:	Automated
User assignment:	Dedicated assignment
Assign on first login:	Yes
vCenter Server:	192.168.1.178(pvolab\view-vc-user)
Use View Composer:	No
Unique ID:	Win7-dedicated-full
Description:	Windows 7 desktop pool with a dedicated user assignment and built using full clones.
Display name:	Windows 7 Dedicated Full Clone
Access Group:	/
Desktop pool state:	Enabled
Remote Machine Power Policy:	Take no power action
Automatic logoff after disconnect:	Never
Connection Server restrictions:	None
Category Folder:	None
Allow users to reset/restart their machine:	No
Default display protocol:	VMware Blast
Allow users to choose protocol:	Yes
3D Renderer:	Disabled
Max number of monitors:	2
Max resolution of any one monitor:	1920x1200
HTML Access:	Disabled
Allow Session Collaboration:	Disabled
Adobe Flash quality:	Disabled
Override global Mirage settings:	No
Mirage Server configuration:	
Enable provisioning:	Yes
Stop provisioning on error:	Yes
Virtual Machine Naming:	Use a naming pattern
VM naming pattern:	Win7-VM-Full-{n}

< Back   Finish   Cancel

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 28/12/2018 10:54

Desktop Pools

Add... Edit... Clone... Delete... Entitlements... Status Access Group More Commands

Filter Find Clear Access Group: All

ID	Display Name	Type	Source	User A...	vCenter Server	Entitled	Enabled	App Shortcuts	Sessions
Win7--dedicated-full	Windows 7 Dedicated Full	Automated Desktop Pool	vCenter	Dedicat...	192.168.1.178	0	✓		0
Win7-dedicated-ic	Windows 7 Dedicated	Automated Desktop Pool	vCenter (linked clone)	Dedicat...	192.168.1.178	0	✓		0

Inventory

- Dashboard
- Users and Groups
- Catalog
  - Desktop Pools
  - Application Pools
  - ThinApps

vm vSphere Client

Menu Search Administrator@VSPHERE.LOCAL

Win7-VM-Full-1 ACTIONS

Summary Monitor Configure Permissions Datastores Networks

Powered On

Launch Web Console Launch Remote Console

Host: 192.168.1131

View all 2 IP addresses

More Info

pete-PC

Running, version:10272 (Current)

ESXi 6.5 and later (VM version 13)

Microsoft Windows 7 (64-bit)

Guest OS:

CPU USAGE: 112 MHz

MEMORY USAGE: 81 MB

STORAGE USAGE: 34.27 GB

VM Hardware

Notes

Related Objects

Custom Attributes

Tags

VM Storage Policies

vcst2.pvotlab.com

PVO's Datacenter

Horizon Desktops

Win7-dedicated-full

Win7-VM-Full-1

Win7-dedicated-ic

Win7-Floating-rc

Win7-Floating-ic

VMwareViewComposerReplicaFolder

replica-c56c8b3-29f3-47a6-bfbf-58f...

CentOS Linux Desktop

Windows 10 Gold Image

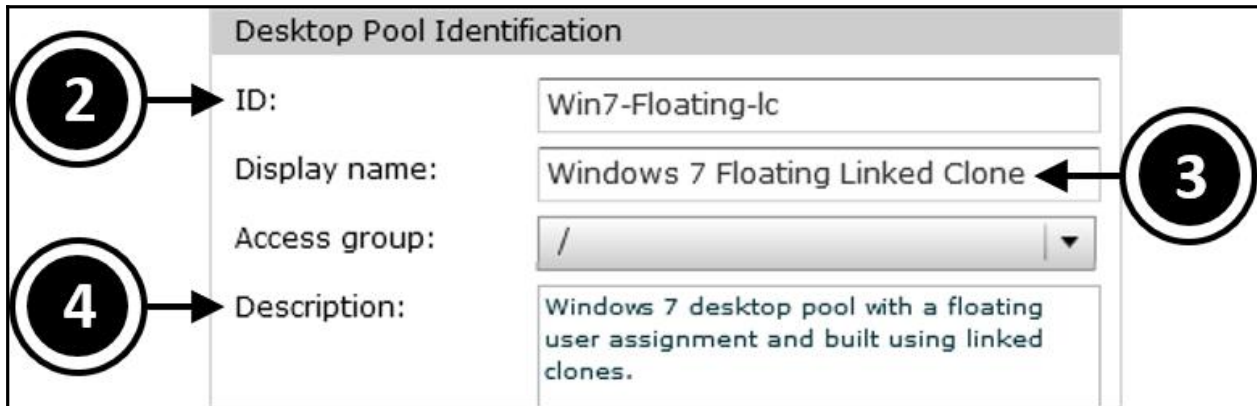
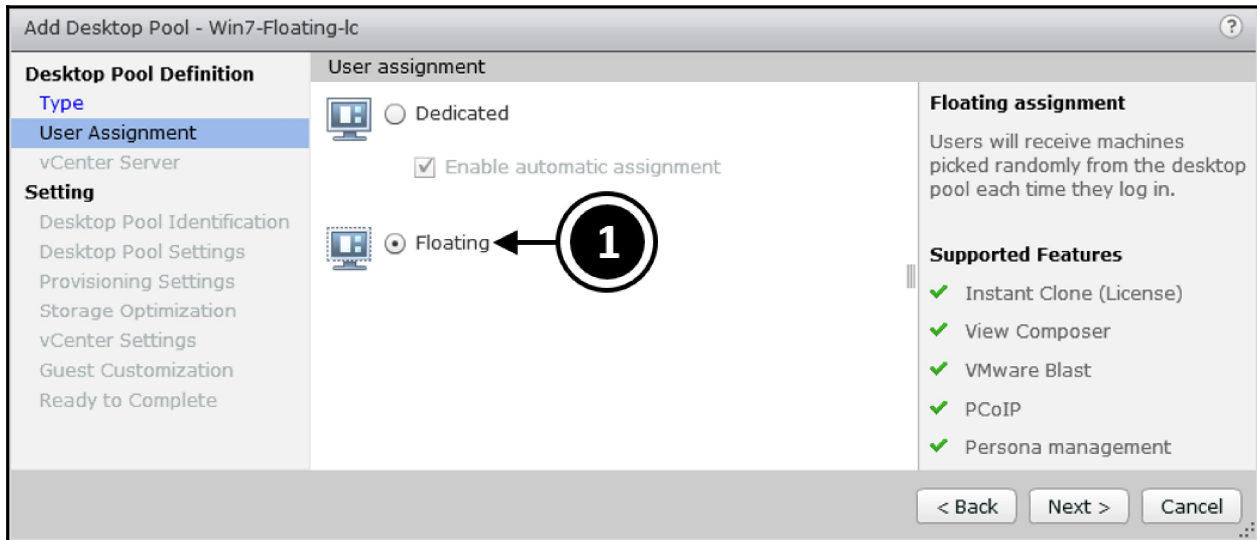
Windows 7 Gold Image

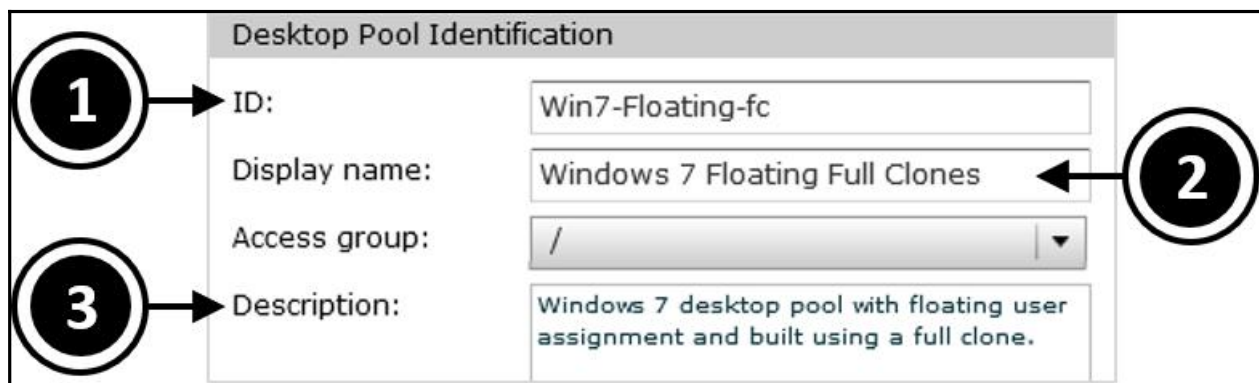
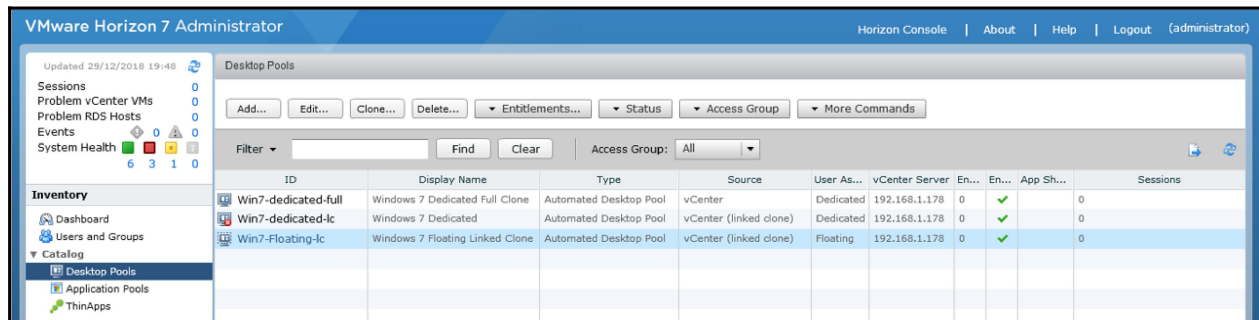
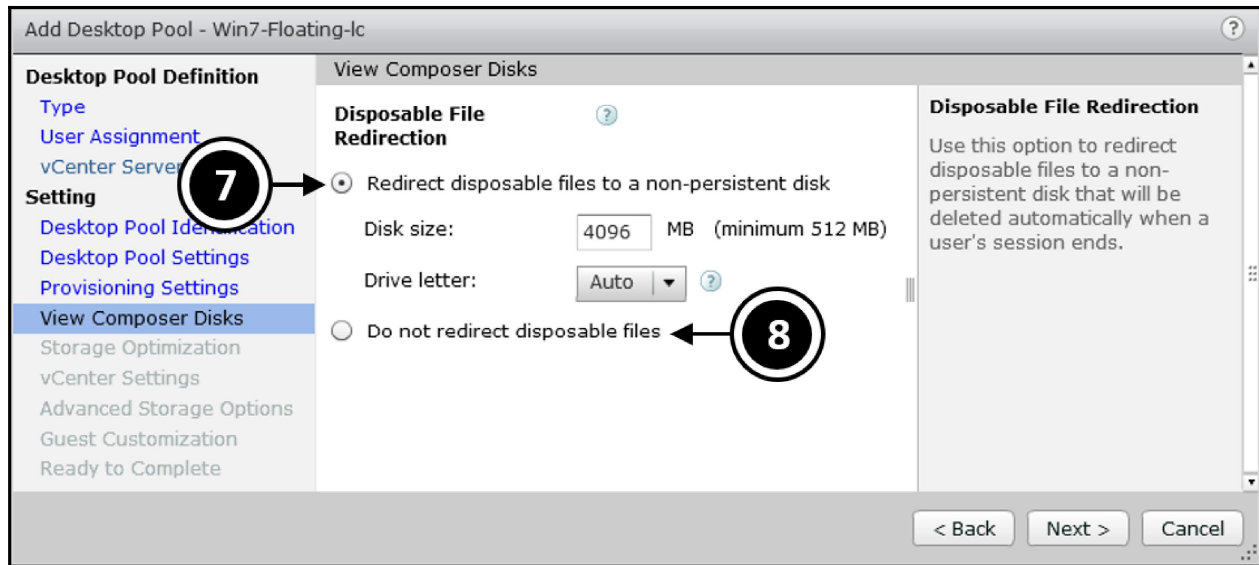
CentOS Linux Desktop Template

Windows 10 Gold Image Template

Windows 7 Gold Image Template

# Chapter 9: Configuring and Managing Desktop Pools - Part 2





### Remote Settings

Remote Machine Power Policy:

Automatically logoff after disconnect:

Allow users to reset/restart their machines:

4 → Allow user to initiate separate sessions from different client devices:

5 → Delete machine after logoff:

Use a naming pattern

Naming Pattern:  ← 6

VMware Horizon 7 Administrator

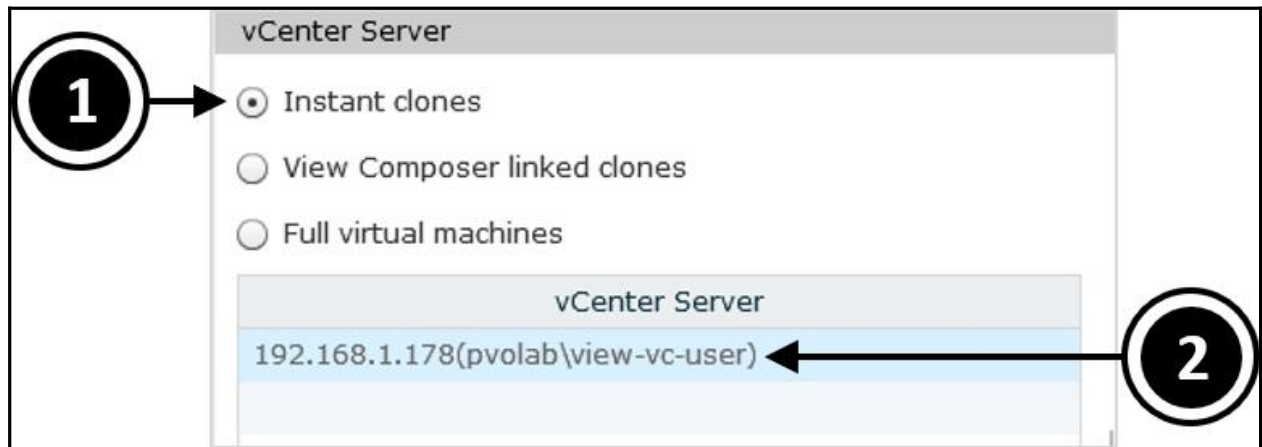
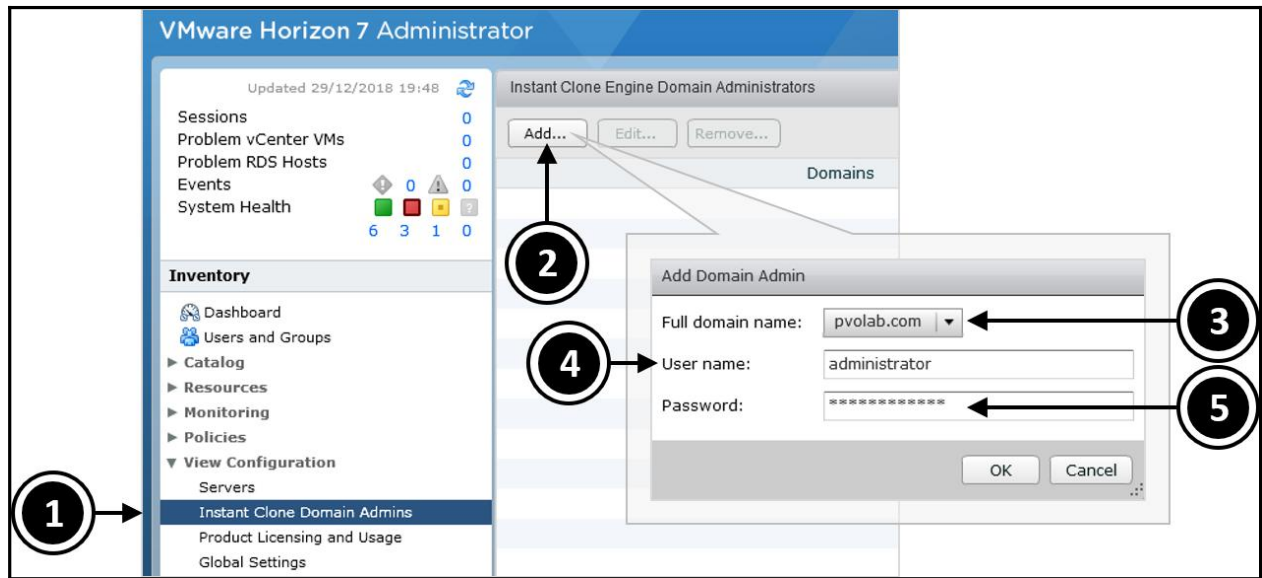
Horizon Console | About | Help | Logout (administrator)

Updated 29/12/2018 19:48

Desktop Pools

Filter:    Access Group:

ID	Display Name	Type	Source	User As...	vCenter Server	En...	En...	App Sh...	Sessions
Win7-dedicated-full	Windows 7 Dedicated Full Clone	Automated Desktop Pool	vCenter	Dedicated	192.168.1.178	0	✓		0
Win7-dedicated-1c	Windows 7 Dedicated	Automated Desktop Pool	vCenter (linked clone)	Dedicated	192.168.1.178	0	✓		0
Win7-Floating-fc	Windows 7 Floating Full Clones	Automated Desktop Pool	vCenter	Floating	192.168.1.178	0	✓		0
Win7-Floating-1c	Windows 7 Floating Linked Clone	Automated Desktop Pool	vCenter (linked clone)	Floating	192.168.1.178	0	✓		0



**Desktop Pool Identification**

3 ID: Win10-Floating-ic

Display name: Windows 10 Instant Clone 4

Access group: /

5 Description: Windows 10 desktop pool with floating user assignment and built using instant clones.

**Virtual Machine Naming**

Use a naming pattern

Naming Pattern: W10-Float-ic-{n} 6

Add Desktop Pool - Win10-Floating-ic

**Desktop Pool Definition**

- Type
- User Assignment
- vCenter Server
- Setting**
  - Desktop Pool Identification
  - Desktop Pool Settings
  - Provisioning Settings
  - Storage Optimization
  - vCenter Settings**
  - Guest Customization
  - Ready to Complete

**vCenter Settings**

**Default Image**

1 Parent VM in vCenter: <Click Browse...> Browse...

2 Snapshot: <Click Browse...> Browse...

**Virtual Machine Location**

3 VM folder location: <Click Browse...> Browse...

**Resource Settings**

4 Cluster: <Click Browse...> Browse...

5 Resource pool: <Click Browse...> Browse...

6 Datastores: Click Browse to select Browse...

7 Networks: Click Browse to select Browse...

< Back Next > Cancel



**Default Image**

1 Parent VM in vCenter: <Click Browse...> Browse... **7**

2 Snapshot: <Click Browse...> Browse...

Select Parent VM

Select the virtual machine to be used as the parent VM for this desktop pool

Show all parent VMs ? Filter  Find Clear

Name	Path
Windows 10 Gold Image	/PVO's Datacenter/vm/Windows 10 Gold Image <b>8</b>
Windows 7 Gold Image	/PVO's Datacenter/vm/Windows 7 Gold Image

OK Cancel

**9**

**Default Image**


1 Parent VM in vCenter: /PVO's Datacenter/vm/Windows 10 Go Browse...

2 Snapshot: <Click Browse...> Browse... **10**

Select default image

Parent VM in vCenter: /PVO's Datacenter/vm/Windows 10 Gold Image

Snapshot:


Snapshot Details 

Snapshot	Time created	Description	Path
Windows 10 Gold Image	27/12/2018 19:12:		/Windows 10 Gold Image

**SVGA settings for Instant Clone Pool (Inherited from Master VM)**

Number of monitors: 1 VRAM Size: 8.0 MB Resolution: 1600x1200 3D Renderer: Disabled

OK Cancel



2 Snapshot:


**Virtual Machine Location**

3 VM folder location:   

**Virtual Machine Location**

3 VM folder location:

**Resource Settings**

4 Cluster:   

5 Resource pool:

6 Datastores: Click Browse to select

7 Networks: Click Browse to select

### Cluster

Select a cluster on which to run the virtual machines created for this desktop pool.

▼ PVO's Datacenter

14
←
PVO Desktop Cluster

OK Cancel

#### Select Networks

Select networks to use for this automated pool.

Use network from current parent VM image

Select the network to use for this instant clone pool. Only static binding port groups are supported by instant clones.

Filter  Find Clear ↻

Network	Port Binding	Total Ports	Available Ports

OK Cancel

#### Resource Settings

4 Cluster:  Browse...

5 Resource pool:  Browse...

6 Datastores: 1 selected Browse...

7 Networks: Parent VM network selected Browse...

15

VMware Horizon 7 Administrator Horizon Console | About | Help | Logout (administrator)

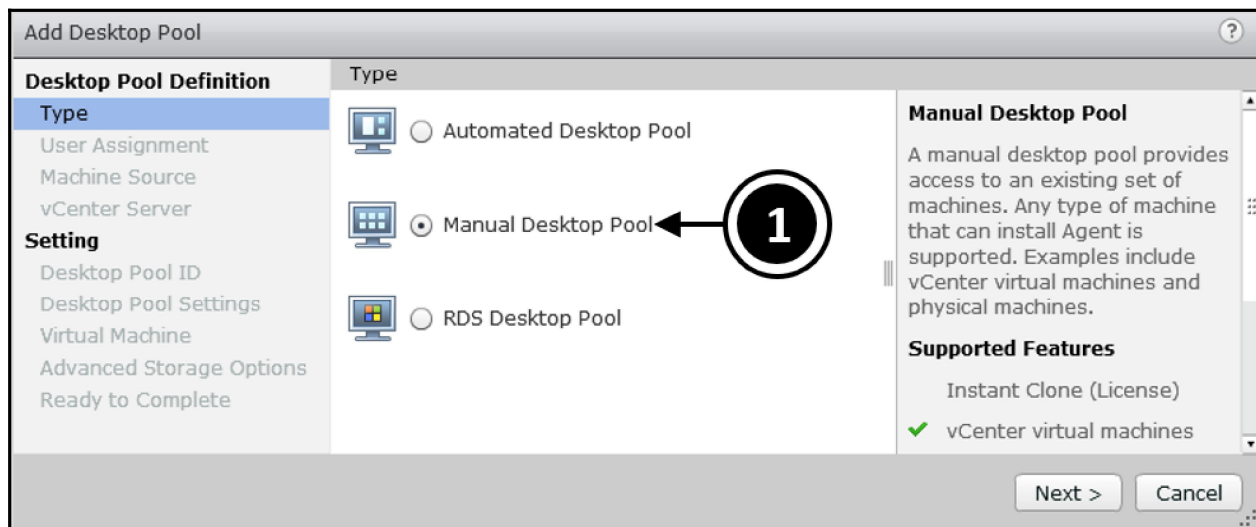
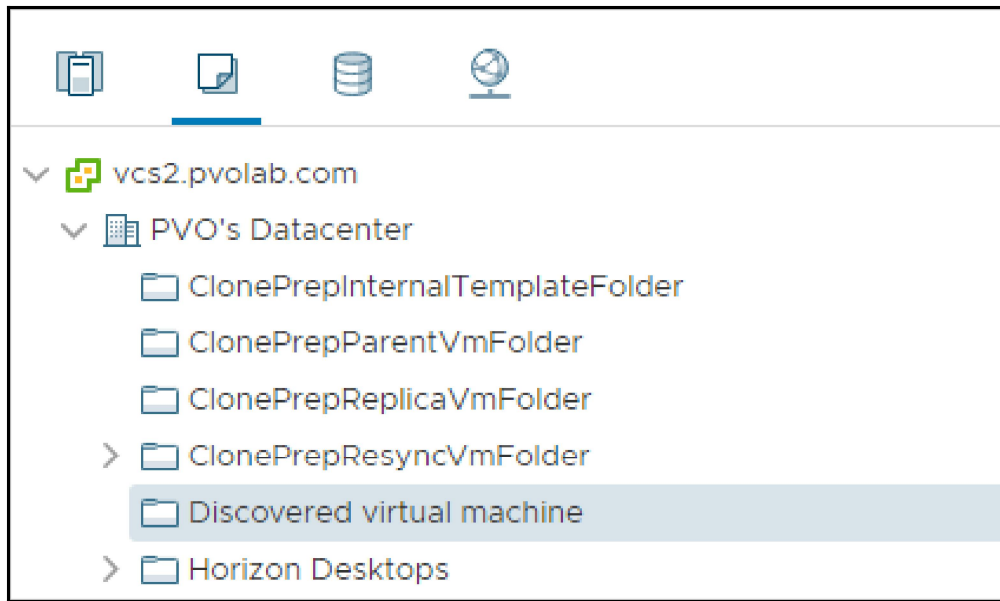
Updated 30/12/2018 19:52

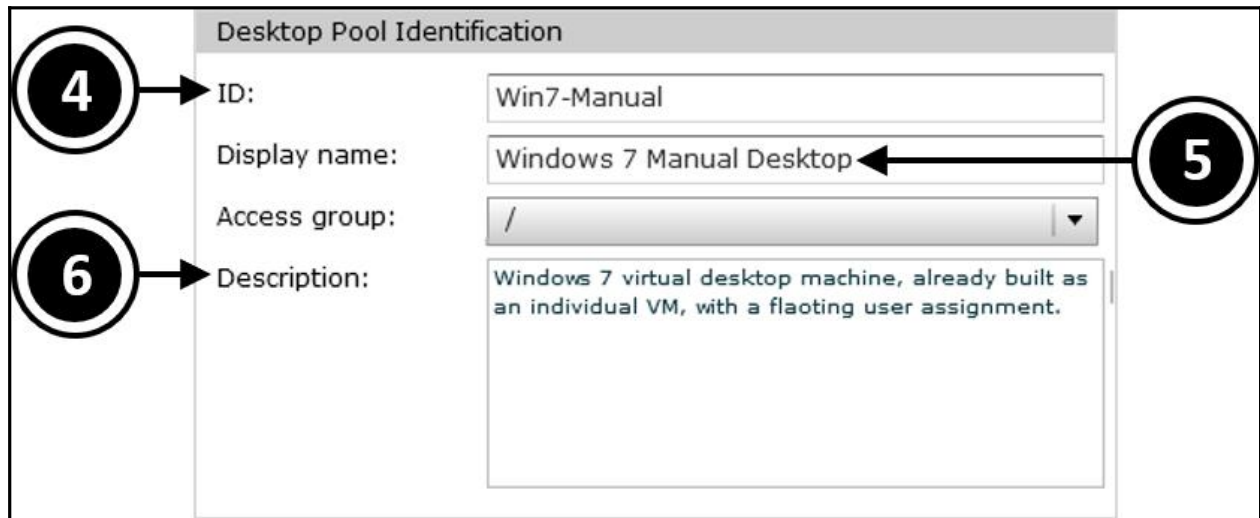
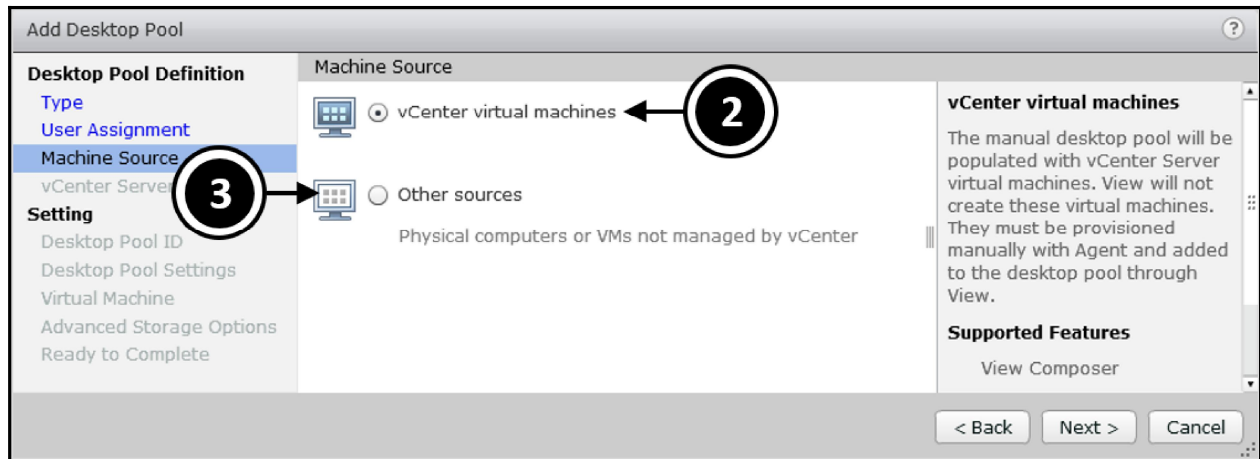
### Desktop Pools

Add... Edit... Clone... Delete...
Entitlements... Status Access Group More Commands

Filter  Find Clear Access Group: All

ID	Display Name	Type	Source	User Assignment	vCenter Server	Entitled	Enabled	App Shortcuts	Sessio... 1
Win7-dedicated-1c	Windows 7 Dedicated	Automated Desktop Pool	vCenter (linked clone)	Dedicated	192.168.1.178	0	✓		0
Win7-dedicated-full	Windows 7 Dedicated Full Clone	Automated Desktop Pool	vCenter	Dedicated	192.168.1.178	0	✓		0
Win10-Floating-1c	Windows 10 Instant Clone	Automated Desktop Pool	vCenter (instant clone)	Floating	192.168.1.178	0	✓		0
Win7-Floating-fc	Windows 7 Floating Full Clones	Automated Desktop Pool	vCenter	Floating	192.168.1.178	0	✓		0
Win7-Floating-1c	Windows 7 Floating Linked Clone	Automated Desktop Pool	vCenter (linked clone)	Floating	192.168.1.178	0	✓		0





**Add Desktop Pool - Win7-Manual**

**Desktop Pool Definition**

- Type
- User Assignment
- Machine Source
- vCenter Server

**Setting**

- Desktop Pool ID
- Desktop Pool Settings
- Virtual Machine**
- Advanced Storage Options
- Ready to Complete

**Add vCenter Virtual Machines**

Select virtual machines to add to the desktop pool. Virtual machines that are already in the desktop pool have been filtered from the table below.

Show all virtual machines

Filter

Name	Guest OS	Path
<input type="checkbox"/> CentOS Linux Desktop	CentOS 7 (64-bit)	/PVO's Datacenter/vm/CentOS Linux Desktop
<input type="checkbox"/> Windows 10 Gold Image	Microsoft Windows 10	/PVO's Datacenter/vm/Windows 10 Gold Image
<input checked="" type="checkbox"/> Windows 7 Manual Desktop	Microsoft Windows 7	/PVO's Datacenter/vm/Windows 7 Manual Desktop

Name	Guest OS	Path
<input checked="" type="checkbox"/> Windows 7 Manual Desktop	Microsoft Windows 7	/PVO's Datacenter/vm/Windows 7 Manual Desktop

**Annotations:**

- 7: Points to the "Windows 7 Manual Desktop" row in the top table.
- 8: Points to the "Add" button.
- 9: Points to the "Windows 7 Manual Desktop" row in the bottom table.

**VMware Horizon 7 Administrator**

Horizon Console | About | Help | Logout (administrator)

Updated 31/12/2018 07:42

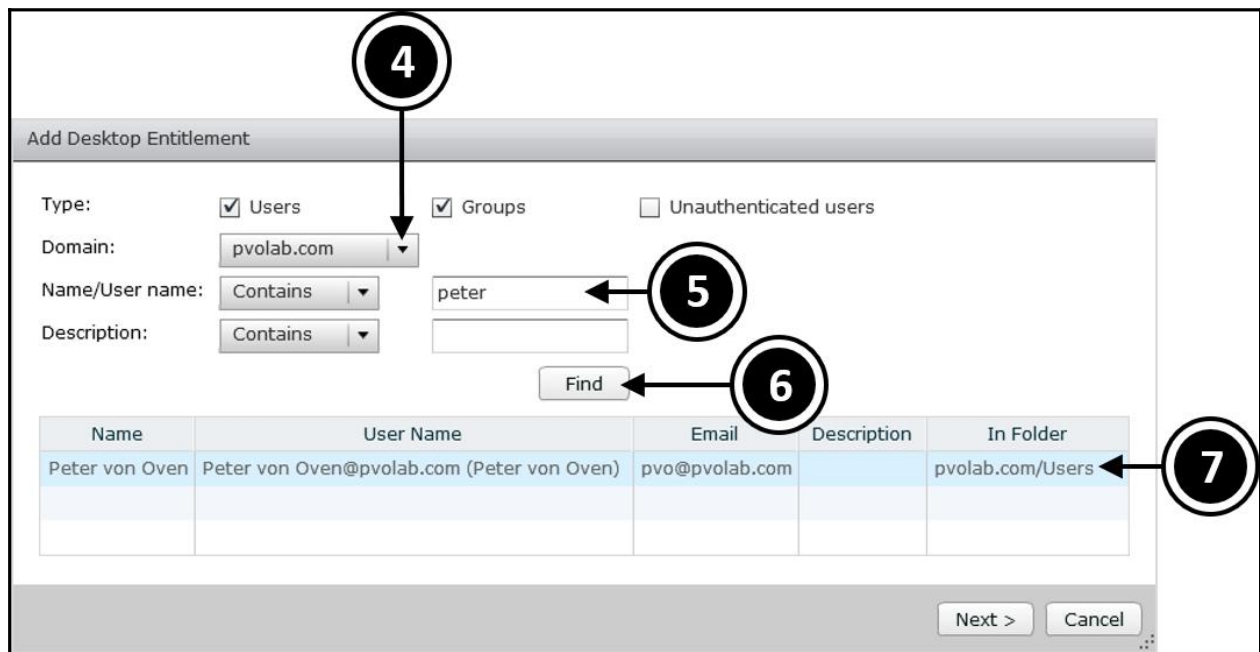
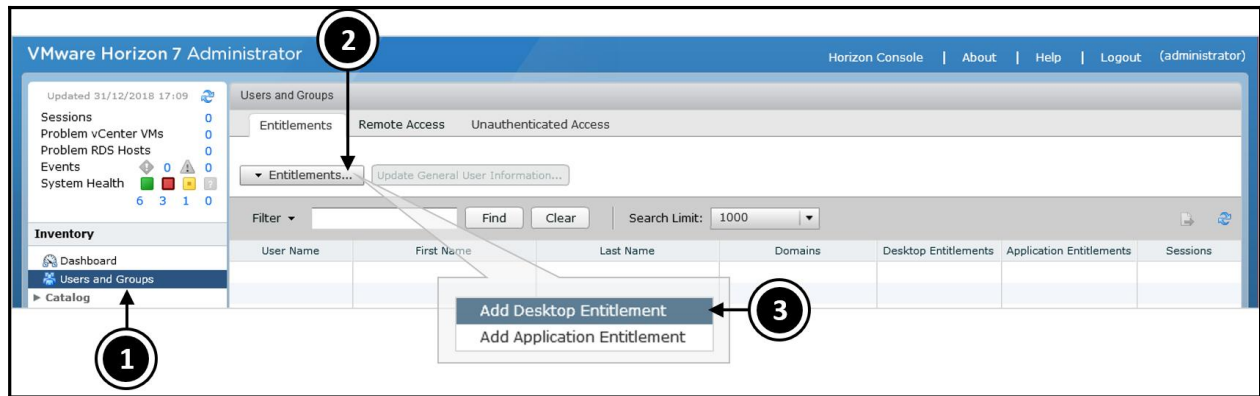
**Desktop Pools**

Filter    Access Group:

ID	Display Name	Type	Source	User As...	vCenter Ser...	En...	En...	App Sh...	Sessions
Win7-Floating-fc	Windows 7 Floating Full Clones	Automated Desktop Pool	vCenter	Floating	192.168.1.178	0	✓		0
Win7-dedicated-full	Windows 7 Dedicated Full Clone	Automated Desktop Pool	vCenter	Dedicated	192.168.1.178	0	✓		0
Win7-dedicated-ic	Windows 7 Dedicated	Automated Desktop Pool	vCenter (linked clone)	Dedicated	192.168.1.178	0	✓		0
Win10-Floating-ic	Windows 10 Instant Clone	Automated Desktop Pool	vCenter (instant clone)	Floating	192.168.1.178	0	✓		0
Win7-Floating-ic	Windows 7 Floating Linked Clone	Automated Desktop Pool	vCenter (linked clone)	Floating	192.168.1.178	0	✓		0
Win7-Manual	Windows 7 Manual Desktop	Manual Desktop Pool	vCenter	Dedicated	192.168.1.178	0	✓		0

**Inventory**

- Dashboard
- Users and Groups
- Desktop Pools**
- Application Pools
- ThinApps



### Add Desktop Entitlement

Select the desktop pools to entitle.

Filter  Find Clear Access Group: All

ID	Display Name	Type	vCenter Server	Entitled
Win10-Floating-ic	Windows 10 Instant Clone	Automated Desktop Pool	192.168.1.178	0
Win7-dedicated-lc	Windows 7 Dedicated	Automated Desktop Pool	192.168.1.178	0
Win7-dedicated-full	Windows 7 Dedicated Full Clone	Automated Desktop Pool	192.168.1.178	0
Win7-Floating-fc	Windows 7 Floating Full Clones	Automated Desktop Pool	192.168.1.178	0
Win7-Floating-lc	Windows 7 Floating Linked Clone	Automated Desktop Pool	192.168.1.178	0
Win7-Manual	Windows 7 Manual Desktop	Manual Desktop Pool	192.168.1.178	0

< Back Finish Cancel

8

### VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 31/12/2018 17:09

Sessions 0  
Problem vCenter VMs 0  
Problem RDS Hosts 0  
Events 0  
System Health 6 3 1 0

Users and Groups

Entitlements Remote Access Unauthenticated Access

Entitlements... Update General User Information...

Filter  Find Clear Search Limit: 1000

User Name	First Name	Last Name	Domains	Desktop Entitle...	Application Entitl...	Sessions
Peter von Oven@pvolab.com (Peter von Oven)	Peter	von Oven	pvolab.com	1	0	0

### VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 31/12/2018 17:09

Sessions 0  
Problem vCenter VMs 0  
Problem RDS Hosts 0  
Events 0  
System Health 6 3 1 0

Desktop Pools

Add... Edit... Clone... Delete... Entitlements... Status Access Group More Commands

Filter  Find Clear Access Group: All

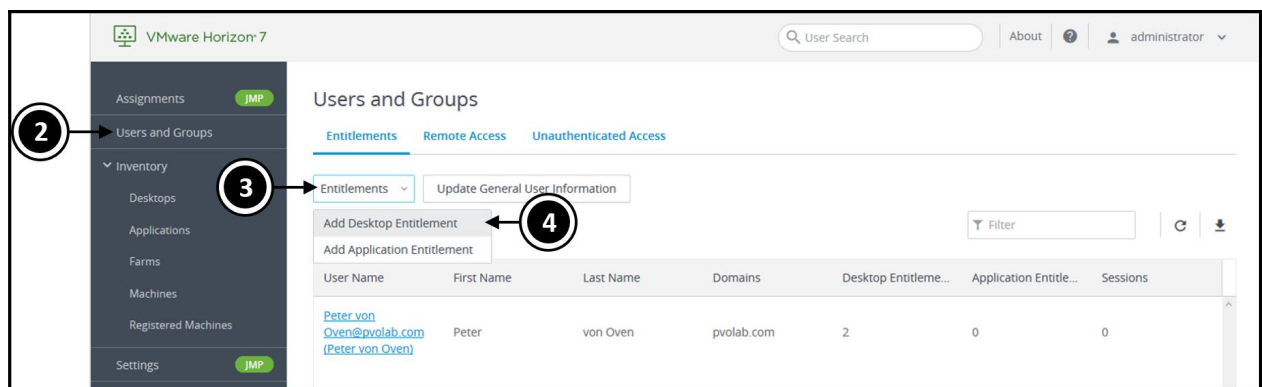
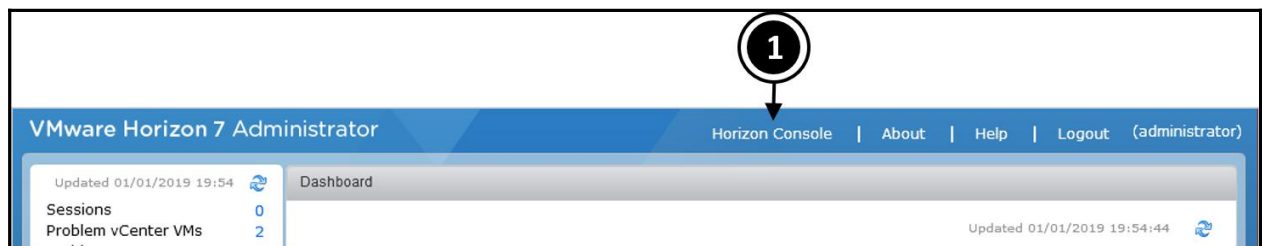
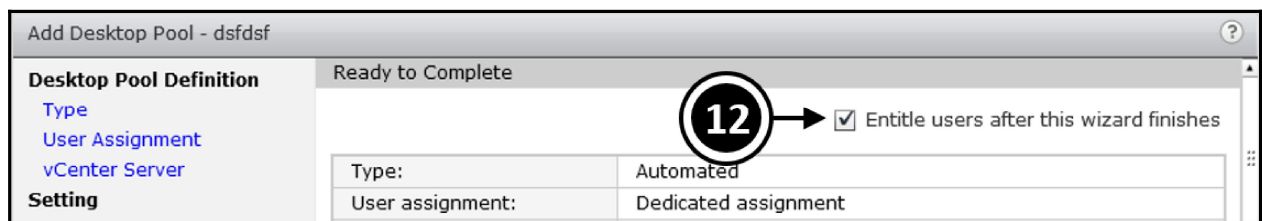
ID	Display Name	Type	Source	User As...	vCenter Se...	E...	E...	App S...	Sessions
Win10-Floating-ic	Windows 10 Instant Clone	Automated Desktop Pool	vCenter (instant clone)	Floating	192.168.1.178	0	✓	0	0
Win7-dedicated-lc	Windows 7 Dedicated	Automated Desktop Pool	vCenter (linked clone)	Dedicated	192.168.1.178	0	✓	0	0
Win7-dedicated-full	Windows 7 Dedicated Full Clone	Automated Desktop Pool	vCenter	Dedicated	192.168.1.178	0	✓	0	0
Win7-Floating-fc	Windows 7 Floating Full Clones	Automated Desktop Pool	vCenter	Floating	192.168.1.178	0	✓	0	0
Win7-Floating-lc	Windows 7 Floating Linked Clone	Automated Desktop Pool	vCenter (linked clone)	Floating	192.168.1.178	0	✓	0	0
Win7-Manual	Windows 7 Manual Desktop	Manual Desktop Pool	vCenter	Dedicated	192.168.1.178	1	✓	0	0

10

11

9





### Add Desktop Entitlement

**1** User

**2** Desktop Pools

**5** Type:  Users  Groups

Domain: pvolab.com **6**

Name/User name: Contains peter **7**

Description: Contains

**8** Find

<input type="checkbox"/>	Name	User Name	Email	Description	In Folder
<input checked="" type="checkbox"/>	Peter von Oven	Peter von Oven@pvolab.com (Peter von Oven)	pvo@pvolab.com		pvolab.com/Users

**9**

Cancel Previous **Next** Submit

### Add Desktop Entitlement

✓ User  
2 Desktop Pools

#### Select the desktop pools to entitle

Access group: All Filter ↻

<input type="checkbox"/>	ID	Display name	Type	vCenter Server	Entitled
<input checked="" type="checkbox"/>	Win7-Manual	Windows 7 Manual Desktop	Manual desktop pool	192.168.1.178	1
<input type="checkbox"/>	Win7-dedicated-lc	Windows 7 Dedicated	Automated desktop pool	192.168.1.178	1

Cancel Previous Next Submit

VMware Horizon 7 User Search About administrator

### Users and Groups

Entitlements Remote Access Unauthenticated Access

Entitlements Update General User Information

Filter ↻ ↓

User Name	First Name	Last Name	Domains	Desktop Entitleme...	Application Entitle...	Sessions
<a href="#">Peter von Oven@pvolab.com</a> <a href="#">(Peter von Oven)</a>	Peter	von Oven	pvolab.com	2	0	0

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 31/12/2018 17:09

Sessions: 0  
 Problem vCenter VMs: 0  
 Problem RDS Hosts: 0  
 Events: 0  
 System Health: 6 3 1 0

Desktop Pools

Add... Edit... Clone... Delete... Entitlements... Status Access Group More Commands

Filter Find Clear Access Group: All

ID	Display Name	Type	Source	User As...	vCenter Se...	E...	E...	App S...	Sessions
Win10-Floating-ic	Windows 10 Instant Clone	Automated Desktop Pool	vCenter (instant clone)	Floating	192.168.1.176	0	✓	0	0
Win7-dedicated-ic	Windows 7 Dedicated	Automated Desktop Pool	vCenter (linked clone)	Dedicated	192.168.1.176	0	✓	0	0
Win7-dedicated-full	Windows 7 Dedicated Full Clone	Automated Desktop Pool	vCenter	Dedicated	192.168.1.176	0	✓	0	0
Win7-Floating-fc	Windows 7 Floating Full Clones	Automated Desktop Pool	vCenter	Floating	192.168.1.176	0	✓	0	0
Win7-Floating-ic	Windows 7 Floating Linked Clone	Automated Desktop Pool	vCenter (linked clone)	Floating	192.168.1.176	0	✓	0	0
Win7-Manual	Windows 7 Manual Desktop	Manual Desktop Pool	vCenter	Dedicated	192.168.1.176	1	✓	0	0

Inventory: 1

2

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 31/12/2018 17:09

Sessions: 0  
 Problem vCenter VMs: 0  
 Problem RDS Hosts: 0  
 Events: 0  
 System Health: 6 3 1 0

Win7-Floating-ic

Summary Inventory Sessions Entitlements Tasks Events Policies

Machines | Machines (View Composer Details) | ThinApps

Restart Desktop... Reset Virtual Machine... Remove... View Composer More Commands

Filter Find Clear

Machine	DNS Name	User	Host	Agent Version	Datastore	Task	Status
W7-Float-ic-1			192.168.1.131	Unknown	2	None	Customizing

3

4

---

<b>Restart Desktop...</b>
Reset Virtual Machine...
Remove...
<hr/>
Refresh...
Recompose...
Rebalance...
Cancel task...
<hr/>
Enter Maintenance Mode...
Exit Maintenance Mode...
Disconnect Session...
Logoff Session...
Send Message...
<hr/>
Export table contents
Refresh table content

Win7-Floating-1c

Summary Inventory Sessions Entitlements Tasks Events Policies

Edit... Delete Desktop Pool... Entitlements... Status View Composer

**1**

Refresh  
Recompose  
Rebalance

**2**

**General**

Unique ID: Win7-Floating-1c

Type: Automated Desktop Pool

User assignment: Floating assignment

Machine source: vCenter (linked clone)

Use View Composer: Yes

Display name: Windows 7 Floating Linked Clone

Access group: /

State: Enabled

Provisioning: Disabled

Sessions: 0

Number of entitled users and groups: 1

Number of machines: 1

**Pool Settings**

Max number of machines: 1

Number of spare (powered on) machines: 1

Minimum number of ready (provisioned) machines during View Composer maintenance operations: 0

Stop provisioning on error: Yes

Add a Trusted Platform Module (vTPM) device to the VMs: No

VM naming pattern: W7-Float-1c-{n}

Connection Server restrictions: None

Category Folder: None

Remote Machine Power Policy: Take no power action

Delete or refresh machine on logoff: Never

Automatic logoff after disconnect: Never

Allow users to reset/restart their machine: No

Recompose

**Image**

Select the snapshot that will be used as the image. This snapshot can be on the current parent VM or a different one. The machines created in this desktop pool will use the information in the image as the baseline system configuration.

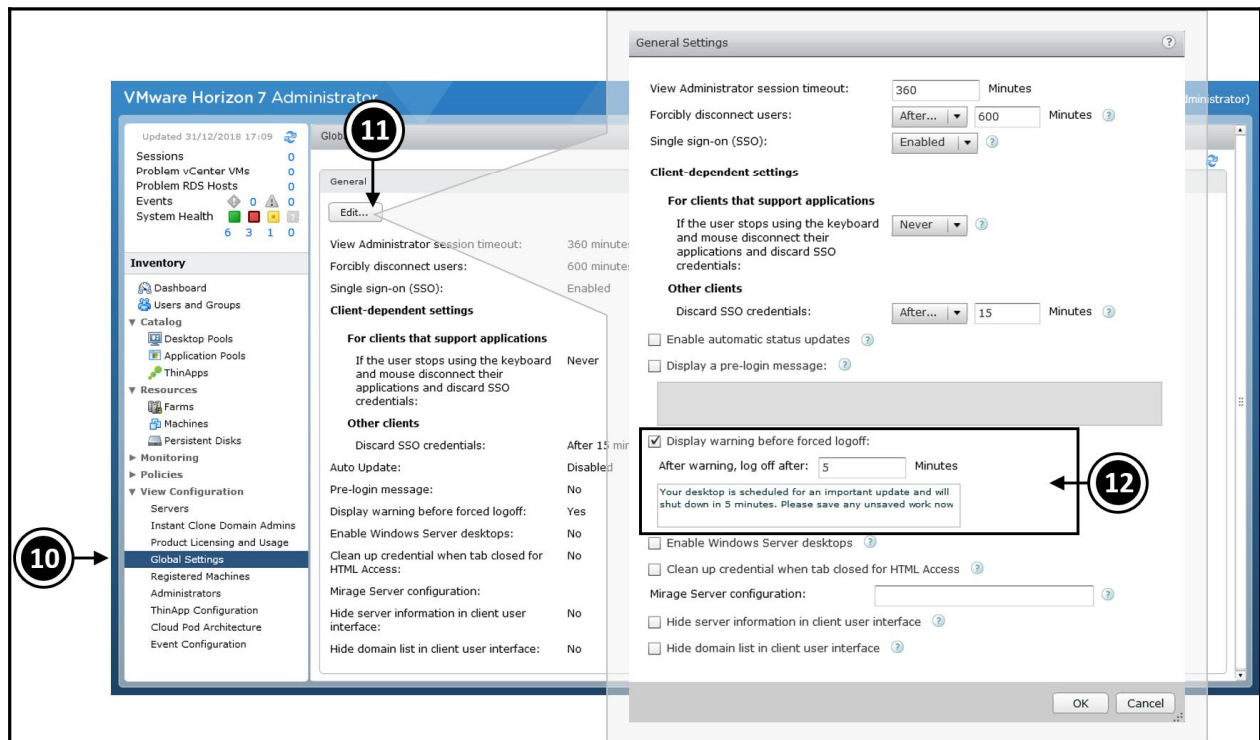
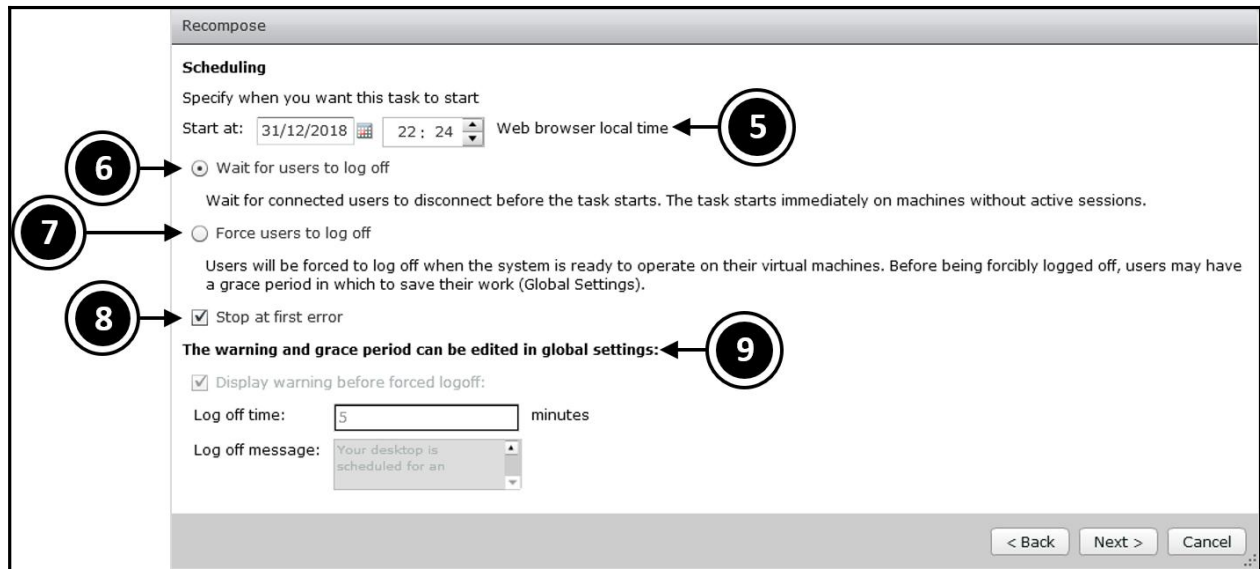
Parent VM: /PVO's Datacenter/vm/Windows 7 Gold Image Change... **3**

Snapshot:

Snapshot Details

Snapshot	Time created	Description	Path
Windows 7 Gold Image	10/12/2018 17:52:22	Windows 7 image to b...	/Windows 7 Gold Image <b>4</b>

Next > Cancel



Recompose

**Ready to Complete**  
Review the options and click Finish

Forced logoff global settings:

Log off message:	Your desktop is scheduled for an important update and will shut down in 5 minutes. Please save any unsaved work now
Log off time:	5 minutes

---

Affected virtual machines:	1
Start time:	31/12/2018 22:24
User log off:	Wait for users to log off
Stop at first error:	Yes
Parent VM:	/PVO's Datacenter/vm/Windows 7 Gold Image
Image:	/Windows 7 Gold Image

[Show Details](#)

Refresh

**Scheduling**

Specify when you want this task to start

Start at:   Web browser local time

Wait for users to log off  
 Wait for connected users to disconnect before the task starts. The task starts immediately on machines without active sessions.

Force users to log off  
 Users will be forced to log off when the system is ready to operate on their virtual machines. Before being forcibly logged off, users may have a grace period in which to save their work (Global Settings).

Stop at first error

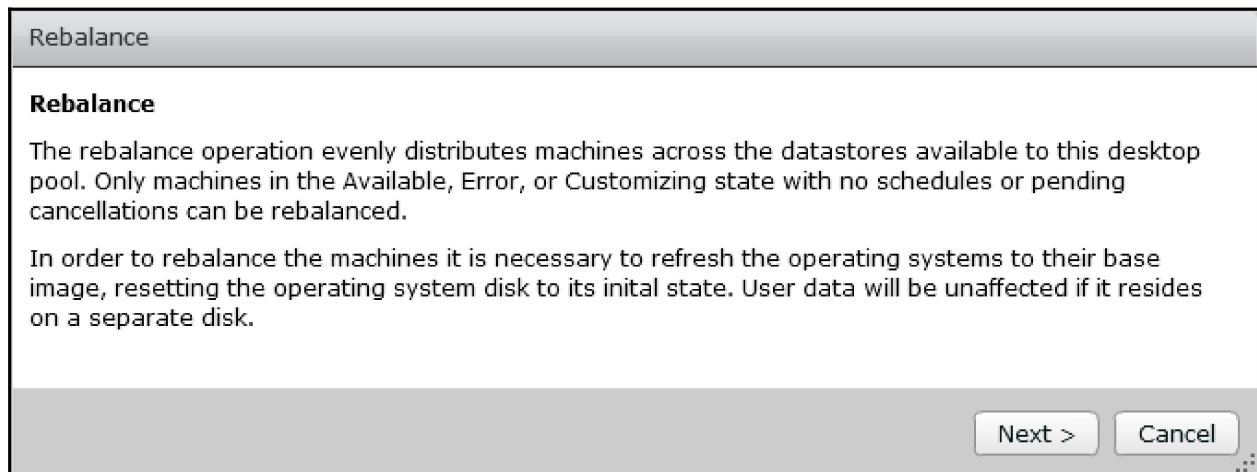
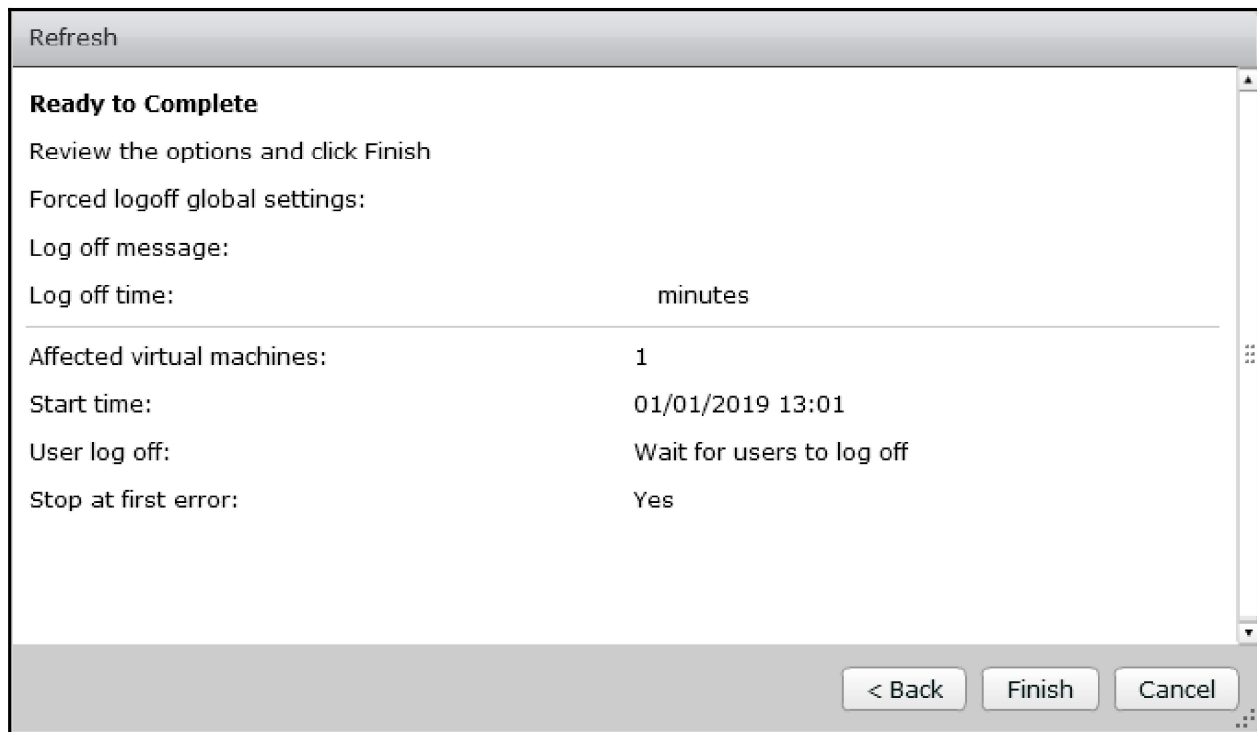
**The warning and grace period can be edited in global settings:**

Display warning before forced logoff:

Log off time:  minutes

Log off message:





Rebalance

**Ready to Complete**

Review the options and click Finish

Forced logoff global settings:

Log off message: Your desktop is scheduled for an important update and will shut down in 5 minutes. Please save any unsaved work now

Log off time: 5 minutes

---

Affected virtual machines: 1

Start time: 01/01/2019 13:03

User log off: Wait for users to log off

Stop at first error: Yes

---

**i** Settings for this desktop pool requires at least 1 machines to be kept provisioned and ready for use during the maintenance operation. As a result, the concurrency of the maintenance process on the desktop pool may be reduced.

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 01/01/2019 09:38

Win7-dedicated-ic

Summary | Inventory | Sessions | Entitlements | Tasks | Events | Policies

Machines | Machines (View Composer Details) | Persistent Disks | ThinApps

Restart Desktop... | Reset Virtual Machine... | Remove... | View Composer | More Commands

Filter | Find | Clear

Machine	DNS Name	User	Host	Agent Version	Datastore	Task	Status
Win7-VM-1			192.168.1.131	Unknown	2	None	Customizing
Win7-VM-2			192.168.1.131				

Win7-dedicated-ic

Summary | Inventory | Sessions | Entitlements | Tasks | Events | Policies

Machines | Machines (View Composer Details) | Persistent Disks | ThinApps

Detach...

Filter | Find | Clear | Access Group:

Persistent Disk	User	Machine	Desktop Pool
Win7-VM-1-vdm-user-disk-D		Win7-VM-1	Win7-dedicated-ic
Win7-VM-2-vdm-user-disk-D		Win7-VM-2	Win7-dedicated-ic

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 01/01/2019 09:53

Sessions 0  
 Problem vCenter VMs 0  
 Problem RDS Hosts 0  
 Events 0  
 System Health 6 3 1 0

**Inventory**

- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks**
- Monitoring
- Policies
- View Configuration

Persistent Disks

Attached Detached

Detach... (8)

Filter Find Clear Access Group: All

Persistent Disk	User	Machine	Desktop Pool	Datastore	Capacity (GB)	Usage	Status
Win7-VM-2-vdm-user-disk-D		Win7-VM-2	Win7-dedicated-1c	VM Datastore	2.00 GB	PRIMARY	In Use
Win7-VM-1-vdm-user-disk-D		Win7-VM-1	Win7-dedicated-1c	VM Datastore	2.00 GB	PRIMARY	In Use

(7) (6)

VMware Horizon 7 Administrator

Horizon Console

Updated 01/01/2019 09:53

Sessions 0  
 Problem vCenter VMs 0  
 Problem RDS Hosts 0  
 Events 0  
 System Health 6 3 1 0

**Inventory**

- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms
  - Machines
  - Persistent Disks**
- Monitoring
- Policies
- View Configuration

Persistent Disks

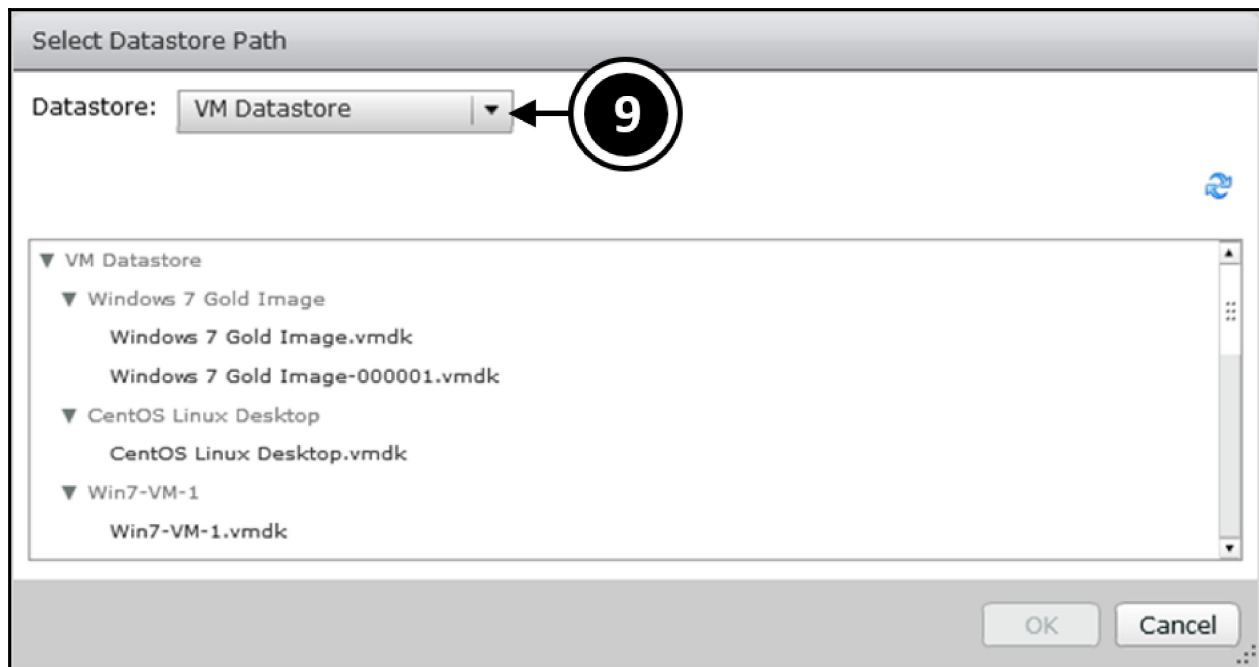
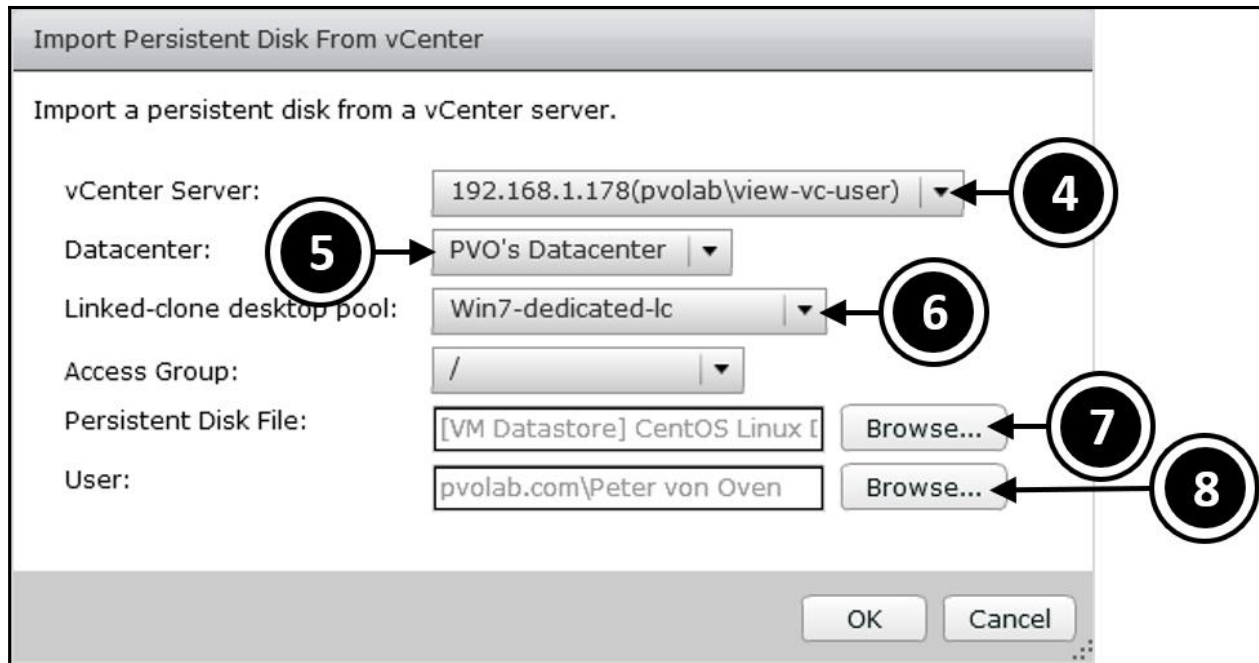
Attached Detached

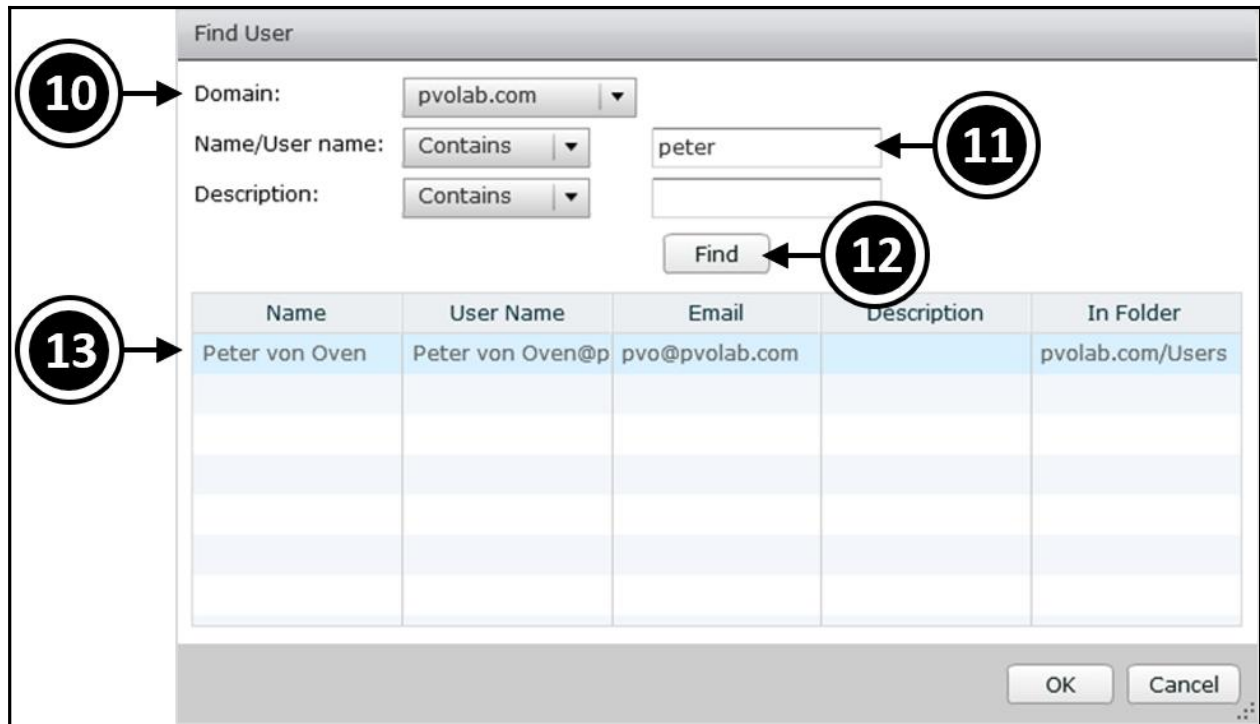
Attach... Edit... Delete Recreate Machine... Import from vCenter... Access Group

Filter Find Clear Access Group: All

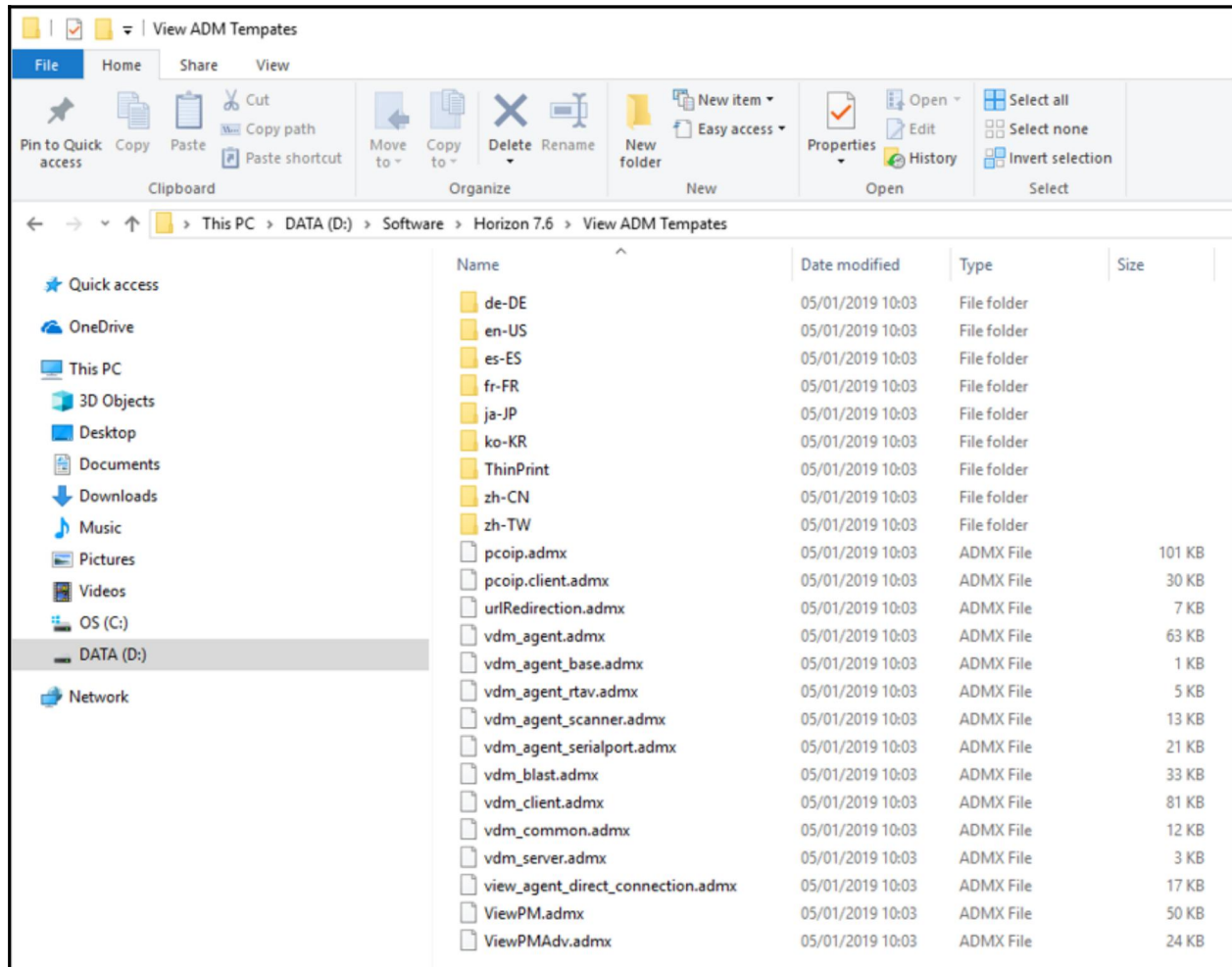
Persistent Disk	User	Last Desktop Pool	Datastore

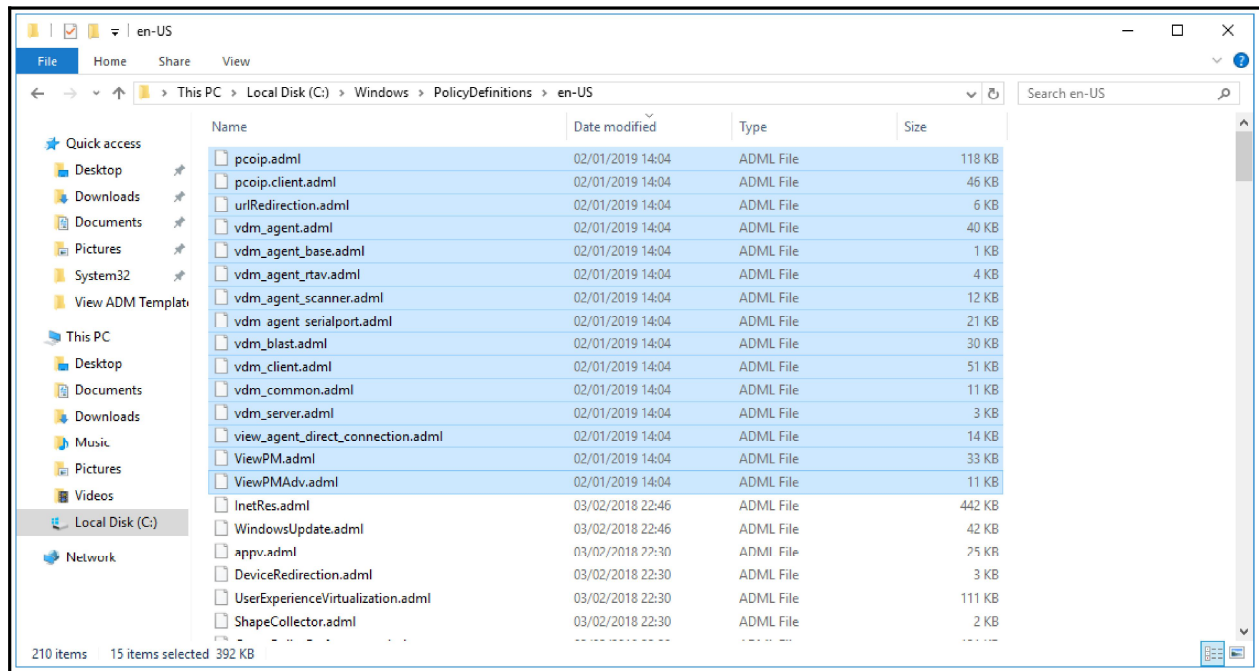
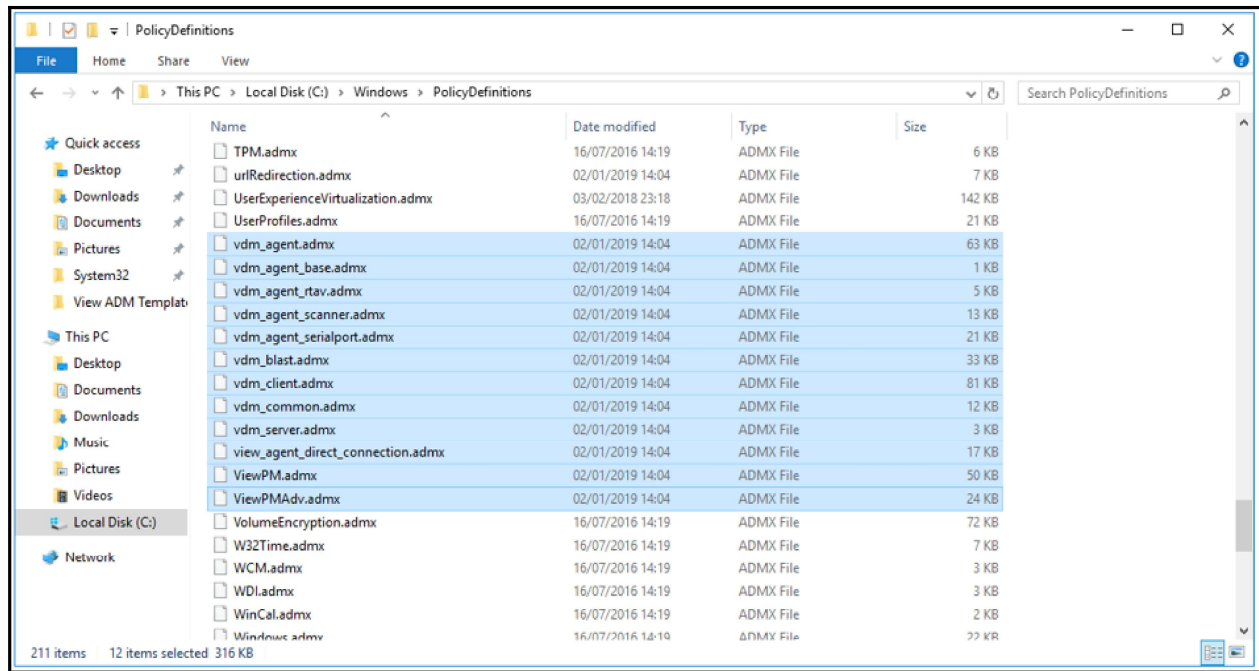
(2) (3) (1)

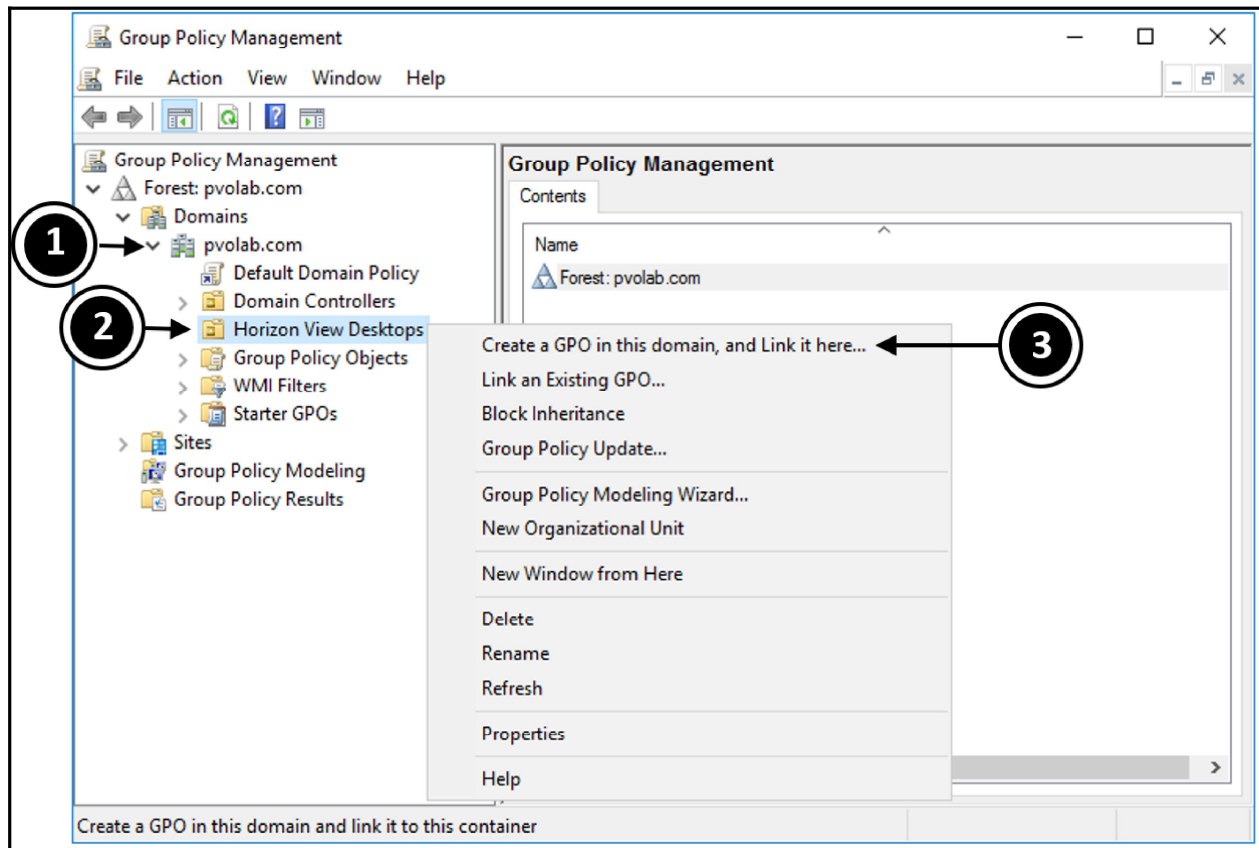
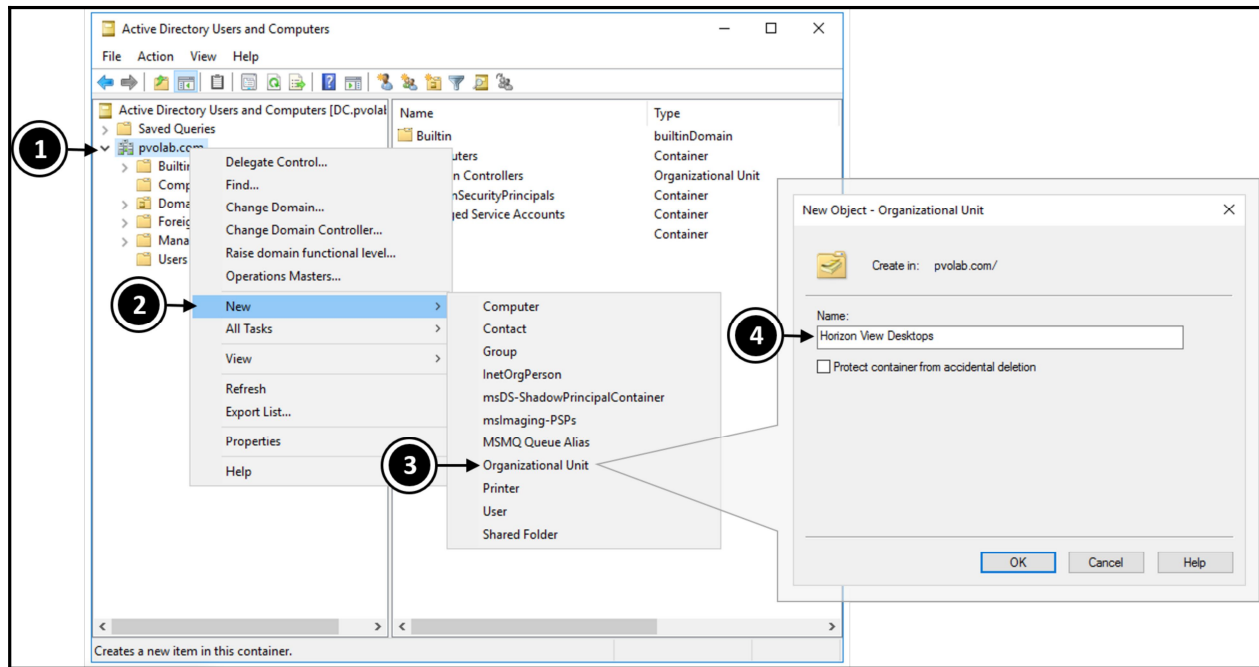




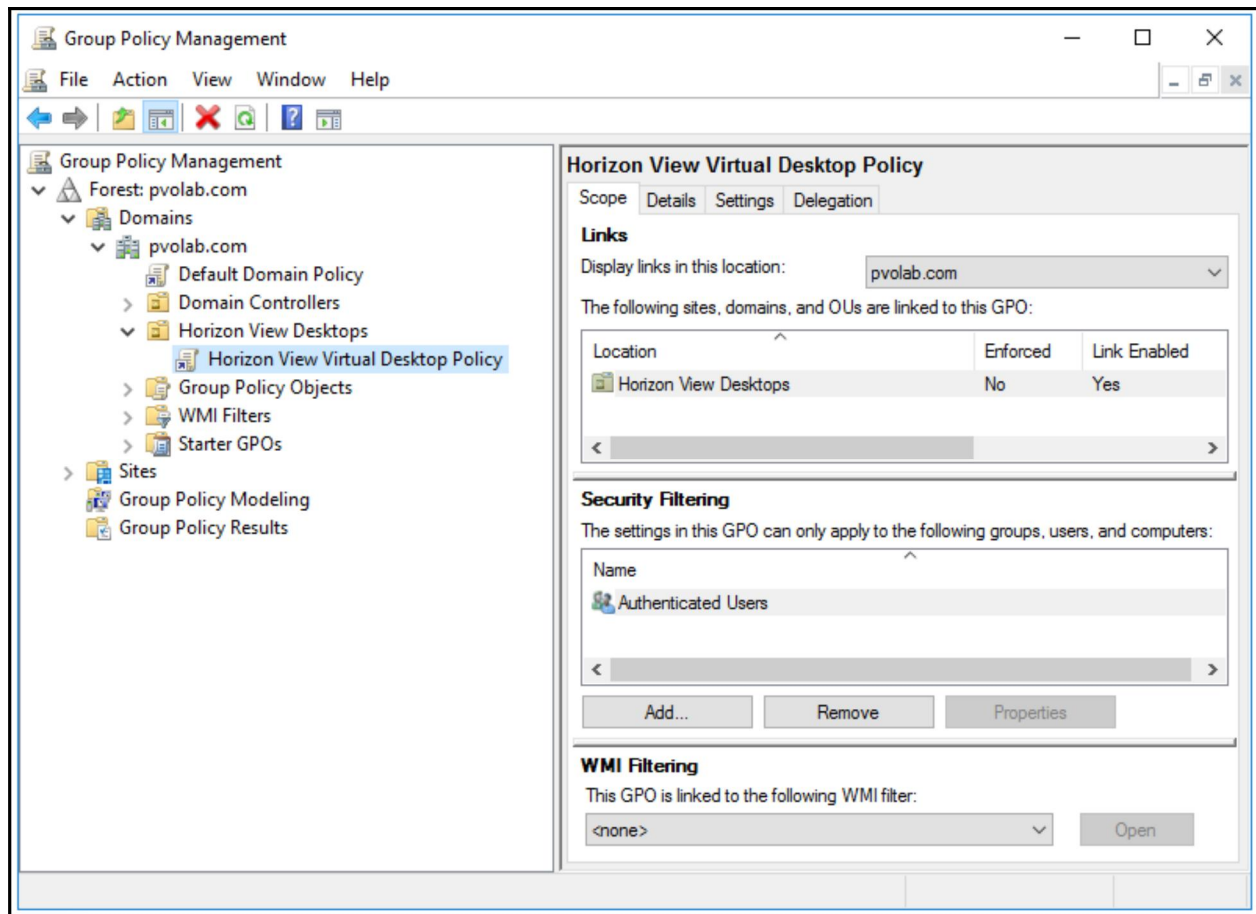
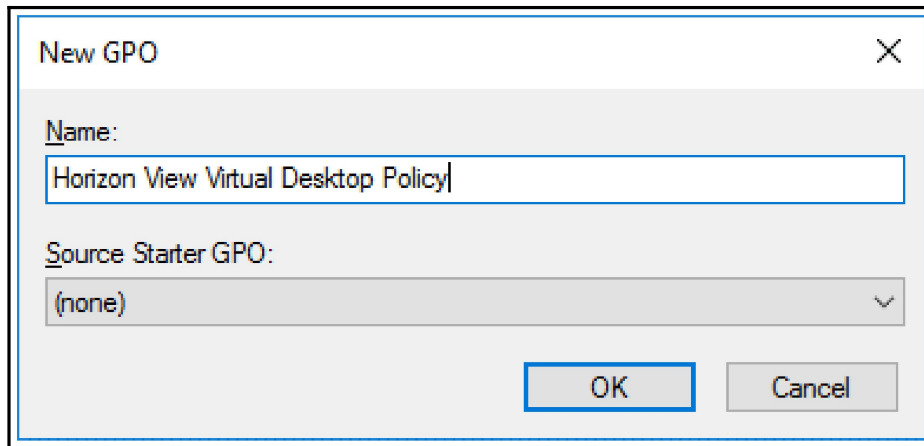
# Chapter 10: Fine-Tuning the End User Experience

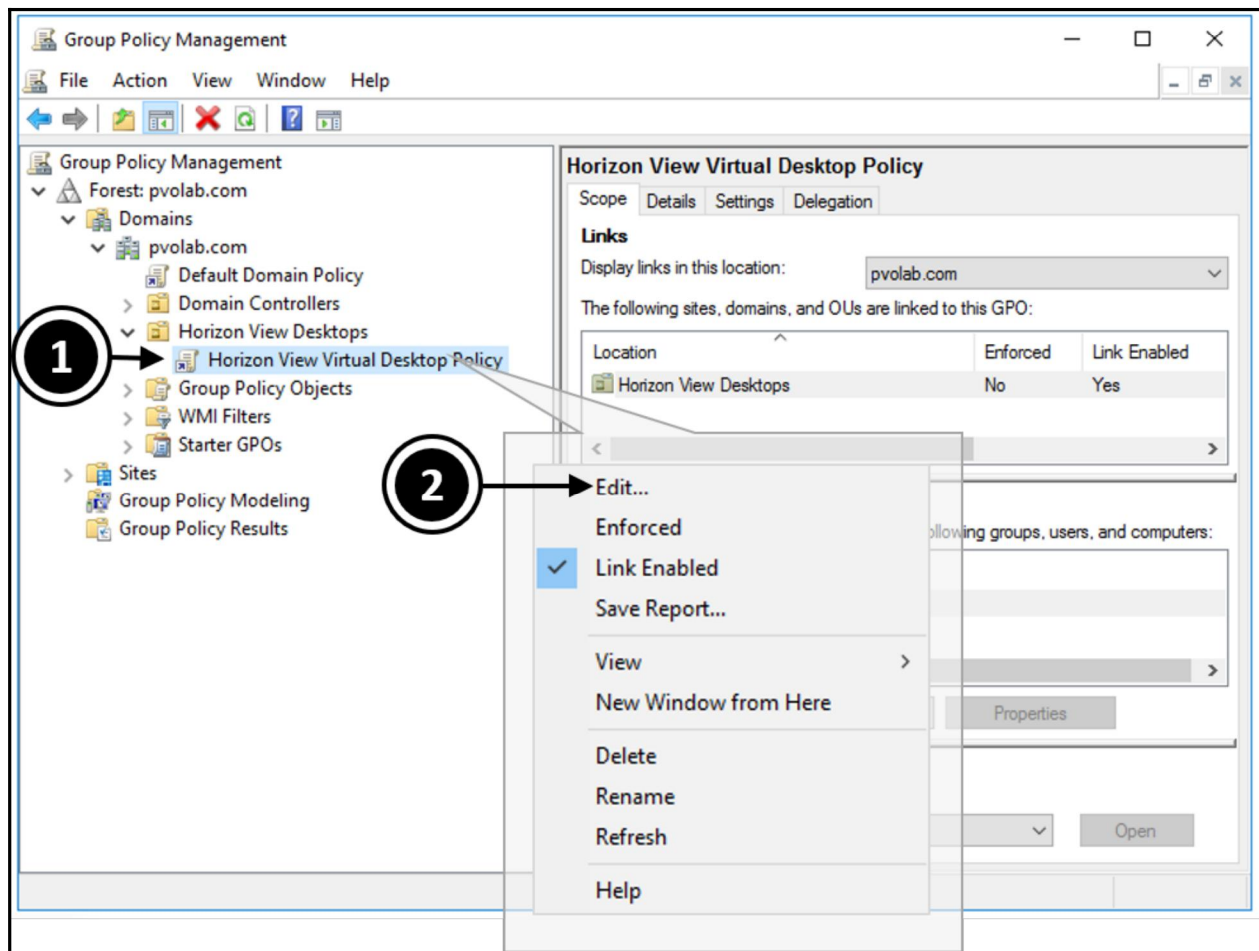


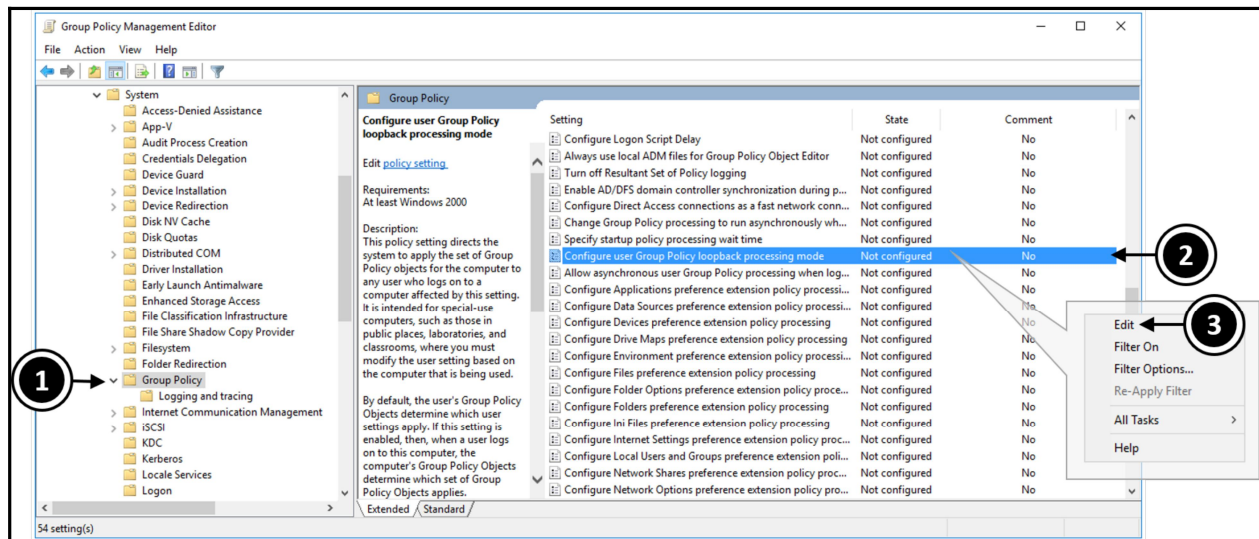
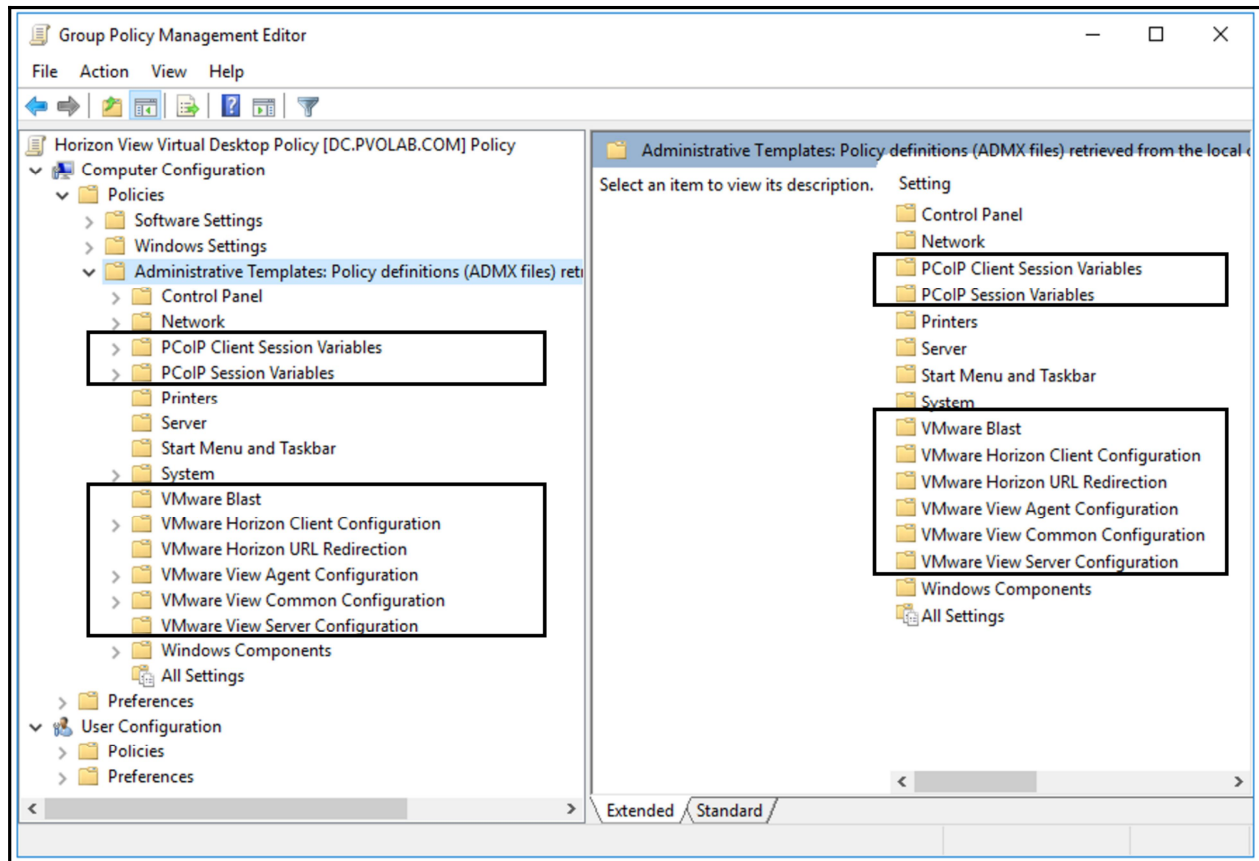


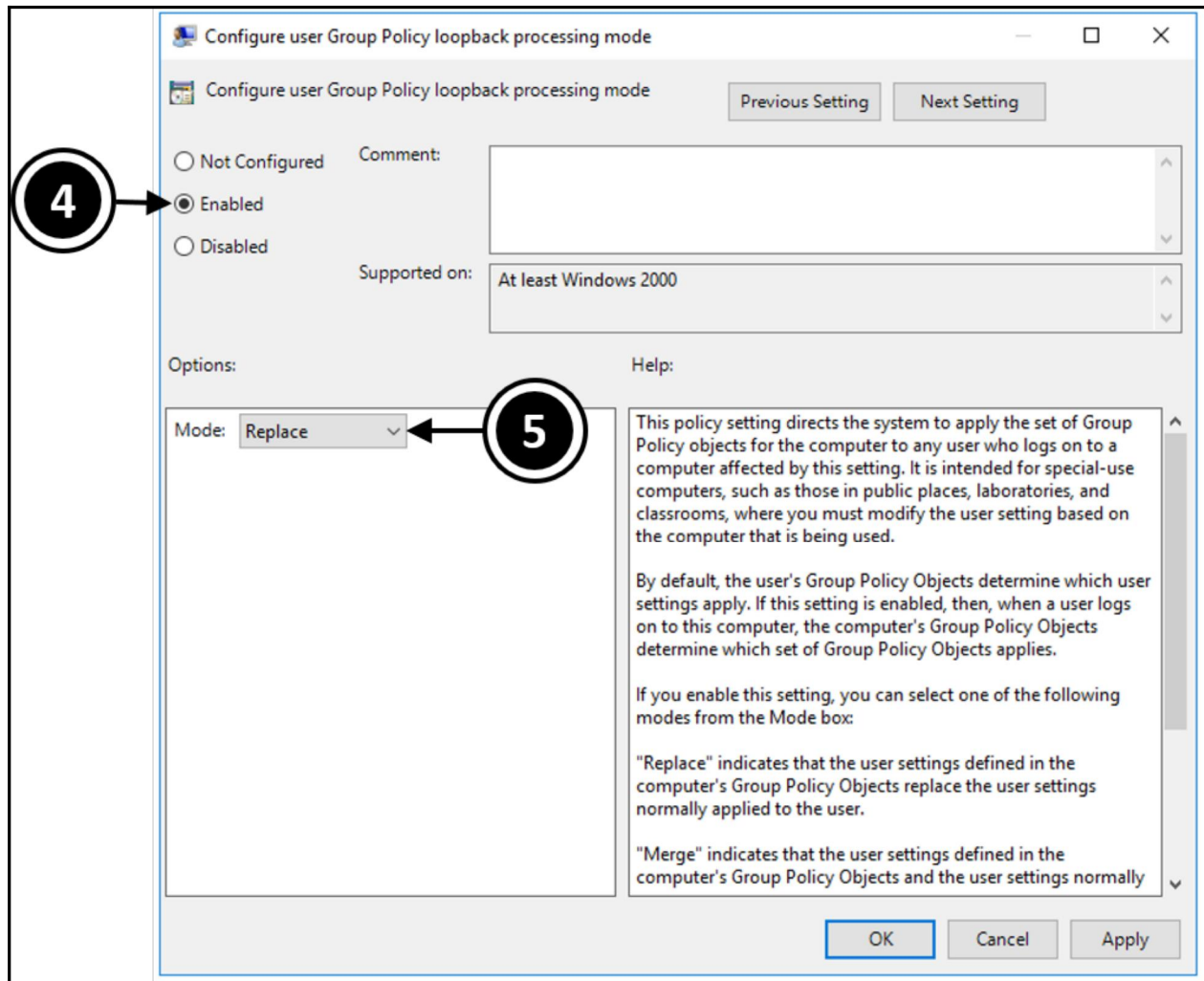


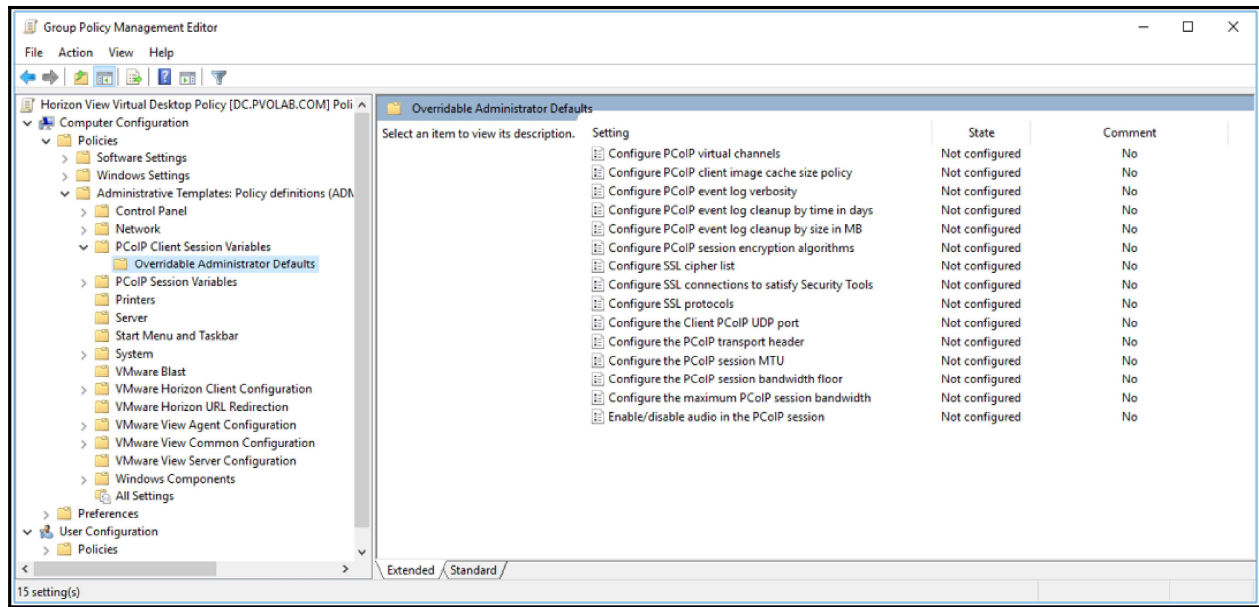


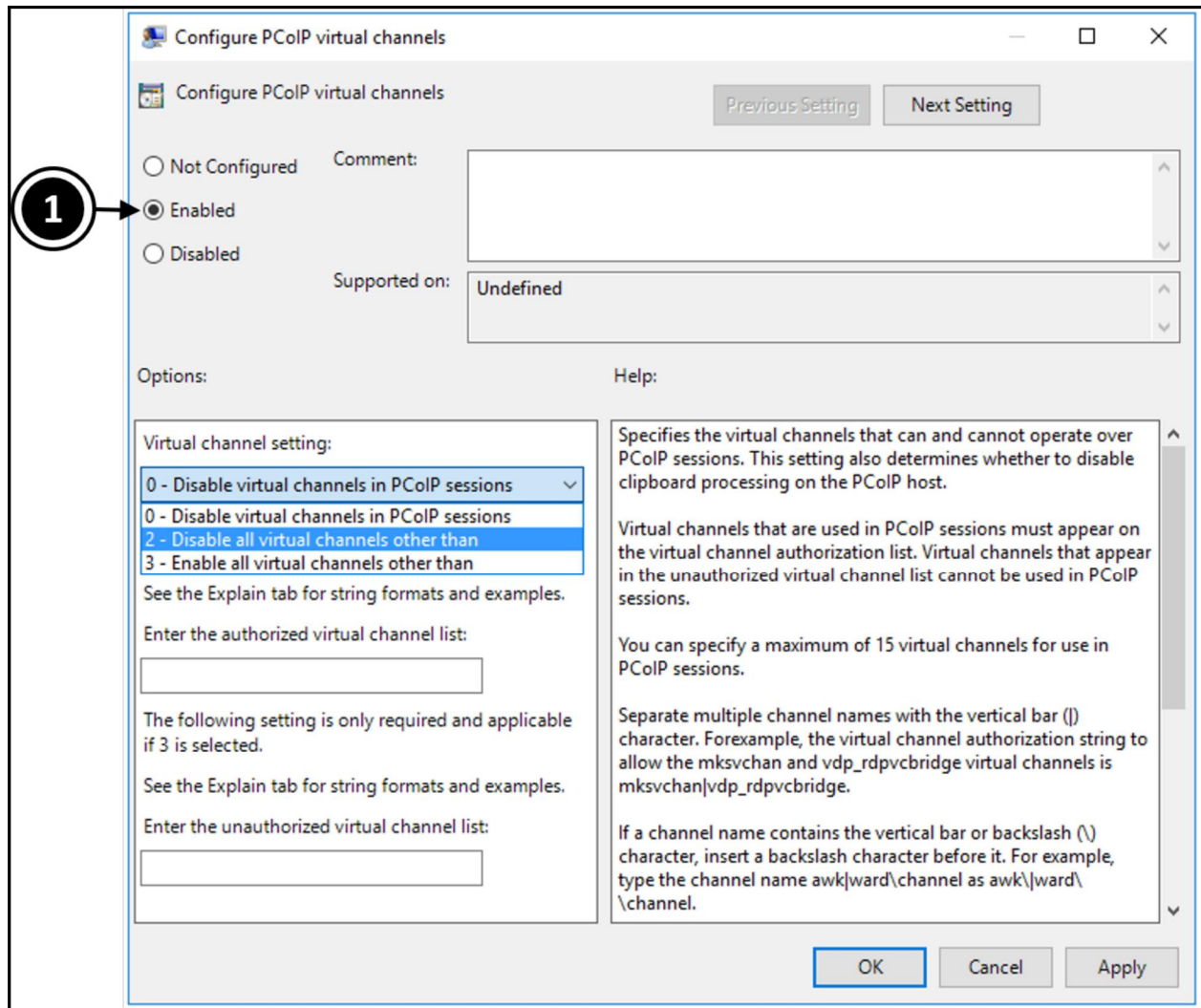












Group Policy Management Editor

File Action View Help

Horizon View Virtual Desktop Policy [DC.PVOLAB.COM] Policy

Computer Configuration

- Policies
  - Software Settings
  - Windows Settings
  - Administrative Templates: Policy definitions (ADMX)
    - Control Panel
    - Network
    - PCoIP Client Session Variables
    - PCoIP Session Variables
      - Overridable Administrator Defaults**
      - Printers
      - Server
      - Start Menu and Taskbar
      - System
      - VMware Blast
      - VMware Horizon Client Configuration
      - VMware Horizon URL Redirection
      - VMware View Agent Configuration
      - VMware View Common Configuration
      - VMware View Server Configuration
      - Windows Components
      - All Settings
- Preferences
  - User Configuration
    - Policies
    - Preferences

Overridable Administrator Defaults

Select an item to view its description.

Setting	State	Comment
Configure PCoIP session encryption algorithms	Not configured	No
Configure PCoIP USB allowed and unallowed device rules	Not configured	No
Configure PCoIP virtual channels	Not configured	No
Configure PCoIP image quality levels	Not configured	No
Configure PCoIP event log verbosity	Not configured	No
Configure PCoIP event log cleanup by time in days	Not configured	No
Configure PCoIP event log cleanup by size in MB	Not configured	No
Configure SSL cipher list	Not configured	No
Configure SSL connections to satisfy Security Tools	Not configured	No
Configure SSL protocols	Not configured	No
Configure clipboard redirection	Not configured	No
Configure clipboard memory size on server	Not configured	No
Configure clipboard audit	Not configured	No
Configure frame rate vs image quality preference	Not configured	No
Configure the PCoIP session MTU	Not configured	No
Configure the PCoIP session bandwidth floor	Not configured	No
Configure the PCoIP session audio bandwidth limit	Not configured	No
Configure the PCoIP transport header	Not configured	No
Configure the TCP port to which the PCoIP Server binds and...	Not configured	No
Configure the UDP port to which the PCoIP Server binds an...	Not configured	No
Configure the maximum PCoIP session bandwidth	Not configured	No
Disable sending CAD when users press Ctrl+Alt+Del	Not configured	No
Enable access to a PCoIP session from a vSphere console	Not configured	No
Enable/disable audio in the PCoIP session	Not configured	No
Enable/disable microphone noise and DC offset filter in PCo...	Not configured	No
Filter Microsoft Office text data out of the incoming clipboa...	Not configured	No
Filter Microsoft Chart and Smart Art data out of the incomin...	Not configured	No
Filter images out of the outgoing clipboard data	Not configured	No
Filter text out of the incoming clipboard data	Not configured	No
Filter text out of the outgoing clipboard data	Not configured	No
Turn off Build-to-Lossless feature	Not configured	No
Turn on PCoIP user default input language synchronization	Not configured	No
Use alternate key for sending Secure Attention Sequence	Not configured	No
Whether block clipboard redirection to client side when clie...	Not configured	No

41 setting(s)

Extended / Standard /

Group Policy Management Editor

File Action View Help

Horizon View Virtual Desktop Policy [DC.PVOLAB.COM] Policies

- Computer Configuration
  - Policies
    - Software Settings
    - Windows Settings
    - Administrative Templates: Policy definitions (Administrative Templates)
      - Control Panel
      - Network
      - PCoIP Client Session Variables
      - PCoIP Session Variables
      - Printers
      - Server
      - Start Menu and Taskbar
      - System
      - VMware Blast
      - VMware Horizon Client Configuration
      - VMware Horizon URL Redirection
      - VMware View Agent Configuration
      - VMware View Common Configuration
      - VMware View Server Configuration
      - Windows Components
      - All Settings
    - Preferences
  - User Configuration
    - Policies
    - Preferences

VMware Blast

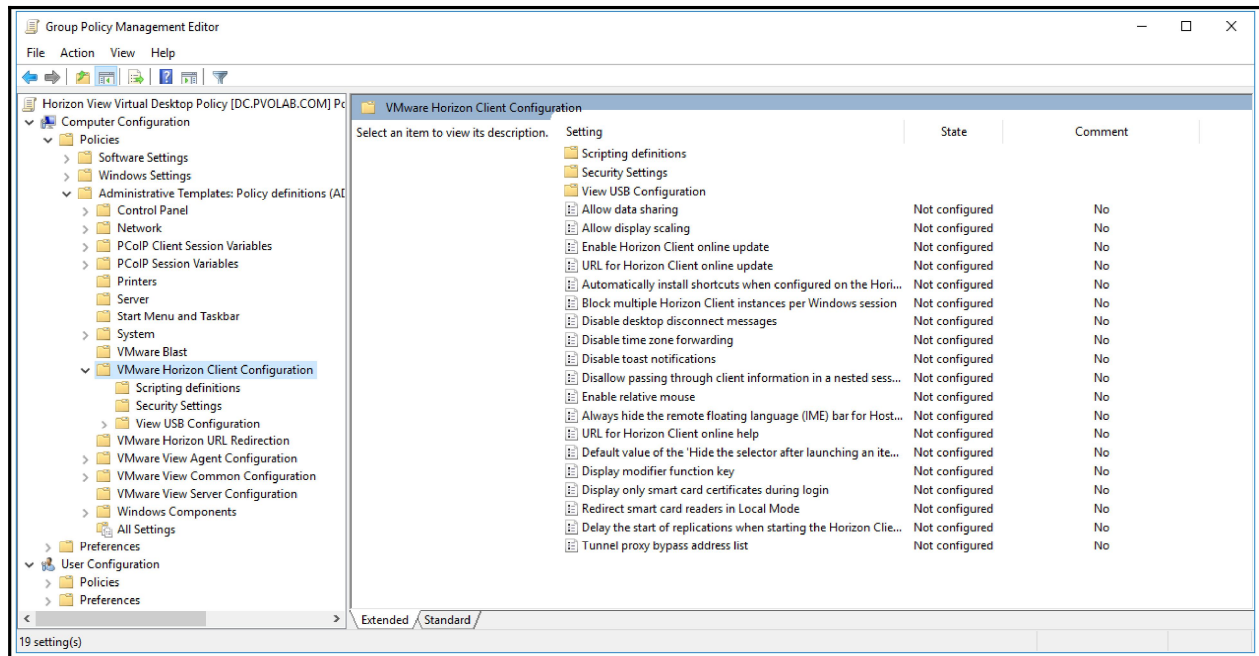
Select an item to view its description.

Setting	State	Comment
Audio playback	Not configured	No
Cookie Cleanup Interval	Not configured	No
Image Quality	Not configured	No
DSCP Marking	Not configured	No
DSCP from Agent, TCP/IPv4	Not configured	No
DSCP from Agent, TCP/IPv6	Not configured	No
DSCP from Agent, UDP/IPv4	Not configured	No
DSCP from Agent, UDP/IPv6	Not configured	No
DSCP from BSG to Client, TCP/IPv4	Not configured	No
DSCP from BSG to Client, TCP/IPv6	Not configured	No
DSCP from BSG to Client, UDP/IPv4	Not configured	No
DSCP from BSG to Client, UDP/IPv6	Not configured	No
DSCP from BSG to Agent, TCP/IPv4	Not configured	No
DSCP from BSG to Agent, TCP/IPv6	Not configured	No
DSCP from BSG to Agent, UDP/IPv4	Not configured	No
DSCP from BSG to Agent, UDP/IPv6	Not configured	No
DSCP from Client, TCP/IPv4	Not configured	No
DSCP from Client, TCP/IPv6	Not configured	No
DSCP from Client, UDP/IPv4	Not configured	No
DSCP from Client, UDP/IPv6	Not configured	No
H.264 High Color Accuracy	Not configured	No
H.264	Not configured	No
H.264 Quality	Not configured	No
HTTP Service	Not configured	No
Max Session Bandwidth kbit/s Megapixel Slope	Not configured	No
Max Frame Rate	Not configured	No
Max Session Bandwidth	Not configured	No
Min Session Bandwidth	Not configured	No
PNG	Not configured	No
Screen Blanking	Not configured	No
UDP Protocol	Not configured	No
Filter images out of the incoming clipboard data	Not configured	No
Filter images out of the outgoing clipboard data	Not configured	No
Filter Microsoft Chart and Smart Art data out of the incomin...	Not configured	No
Filter Microsoft Chart and Smart Art data out of the outgoi...	Not configured	No
Filter Microsoft Text Effects data out of the incoming clipbo...	Not configured	No
Filter Microsoft Text Effects data out of the outgoing clipboa...	Not configured	No
Filter Microsoft Office text data out of the incoming clipboa...	Not configured	No
Filter Microsoft Office text data out of the outgoing clipboa...	Not configured	No
Filter Rich Text Format data out of the incoming clipboard d...	Not configured	No
Filter Rich Text Format data out of the outgoing clipboard d...	Not configured	No
Filter text out of the incoming clipboard data	Not configured	No
Filter text out of the outgoing clipboard data	Not configured	No
Keyboard locale synchronization	Not configured	No
Configure clipboard audit	Not configured	No
Whether block clipboard redirection to client side when clie...	Not configured	No
Clipboard memory size on server	Not configured	No
Configure clipboard redirection	Not configured	No
Configure file transfer	Not configured	No
HTML Access printing	Not configured	No

50 setting(s)

Extended Standard





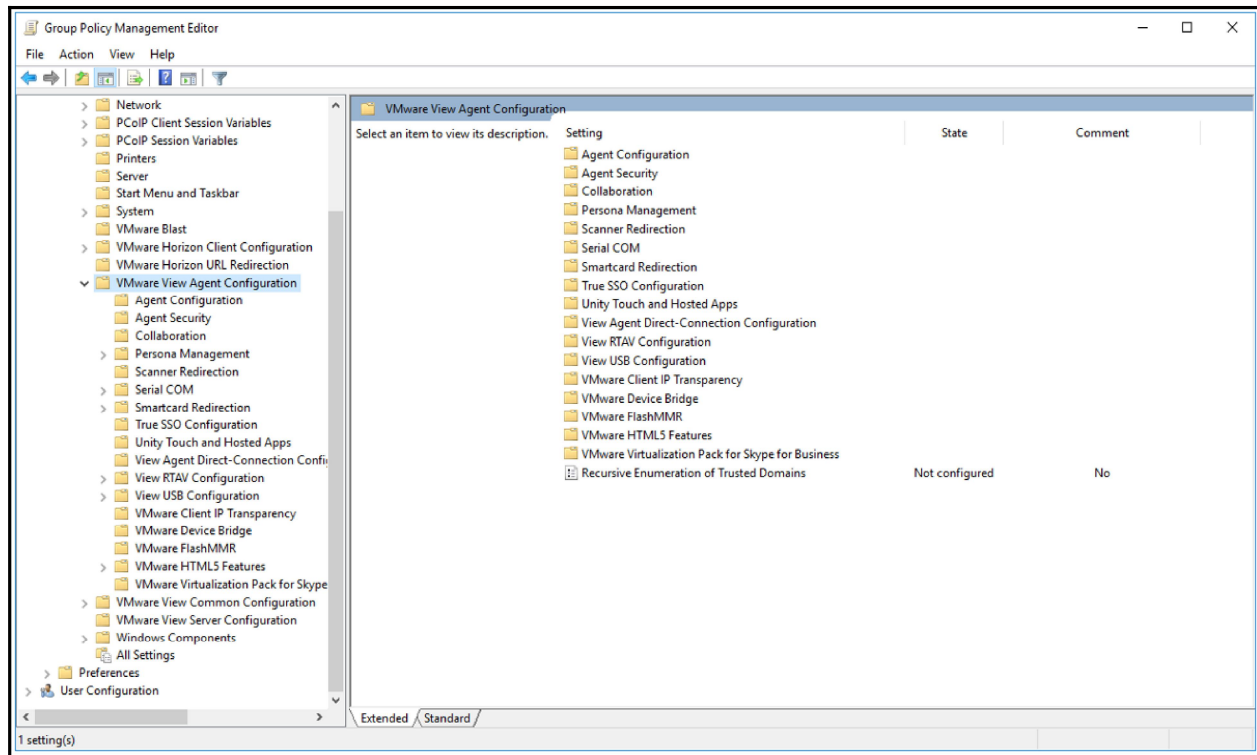
Setting	State	Comment
Disconnected application session resumption behavior	Not configured	No
DesktopLayout	Not configured	No
DesktopName to select	Not configured	No
Logon DomainName	Not configured	No
Locked Guest Size	Not configured	No
Suppress error messages (when fully scripted only)	Not configured	No
Logon Password	Not configured	No
Server URL	Not configured	No
Automatically connect if only one launch item is entitled	Not configured	No
Account to use for Unauthenticated Access	Not configured	No
Enable Unauthenticated Access to the server	Not configured	No
Logon UserName	Not configured	No
Connect USB devices to the desktop or remote application ...	Not configured	No
Connect all USB devices to the desktop or remote applicatio...	Not configured	No
Disable 3rd-party Terminal Services plugins	Not configured	No

Security Settings			
Setting	State	Comment	
Select an item to view its description.			
Allow command line credentials	Not configured	No	
Servers Trusted For Delegation	Not configured	No	
Certificate verification mode	Not configured	No	
Enable jump list integration	Not configured	No	
Unlock remote sessions when the client machine is unlocked	Not configured	No	
Enable Single Sign-On for smart card authentication	Not configured	No	
Enable SSL encrypted framework channel	Not configured	No	
Ignore certificate revocation problems	Not configured	No	
Default value of the 'Log in as current user' checkbox	Not configured	No	
Display option to Log in as current user	Not configured	No	
Configures SSL protocols and cryptographic algorithms	Not configured	No	

View USB Configuration			
Setting	State	Comment	
Select an item to view its description.			
Settings not configurable by Agent			
Allow Audio Input Devices	Not configured	No	
Allow Audio Output Devices	Not configured	No	
Allow Auto Device Splitting	Not configured	No	
Allow other input devices	Not configured	No	
Allow HID-Bootable	Not configured	No	
Allow keyboard and Mouse Devices	Not configured	No	
Allow Smart Cards	Not configured	No	
Allow Video Devices	Not configured	No	
Exclude All Devices	Not configured	No	
Exclude Device Family	Not configured	No	
Exclude Vid/Pid Device	Not configured	No	
Include Device Family	Not configured	No	
Include Vid/Pid Device	Not configured	No	
Exclude Vid/Pid Device from Split	Not configured	No	
Split Vid/Pid Device	Not configured	No	








Settings not configurable by Agent			
Setting	State	Comment	
Select an item to view its description.			
Allow Device Descriptor Failsafe behavior	Not configured	No	
Disable Remote Configuration	Not configured	No	
Exclude Path	Not configured	No	
Include Path	Not configured	No	


VMware Horizon URL Redirection			
Setting	State	Comment	
Select an item to view its description.			
IE policy: Automatically enable URL Redirection plugin	Not configured	No	
IE policy: Prevent users from changing URL Redirection plug...	Not configured	No	
Url Redirection Enabled	Not configured	No	
Url Redirection Protocol '...'	Not configured	No	
Url Redirection Protocol 'http'	Not configured	No	
Url Redirection Protocol 'https'	Not configured	No	








Agent Configuration			
Setting	State	Comment	
AllowDirectRDP	Not configured	No	
AllowSingleSignon	Not configured	No	
CommandsToRunOnConnect	Not configured	No	
CommandsToRunOnDisconnect	Not configured	No	
CommandsToRunOnReconnect	Not configured	No	
ConnectionTicketTimeout	Not configured	No	
CredentialFilterExceptions	Not configured	No	
Disable Time Zone Synchronization	Not configured	No	
DPI Synchronization	Not configured	No	
Enable multi-media acceleration	Not configured	No	
Force MMR to use software overlay	Not configured	No	
Single sign-on retry timeout	Not configured	No	
ShowDiskActivityIcon	Not configured	No	
Toggle Display Settings Control	Not configured	No	
Enable Unauthenticated Access	Not configured	No	





Agent Security			
Setting	State	Comment	
Accept SSL encrypted framework channel	Not configured	No	

 Collaboration				
Select an item to view its description.		Setting	State	Comment
	Allow inviting collaborators by e-mail		Not configured	No
	Allow inviting collaborators by IM		Not configured	No
	Separator used for multiple e-mail addresses in mailto: links		Not configured	No
	Server URLs to include in invitation message		Not configured	No
	Turn off collaboration		Not configured	No
	Maximum number of invited collaborators		Not configured	No

 **Persona Management**

Select an item to view its description.

-  Desktop UI
-  Folder Redirection
-  Logging
-  Roaming & Synchronization
-  Troubleshooting

 Desktop UI				
Select an item to view its description.		Setting	State	Comment
	Hide local offline file icon		Not configured	No
	Show critical errors to users via tray icon alerts		Not configured	No
	Show progress when downloading large files		Not configured	No

Folder Redirection			
Select an item to view its description.	Setting	State	Comment
	Add the administrators group to redirected folders	Not configured	No
	Application Data (Roaming)	Not configured	No
	Contacts	Not configured	No
	Cookies	Not configured	No
	Desktop	Not configured	No
	Downloads	Not configured	No
	Favorites	Not configured	No
	Files and folders excluded from Folder Redirection	Not configured	No
	Files and folders excluded from Folder Redirection (exceptio...	Not configured	No
	History	Not configured	No
	Links	Not configured	No
	My Documents	Not configured	No
	My Music	Not configured	No
	My Pictures	Not configured	No
	My Videos	Not configured	No
	Network Neighborhood	Not configured	No
	Printer Neighborhood	Not configured	No
	Recent Items	Not configured	No
	Saved Games	Not configured	No
	Searches	Not configured	No
	Send To	Not configured	No
	Start Menu	Not configured	No
	Startup Items	Not configured	No
	Templates	Not configured	No
	Temporary Internet Files	Not configured	No

Logging			
Select an item to view its description.	Setting	State	Comment
	Log File Size	Not configured	No
	Log History Depth	Not configured	No
	Logging destination	Not configured	No
	Logging filename	Not configured	No
	Logging flags	Not configured	No
	Upload log to network	Not configured	No
	Debug flags	Not configured	No
	Logging flags	Not configured	No

Roaming & Synchronization			
Select an item to view its description.	Setting	State	Comment
	Enforces wallpaper setting from GPO	Not configured	No
	Cleanup CLFS Files	Not configured	No
	Enable background download for laptops	Not configured	No
	Excluded Processes	Not configured	No
	Files and folders excluded from roaming	Not configured	No
	Files and folders excluded from roaming (exceptions)	Not configured	No
	Files and folders to preload	Not configured	No
	Files and folders to preload (exceptions)	Not configured	No
	Folders to background download	Not configured	No
	Folders to background download (exceptions)	Not configured	No
	Manage user persona	Not configured	No
	Persona repository location	Not configured	No
	Remove local persona at log off	Not configured	No
	Roam local settings folders	Not configured	No
	Windows roaming profiles synchronization	Not configured	No
	Windows roaming profiles synchronization (exceptions)	Not configured	No

Troubleshooting			
Select an item to view its description.	Setting	State	Comment
	Create retry delay	Not configured	No
	Disable create file retry	Not configured	No
	Disable desktop refresh	Not configured	No
	Disable user environment errors at logon	Not configured	No
	Repository file download timeout	Not configured	No
	Driver Disable Flags	Not configured	No
	File creation delay	Not configured	No
	Profile reconcile delay	Not configured	No
	Remove temporary files at logoff	Not configured	No
	Repository connection monitor	Not configured	No
	Synchronize profile at logon	Not configured	No

Scanner Redirection			
Select an item to view its description.	Setting	State	Comment
	Default Color Mode	Not configured	No
	Default Duplex	Not configured	No
	Default Scanner	Not configured	No
	Disable functionality	Not configured	No
	Hide Webcam	Not configured	No
	Lock Config	Not configured	No

Serial COM			
Setting	State	Comment	
PortSettings			
Bandwidth limit	Not configured	No	
Disable functionality	Not configured	No	
Local settings priority	Not configured	No	
Lock configuration	Not configured	No	

PortSettings			
Setting	State	Comment	
PortSettings1	Not configured	No	
PortSettings2	Not configured	No	
PortSettings3	Not configured	No	
PortSettings4	Not configured	No	
PortSettings5	Not configured	No	

**Smartcard Redirection**

Select an item to view its description. **Setting**

**Local Reader Access**

Local Reader Access			
Setting	State	Comment	
Allow applications access to Local Smart Card readers	Not configured	No	
Local Reader Name	Not configured	No	
Require an inserted Smart Card	Not configured	No	

True SSO Configuration			
Setting	State	Comment	
All key sizes	Not configured	No	
Minimum validity period required for a certificate	Not configured	No	
Certificate wait timeout	Not configured	No	
Disable True SSO	Not configured	No	
Number of keys to pre-create	Not configured	No	
Minimum key size	Not configured	No	

Unity Touch and Hosted Apps			
Setting	State	Comment	
Send updates for empty or offscreen windows	Not configured	No	
Enable Unity Touch	Not configured	No	
Enable system tray redirection for Hosted Apps	Not configured	No	
Enable user profile customization for Hosted Apps	Not configured	No	
Only launch new instances of Hosted Apps if arguments are...	Not configured	No	
Limit usage of Windows hooks	Not configured	No	

View Agent Direct-Connection Configuration			
Select an item to view its description.	Setting	State	Comment
	Applications Enabled	Not configured	No
	Client Config Name Value Pairs	Not configured	No
	Client Credential Cache Timeout	Not configured	No
	Client Session Timeout	Not configured	No
	Client setting: AlwaysConnect	Not configured	No
	Client setting: AutoConnect	Not configured	No
	Client setting: ScreenSize	Not configured	No
	Default Protocol	Not configured	No
	Disclaimer Enabled	Not configured	No
	Disclaimer Text	Not configured	No
	External Blast Port	Not configured	No
	External Framework Channel Port	Not configured	No
	External IP Address	Not configured	No
	External PCoIP Port	Not configured	No
	External RDP Port	Not configured	No
	HTTPS Port Number	Not configured	No
	Multimedia redirection (MMR) Enabled	Not configured	No
	Reset Enabled	Not configured	No
	Session Timeout	Not configured	No
	USB AutoConnect	Not configured	No
	USB Enabled	Not configured	No
	User Idle Timeout	Not configured	No
	X509 Certificate Authentication	Not configured	No
	X509 SSL Certificate Authentication Enabled	Not configured	No

View RTAV Configuration			
Select an item to view its description.	Setting	State	Comment
	View RTAV Webcam Settings		
	Disable RTAV	Not configured	No

View RTAV Webcam Settings			
Select an item to view its description.	Setting	State	Comment
	Resolution - Default image resolution height in pixels	Not configured	No
	Resolution - Default image resolution width in pixels	Not configured	No
	Max frames per second	Not configured	No
	Resolution - Max image height in pixels	Not configured	No
	Resolution - Max image width in pixels	Not configured	No

View USB Configuration			
Select an item to view its description.	Setting	State	Comment
	Client Downloadable only Settings		
	Exclude Vid/Pid Device	Not configured	No
	Exclude All Devices	Not configured	No
	Exclude Device Family	Not configured	No
	Include Vid/Pid Device	Not configured	No
	Include Device Family	Not configured	No



Client Downloadable only Settings			
Select an item to view its description.	Setting	State	Comment
	Allow Audio Input Devices	Not configured	No
	Allow Audio Output Devices	Not configured	No
	Allow Auto Device Splitting	Not configured	No
	Allow HID-Bootable	Not configured	No
	Allow Smart Cards	Not configured	No
	Allow Video Devices	Not configured	No
	Allow keyboard and Mouse Devices	Not configured	No
	Allow other input devices	Not configured	No
	Exclude Vid/Pid Device from Split	Not configured	No
	Split Vid/Pid Device	Not configured	No

VMware Client IP Transparency			
Select an item to view its description.	Setting	State	Comment
	Default proxy server	Not configured	No
	Enable	Not configured	No
	Default auto detect proxy	Not configured	No
	Set proxy for Java applet	Not configured	No

VMware Device Bridge			
Select an item to view its description.	Setting	State	Comment
	Disable Device Bridge BAS Plugin	Not configured	No

VMware FlashMMR			
Select an item to view its description.	Setting	State	Comment
	Enable flash multi-media redirection	Not configured	No
	Minimum rect size to enable FlashMMR	Not configured	No

VMware HTML5 Features			
Select an item to view its description.	Setting	State	Comment
	VMware Geolocation Redirection		
	VMware HTML5 Multimedia Redirection		
	Enable VMware HTML5 Features	Not configured	No
	Disable Automatically Detect Intranet	Not configured	No

VMware Geolocation Redirection			
Select an item to view its description.	Setting	State	Comment
	Enable VMware Geolocation Redirection	Not configured	No
	Enable URL list for VMware Geolocation Redirection.	Not configured	No

VMware HTML5 Multimedia Redirection			
Select an item to view its description.	Setting	State	Comment
	Enable VMware HTML5 Multimedia Redirection	Not configured	No
	Enable URL list for VMware HTML5 Multimedia Redirection.	Not configured	No
	Enable Chrome Browser for VMware HTML5 Multimedia Re...	Not configured	No
	Enable Edge Browser for VMware HTML5 Multimedia Redire...	Not configured	No

VMware Virtualization Pack for Skype for Business			
Select an item to view its description.	Setting	State	Comment
	EnableDetectProxySettings	Not configured	No
	Force Skype for Business in non-optimized mode	Not configured	No
	Show Icon	Not configured	No
	Show Messages	Not configured	No
	Suppress Minor Version Mismatch Warning	Not configured	No

VMware View Common Configuration			
Select an item to view its description.	Setting	State	Comment
	Log Configuration		
	Performance Alarms		
	Security Configuration		
	Enable extended logging	Not configured	No
	Disk threshold for log and events in Megabytes	Not configured	No
	Override the default View Windows event generation	Not configured	No

Log Configuration			
Select an item to view its description.	Setting	State	Comment
	Log directory	Not configured	No
	Maximum number of debug logs	Not configured	No
	Maximum debug log size in Megabytes	Not configured	No
	Number of days to keep production logs	Not configured	No
	Send logs to a Syslog server	Not configured	No

Performance Alarms			
Select an item to view its description.	Setting	State	Comment
	CPU and Memory Sampling Interval in Seconds	Not configured	No
	Overall CPU usage percentage to issue log info	Not configured	No
	Overall memory usage percentage to issue log info	Not configured	No
	Process CPU usage percentage to issue log info	Not configured	No
	Process memory usage percentage to issue log info	Not configured	No
	Processes to check, comma separated name list allowing wil...	Not configured	No

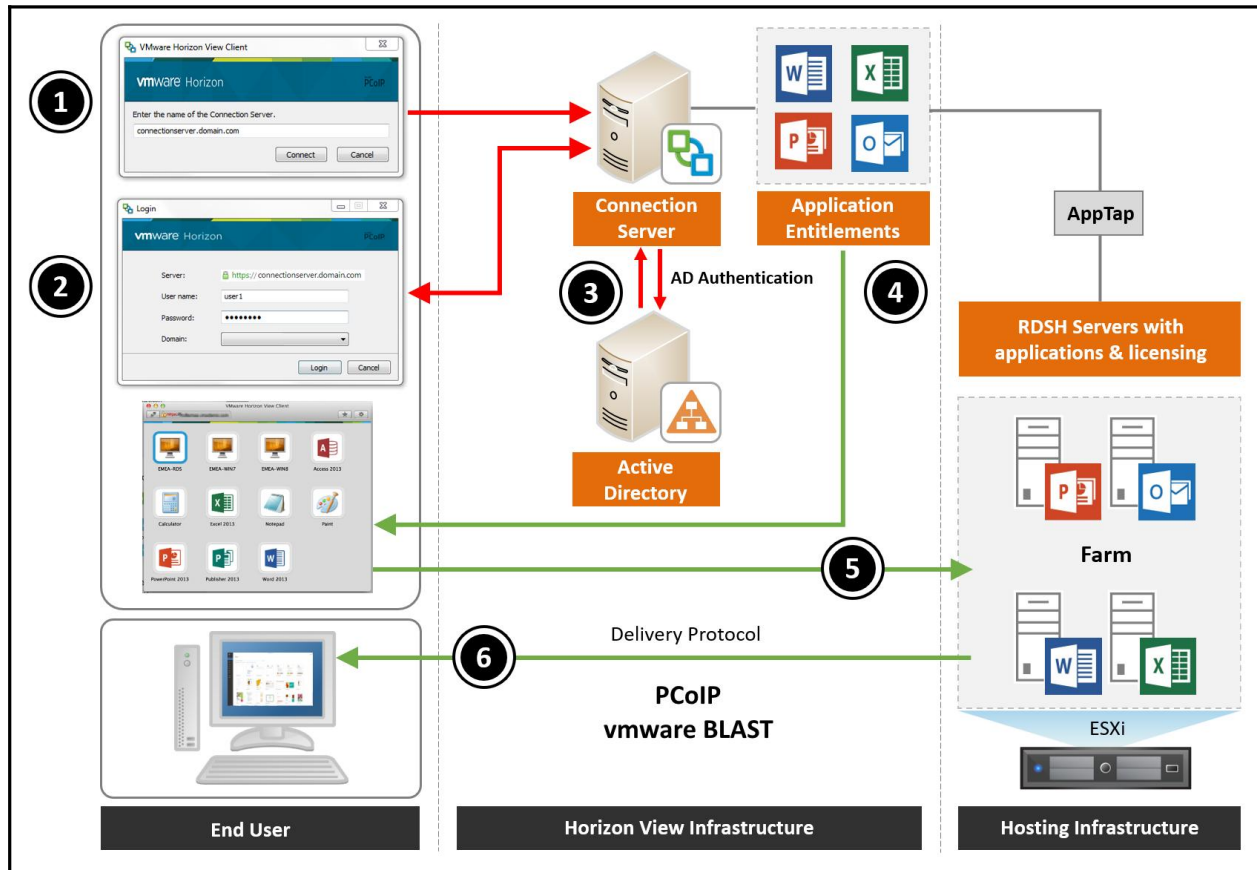
Security Configuration			
Select an item to view its description.	Setting	State	Comment
	Only use cached revocation URLs	Not configured	No
	Revocation URL check timeout milliseconds	Not configured	No
	Type of certificate revocation check	Not configured	No

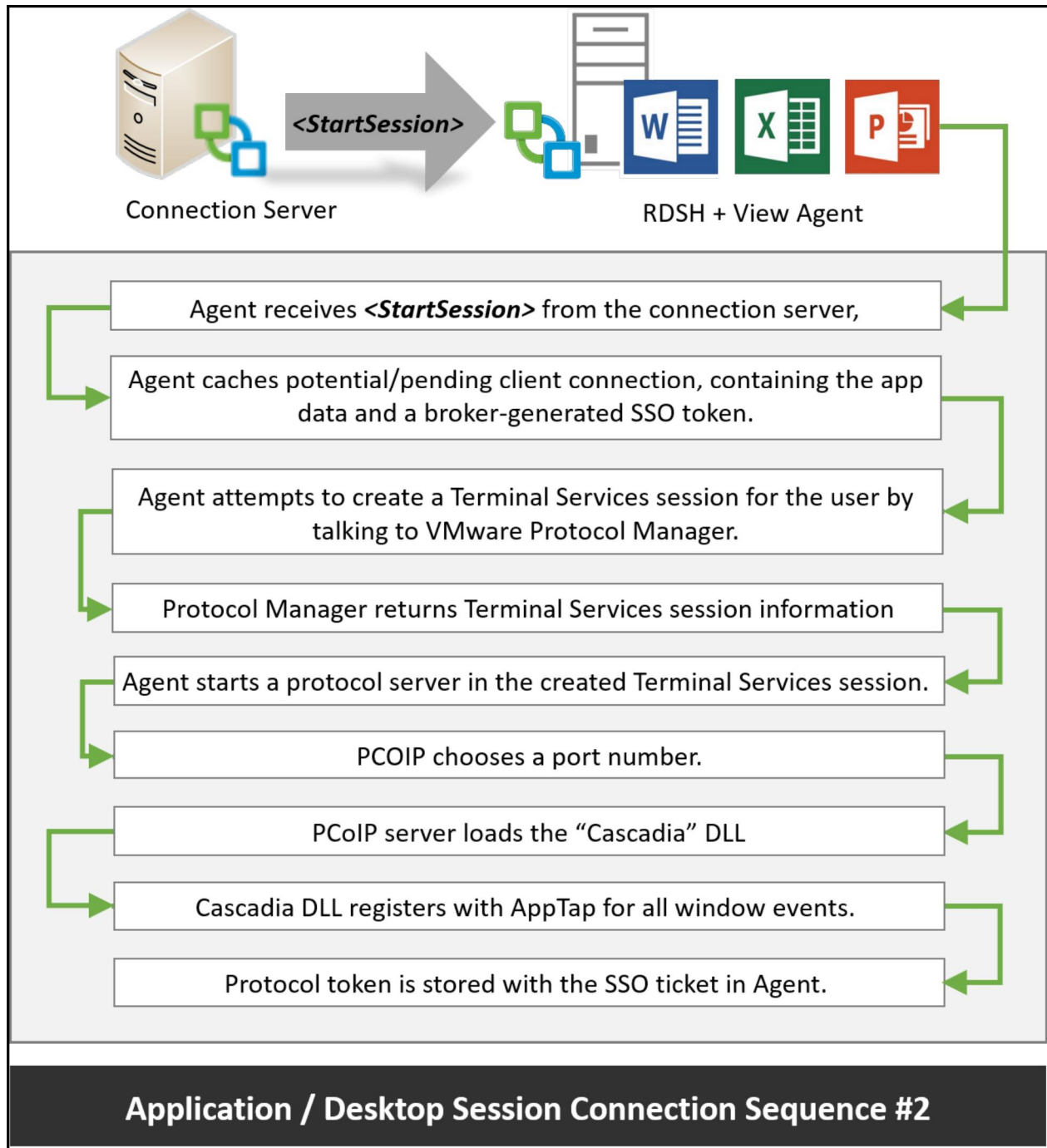
VMware View Server Configuration			
Select an item to view its description.	Setting	State	Comment
	Enumerate Forest Trust Child Domains	Not configured	No
	Recursive Enumeration of Trusted Domains	Not configured	No
	Windows Password Authentication Mode	Not configured	No

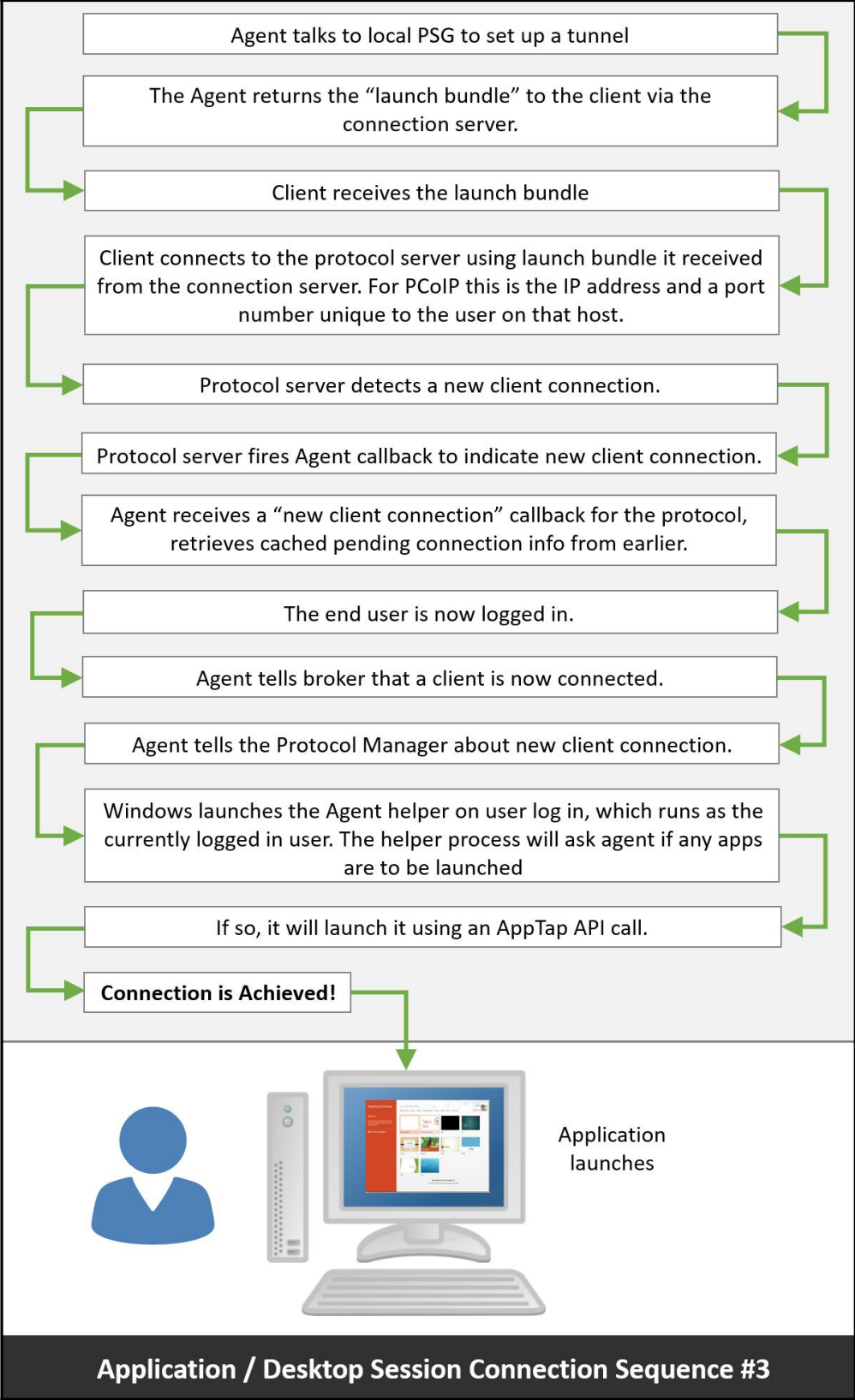
The screenshot displays the PCoIP Profile Editor window. The 'View Default' profile is selected. The interface includes a 'Tuning Parameters' section with sliders for Max. Session B/W Limit (90,000 Kbps), Session B/W Floor (0 Kbps), and Max. Audio B/W (500 Kbps). It also features three vertical sliders for Maximum Initial Image Quality (90), Minimum Image Quality (50), and Maximum FPS (30). A 'Build-to-Lossless Enabled' checkbox is checked. A context menu is open, showing options like 'View Default', 'View for WAN', 'View Task Worker', 'Activate Profile', 'Manage Profiles', 'Clear Profile Settings', 'Show Session Stats', 'Show Session Health', and 'Exit'. Below the editor, a statistics box shows session duration (00d:00h:56m:51s), total bandwidth (0.48/6,793.94 Kbps), packet loss (0.00%/6.41%), network latency (61.00/61.00 ms), and PCoIP CPU utilization (0.00%/1.93%). A health score of 3.80 / 4.00 is displayed with green progress bars for Loss, Latency, Variance, and Bandwidth.



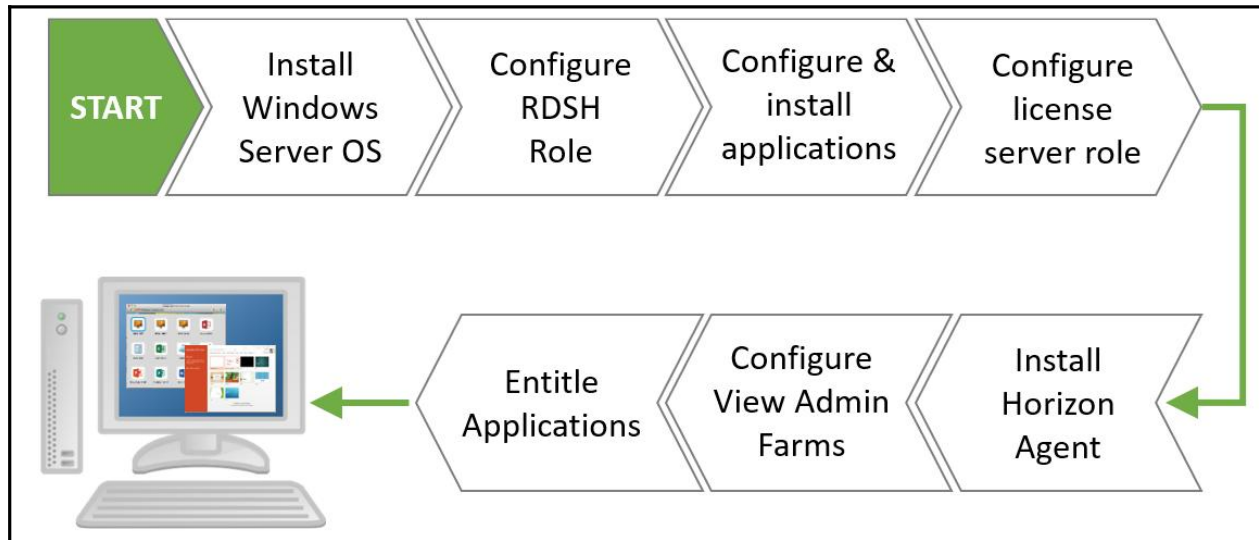
# Chapter 11: Delivering Published Apps with Horizon 7



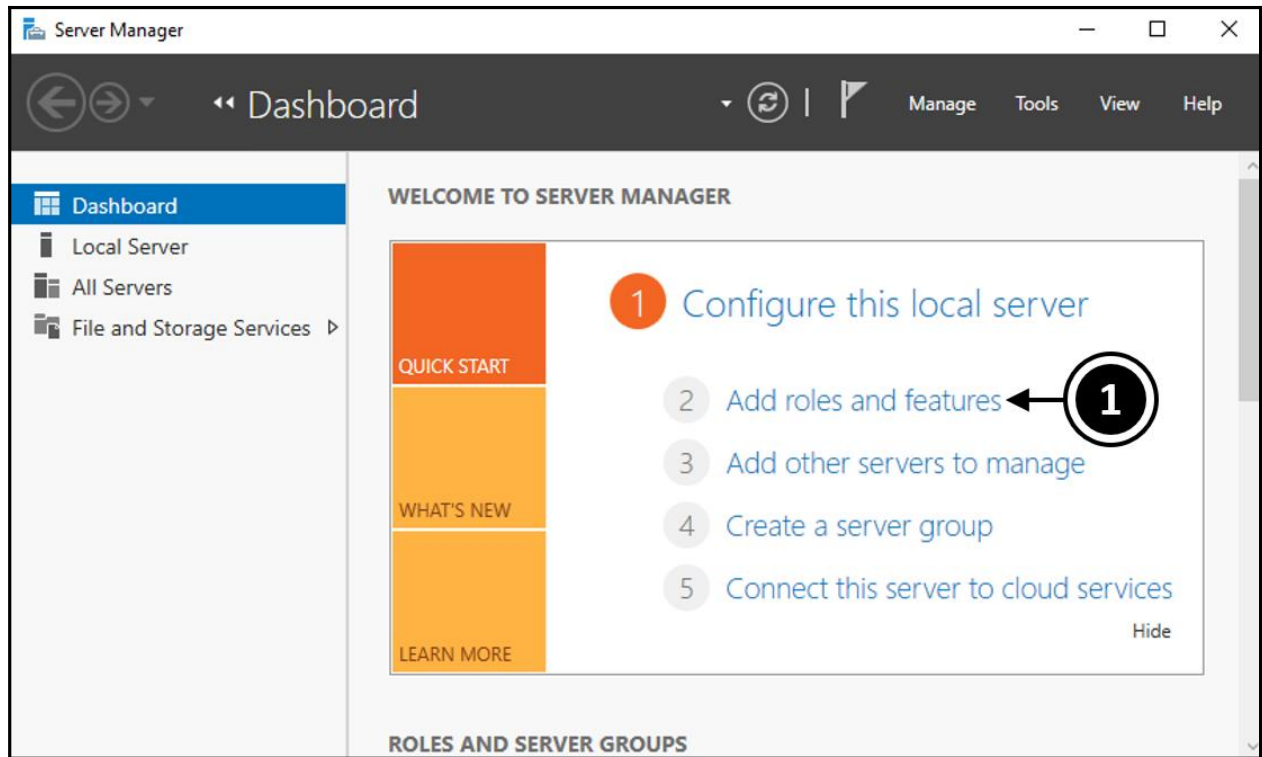


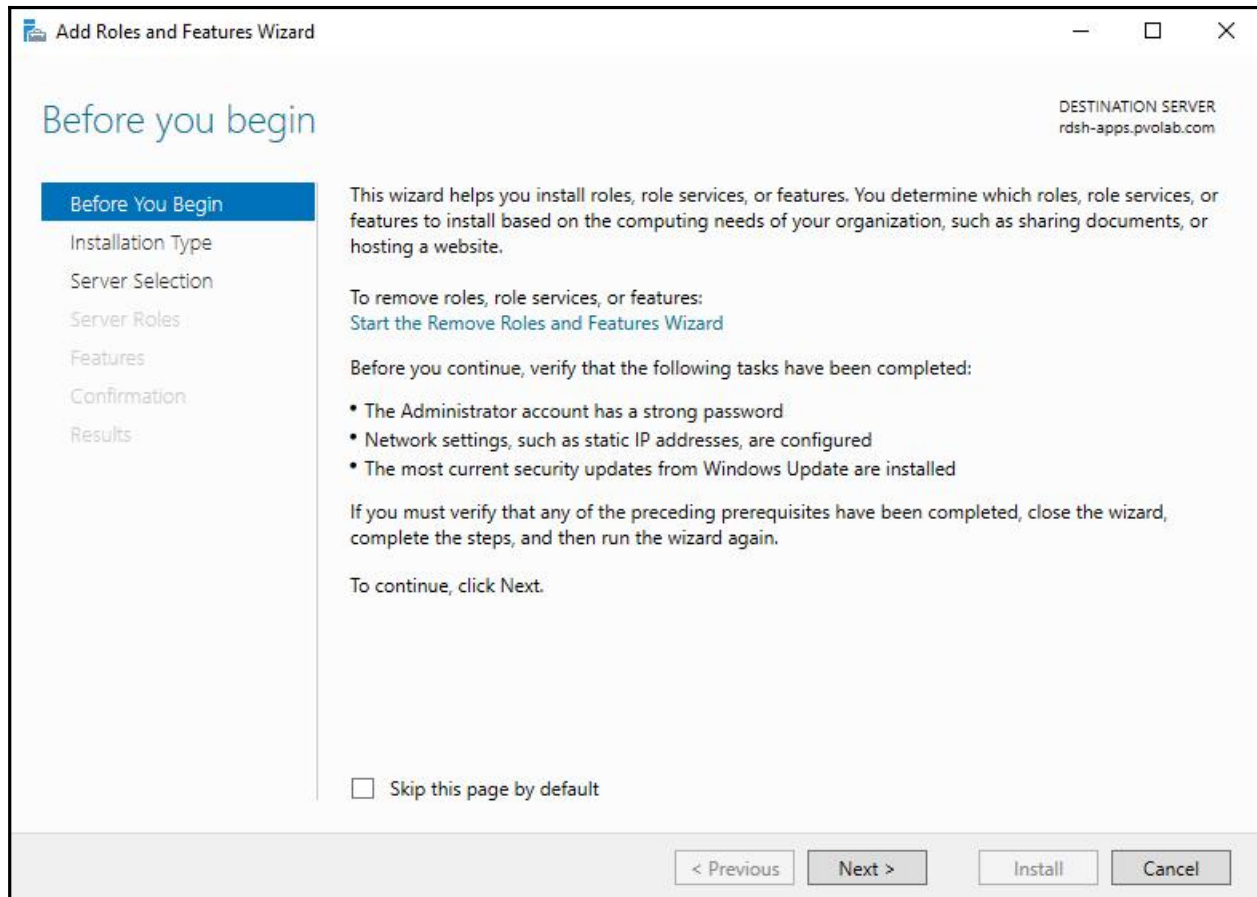


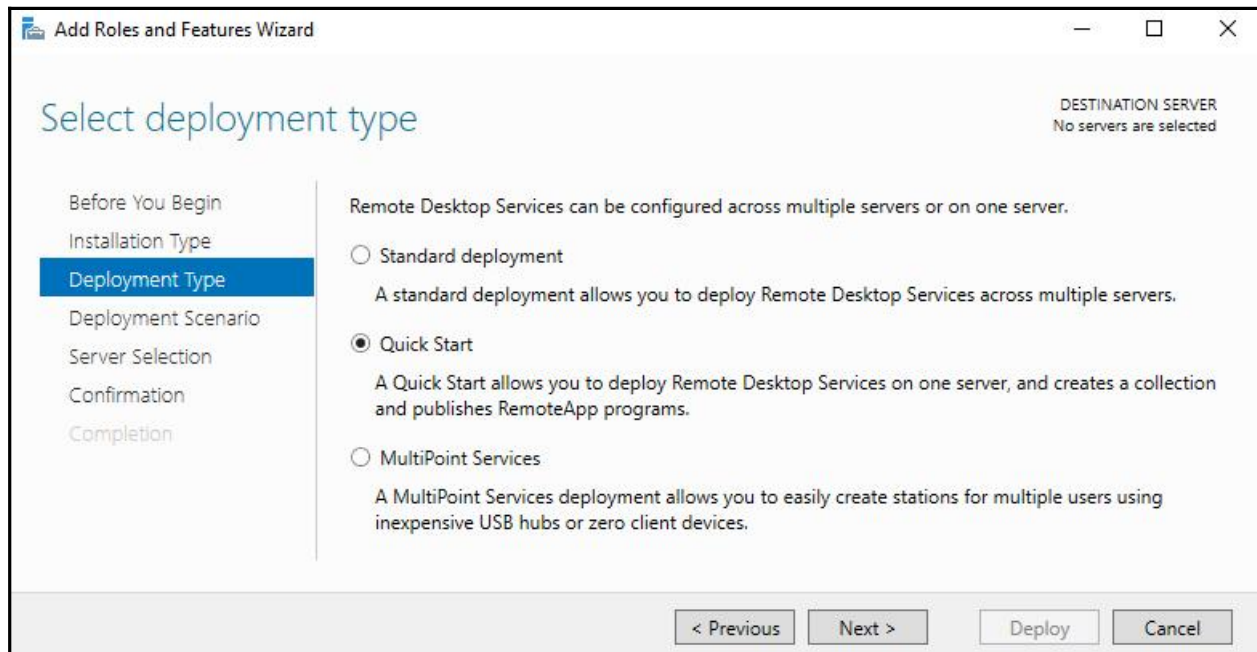
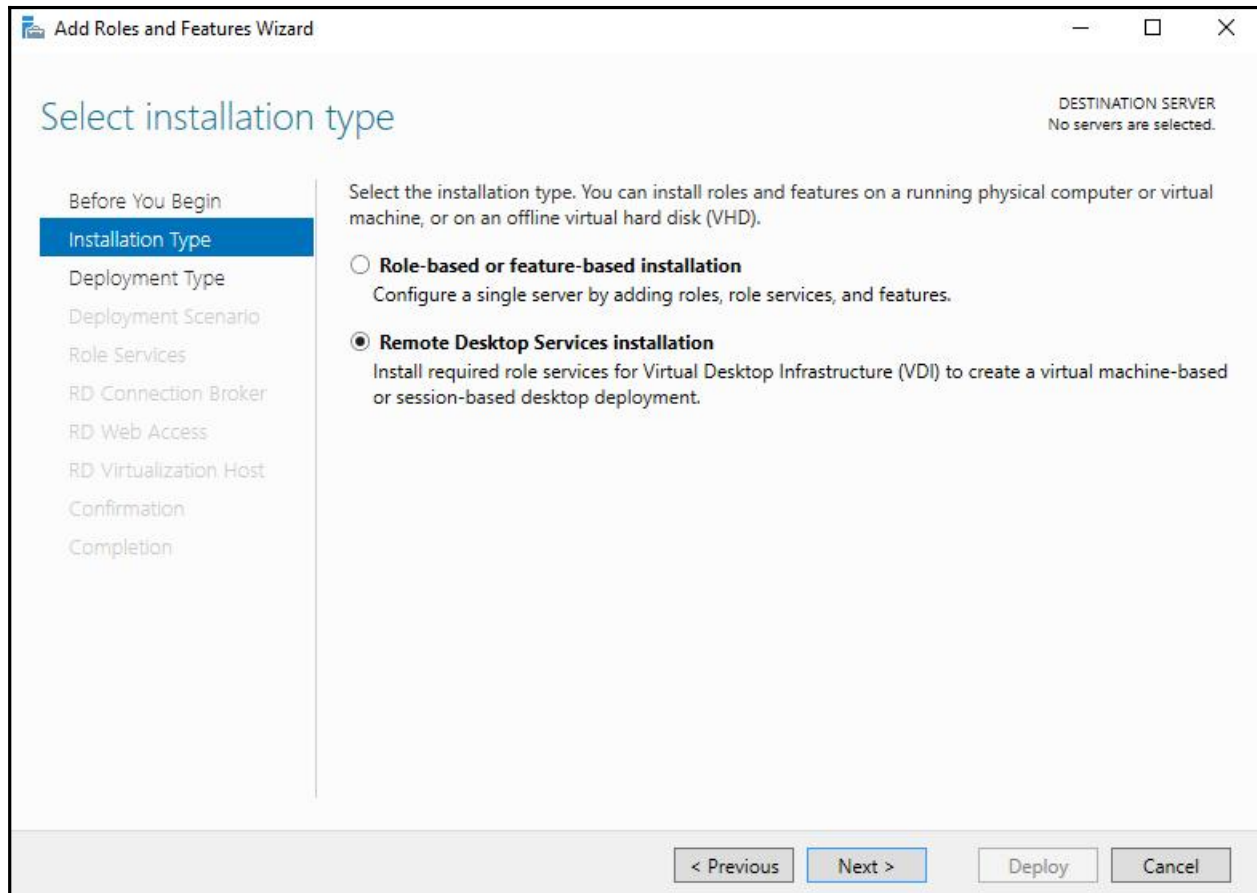
	Memory	Use Case
User Workload Requirements	512 MB	Basic application user such as Microsoft Office applications and some web browsing
	768 MB	Running multiple Microsoft Office applications and light user of multi-media, and more intensive web browsing
	1 GB	Advanced application user running 3D-based applications and multi-media, and heavy web-browsing

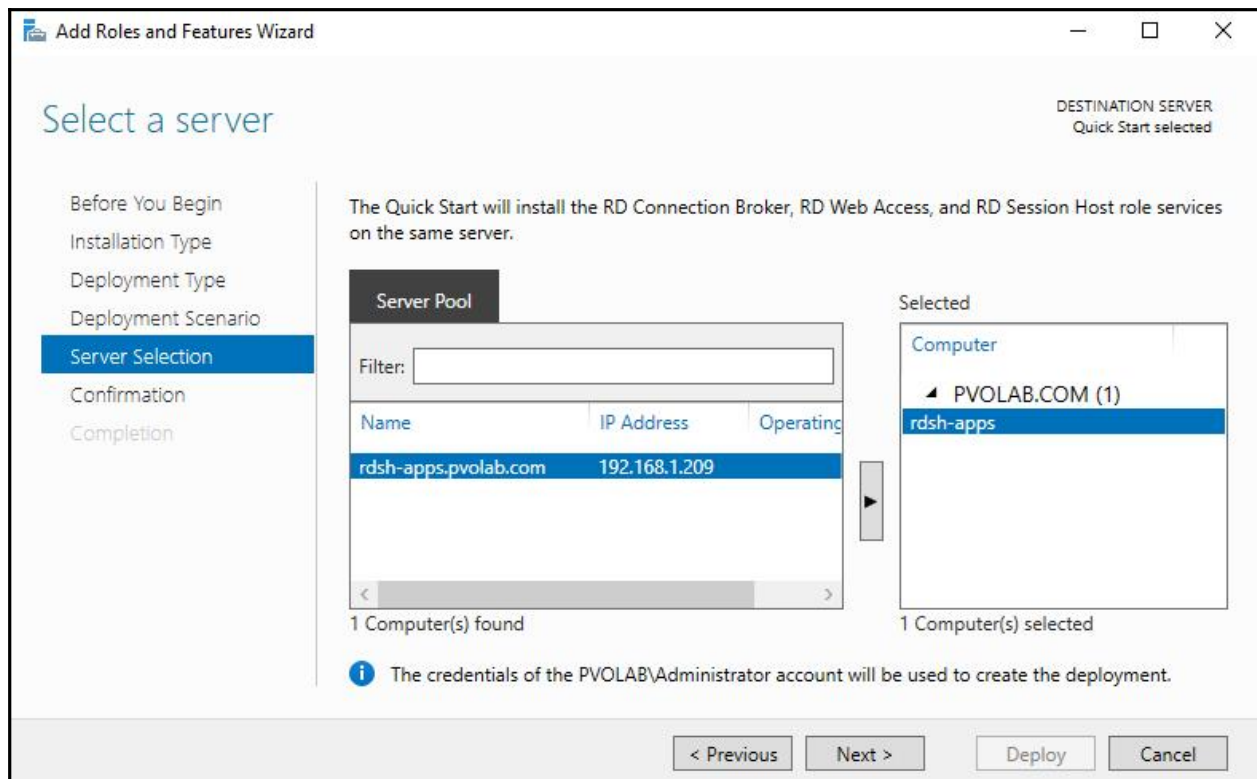
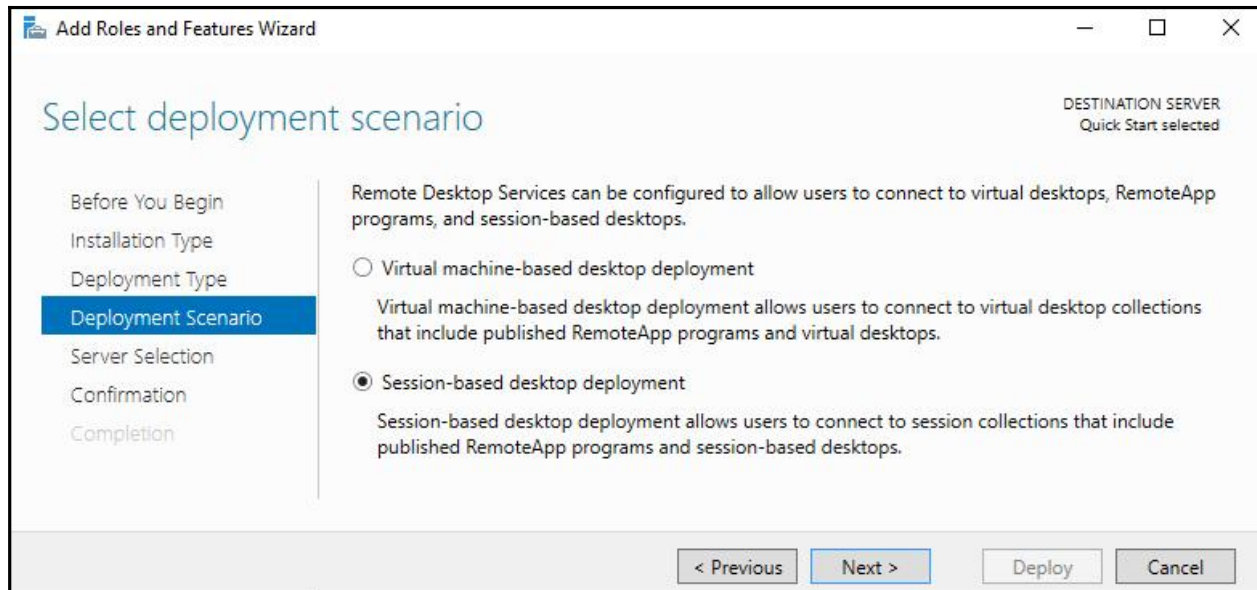


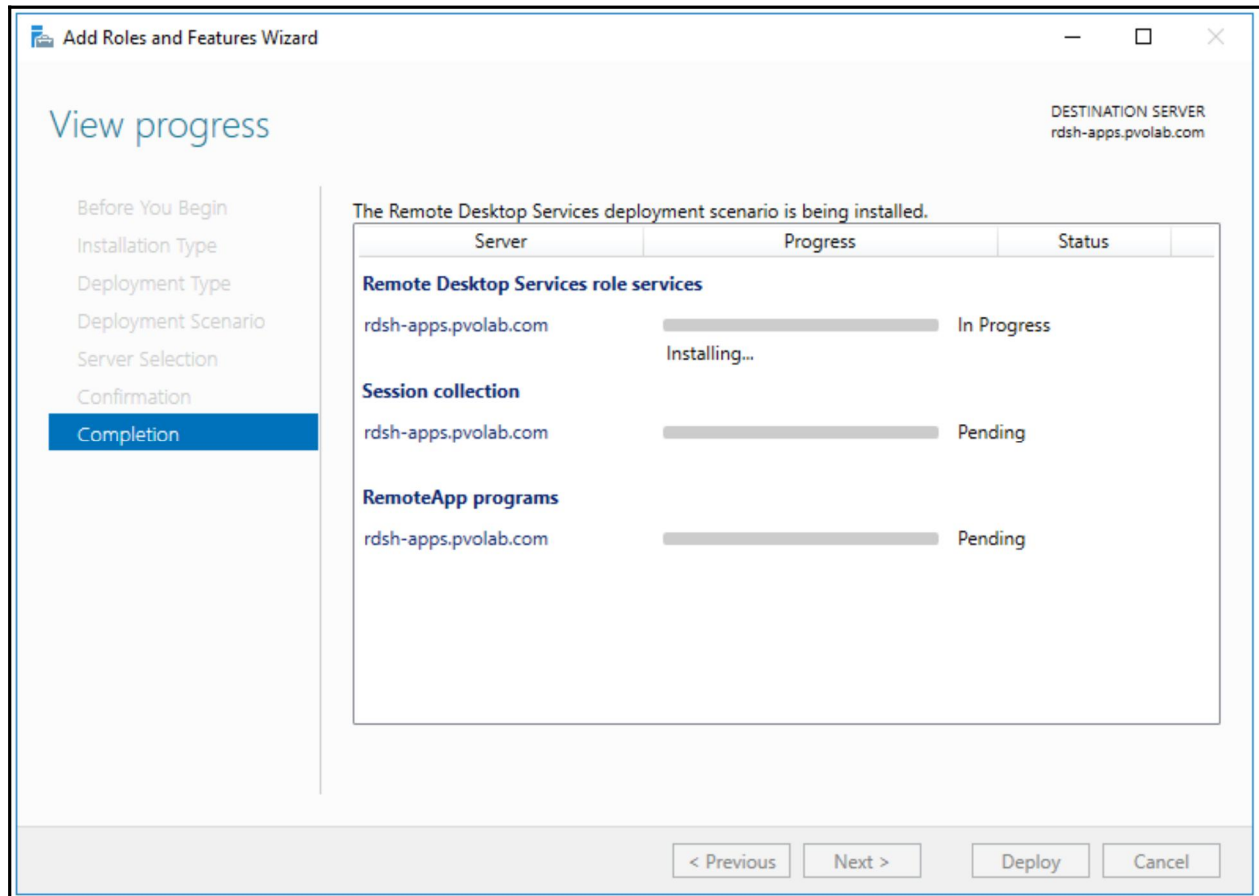
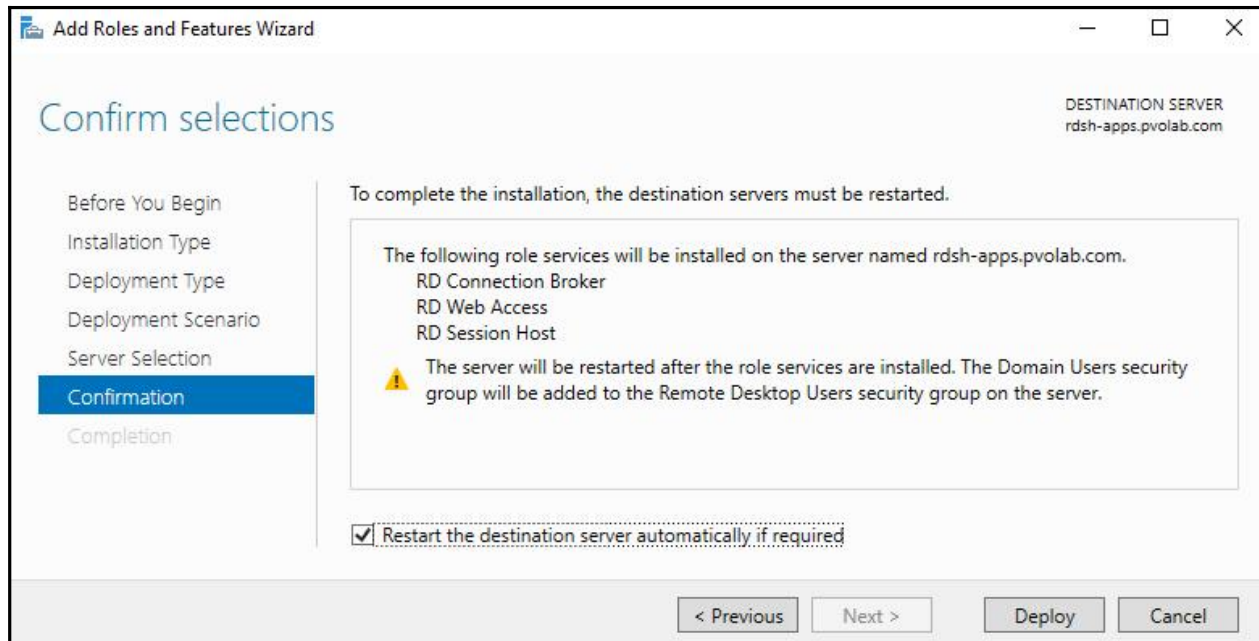


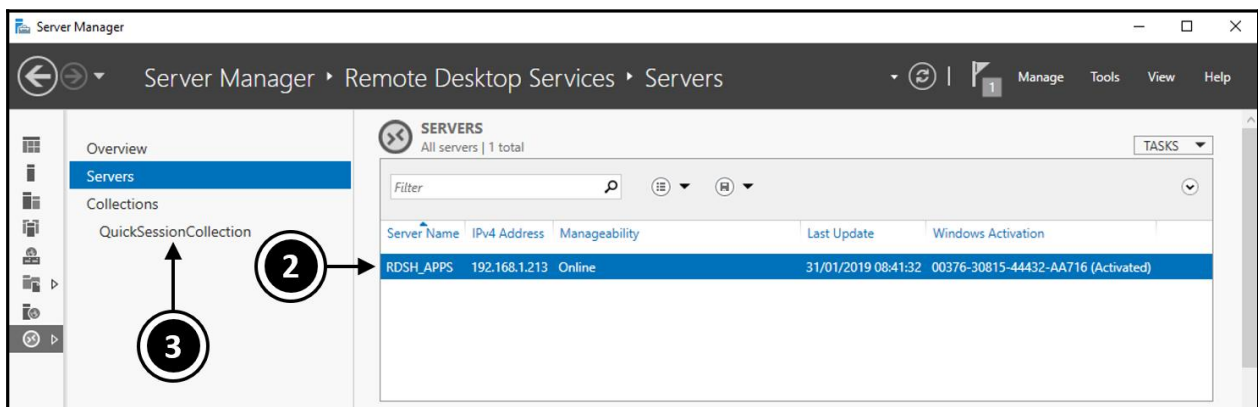
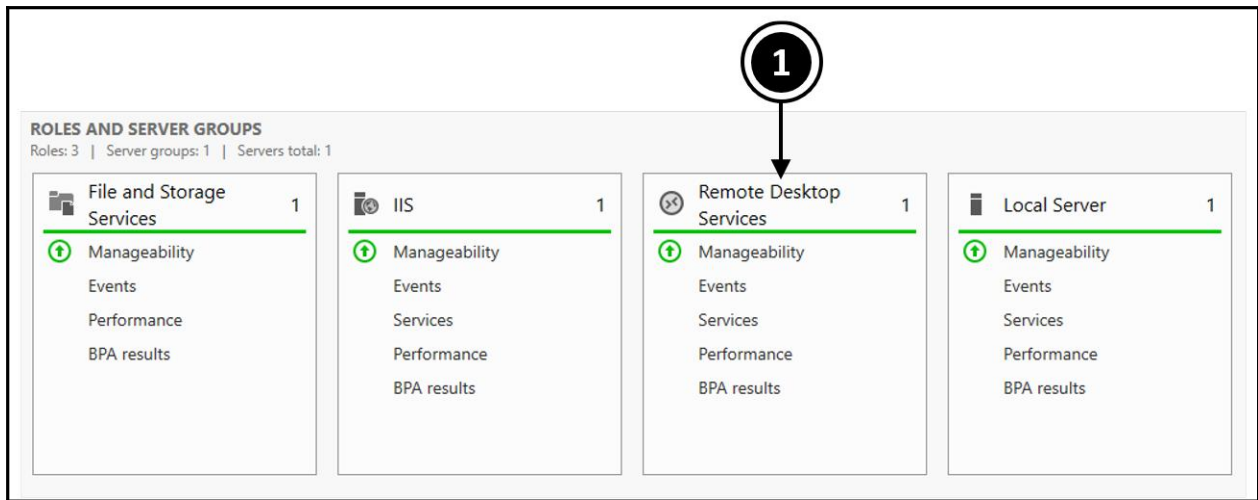
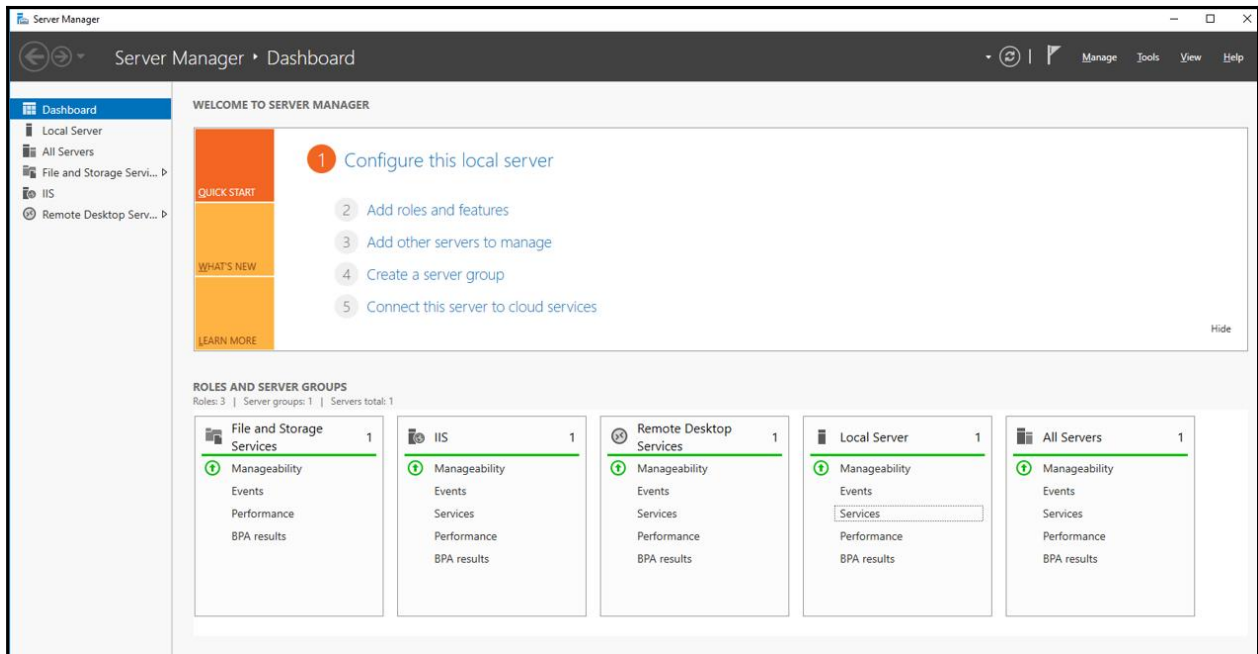












Server Manager

Server Manager > Remote Desktop Services > Collections > QuickSessionCollection

Overview  
Servers  
Collections  
QuickSessionCollection

**PROPERTIES**  
Properties of the collection

Collection Type	Session
Resources	RemoteApp Programs
User Group	PVOLAB\Domain Users

**REMOTEAPP PROGRAMS**  
Last refreshed on 31/01/2019 08:33:01 | Published RemoteApp programs | 3 total

RemoteApp Program Name	Alias	Visible in RD Web Access
Calculator	Calculator	Yes
Paint	Paint	Yes
WordPad	WordPad	Yes

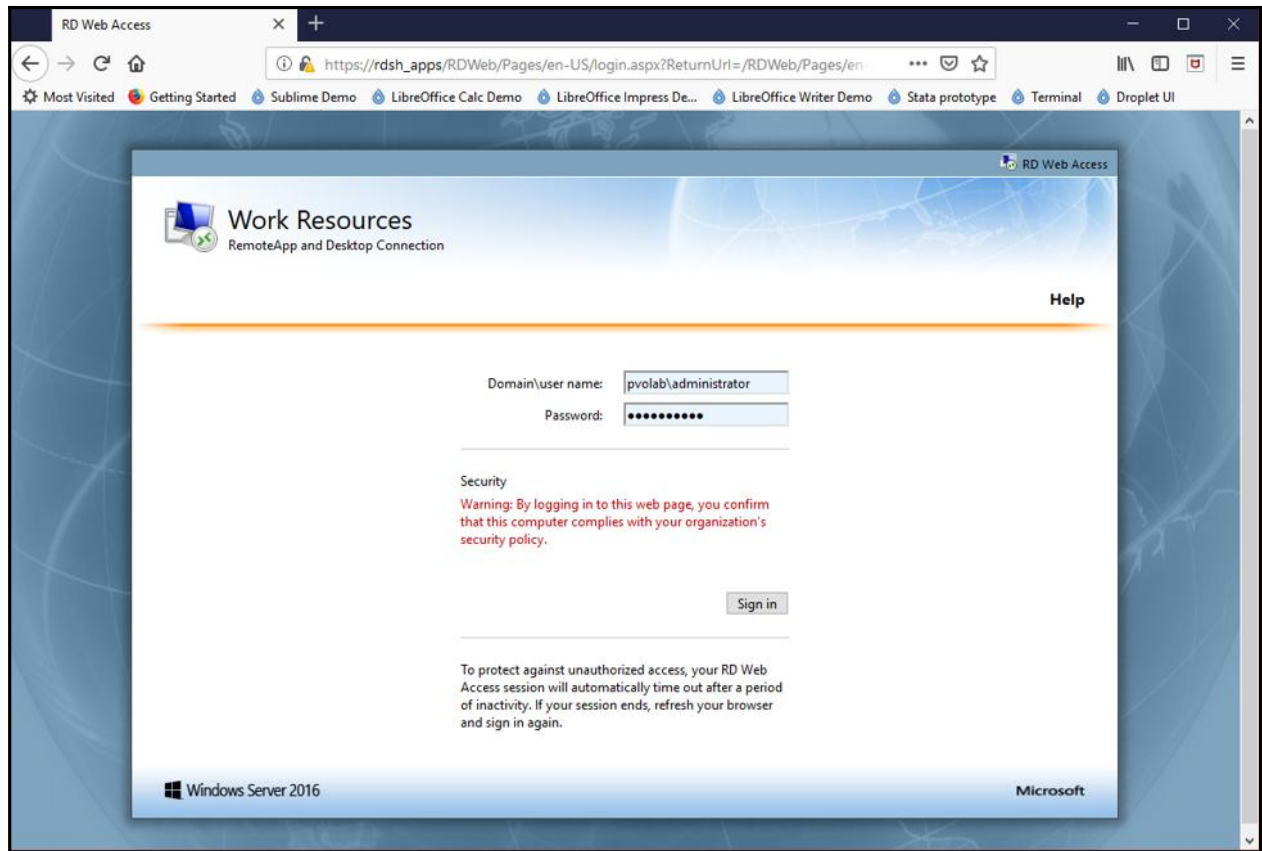
**HOST SERVERS**  
Last refreshed on 31/01/2019 08:33:01 | All servers | 1 total

Server Name	Type	Virtual Desktops	Allow New Connections
RDSH_APPS	RD Session Host	N/A	True

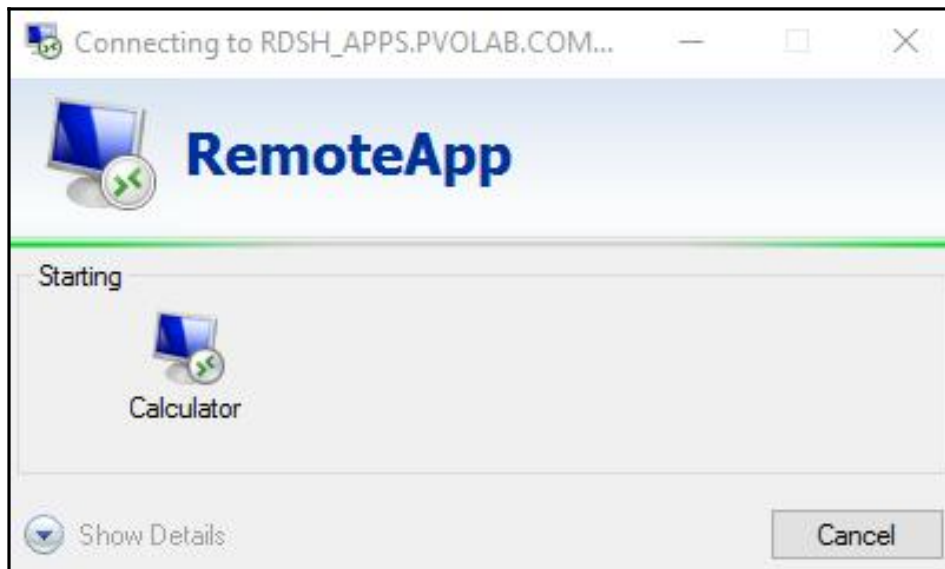
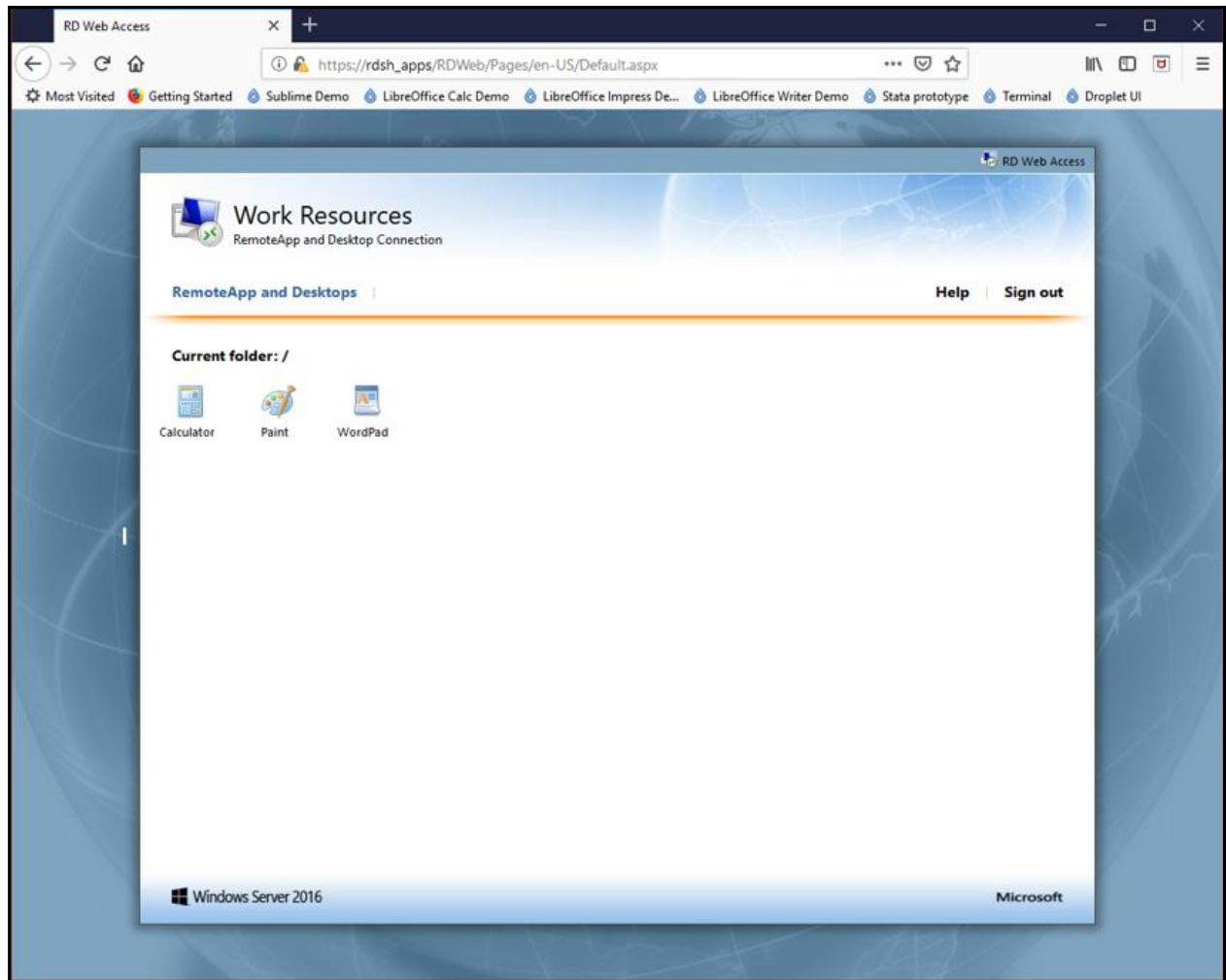
**CONNECTIONS**  
Last refreshed on 31/01/2019 08:33:01 | All connections | 1 total

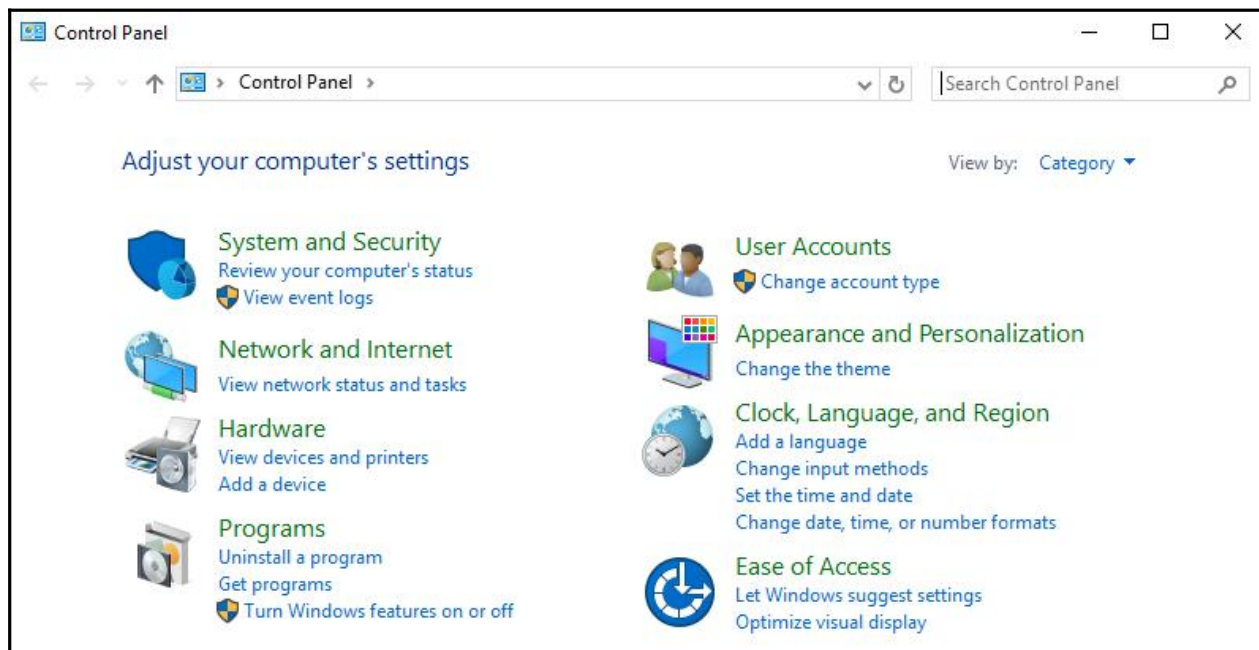
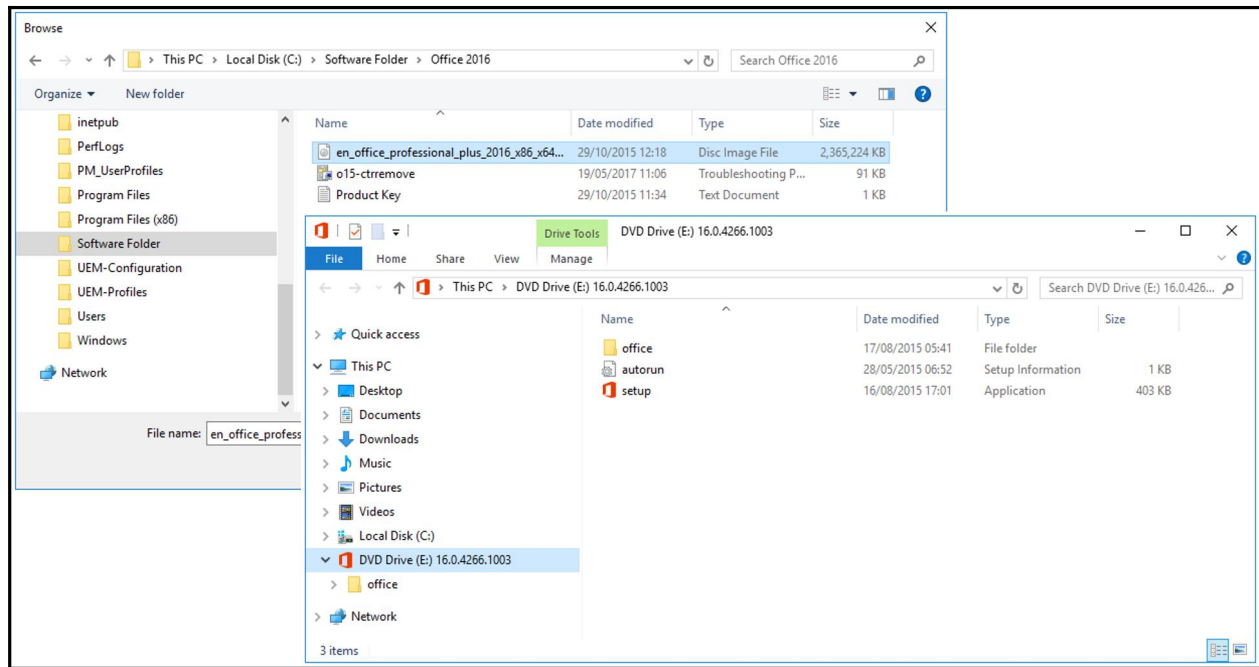
Server FQDN	User	Session State	Log On Time	Disconnect Time
RDSH_Apps.pvolab.com	PVOLAB\Administrator	Active	31/01/2019 08:30:57	-

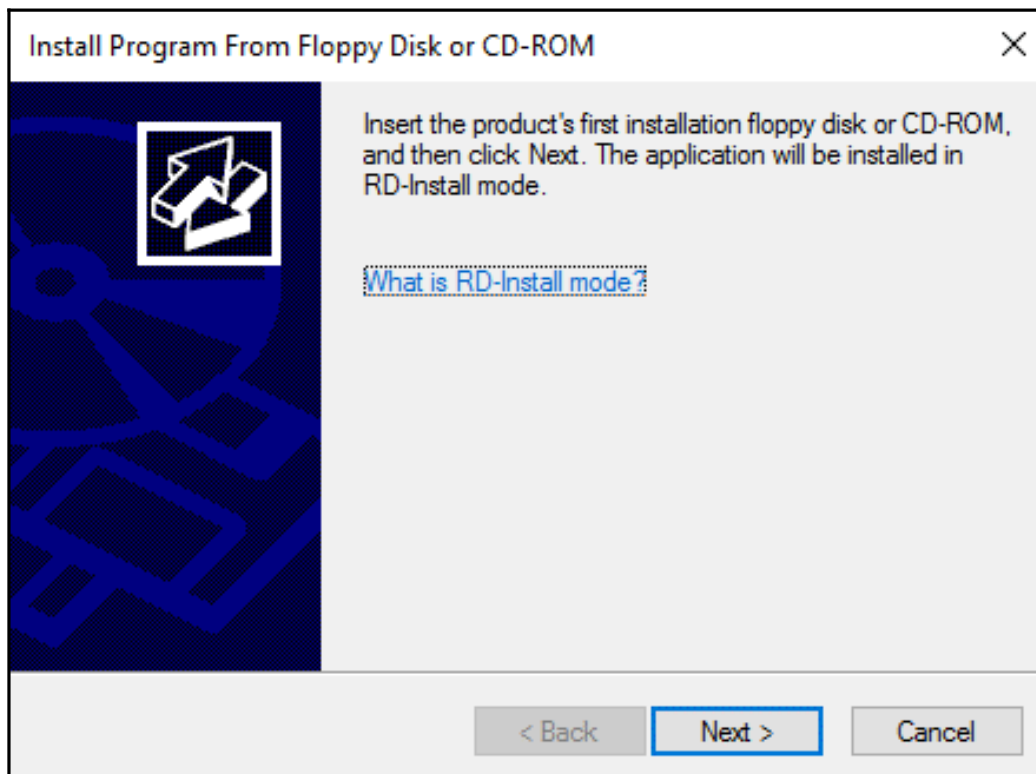
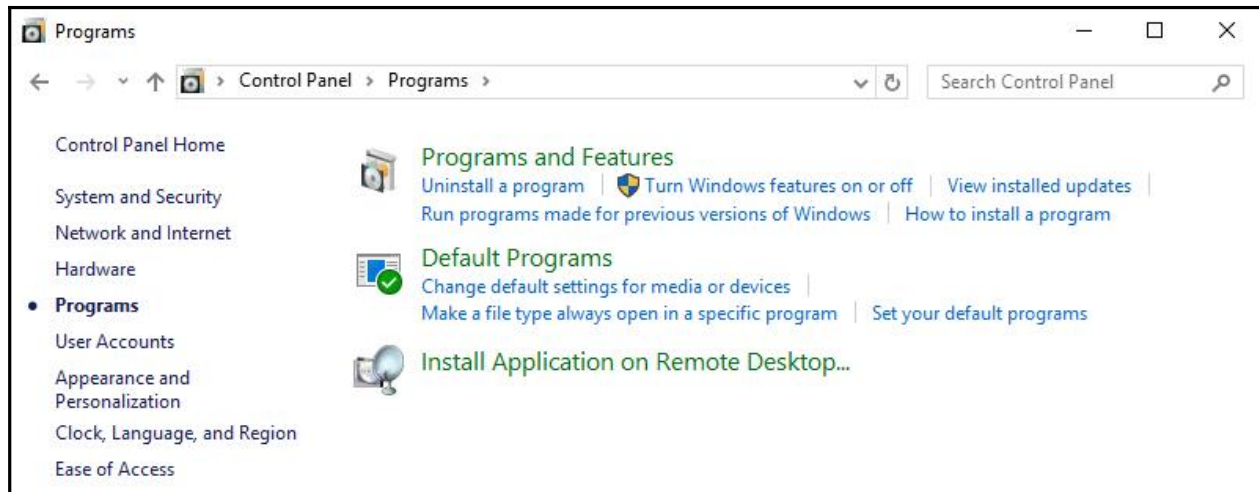
4

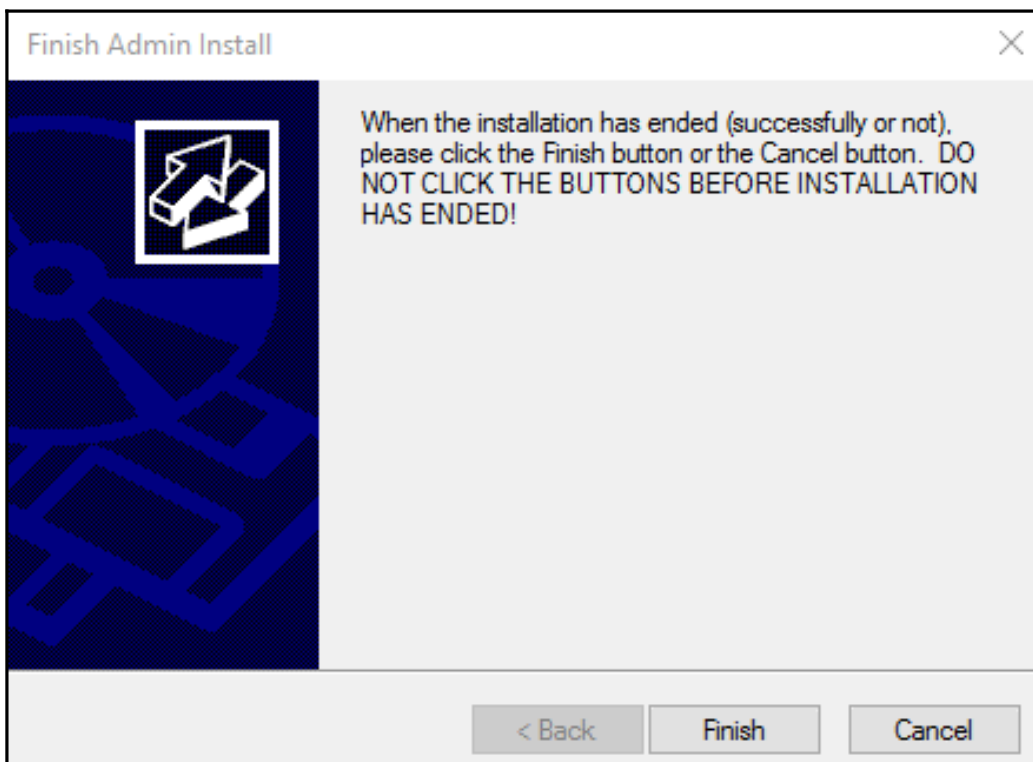
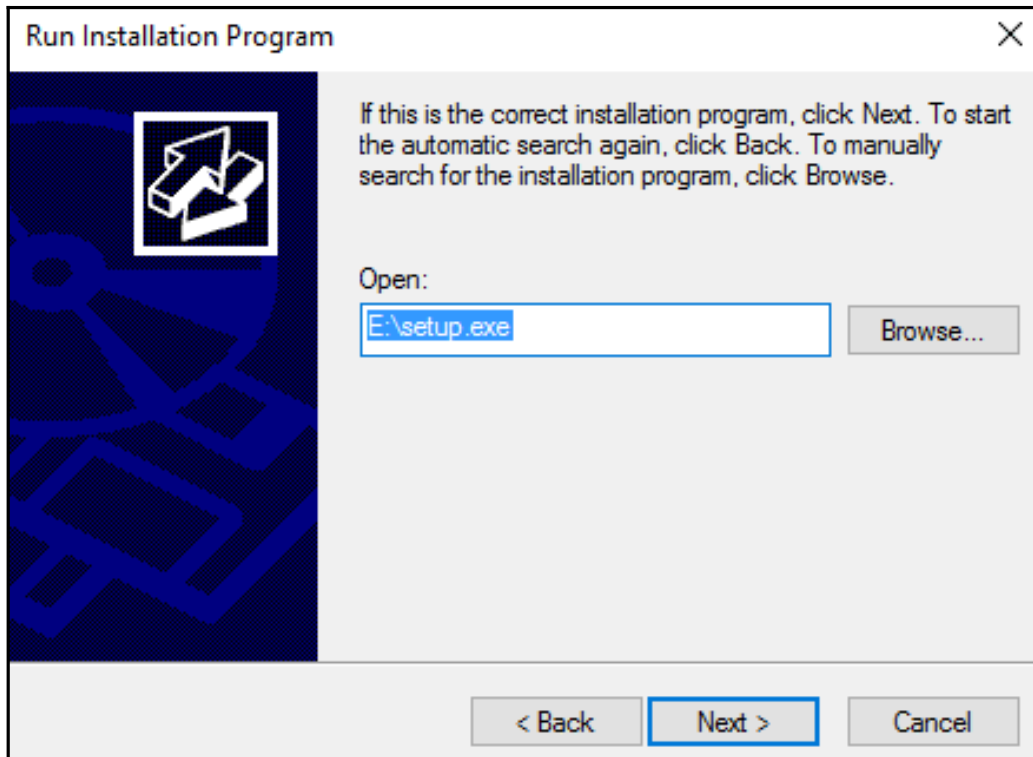


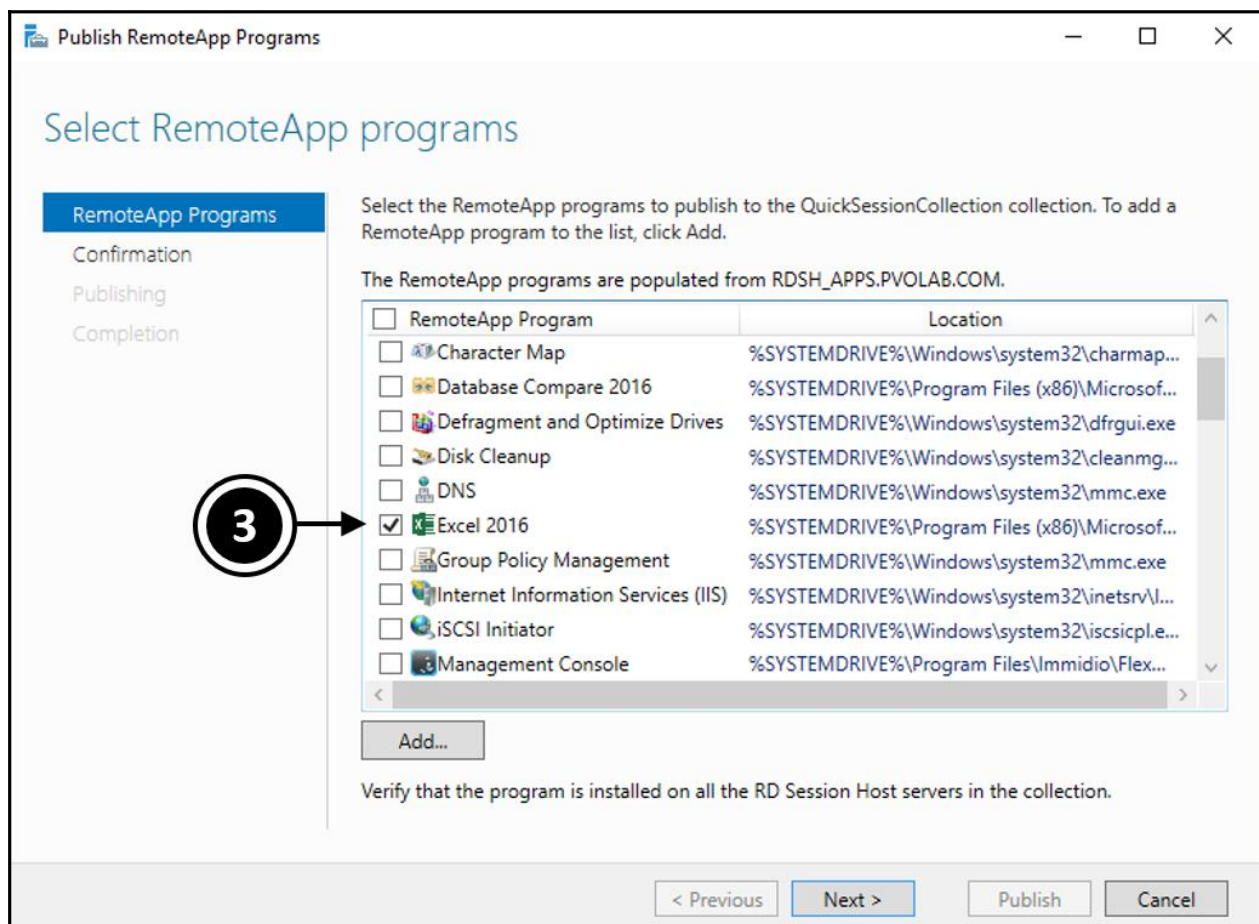
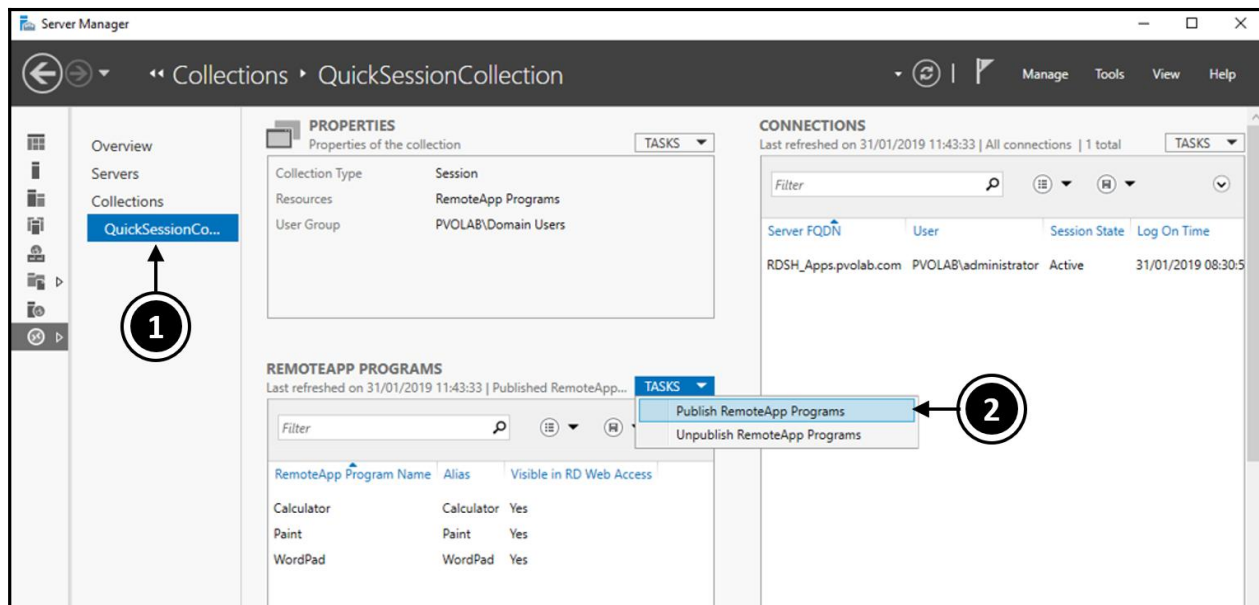


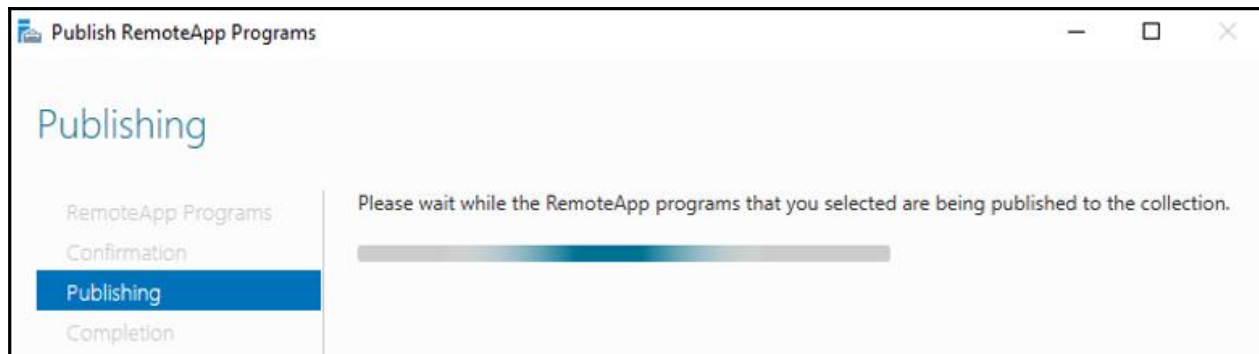
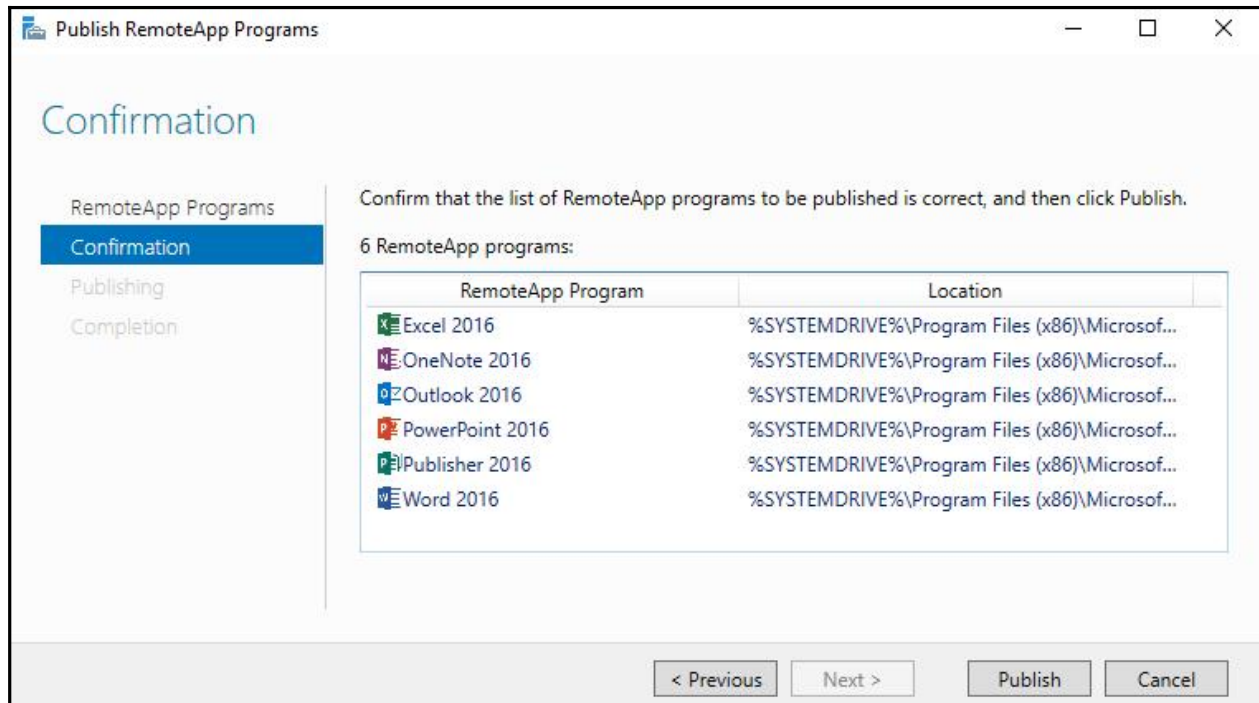


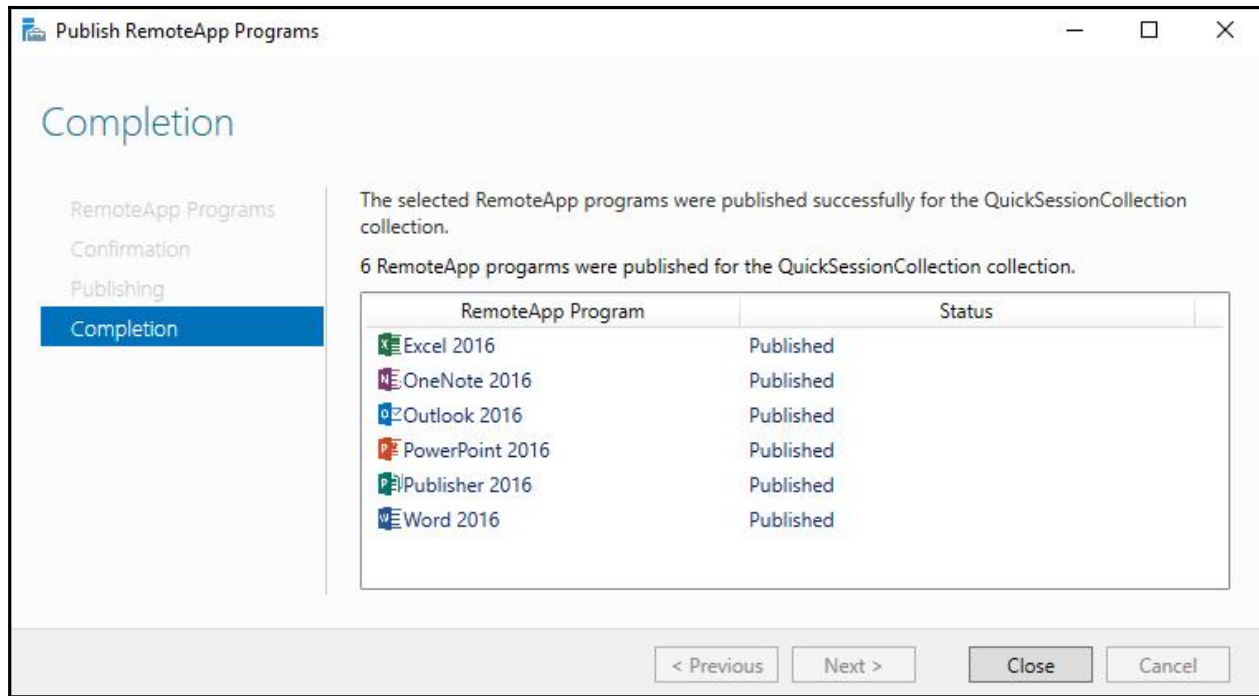




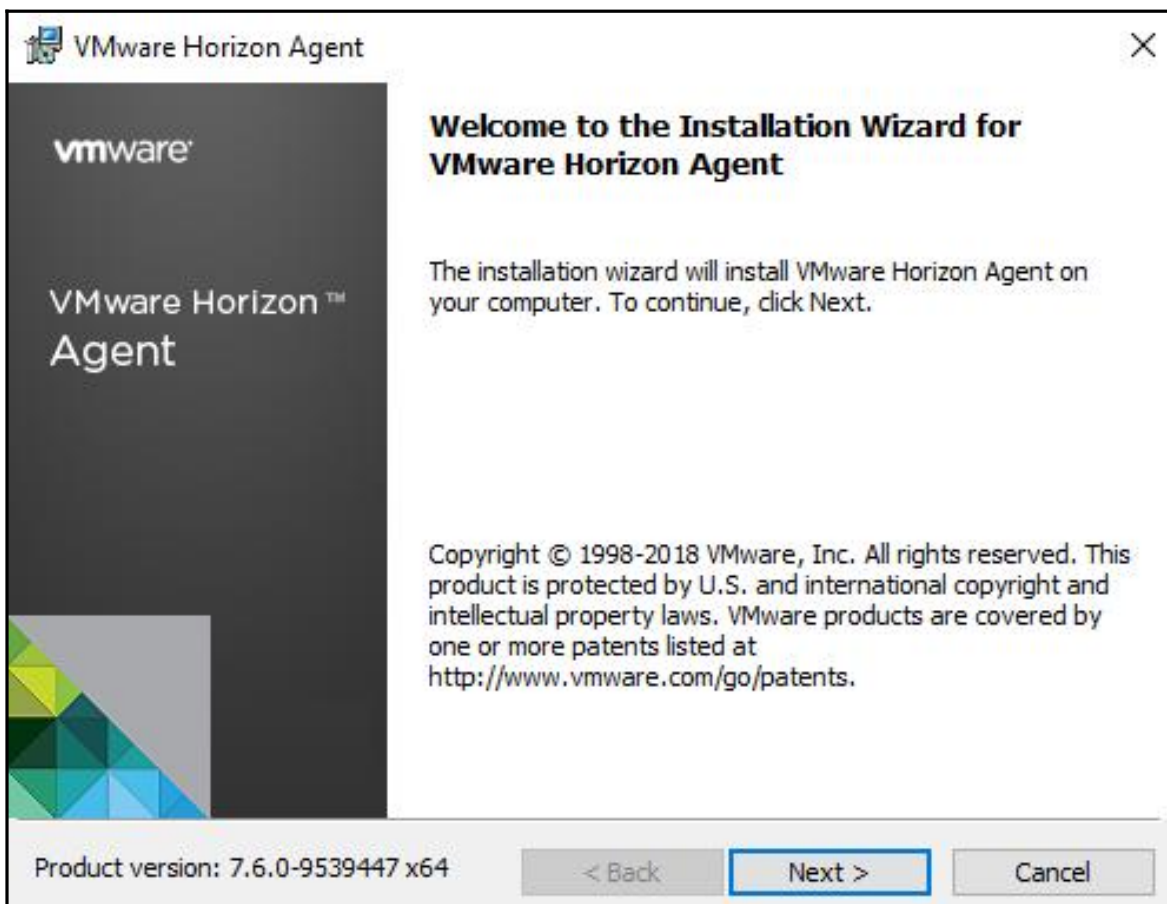






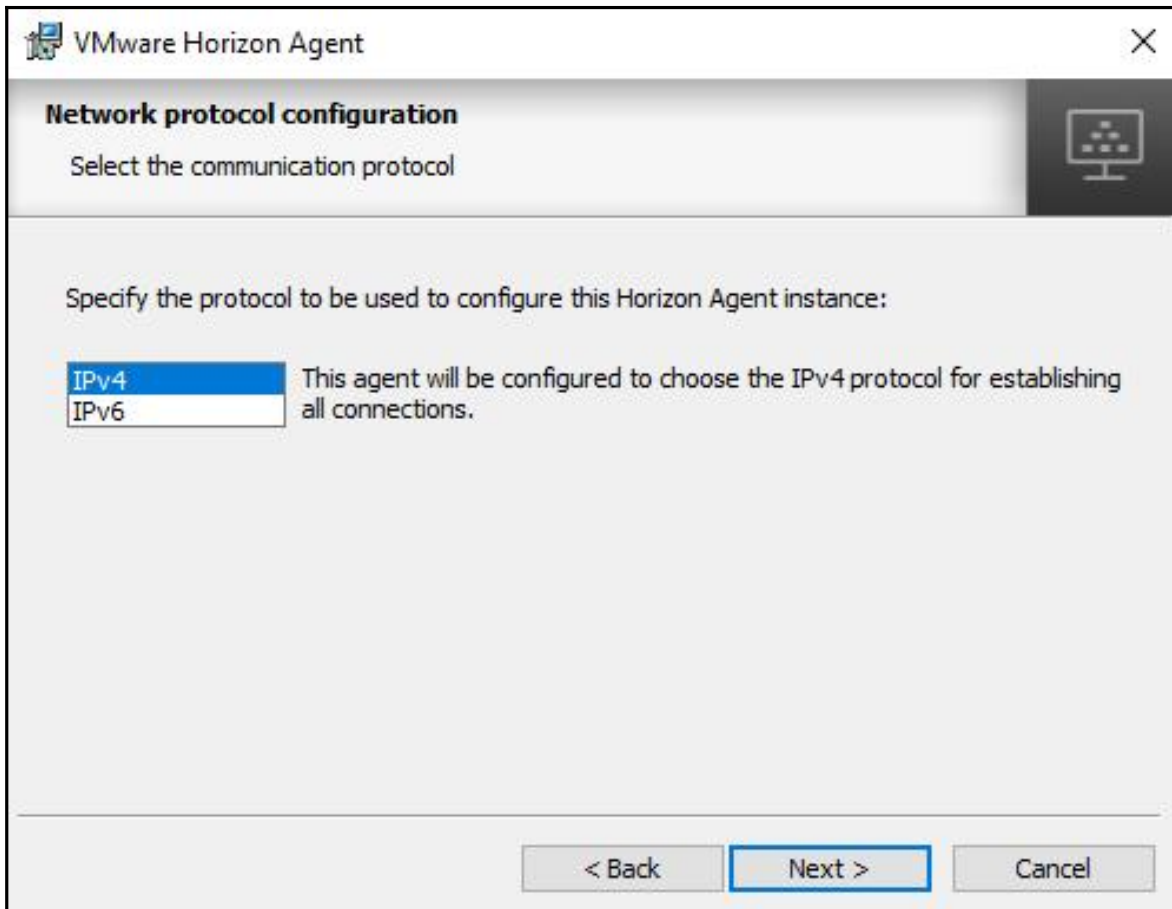


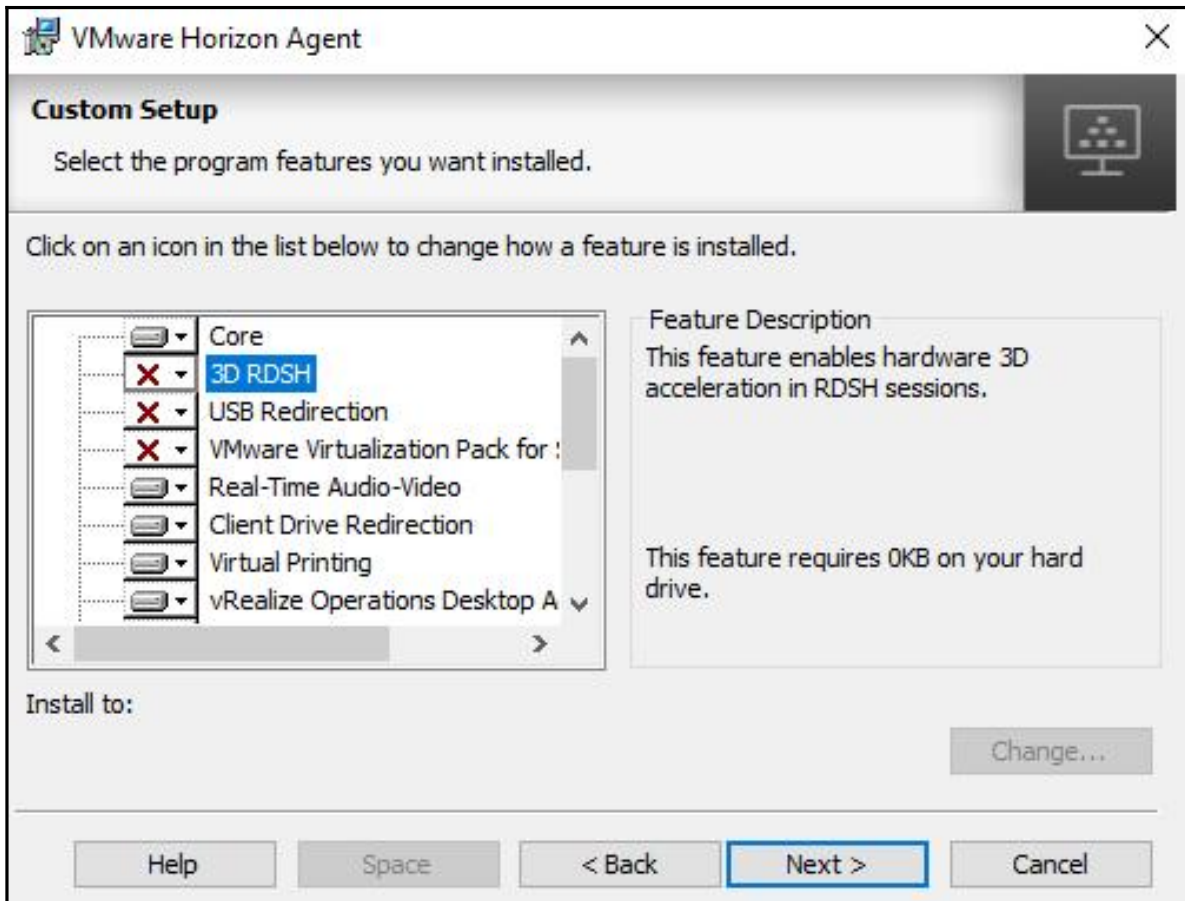
Name	Date modified	Type	Size
View ADM Templates	05/01/2019 10:03	File folder	
VMware OS Optimization Tool	07/12/2018 08:39	File folder	
VMware-Horizon-Agent-x86_64-7.6.0-9539447	02/11/2018 13:23	Application	225,043 KB
VMware-Horizon-Client-4.10.0-11021086	04/01/2019 16:51	Application	195,669 KB
VMware-Horizon-Connection-Server-x86_64-7.6.0-9823717	02/11/2018 13:26	Application	267,730 KB
VMware-Horizon-Extras-Bundle-4.9.0-9539668	04/12/2018 13:21	Compressed (zipp...	5,347 KB
VMware-Horizon-Persona-Management-x86_64-7.6.0-9539447	02/11/2018 13:25	Application	39,685 KB
VMware-Jmp-Installer-7.6.0-9823717	02/11/2018 13:28	Application	115,462 KB
VMware-viewcomposer-7.6.0-9491669	02/11/2018 13:27	Application	47,011 KB

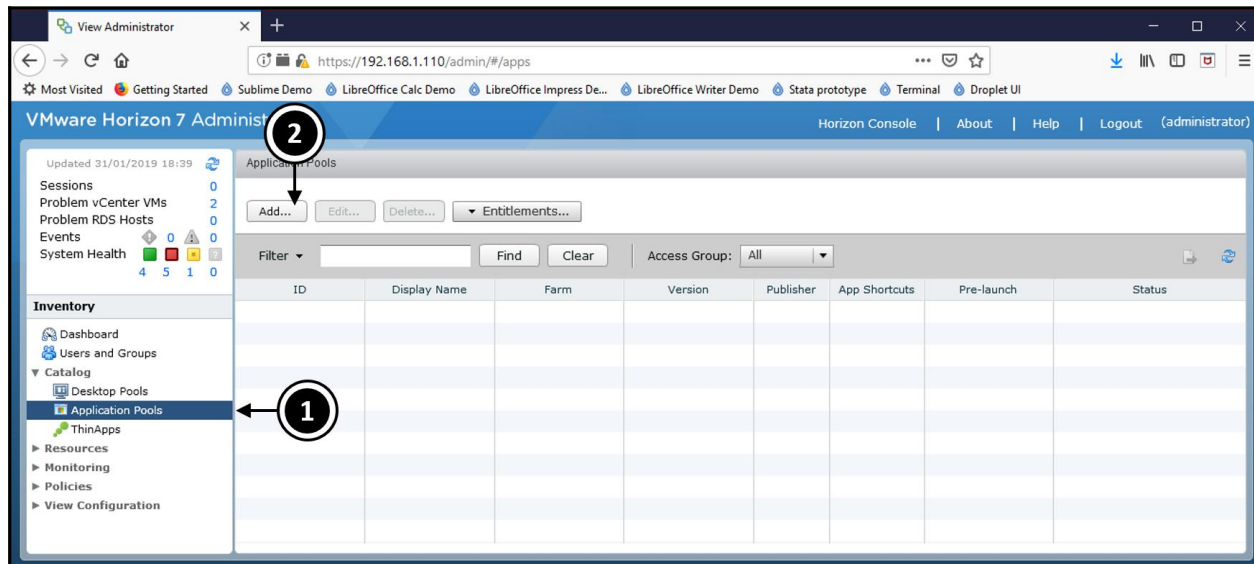
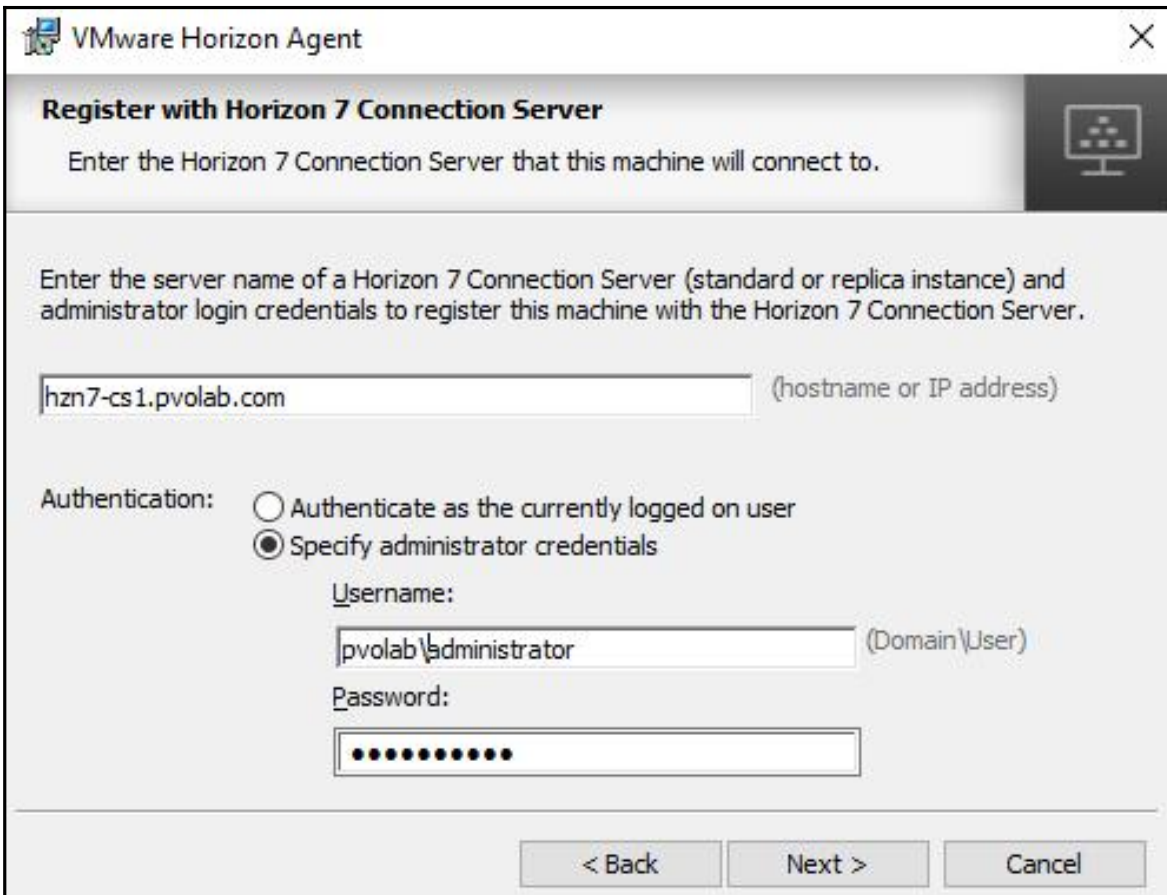














Add Farm

Type	Type	
Identification and Settings Select RDS Hosts Ready to Complete	 <input type="radio"/> Automated Farm	<b>Manual Farm</b> A manual RDS farm is a container for RDSH servers hosted on physical or virtual machines. The machines have to be manually added during farm creation.
	 <input checked="" type="radio"/> Manual Farm	
		<b>Supported Features</b> Instant Clone (License) ✓ vCenter virtual machines ✓ Physical computers ✓ Microsoft RDS Hosts View Composer ✓ VMware Blast ✓ PCoIP

Next > Cancel

Add Farm - Horizon-Published-Apps

Type

Identification and Settings

Select RDS Hosts

Ready to Complete

**Identification and Settings**

**General**

ID: Horizon-Published-Apps

Description: RDS apps delivered by Horizon

Access group: /

**Farm Settings**

Default display protocol: PCoIP

Allow users to choose protocol: Yes

Pre-launch session timeout (applications only): After... 10 Minutes

Empty session timeout (applications only): After... 1 Minutes

When timeout occurs: Disconnect

Log off disconnected sessions: Never

Allow HTML Access to desktops and applications on this farm:  Enabled  
Requires installation of HTML Access.

Allow Session Collaboration:  Enabled  
Requires VMware Blast Protocol.

< Back Next > Cancel

Add Farm - Horizon-Published-Apps

Type

Identification and Settings

Select RDS Hosts

Ready to Complete

Select RDS Hosts

Select RDS hosts to add to the farm.

DNS Name	Type	Max number of connections	Status
rdsh-apps.pvolab.com	Windows Server 2016	150	Available

< Back Next > Cancel

Add Farm - Horizon-Published-Apps

Type  
 Identification and Settings  
 Select RDS Hosts  
 Ready to Complete

Ready to Complete

ID:	Horizon-Published-Apps
Description:	RDS apps delivered by Horizon
Access Group:	/
Default display protocol:	PCoIP
Allow users to choose protocol:	Yes
Pre-launch session timeout (applications only):	10 minutes
Empty session timeout (applications only):	1 minute
When timeout occurs:	Disconnect
Log off disconnected sessions:	Never
Allow HTML Access to desktops and applications on this farm:	Enabled
Allow Session Collaboration:	Enabled
Number of RDS hosts in the farm:	1

< Back   Finish   Cancel

View Administrator

https://192.168.1.110/admin/#/farm

Most Visited   Getting Started   Sublime Demo   LibreOffice Calc Demo   LibreOffice Impress De...   LibreOffice Writer Demo   Stata prototype   Terminal   Droplet UI

VMware Horizon 7 Administrator   Horizon Console | About | Help | Logout (administrator)

Updated 31/01/2019 18:39

Sessions 0  
 Problem vCenter VMs 2  
 Problem RDS Hosts 0  
 Events 0  
 System Health 4 5 1 0

Inventory  
 Dashboard  
 Users and Groups  
 Catalog  
 Resources  
 Farms  
 Machines  
 Persistent Disks  
 Monitoring  
 Policies  
 View Configuration

Farms

Add...   Edit...   Delete...   More Commands   Access Group

Filter   Find   Clear   Access Group: All

ID	Type	Source	RDS Hosts	Desktop Pool	Application Pools	Max number of connections	Enabled
Horizon-Published-Apps	Manual	vCenter	1	0	0	150	✓

The screenshot shows the VMware Horizon 7 Administrator Dashboard. The left sidebar contains a navigation menu with sections like Sessions, Problem vCenter VMs, Problem RDS Hosts, Events, System Health, Inventory, and Resources. The main content area is titled 'Dashboard' and includes several widgets: System Health, Machine Status (with tabs for vCenter VMs, RDS Hosts, and Others), and Datastores. The Datastores table is as follows:

Datastore	vCenter Server	Path	Capacity (GB)	Free Space (GB)
VM Datastore	192.168.1.178	/PVO's Datacenter/VM Datastore	299	75
datastore1	192.168.1.178	/PVO's Datacenter/datastore1	32	24

The screenshot shows the VMware Horizon 7 Administrator Farms page. The left sidebar has 'Farms' selected under the Resources section, indicated by a circled '1'. The main content area shows a table for Farms with columns: ID, Type, Source, RDS Hosts, Desktop Pool, Application Pools, Max number of connections, and Enabled. Above the table are buttons for 'Add...', 'Edit...', 'Delete...', 'More Commands', and 'Access Group'. A circled '2' points to the 'Add...' button. There is also a search filter and an 'Access Group' dropdown menu.



Add Application Pools

Select an RDS farm:

Add application pool manually  
 Select installed applications

Filter:

<input type="checkbox"/>	Name	Path
<input type="checkbox"/>	Outlook 2016	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Outlook 2016
<input checked="" type="checkbox"/>	PowerPoint 2016	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\PowerPoint 2016
<input type="checkbox"/>	Print Dialog	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\PrintDialog
<input type="checkbox"/>	Publisher 2016	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Publisher 2016
<input type="checkbox"/>	Skype for Business 2016	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Skype for Business 2016
<input type="checkbox"/>	Task Manager	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\System Tools\Task Manager
<input type="checkbox"/>	Windows Defender	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\System Tools\Windows Defender
<input type="checkbox"/>	Management Console	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\VMware Workstation Management Console
<input type="checkbox"/>	Self-Support	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\VMware Workstation Self-Support
<input checked="" type="checkbox"/>	Word 2016	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Word 2016
<input type="checkbox"/>	Notepad	C:\Users\Default\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Notepad
<input type="checkbox"/>	OneDrive	C:\Users\Default\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\OneDrive

Pre-launch:  Enabled  
 Connection Server restrictions: None   
 Category Folder: None   
 Client Restrictions:  Enabled

3

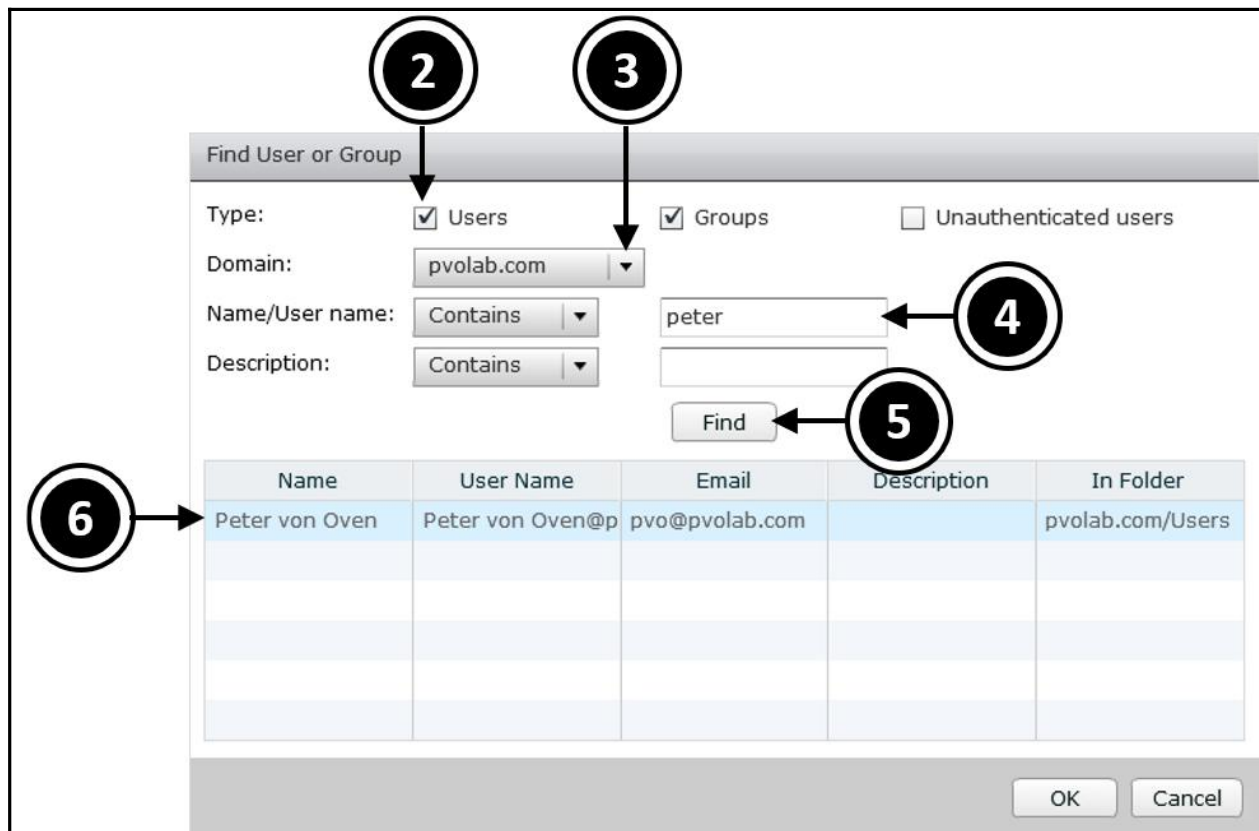
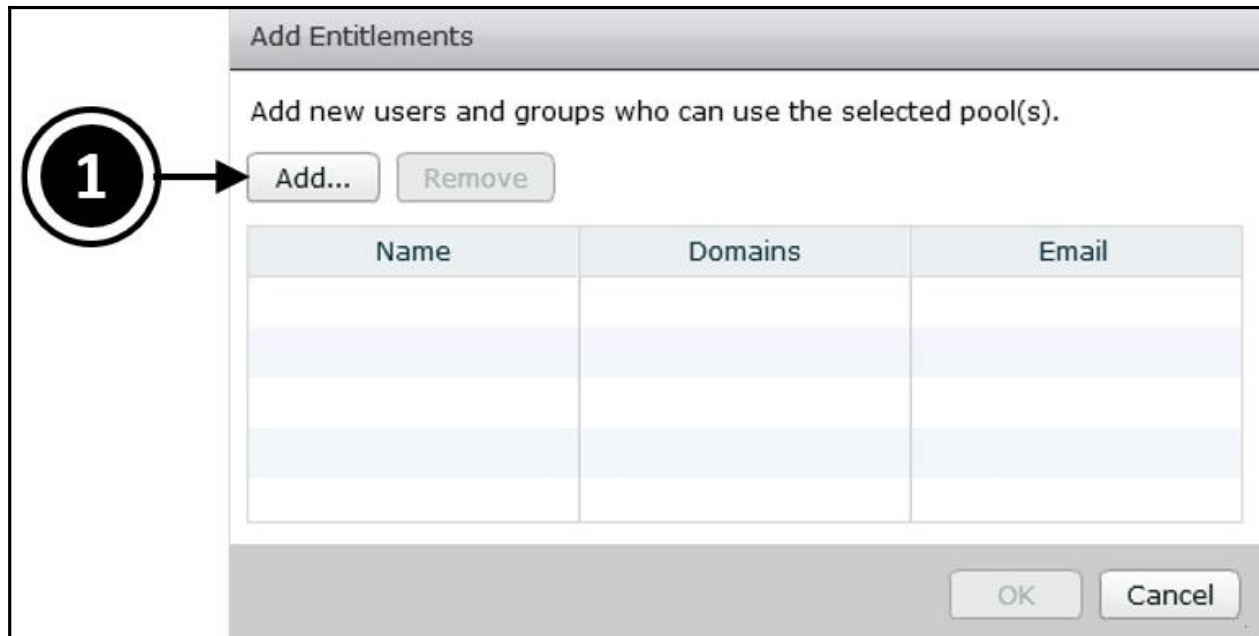
4

Add Application Pools

Edit ID and Display Name of the selected applications

Entitle users after this wizard finishes

ID	Display Name	Path
Excel_2016	Excel 2016	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Excel 2016.Ink
PowerPoint_2016	PowerPoint 2016	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\PowerPoint 2016.Ink
Word_2016	Word 2016	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Word 2016.Ink



View Administrator

https://192.168.1.110/admin/#apps

VMware Horizon 7 Administrator

Horizon Console | About | Help | Logout (administrator)

Updated 31/01/2019 18:39

Sessions 0  
 Problem vCenter VMs 2  
 Problem RDS Hosts 0  
 Events 0  
 System Health 4 5 1 0

Inventory

- Dashboard
- Users and Groups
- Catalog
  - Desktop Pools
  - Application Pools
  - ThinApps
- Resources
- Monitoring
- Policies
- View Configuration

Application Pools

Add... Edit... Delete... Entitlements...

Filter Find Clear Access Group: All

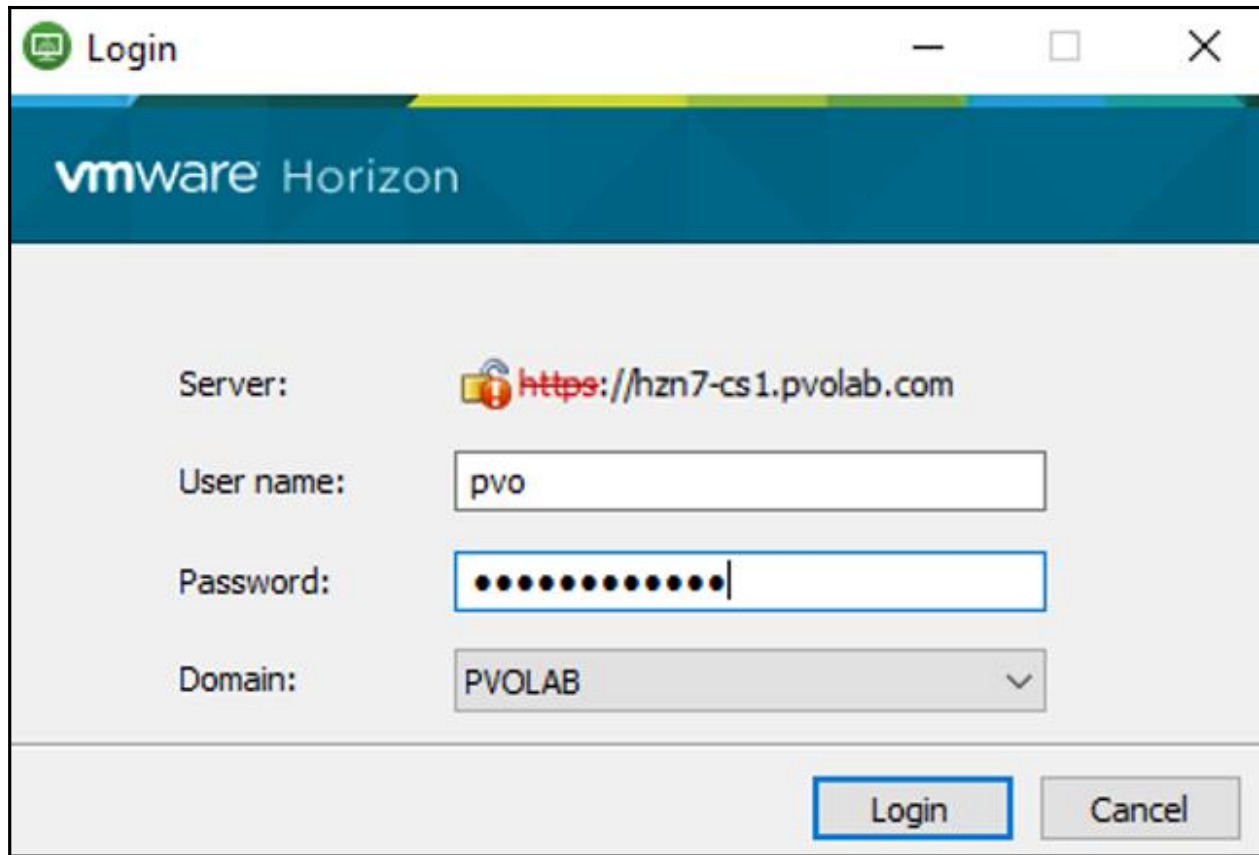
ID	Display Name	Farm	Version	Publisher	App Shor...	Pre-launch	Status
Excel_2016	Excel 2016	Horizon-Published-Apps	16.0.4266.1003	Microsoft Corporation		✓	Available
PowerPoint_2016	PowerPoint 2016	Horizon-Published-Apps	16.0.4266.1003	Microsoft Corporation		✓	Available
Word_2016	Word 2016	Horizon-Published-Apps	16.0.4266.1003	Microsoft Corporation		✓	Available

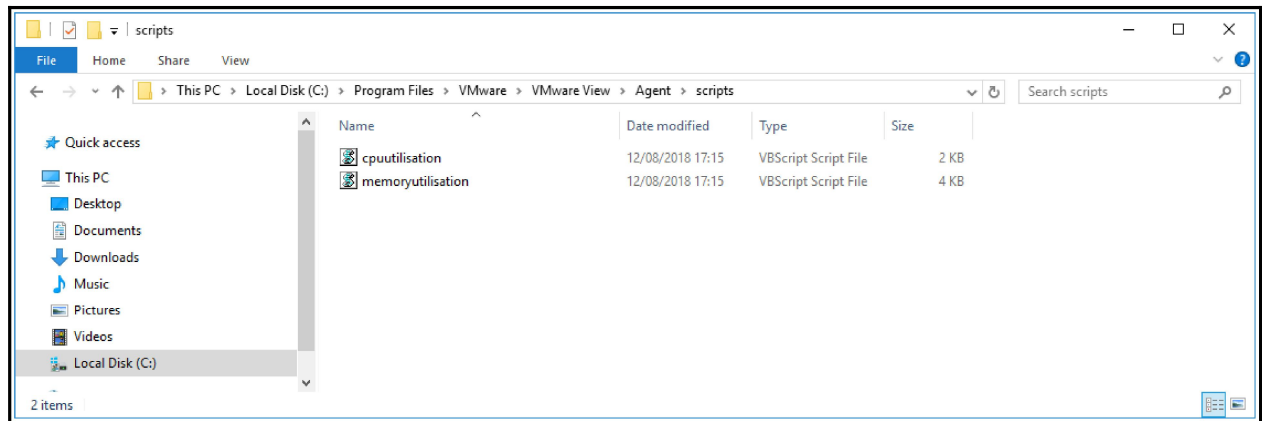
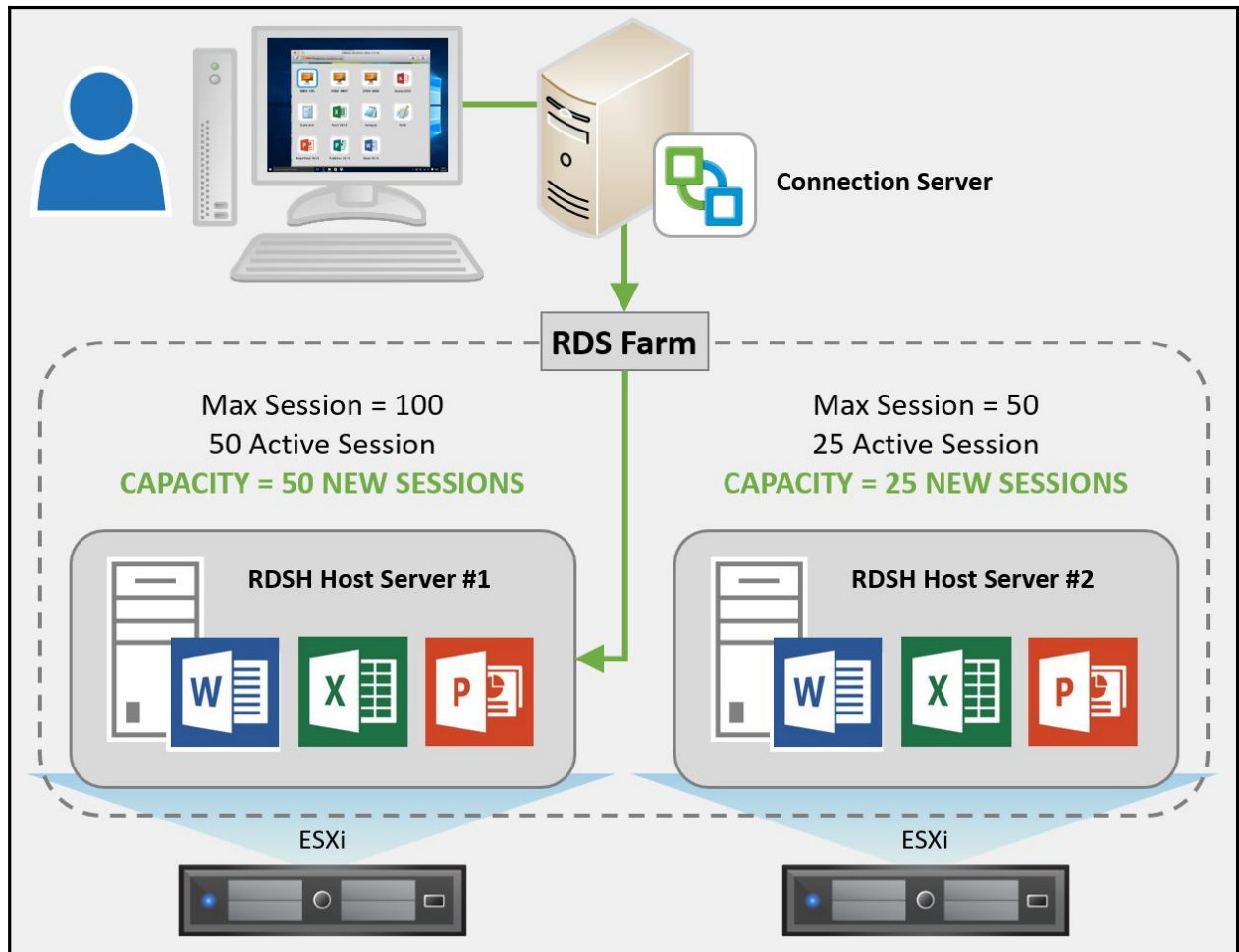
VMware Horizon Client

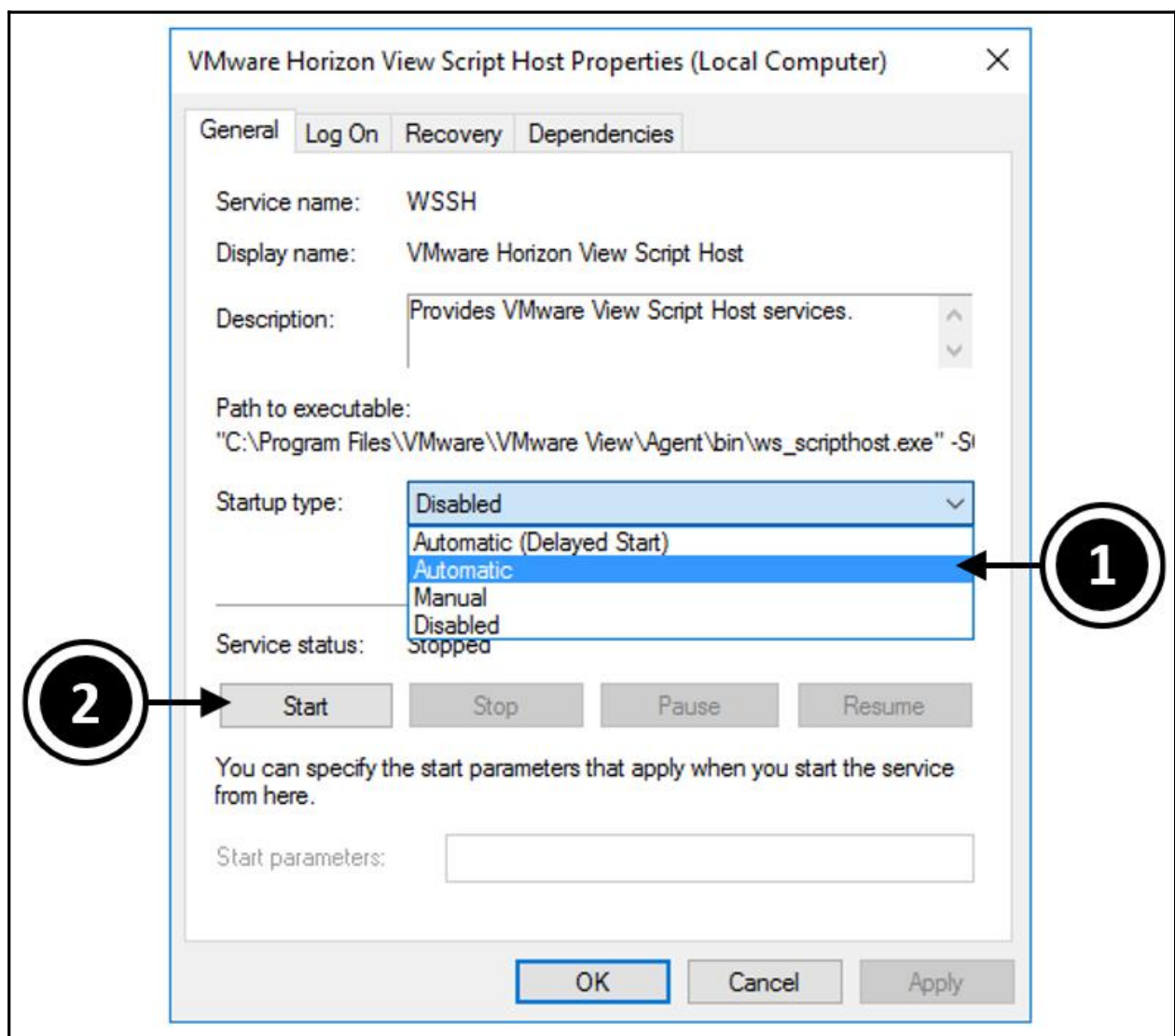
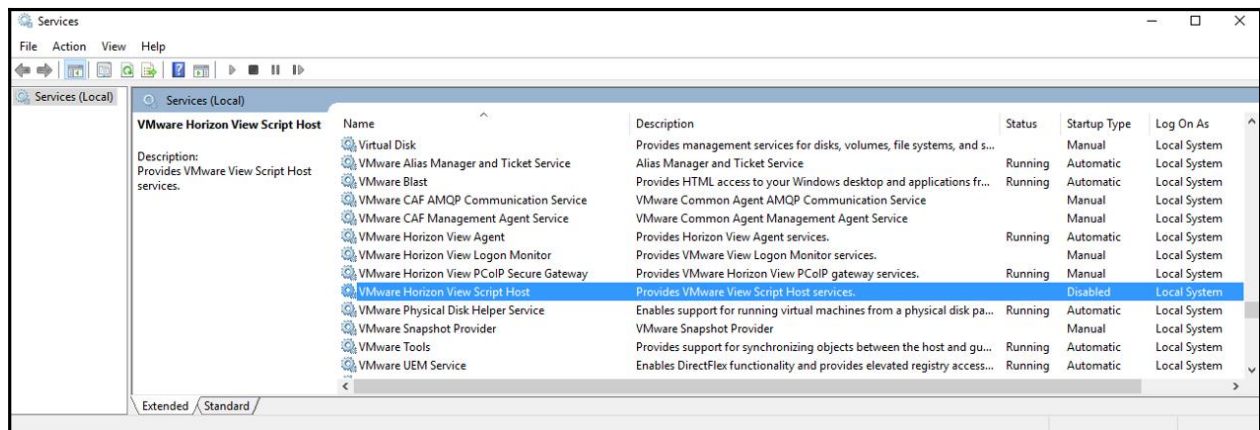
+ New Server

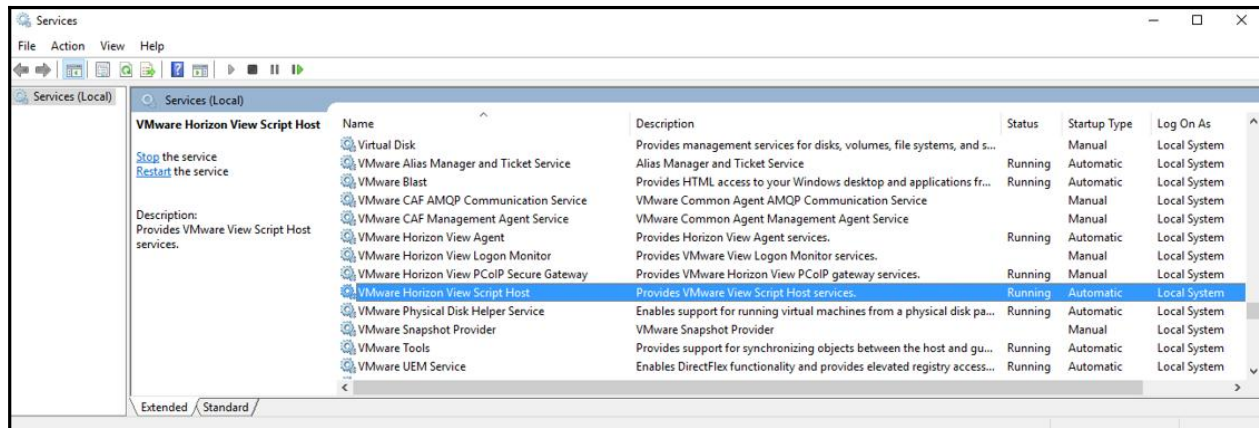


hzn7-cs1.pvolab.com

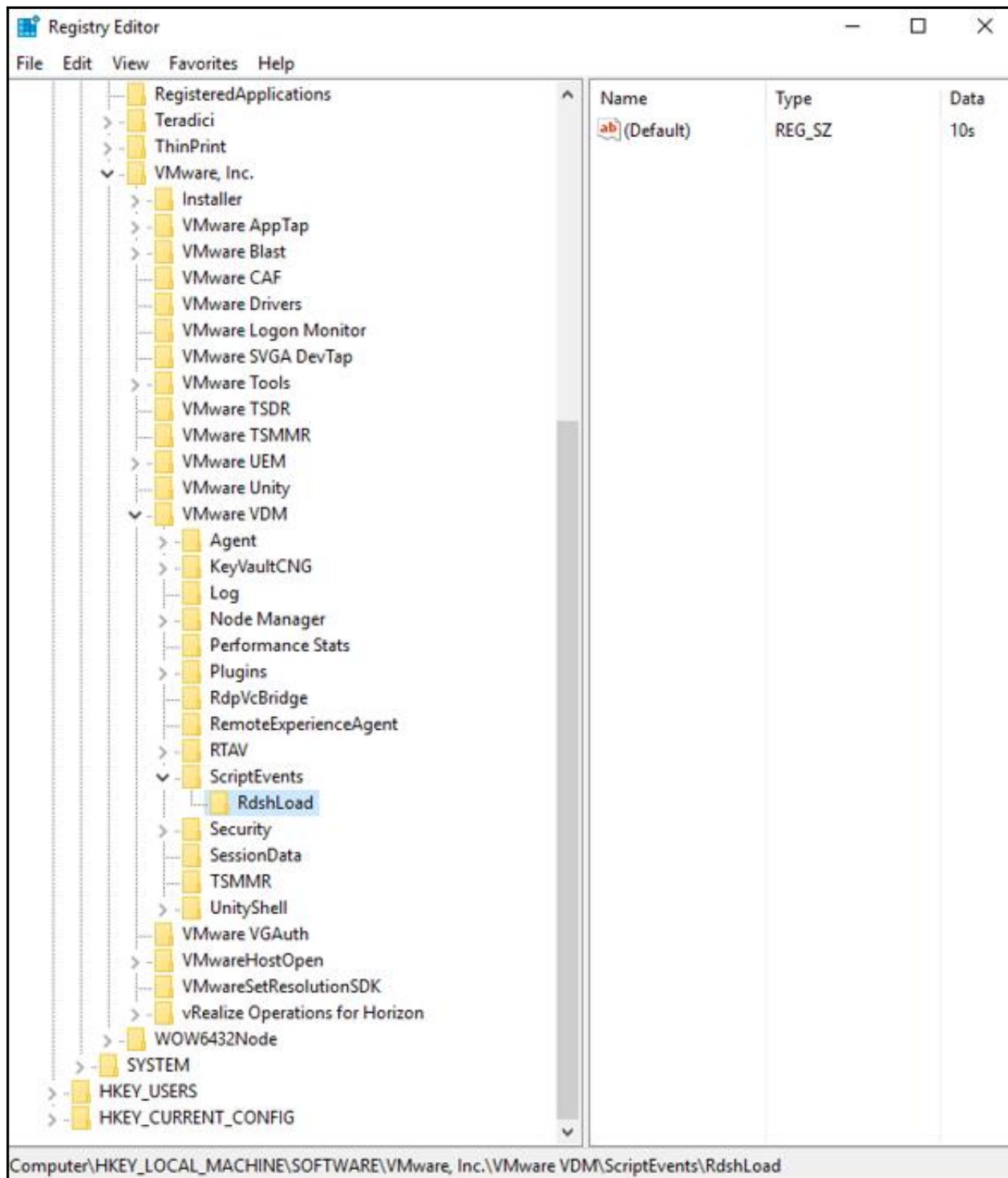




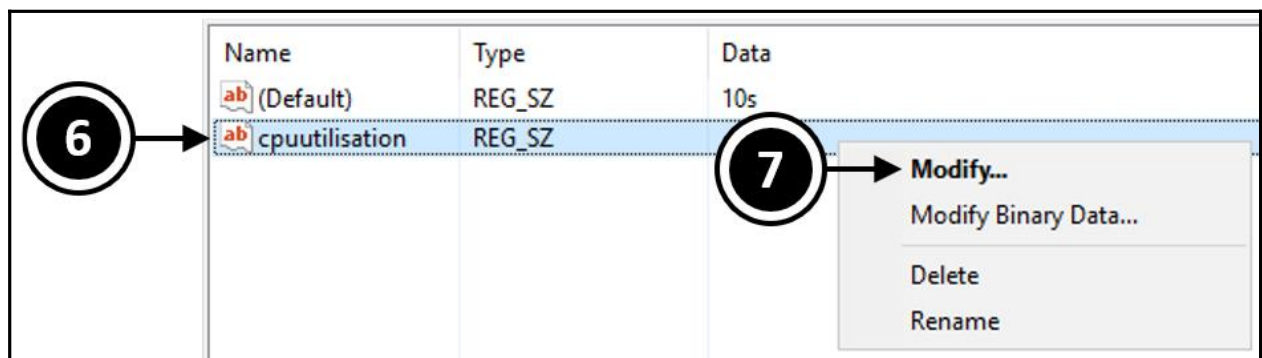
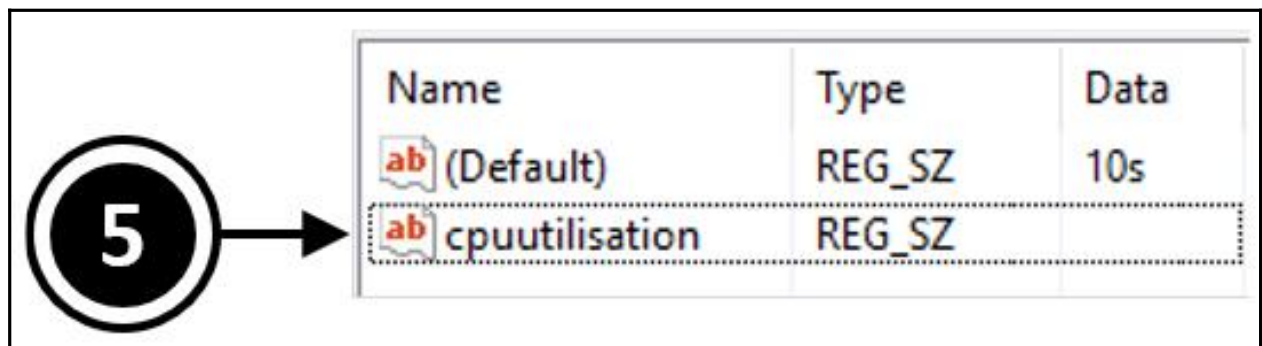
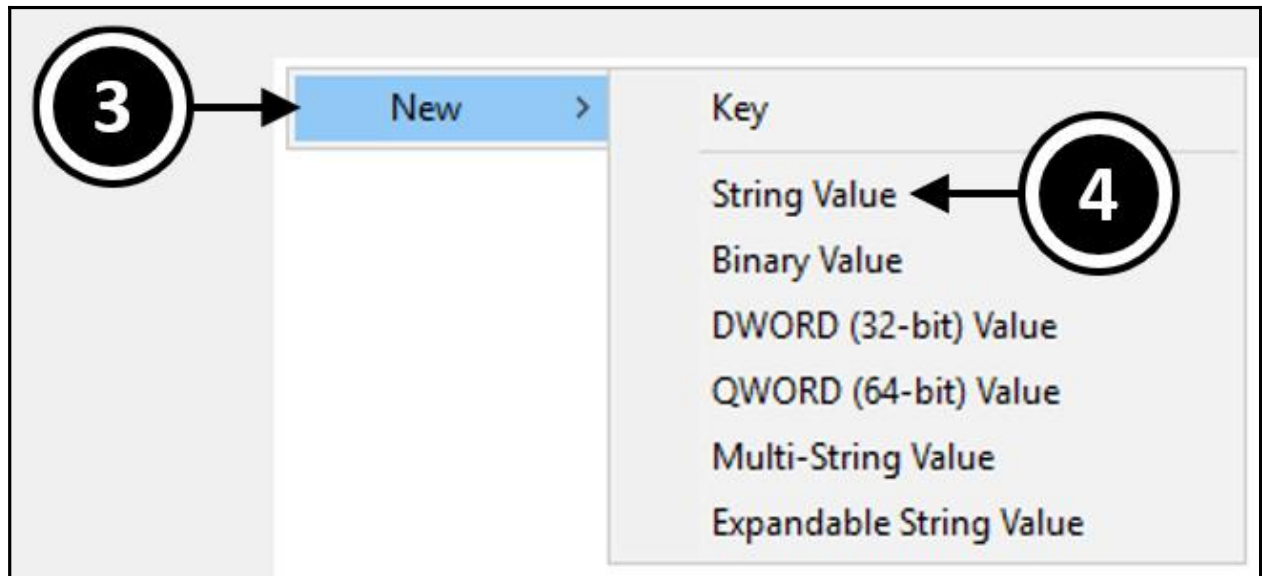


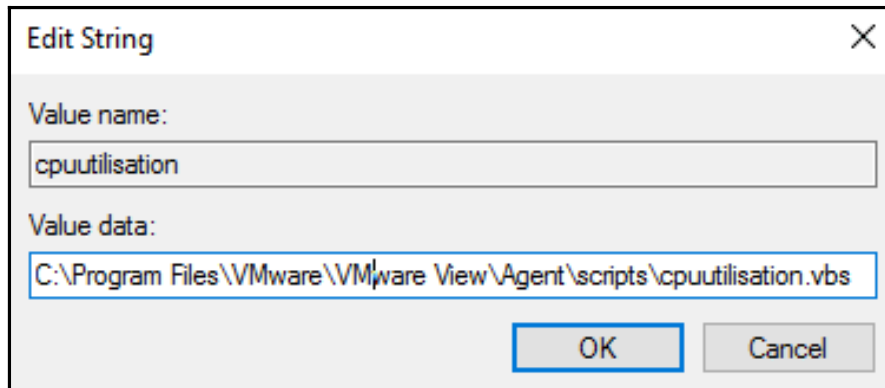


Computer\HKEY\_LOCAL\_MACHINE\SOFTWARE\VMware, Inc.\VMware VDM\ScriptEvents\RdshLoad

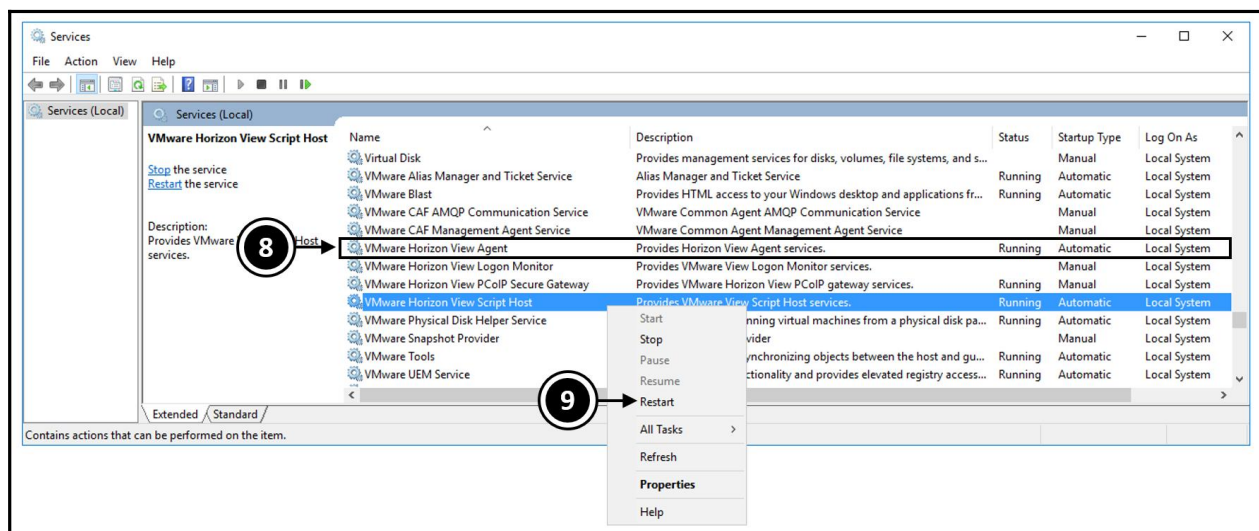








Name	Type	Data
(Default)	REG_SZ	10s
cpuutilisation	REG_SZ	C:\Program Files\VMware\VMware View\Agent\scripts\cpuutilisation.vbs



---

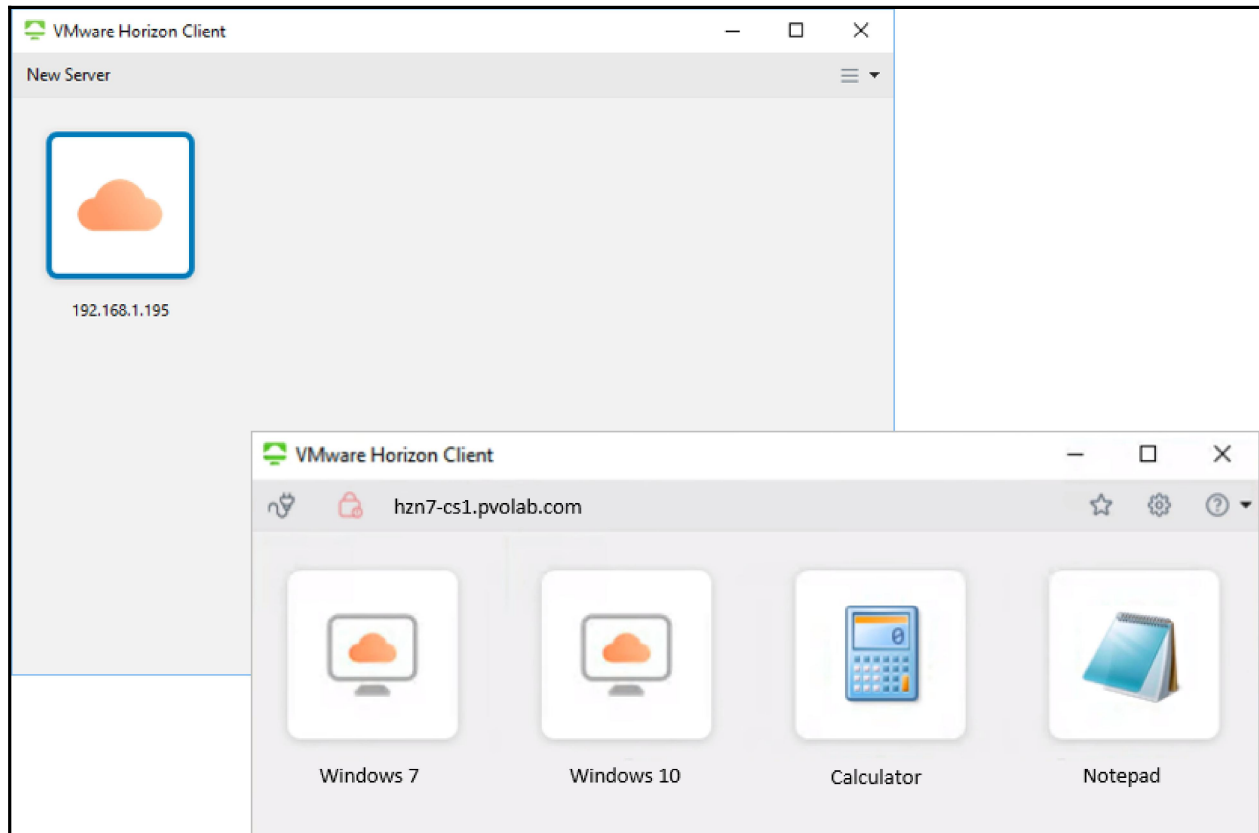
rdsh-apps.pvolab.com details

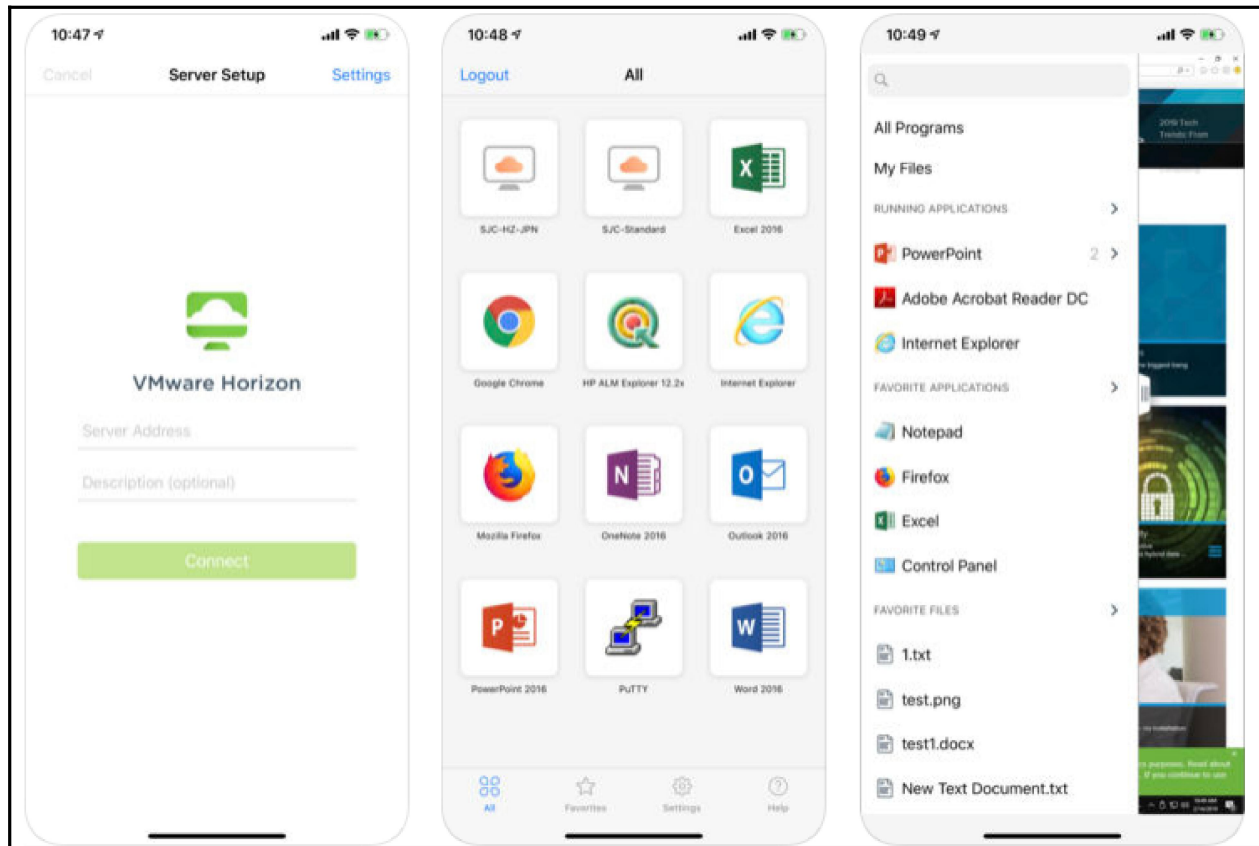
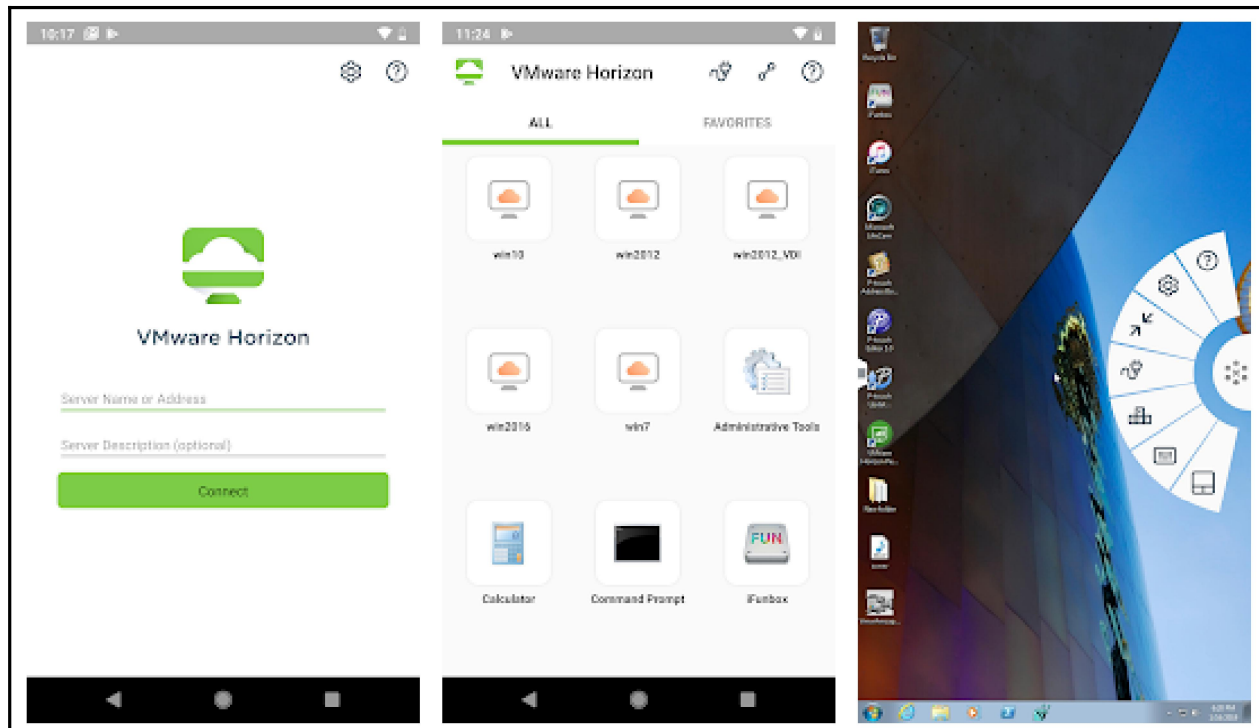
Name:	 rdsh-apps.pvolab.com
Type:	Windows Server 2016
Max number of connections:	150
Agent Version:	7.6.0
Status:	Available
Server load:	Light load, new sessions okay

OK

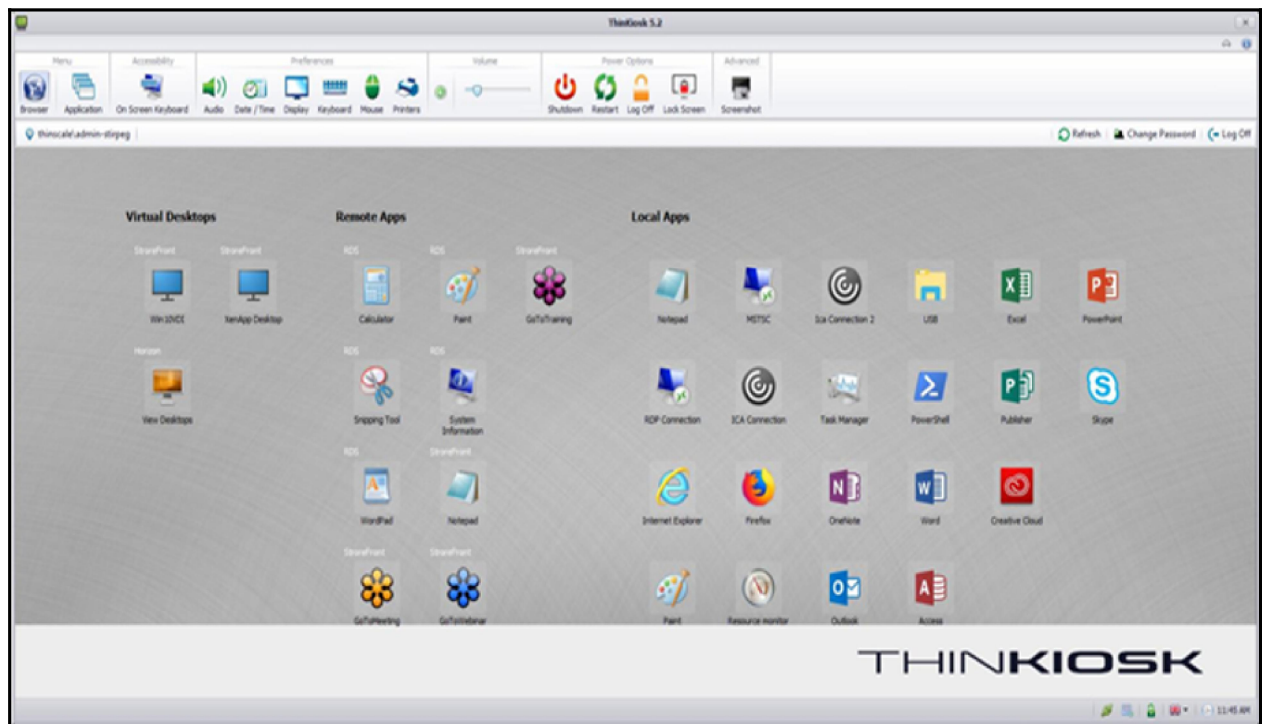
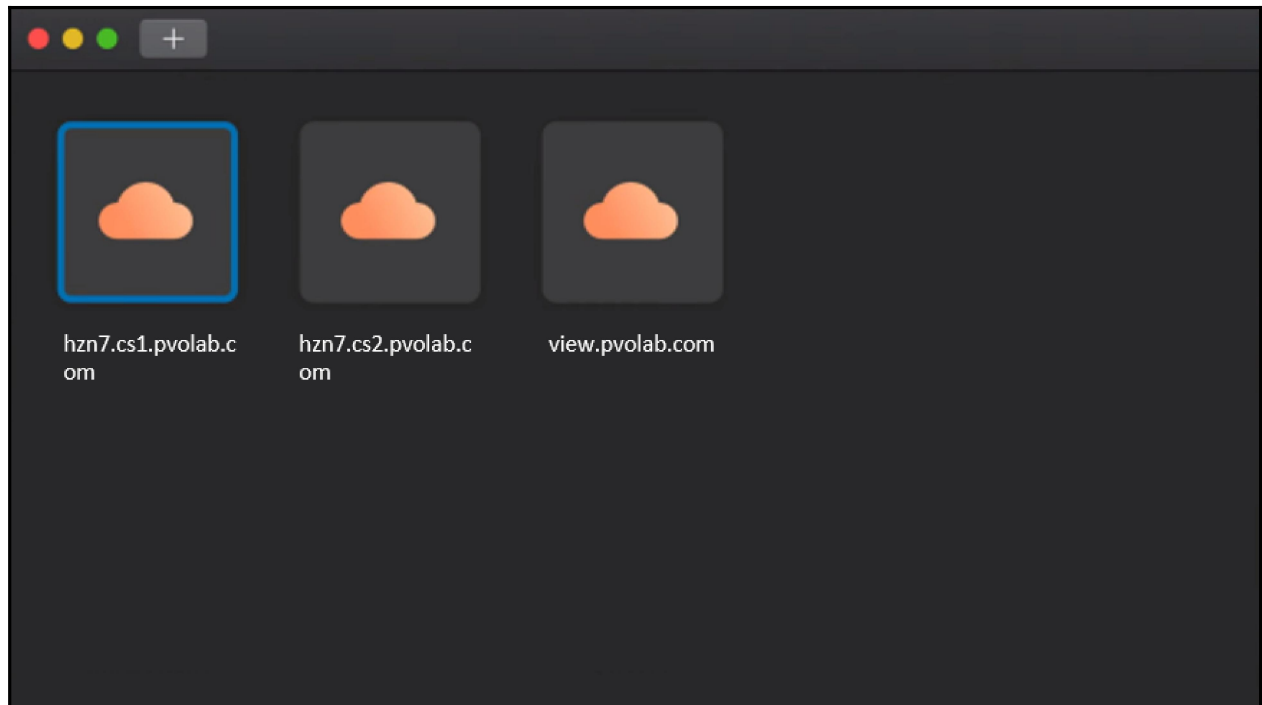
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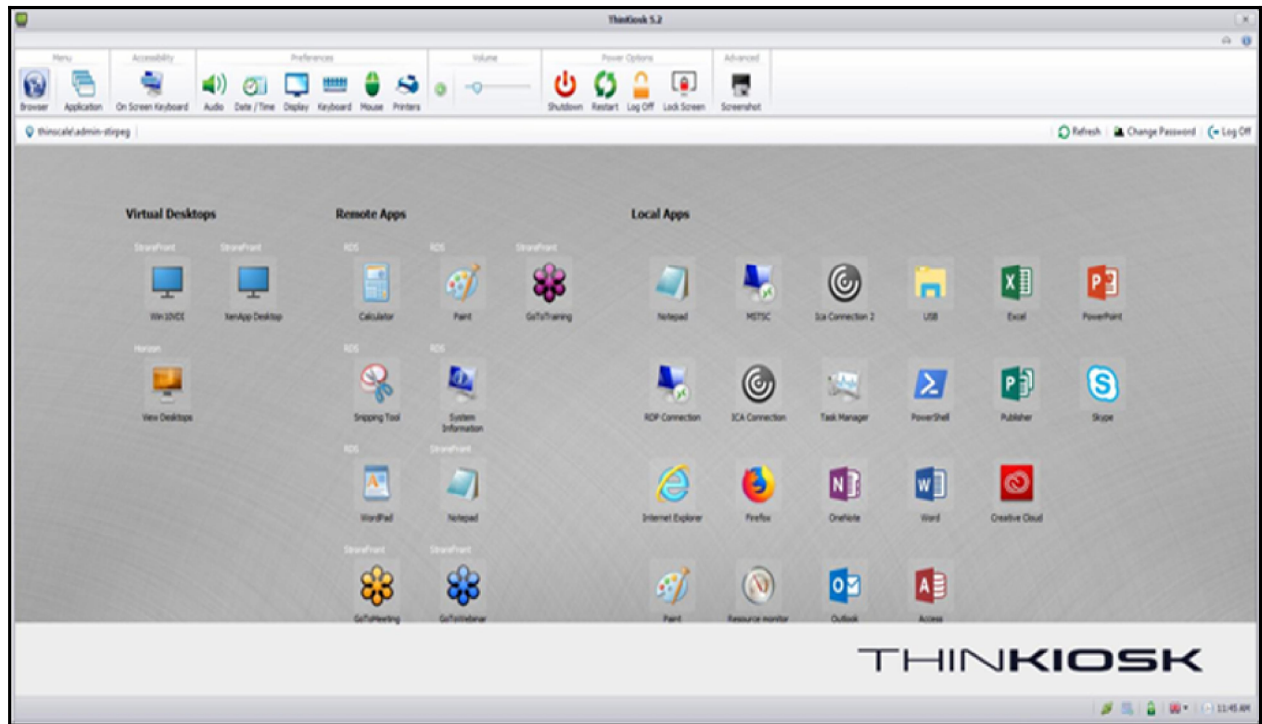
# Chapter 12: Horizon Client Options





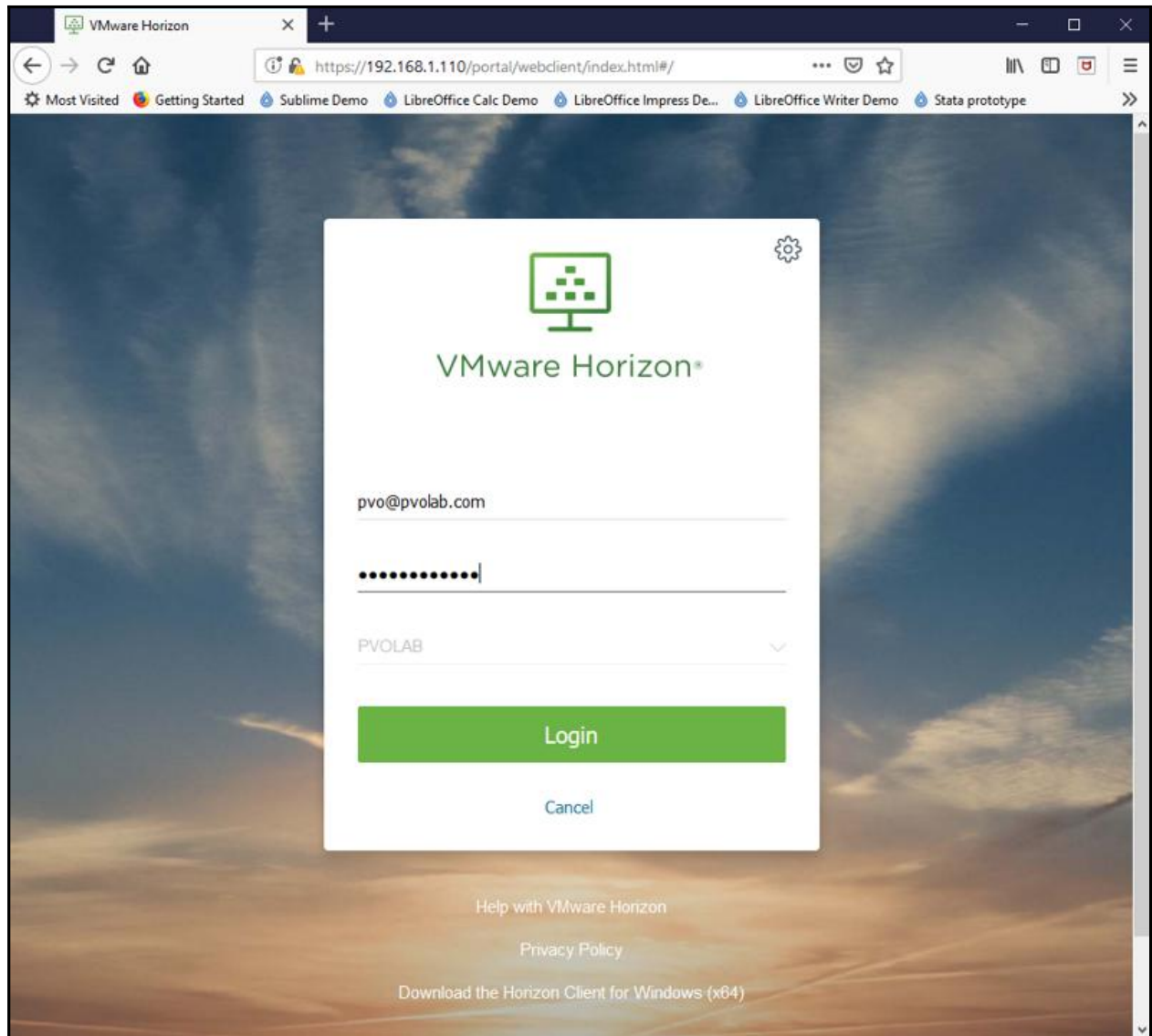


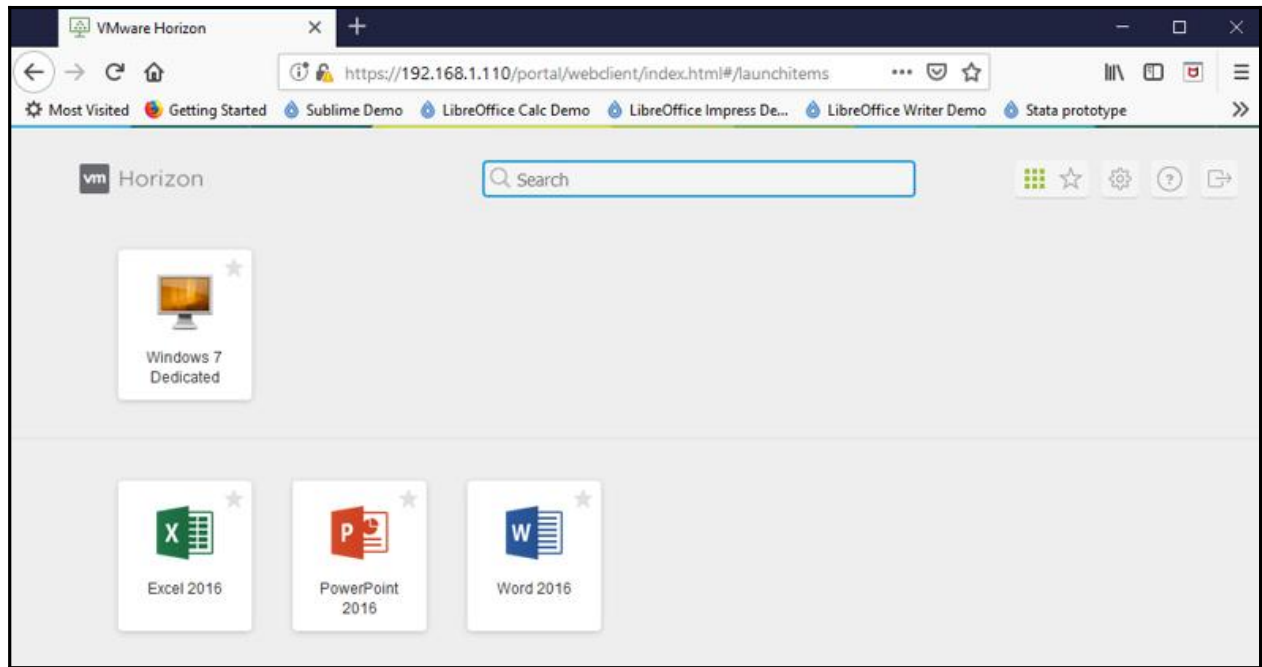






The image shows a browser window with the VMware Horizon logo in the top left corner. The address bar displays the URL <https://192.168.1.110>. The browser's bookmark bar includes links for 'Most Visited', 'Getting Started', 'Sublime Demo', 'LibreOffice Calc Demo', 'LibreOffice Impress De...', 'LibreOffice Writer Demo', and 'Stata prototype'. The main content area features a white central panel with the VMware Horizon logo at the top. Below the logo, the text reads: 'You can connect to your desktop and applications by using the VMware Horizon Client or through the browser.' This is followed by the statement: 'The VMware Horizon Client offers better performance and features.' Two options are presented: 'Install VMware Horizon Client' with a download icon, and 'VMware Horizon HTML Access' with a keyboard icon. A checkbox is present below the HTML Access option, labeled 'Check here to skip this screen and always use HTML Access.' At the bottom of the panel, there are two links: 'To see the full list of VMware Horizon Clients, click here.' and 'For help with VMware Horizon, click here.'

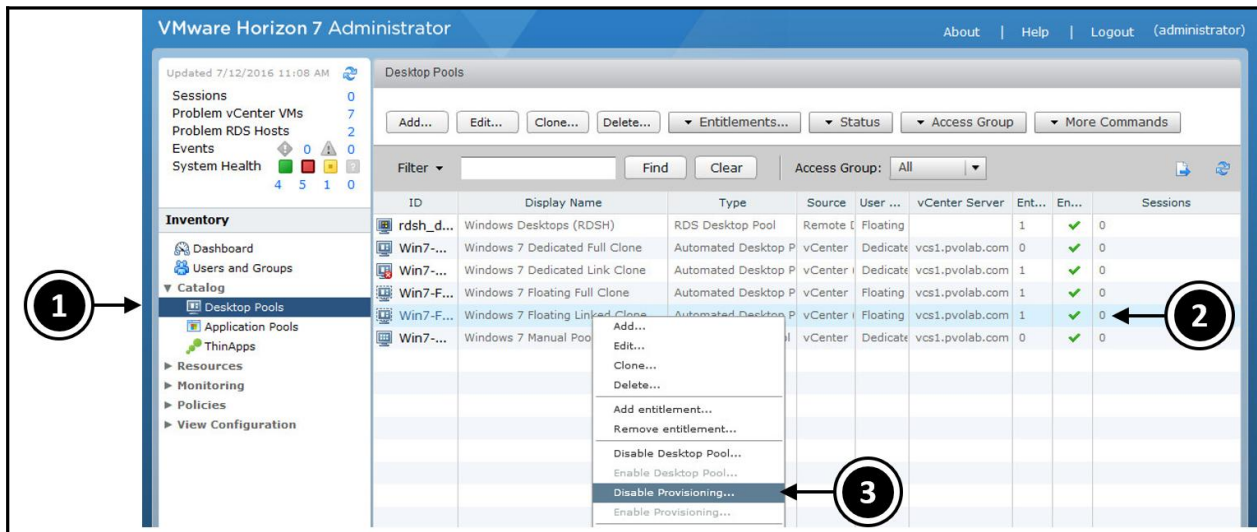




# Chapter 13: Upgrading to a New Version of Horizon

← Earlier Versions of .... →

Component	Connection Server	Security Server	View Composer	Horizon Agent	Horizon Client
Connection Server 7.0	Only during upgrade	Pair before upgrade	☒	Only during upgrade	☑
Security Server 7.0	☒	N / A	☒	Only during upgrade	☑
View Composer 7.0	Only during upgrade	Only during upgrade	N / A	Only during upgrade	N / A
Horizon Agent 7.0	Only during upgrade	☒	☒	N / A	Only during upgrade
Horizon Client 4.0	☑	☑	☑	☑	N / A



## Disable Provisioning New VMs

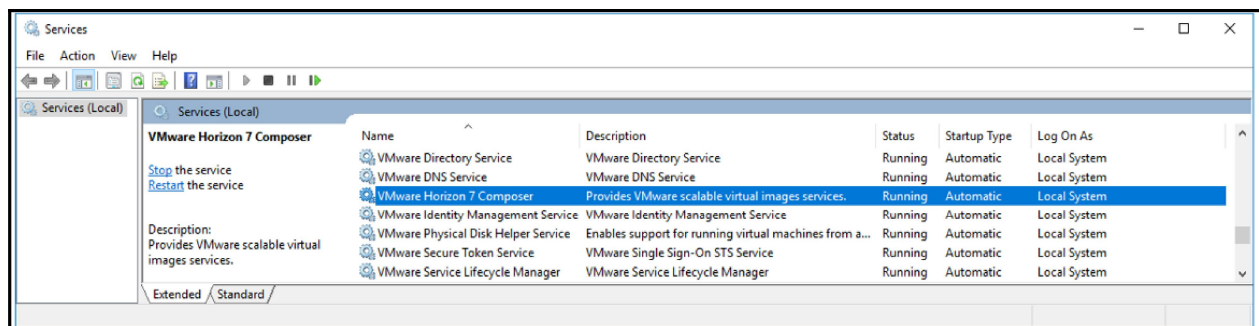
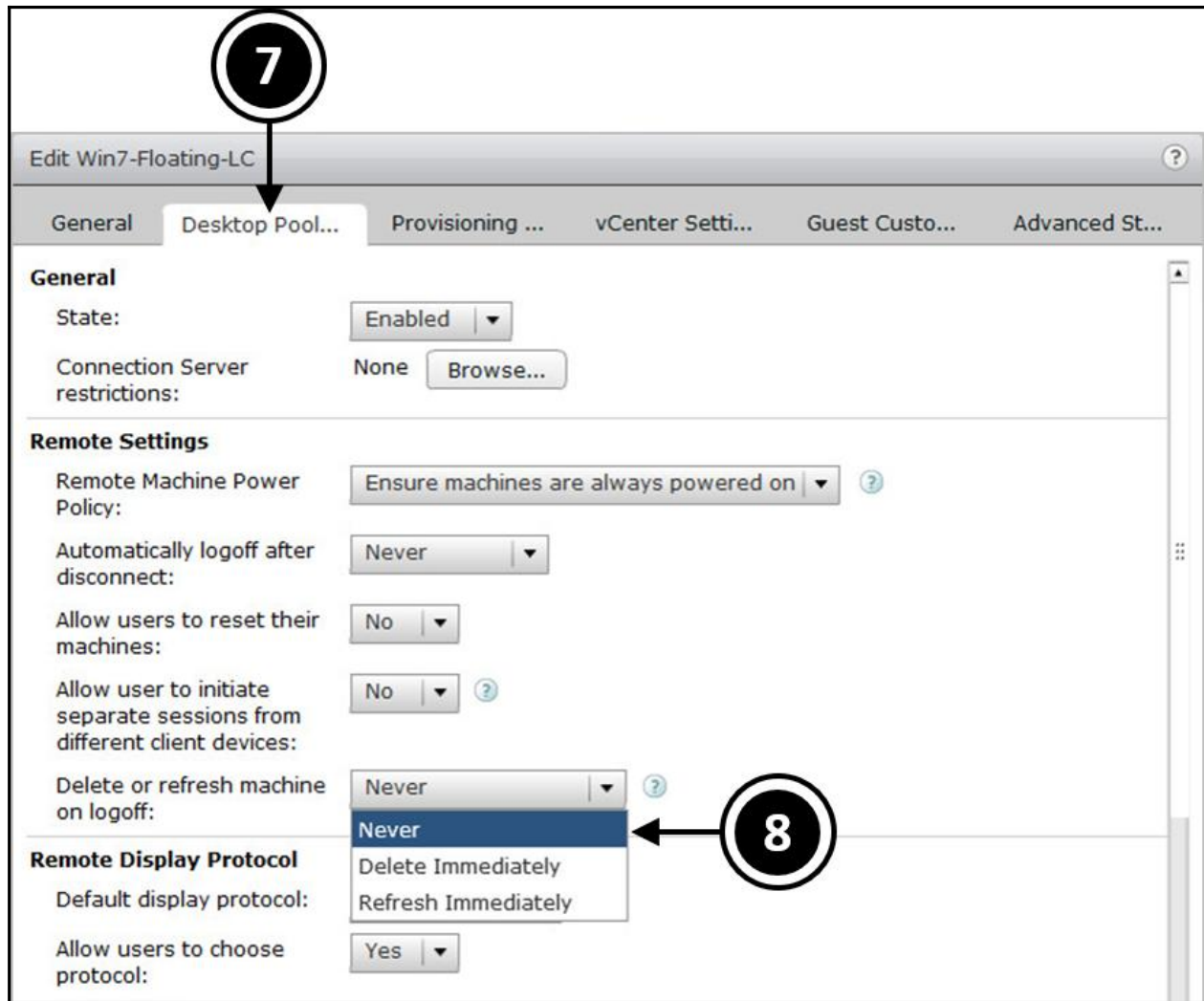
You are about to disable provisioning for desktop pool(s) Win7-Floating-LC. Do you want to continue?

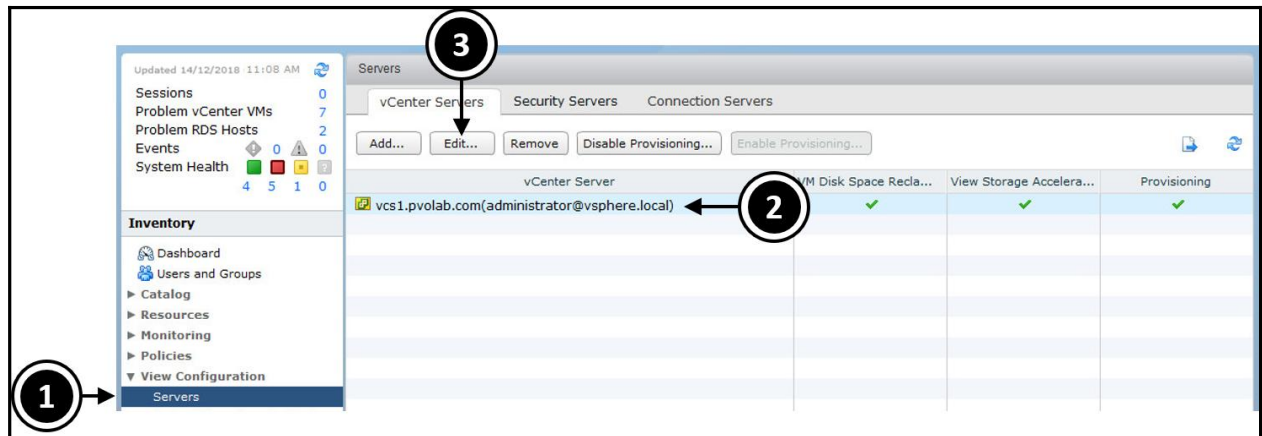
OK

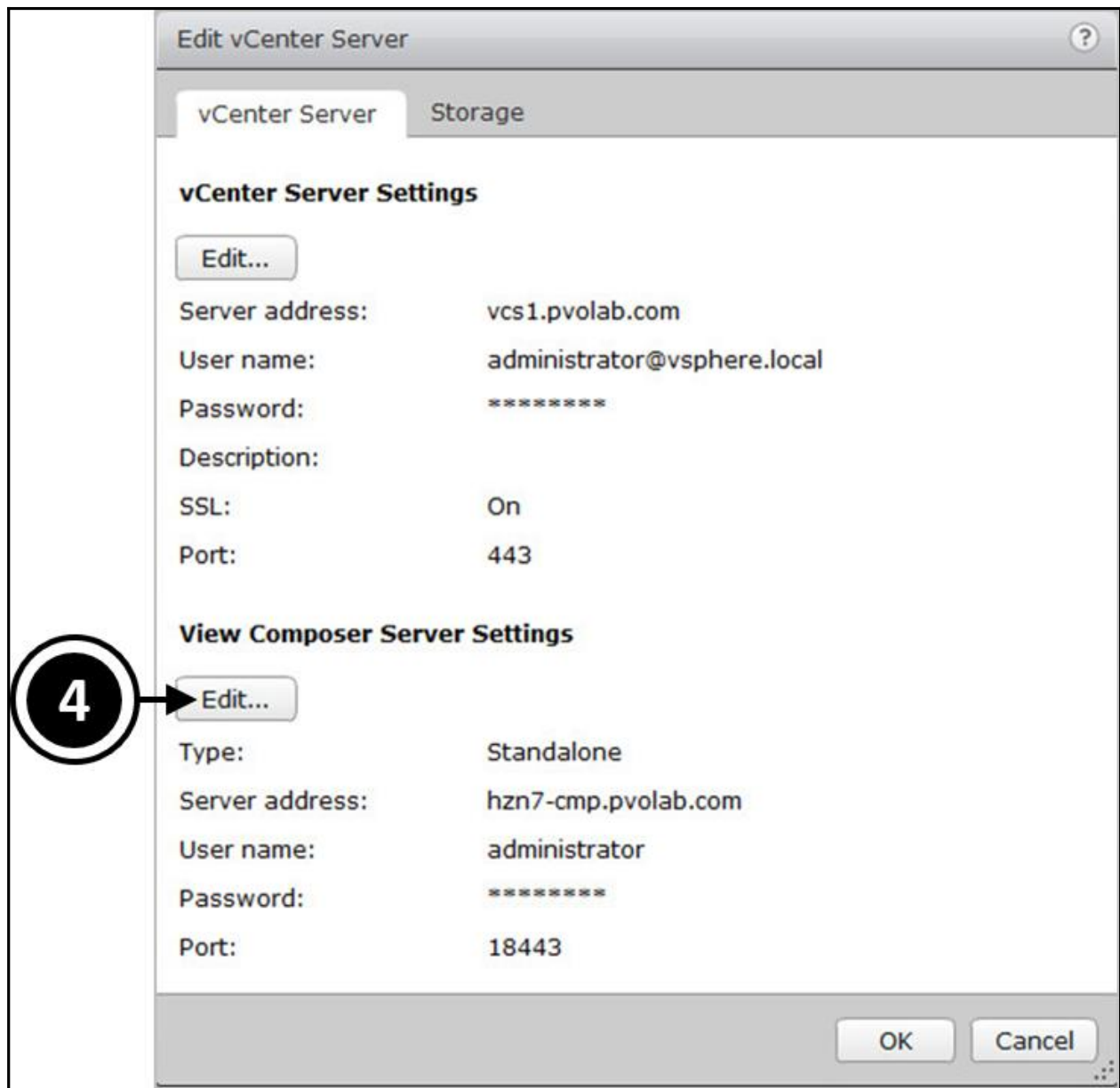
Cancel

The screenshot shows the vSphere Desktop Pools management interface. On the left, the 'Inventory' tree has 'Desktop Pools' selected, indicated by a circled '4'. The main area displays a table of desktop pools. The 'Edit...' button at the top is circled with a '6'. The 'Sessions' column for the 'Win7-Floating-LC' pool is circled with a '5'. The table contains the following data:

ID	Display Name	Type	Source	User ...	vCenter Server	Ent...	En...	Sessions
rdsh_d...	Windows Desktops (RDSH)	RDS Desktop Pool	Remote C	Floating		1	✓	0
Win7-...	Windows 7 Dedicated Full Clone	Automated Desktop P	vCenter	Dedicat	vcs1.pvolab.com	0	✓	0
Win7-...	Windows 7 Dedicated Link Clone	Automated Desktop P	vCenter	Dedicat	vcs1.pvolab.com	1	✓	0
Win7-F...	Windows 7 Floating Full Clone	Automated Desktop P	vCenter	Floating	vcs1.pvolab.com	1	✓	0
Win7-F...	Windows 7 Floating Linked Clone	Automated Desktop P	vCenter	Floating	vcs1.pvolab.com	1	✓	0
Win7-...	Windows 7 Manual Pool	Manual Desktop Pool	vCenter	Dedicat	vcs1.pvolab.com	0	✓	0









Edit vCenter Server

### View Composer Settings

Do not use View Composer

View Composer co-installed with vCenter Server

Choose this if View Composer is installed on the same server as vCenter

Port:

Standalone View Composer Server

Choose this if View Composer is installed on a separate server from vCenter

Server address:

User name:

Password:

Port:

---

### Domains

← **5**

**Edit vCenter Server**

**View Composer Settings**

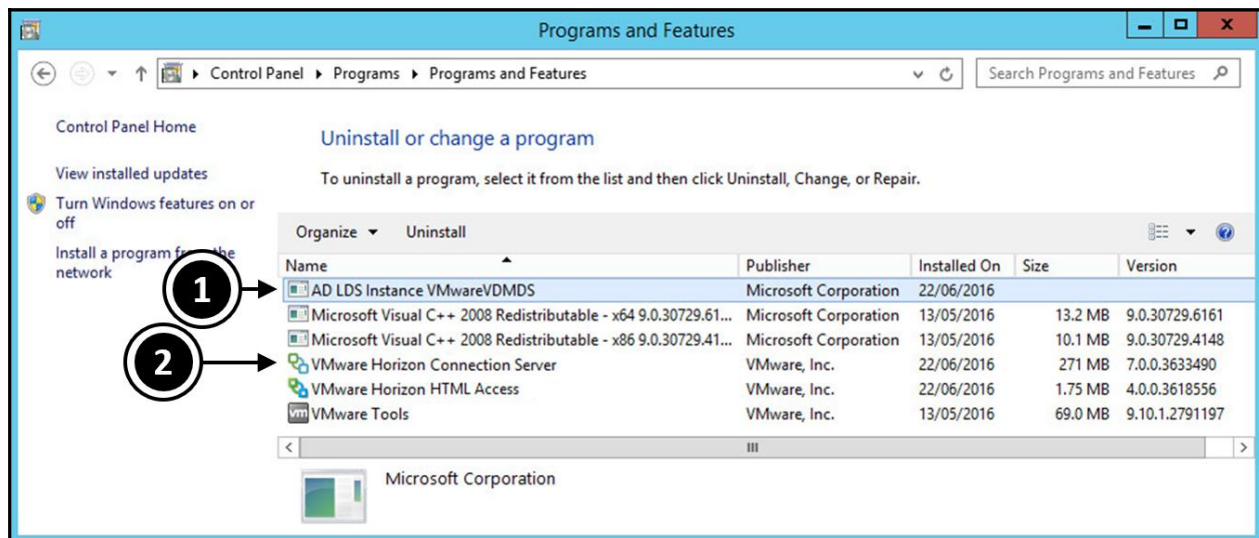
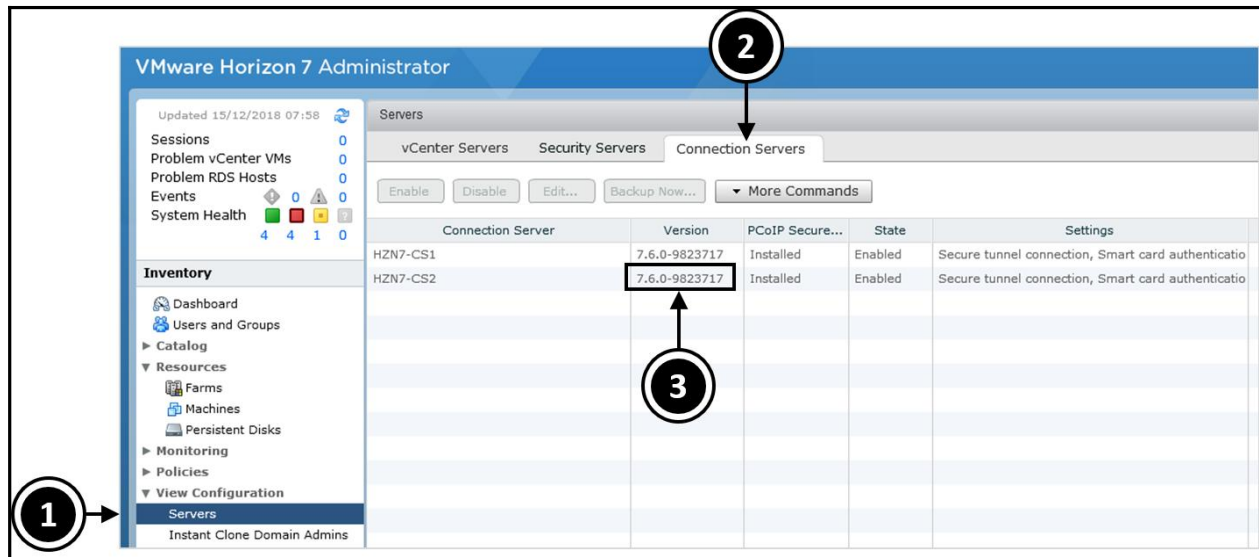
Do not use View Composer  
 View Composer co-installed with vCenter Server  
 Choose this if View Composer is installed on the same server as vCenter  
 Port:

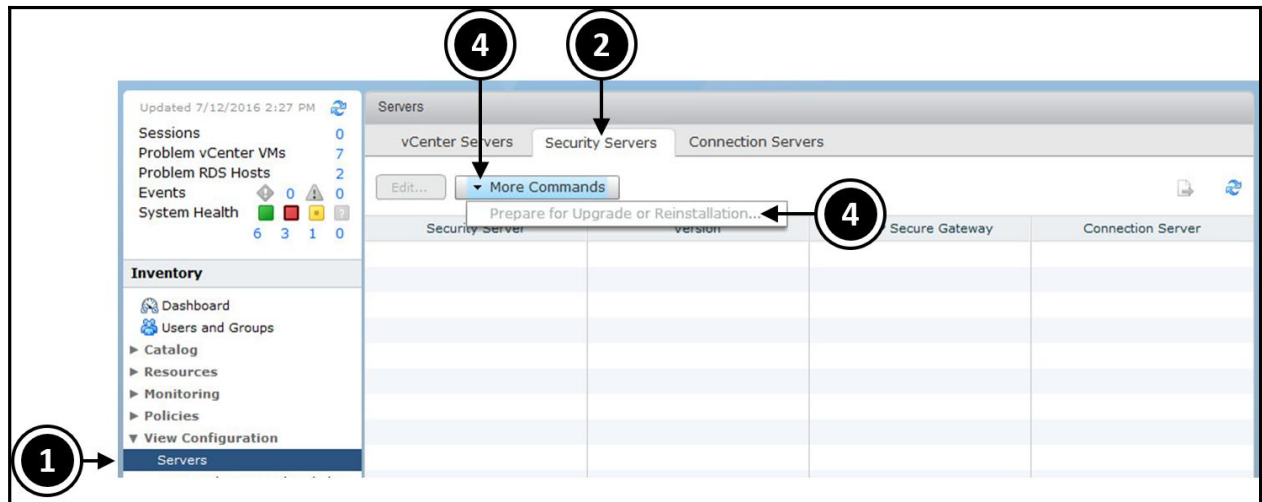
Standalone View Composer Server  
 Choose this if View Composer is installed on a separate server from vCenter  
 Server address:   
 User name:   
 Password:   
 Port:

---

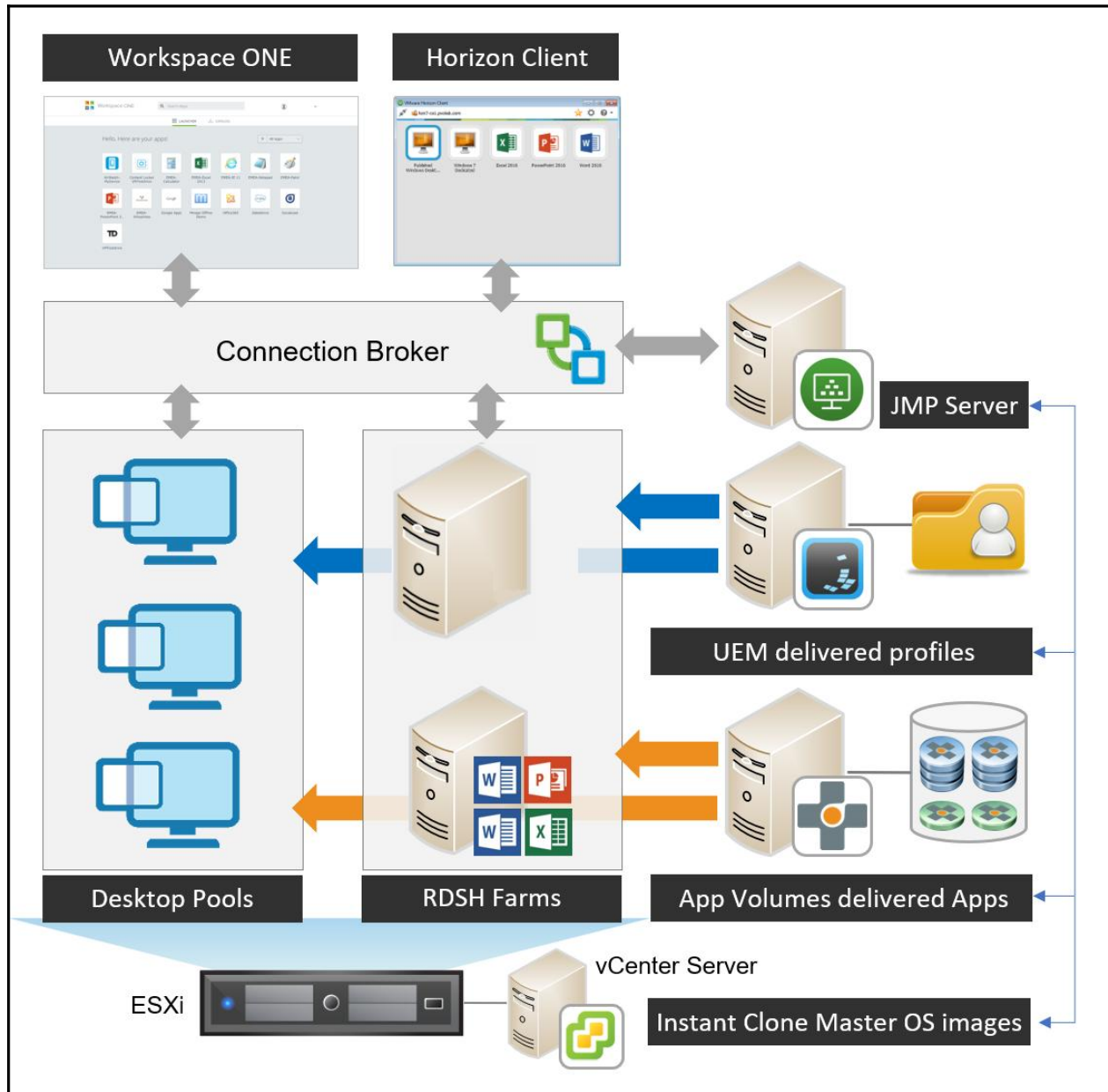
**Domains**

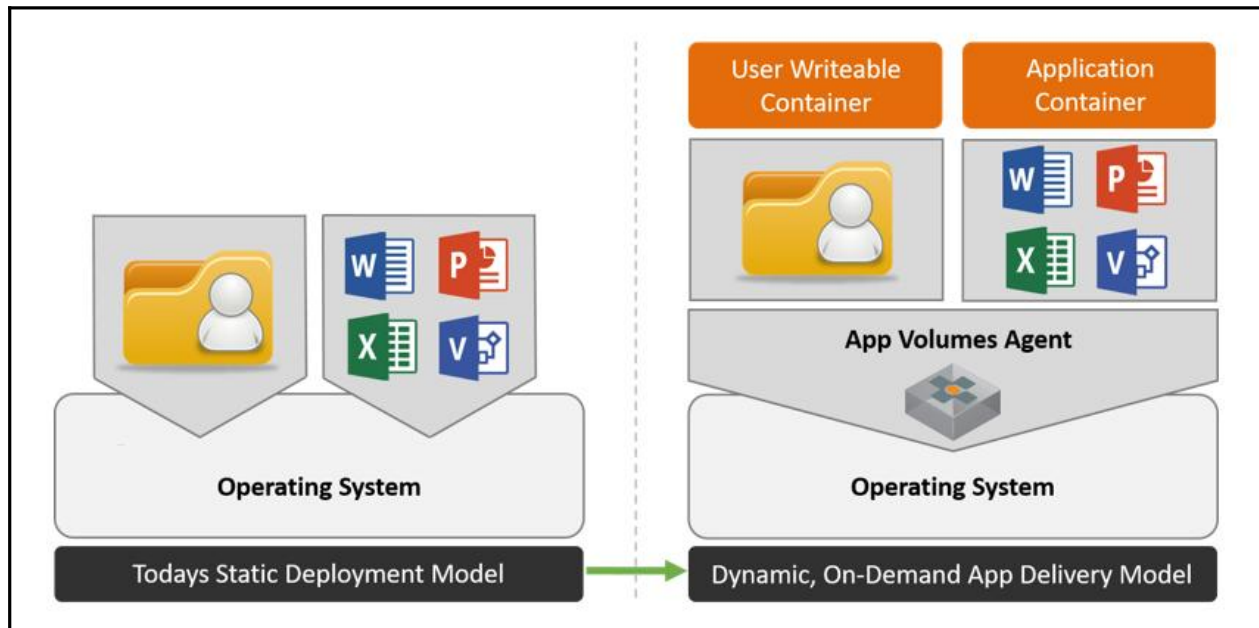
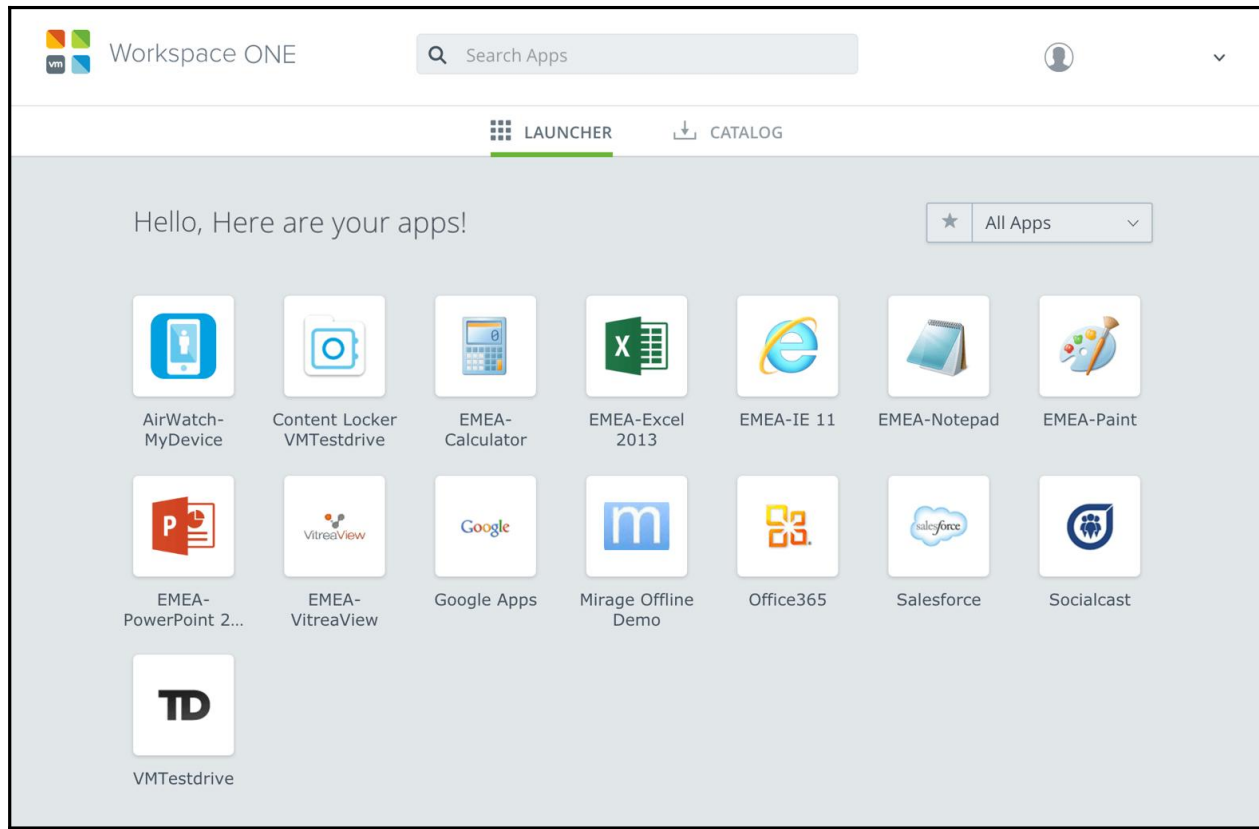
Domains	User	Desktop Pool
pvolab.com	administrator	Win7-Floating-LC, Win7-D

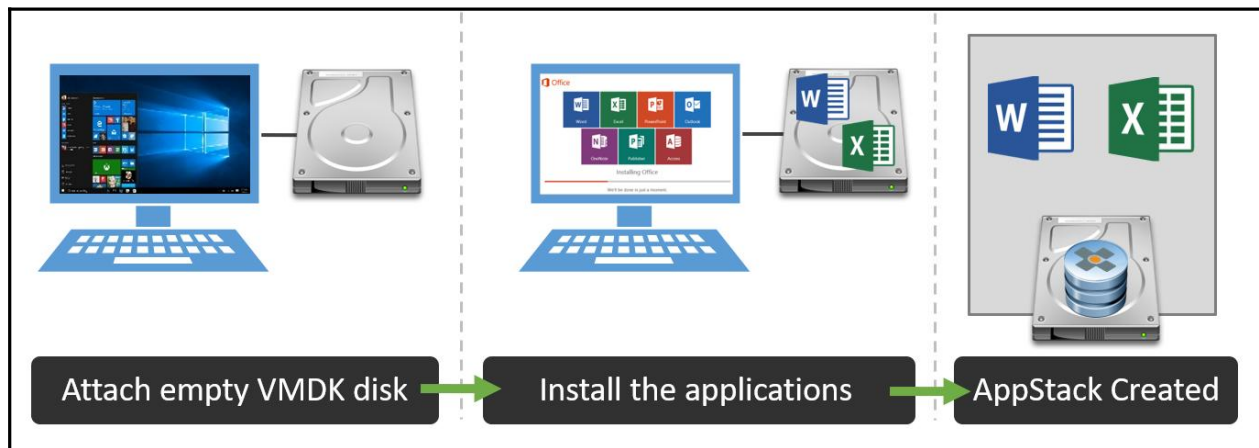
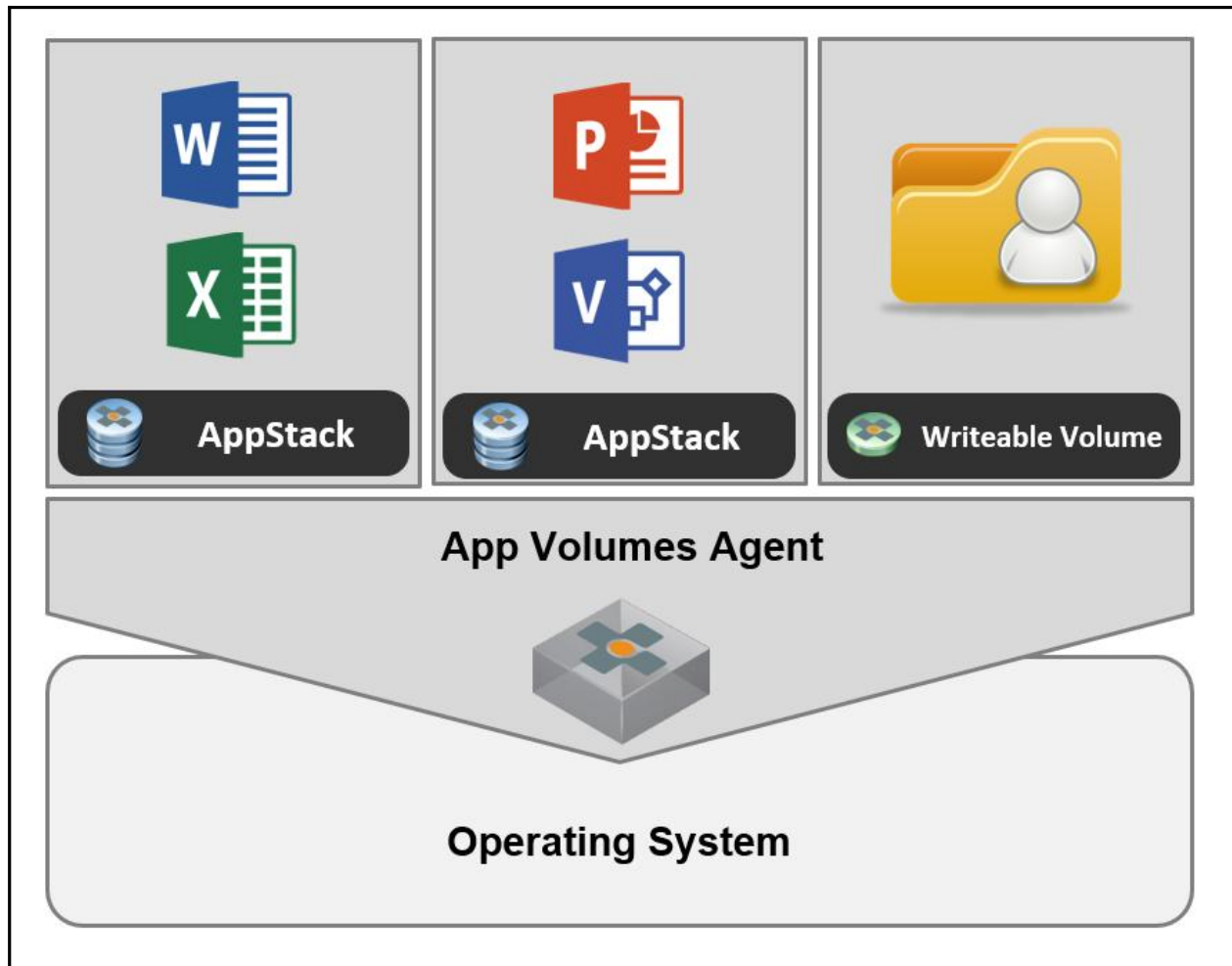


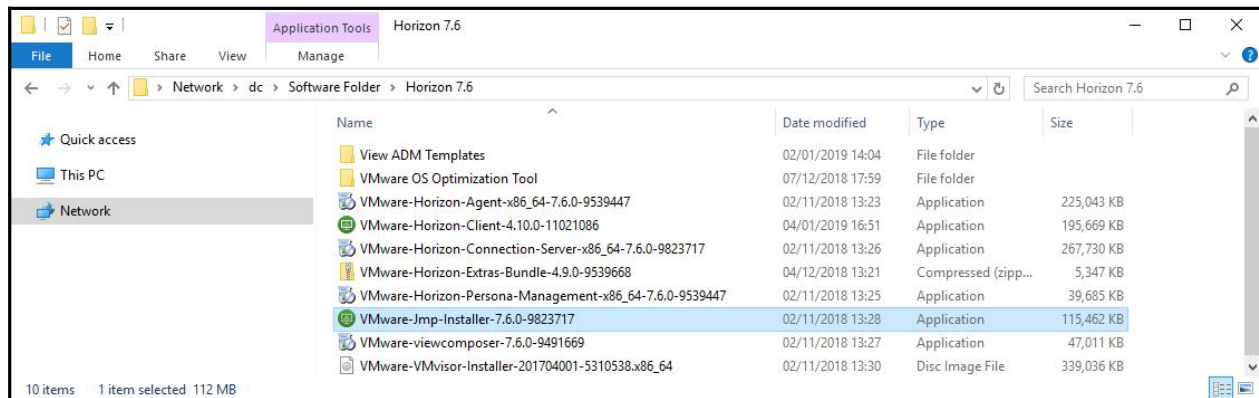
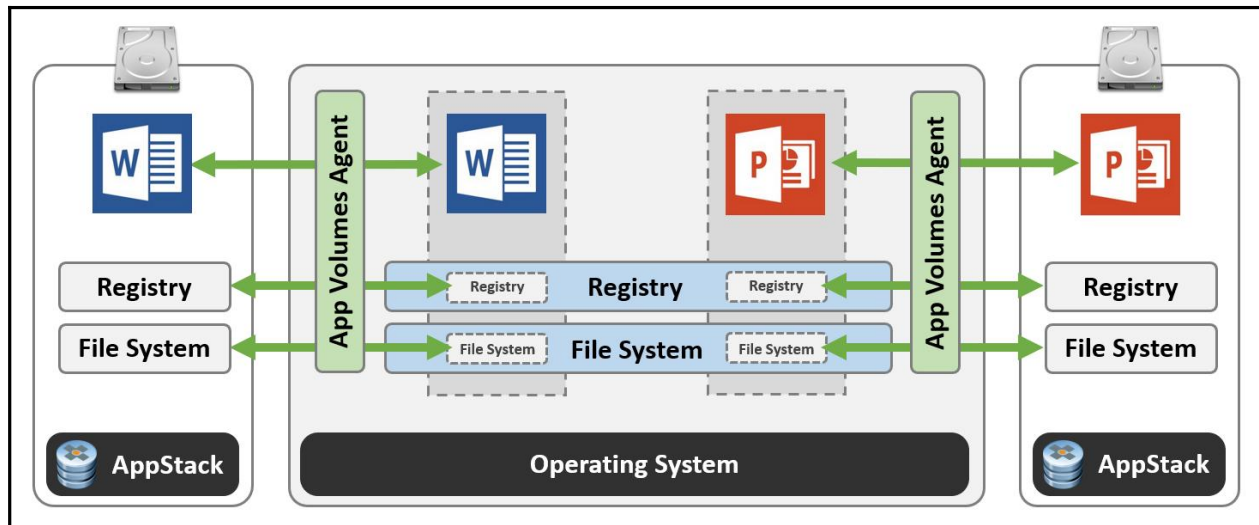


# Chapter 14: JMP and VMware Horizon 7 Deployment Considerations

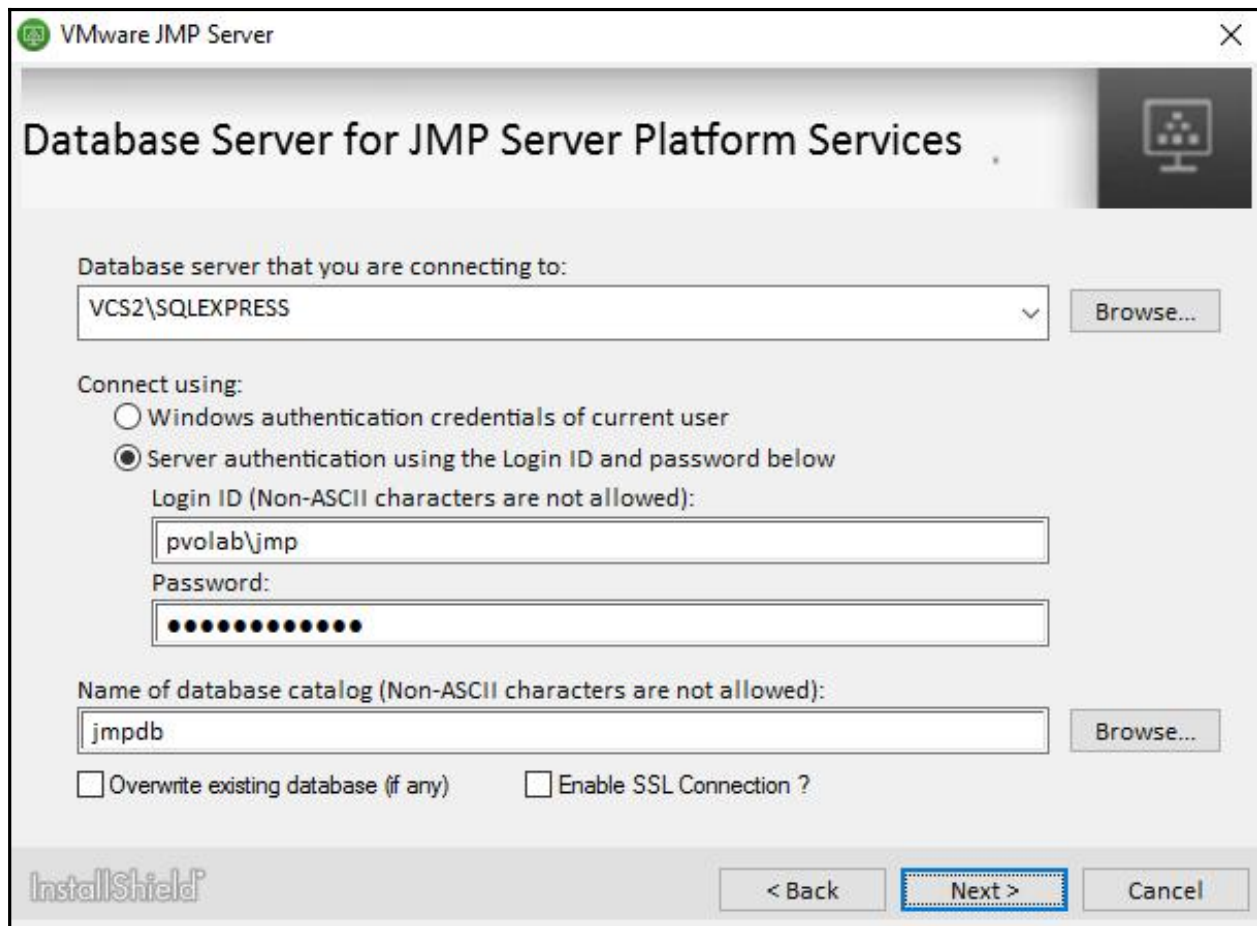


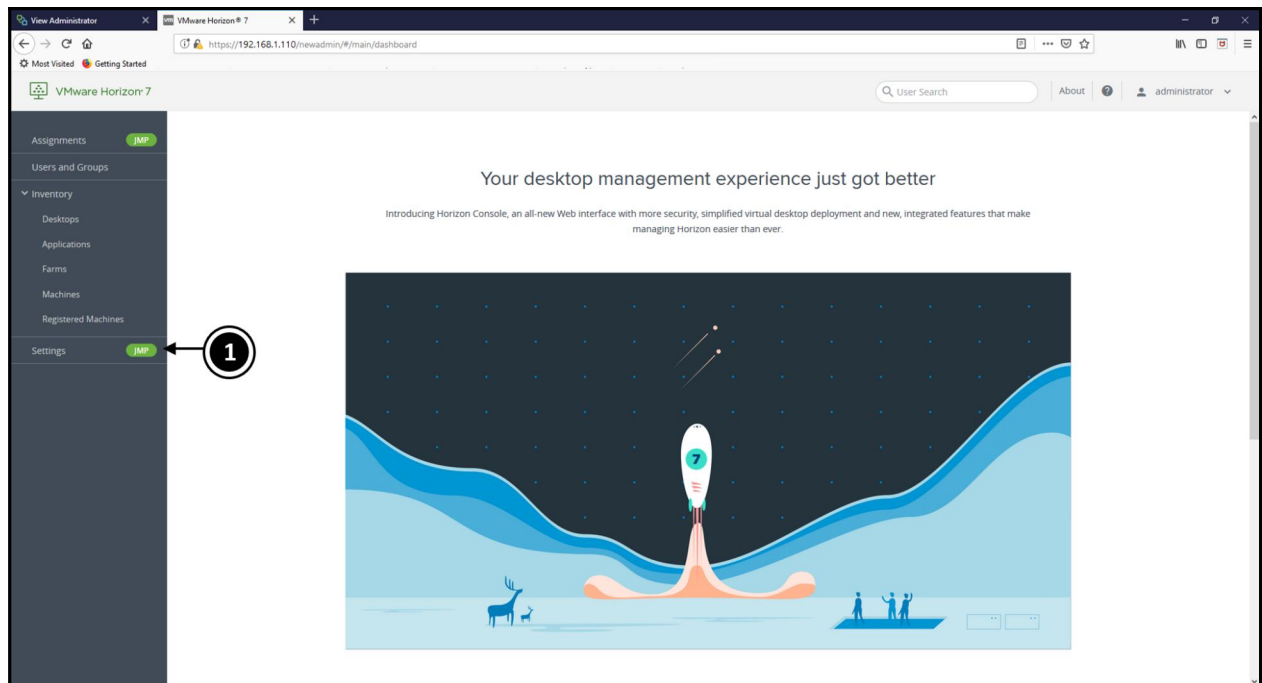
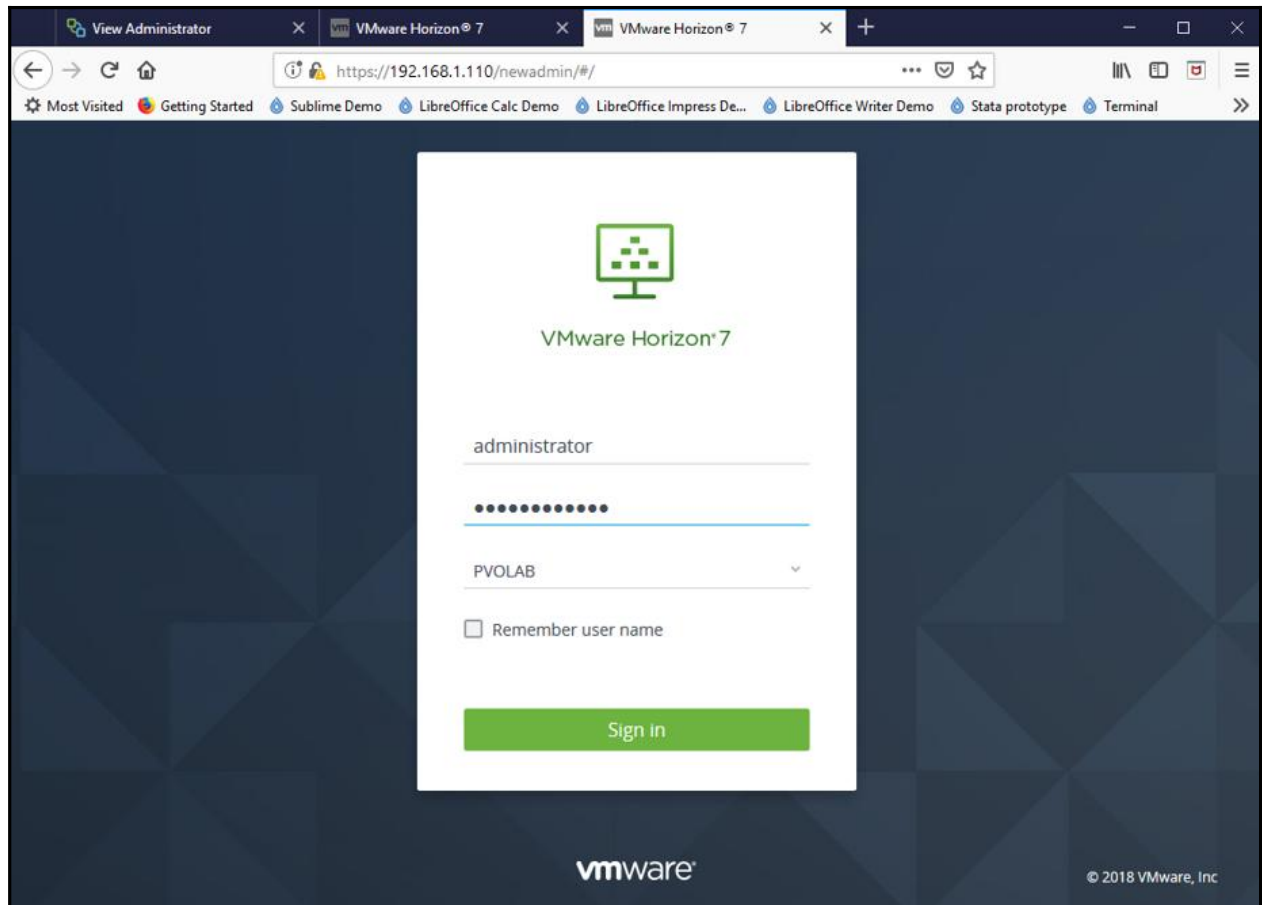


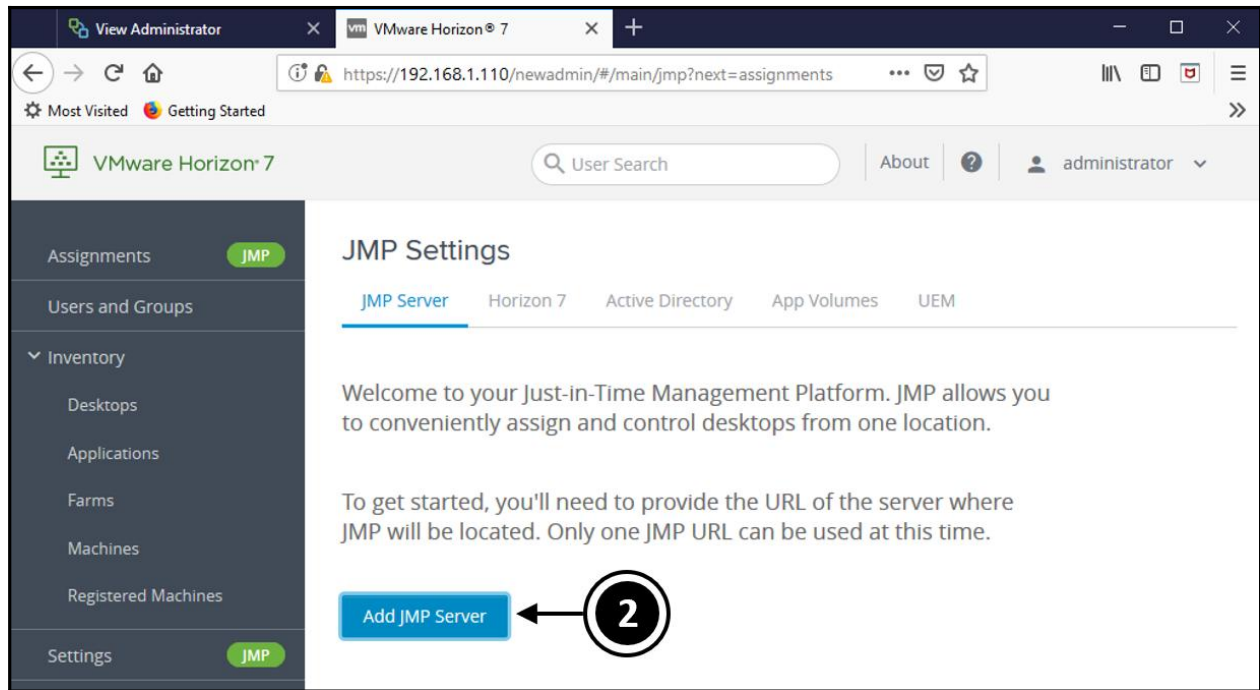












## Add JMP Server

\* JMP Server URL ⓘ \* Required Field

Cancel Save

VMware Horizon 7

User Search

About ? administrator

Assignments **JMP**

Users and Groups

Inventory

- Desktops
- Applications
- Farms
- Machines
- Registered Machines

Settings **JMP**

## JMP Settings

JMP Server Horizon 7 Active Directory App Volumes UEM

JMP server is validated! ✓

JMP Server URL  
https://jmp.pvolab.com

Edit

To complete the JMP set up, please have the URL, user name, and password for the following components:

- VMware Horizon® 7 Pod (required)
- Active Directory (required)
- VMware App Volumes (optional)
- VMware User Environment Manager (UEM) File Share (optional)

View Administrator x vm VMware Horizon® 7 x +

https://192.168.1.110/newadmin/#/main/jmp?next=assignments

Most Visited Getting Started

VMware Horizon 7

User Search

About ? administrator

Assignments **JMP**

Users and Groups

Inventory

- Desktops
- Applications
- Farms
- Machines
- Registered Machines

Settings **JMP**

## JMP Settings

JMP Server Horizon 7 Active Directory App Volumes UEM

Add Credentials

Your Horizon service account is required for JMP. Click Add to enter the Horizon URL and service account credentials. The Horizon URL can't be changed once it's validated.

## Edit Horizon

Connection Server URL ⓘ

\* Required Field

\* Service Account User Name ⓘ

\* Service Account Password ⓘ

\* Service Account Domain ⓘ

The screenshot shows a web browser window with the VMware Horizon 7 administrator interface. The browser's address bar shows the URL `https://192.168.1.110/newadmin/#/main/jmp?next=assignments`. The page title is "JMP Settings". On the left, a navigation sidebar includes "Assignments" (with a "JMP" badge), "Users and Groups", "Inventory" (with a dropdown arrow), "Desktops", "Applications", "Farms", "Machines", "Registered Machines", and "Settings" (with a "JMP" badge). The main content area has tabs for "JMP Server", "Horizon 7", "Active Directory", "App Volumes", and "UEM". The "Active Directory" tab is selected. Below the tabs is an "Add" button. Underneath is a table with three columns: "NETBIOS Name", "DNS Name", and "Bind User Name". Below the table, a text instruction reads: "Click Add to enter the Active Directory information to use with your JMP settings."

## Add Active Directory

\* NETBIOS Name ⓘ

\* Required Field

PVOLAB

\* DNS Domain Name ⓘ

pvolab.com

\* Protocol ⓘ

LDAP over TLS  LDAPS  LDAP (non-secure)

\* Bind User Name ⓘ

administrator

\* Bind Password ⓘ

\*\*\*\*\*

\* Context ⓘ

DC=pvolab,DC=com

Cancel

Save

The screenshot shows a web browser window with the URL `https://192.168.1.110/newadmin/#/main/jmp?next=assignments`. The page title is "JMP Settings" and the user is logged in as "administrator". The left sidebar contains navigation options: Assignments (JMP), Users and Groups, Inventory (Desktops, Applications, Farms, Machines, Registered Machines), and Settings (JMP). The main content area has tabs for "JMP Server", "Horizon 7", "Active Directory", "App Volumes" (selected), and "UEM". An "Add" button is located above a table with the following structure:

Name	App Volumes URL
Click Add to enter the App Volumes information to use with your JMP settings.	



## Add App Volumes Instance

Name ⓘ

\* Required Field

App Volumes

\* App Volumes Server URL ⓘ

https://app-vol.pvolab.com

\* Service Account User Name ⓘ

administrator

\* Service Account Password ⓘ

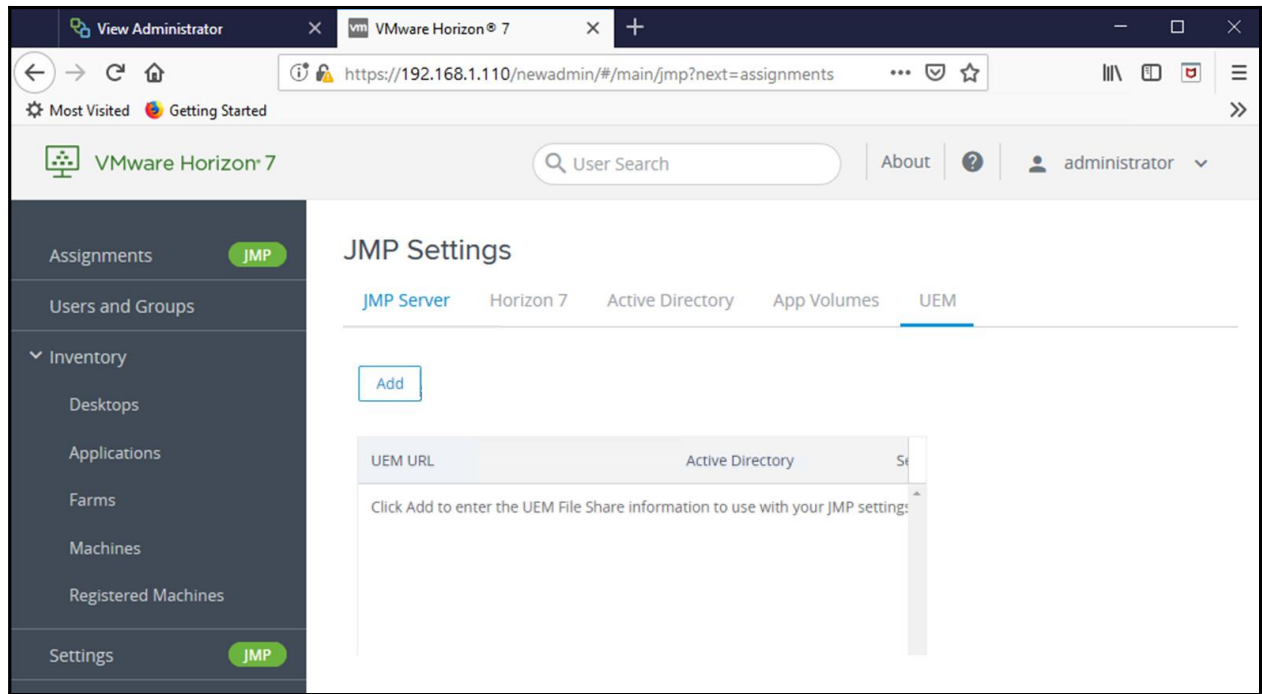
.....

\* Service Account Domain ⓘ

pvolab.com

Cancel

Save



## Add UEM File Share

Click Add to add a UEM File Share. The File Share stores the customization configurations you can later apply to your assignments.

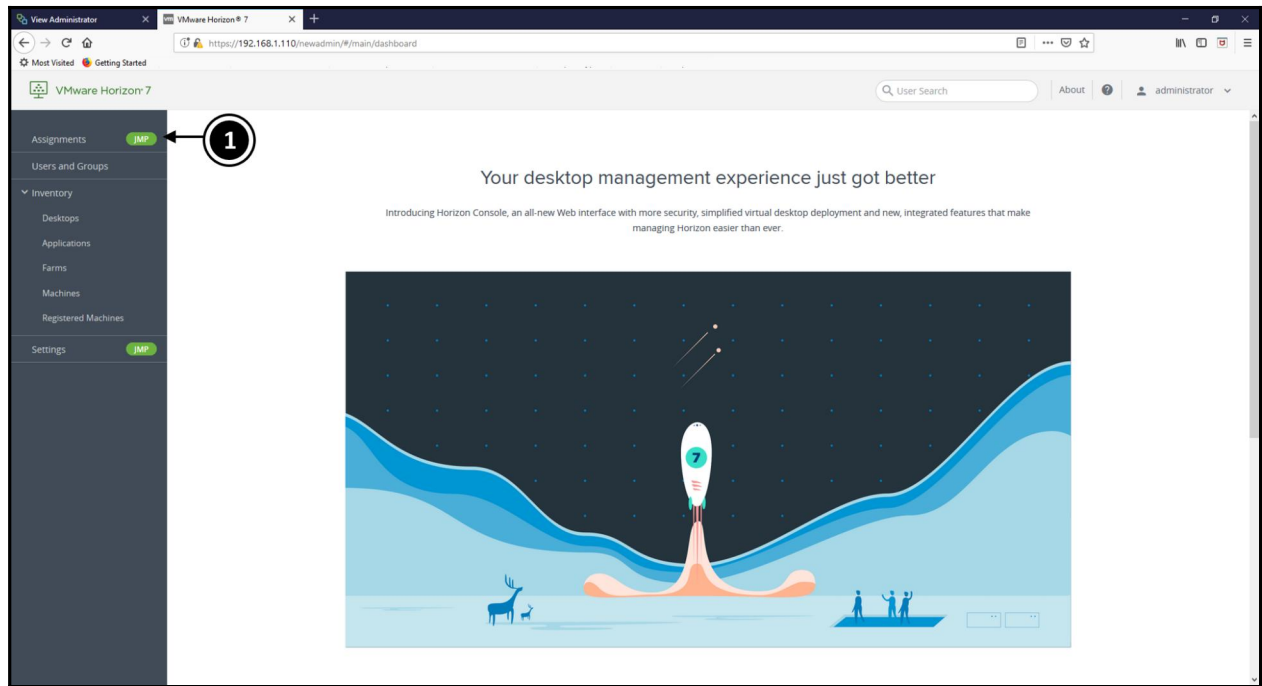
\* File Share UNC Path ⓘ

\* Required Field

\* User Name ⓘ

\* Password ⓘ

\* Active Directory ⓘ



# Chapter 15: Troubleshooting



Machine Group Name	Boot Only Delay	Boot+Login Delay	LOGIN DELAY	DC Discovery	DC Operations	Group Policy Computer	Group Policy User	Group Policy Extensions	Group Policy Scripts	Auth Attempt	Network Providers	User Profile Service	Restore Network	Loading Shell	Update Themes	Update Params	Abnormal Events	Login Count	User Count	Machine Count	Record Count
Virtual Desktops	50.9 sec	104.9 sec	25.0 sec	0.462 sec	0.226 sec	3.882 sec	2.006 sec	0.725 sec	2.290 sec	0.319 sec	2.923 sec	0.033 sec	0.315 sec	0.790 sec	0.027 sec	0.051 sec	11	32	8	5	7,435
Virtual Servers	72.0 sec	91.3 sec	21.4 sec	0.417 sec	0.145 sec	3.590 sec	1.929 sec	0.359 sec	1.542 sec	0.229 sec	2.724 sec	0.699 sec	0.177 sec	6.655 sec	0.025 sec	0.047 sec	30	54	15	9	13,905
DK	51.2 sec	59.0 sec	17.2 sec	0.303 sec	0.016 sec	2.595 sec	0.914 sec	0.089 sec	0.450 sec	0.106 sec	2.580 sec	0.400 sec	0.001 sec	1.525 sec	0.023 sec	0.041 sec	19	22	0	4	6,470
Physical Servers	89.3 sec	99.0 sec	12.0 sec	0.676 sec	0.378 sec	1.560 sec	1.477 sec	---	5.151 sec	0.286 sec	1.277 sec	0.506 sec	1.966 sec	7.782 sec	0.011 sec	0.050 sec	---	28	4	3	6,608
Physical Desktops	45.4 sec	58.9 sec	11.9 sec	0.465 sec	0.107 sec	0.138 sec	0.988 sec	---	0.734 sec	0.102 sec	---	0.472 sec	4.661 sec	11.816 sec	0.023 sec	0.099 sec	172	78	9	8	21,013
Physical Desktops	45.4 sec	58.9 sec	11.9 sec	0.465 sec	0.107 sec	0.138 sec	0.988 sec	---	0.734 sec	0.102 sec	---	0.472 sec	4.661 sec	11.816 sec	0.023 sec	0.099 sec	172	78	9	8	21,013

End Date	Protocol	Session Duration	Session Connect %	Session Disc %	Session Active %	Session Idle %	Session Latency	Total FPS	Image Quality %	Sent Packet Loss %	Recv Packet Loss %	Session IO KBs	Session Sent KBs	Session Recv KBs	Session IO MB	Session Sent MB	Session Recv MB
2019-01-30	PCOIP	50 mins	55.7 %	44.3 %	53.6 %	46.4 %	0.56 ms	2.9 fps	80.0 %	---	---	248.99 KBs	247.50 KBs	1.49 KBs	136.17 MB	135.35 MB	0.82 MB
2019-01-31	PCOIP	497 mins	100.0 %	---	1.2 %	98.8 %	0.74 ms	20.7 fps	80.0 %	---	---	4.56 KBs	2.27 KBs	2.29 KBs	2.66 MB	1.32 MB	1.33 MB
2019-01-29	PCOIP	5 mins	100.0 %	---	---	---	1.00 ms	9.8 fps	80.0 %	---	---	95.09 KBs	93.10 KBs	1.99 KBs	22.29 MB	21.82 MB	0.47 MB
2019-01-25	PCOIP	507 mins	100.0 %	---	7.7 %	92.3 %	1.86 ms	3.4 fps	79.8 %	---	---	2.00 KBs	0.88 KBs	1.12 KBs	1.12 MB	0.49 MB	0.63 MB
2019-01-28	PCOIP	35 mins	100.0 %	---	56.5 %	43.5 %	1.96 ms	4.1 fps	80.0 %	---	0.1 %	7.49 KBs	6.02 KBs	1.47 KBs	3.03 MB	2.43 MB	0.59 MB
2019-01-24	PCOIP	18,771 mins	0.1 %	99.8 %	44.9 %	55.1 %	1.66 ms	8.0 fps	76.9 %	---	---	13.94 KBs	12.21 KBs	1.73 KBs	4.74 MB	4.15 MB	0.59 MB

liquidware Stratusphere

Print | Help | Log Out

Diagnostics Inventory **Advanced**

Search SpotChecks Dashboards **Inspectors** Trends & Top Consumers My Tab Preferences

Users (ID) Machines Login Event Log Applications Process Name Browser Network Remote Display Trace Route Folders Extensions vHosts vMachines Inventory Alerts

Inspector View: Processor | Ready % **GO** Date Range: 00:23 - Today 6 / 6 rows @ 1 secs

Lookup By: Host Name Search Resolution: Host Name Basis Filters Options Export

Graph: Processor | Ready % Table: Processor | Ready % COL SEARCH Limit: 100

vHost Name	CPU Ready %	CPU Ready sec	Record Count	Peak 1 Ready %	Peak 1 Ready ct %	Peak 1 Ready ct	PEAK 2 READY %	Peak 2 Ready ct %	Peak 2 Ready ct	CPU Used %	CPU Limited %	VM Count	Workload Ranking
sevs02.se.lvl.corp	0.32 %	4.28 sec	161	0.39 %	37.9 %	61 ct	0.46 %	13.0 %	21 ct	15.6 %	-- %	3 vms	2
sevs03.se.lvl.corp	0.16 %	2.86 sec	163	0.20 %	30.7 %	50 ct	0.24 %	10.4 %	17 ct	9.8 %	-- %	4 vms	4
ilcvs03.lwidemocenter.local	0.08 %	6.45 sec	636	0.12 %	42.8 %	272 ct	0.14 %	16.4 %	104 ct	5.0 %	-- %	20 vms	3
ilcvs02.lwidemocenter.local	0.11 %	12.83 sec	159	0.13 %	26.9 %	46 ct	0.14 %	8.8 %	14 ct	9.7 %	-- %	21 vms	5
sevs01.se.lvl.corp	0.07 %	1.78 sec	163	0.07 %	17.8 %	29 ct	0.08 %	3.7 %	6 ct	13.1 %	-- %	6 vms	1
sevs04.se.lvl.corp	0.05 %	2.91 sec	163	0.06 %	4.9 %	8 ct	-- %	-- %	-- ct	5.1 %	-- %	13 vms	6

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Print | Help | Log Out

Diagnostics Inventory **Advanced**

Search SpotChecks Dashboards **Inspectors** Trends & Top Consumers My Tab Preferences

Users (ID) Machines Login Event Log Applications Process Name Browser Network Remote Display Trace Route Folders Extensions vHosts vMachines Inventory Alerts

Inspector View: Custom (Click to select default View) **GO** Date Range: 00:23 - Today 6 / 6 rows (cached)

Lookup By: Host Name Search Resolution: Host Name Basis Filters Options Export

Graph: Storage | IOPS Table: Details COL SEARCH Limit: 100

vHost Name	VM Count	Workload Ranking	CPU Used MHz	CPU Used %	CPU Ready %	CPU Ready sec	CPU Cntop sec	CPU Latency %	CPU Limited %	Memory Active MB	Memory Active %	Memory Balloon MB	Memory Swap-in KBps	Memory Swap-out KBps	Swap Used MB	Swap Used %	Storage Latency ms	STORAGE IOPS	Storage IO KBs
sevs01.se.lvl.corp	6 vms	1	2,380 MHz	13.1 %	0.07 %	1.78 sec	0.01 sec	0.08 %	-- %	4,073 MB	49.2 %	-- MB	-- KBps	-- KBps	-- MB	-- %	-- ms	13.6 iops	220.6 KBs
sevs02.se.lvl.corp	3 vms	2	-- MHz	15.6 %	0.32 %	4.28 sec	-- sec	-- %	-- %	-- MB	35.6 %	-- MB	-- KBps	-- KBps	-- MB	-- %	0.88 ms	13.2 iops	194.8 KBs
sevs04.se.lvl.corp	13 vms	6	1,541 MHz	5.1 %	0.05 %	2.91 sec	0.04 sec	0.03 %	-- %	8,599 MB	46.3 %	-- MB	-- KBps	-- KBps	-- MB	-- %	0.58 ms	12.7 iops	115.4 KBs
sevs03.se.lvl.corp	4 vms	4	1,547 MHz	9.7 %	0.16 %	2.85 sec	0.07 sec	0.15 %	-- %	1,105 MB	37.2 %	-- MB	-- KBps	-- KBps	-- MB	-- %	-- ms	12.6 iops	176.4 KBs
ilcvs03.lwidemocenter.local	20 vms	3	2,102 MHz	5.0 %	0.09 %	6.48 sec	-- sec	0.21 %	-- %	4,859 MB	44.6 %	-- MB	-- KBps	-- KBps	34.7 MB	-- %	0.02 ms	1.8 iops	10.1 KBs
ilcvs02.lwidemocenter.local	21 vms	5	-- MHz	9.7 %	0.11 %	12.82 sec	-- sec	-- %	-- %	-- MB	59.2 %	-- MB	-- KBps	-- KBps	-- MB	-- %	2.46 ms	1.4 iops	6.9 KBs

Updated 28/12/2018 10:54

Sessions 0

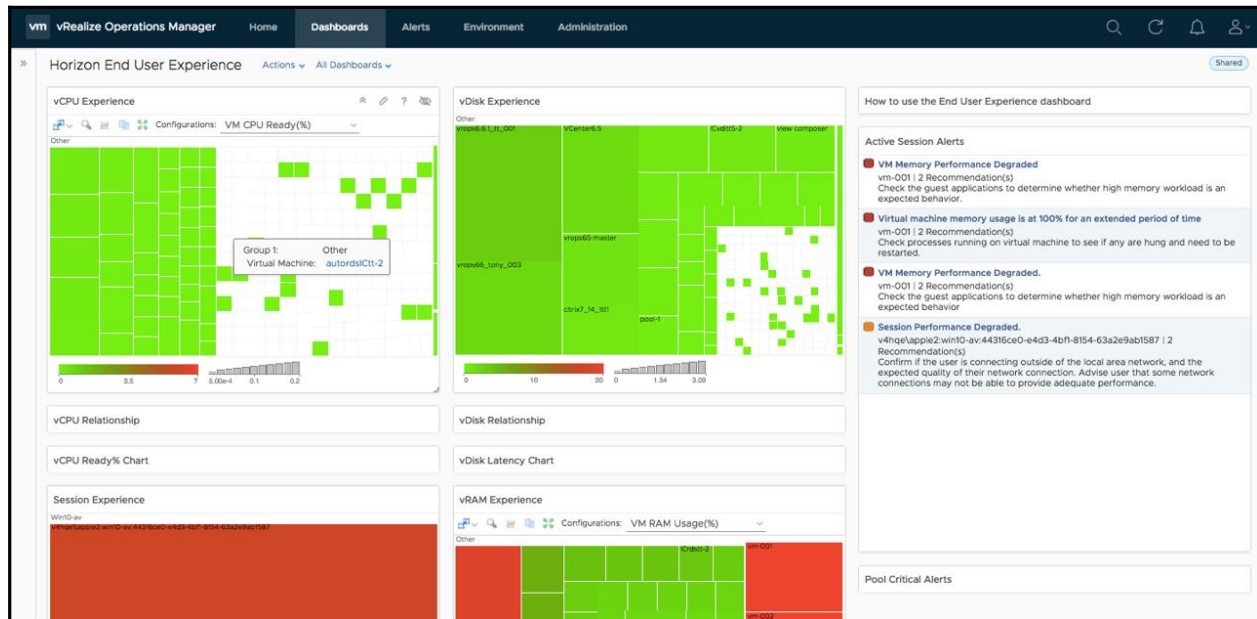
Problem vCenter VMs 0

Problem RDS Hosts 0

Events 0 0

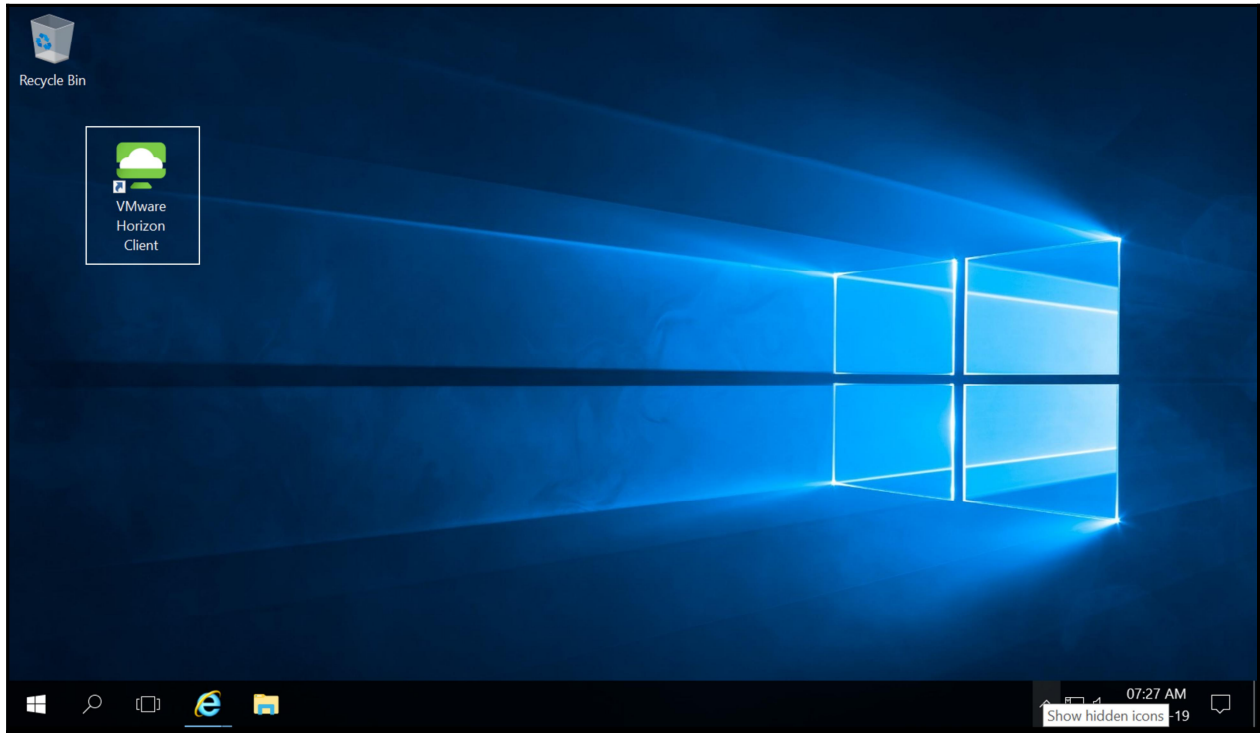
System Health 5 4 1 0

Command Parameter	Output / Result
--findDesktop	Finds a desktop pool
--enableDesktop	Enables a desktop pool
--disableDesktop	Disables a desktop pool
--findMachine	Finds a machine
--removeMachine	Removes a machine from a desktop pool. Before removing a machine, ViewDbChk prompts the user to disable the desktop pool. After removing the machine, ViewDbChk prompts the user to re-enable the desktop pool.
--scanMachines	Searches for machines that are in an error or cloneerror state or have missing virtual machines, lists the problem machines grouped by desktop pool, and gives the option to remove the machines. Before removing a machine, ViewDbChk prompts the user to disable the desktop pool. After removing all erroneous machines in a desktop pool, ViewDbChk prompts the user to re-enable the desktop pool.
--help	Displays the syntax of ViewDbChk
--desktopName desktop_name	Specifies the desktop pool name
--machineName machine_name	Specifies the machine name
--limit maximum_deletes	Limits the number of machines that ViewDbChk can remove. The default is 1.
--force	Forces machine removal without user confirmation
--noErrorCheck	Forces the removal of machines that have no errors
--verbose	Enables verbose logging



---

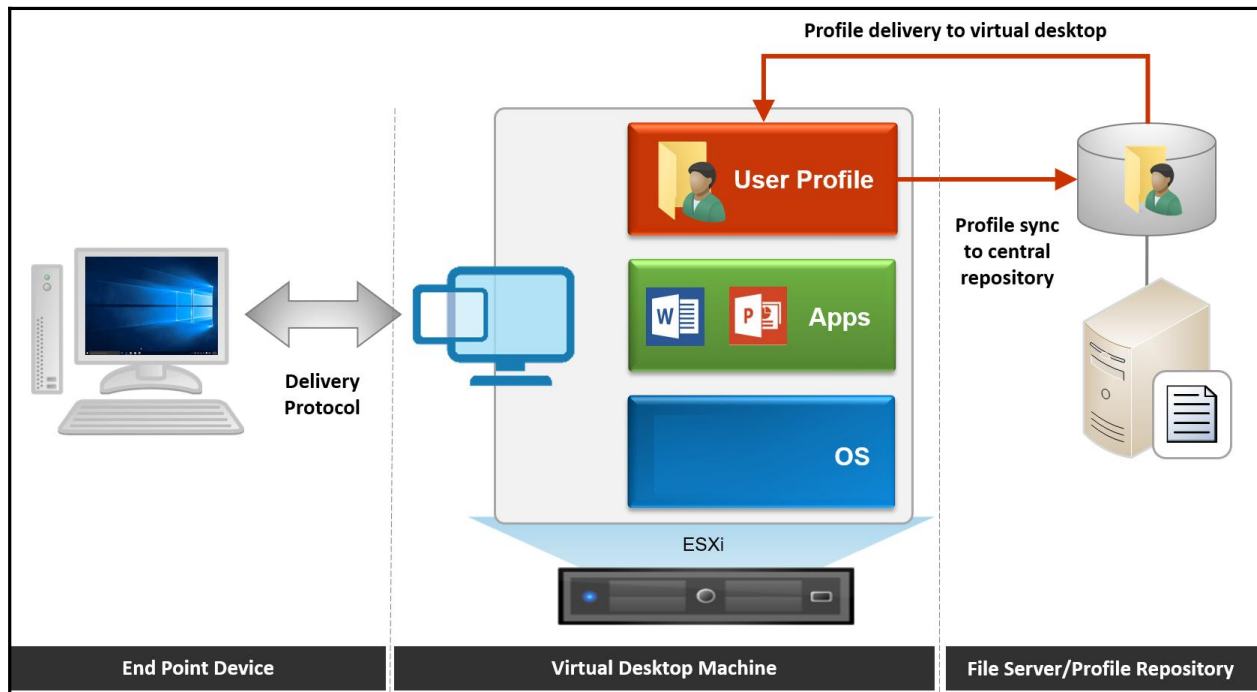
# Chapter 16: What is New in Horizon 7

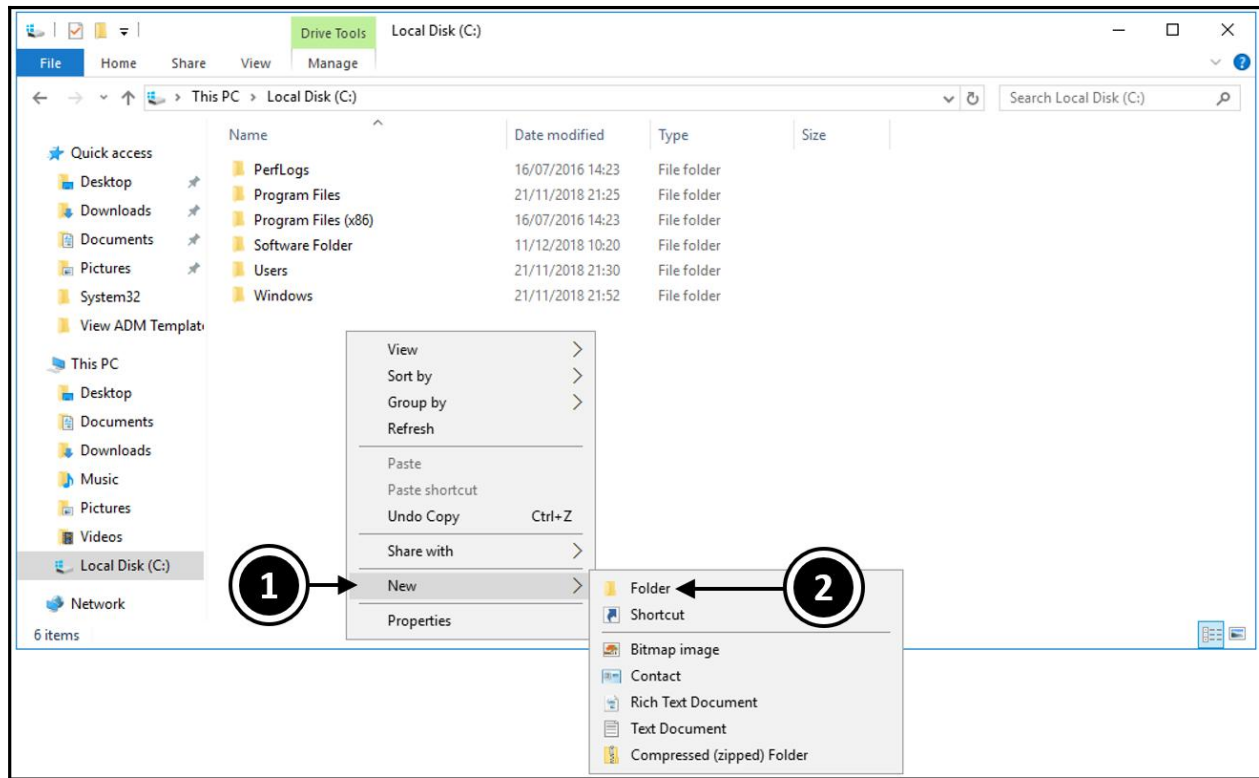




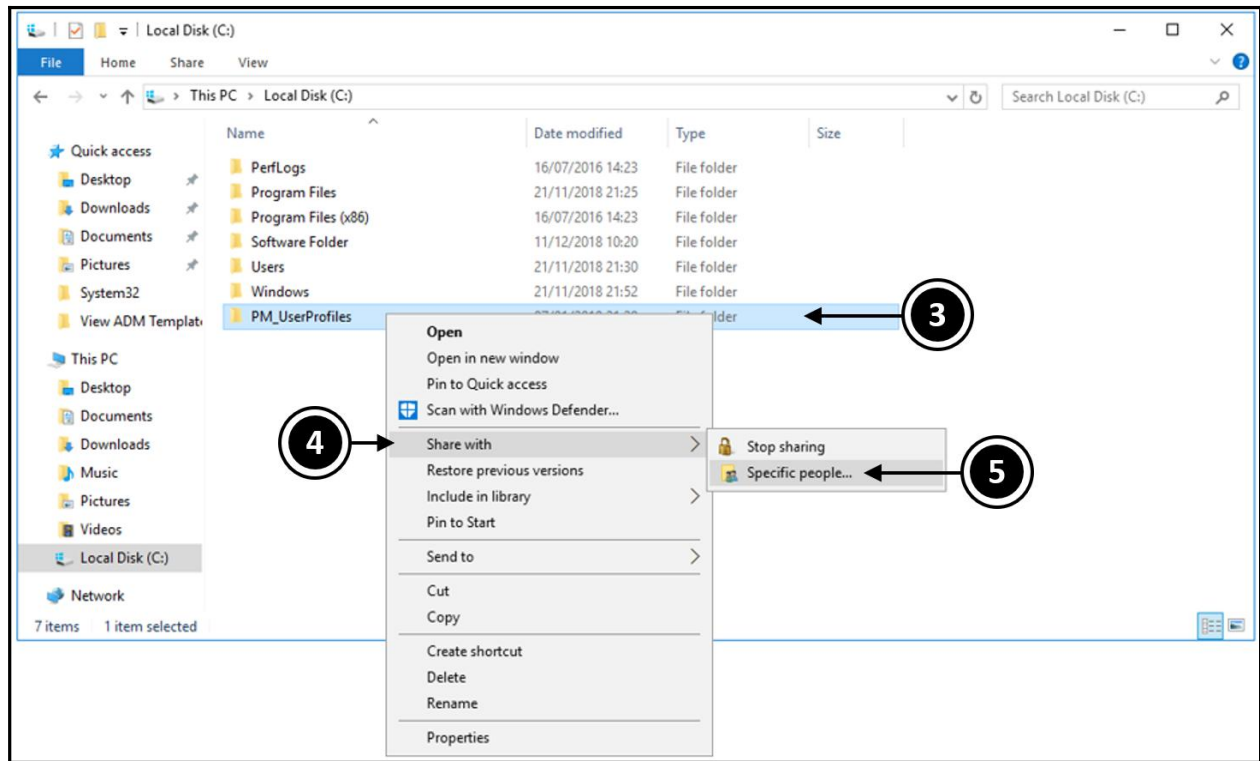
# Chapter 17: Managing the End User Environment in Horizon

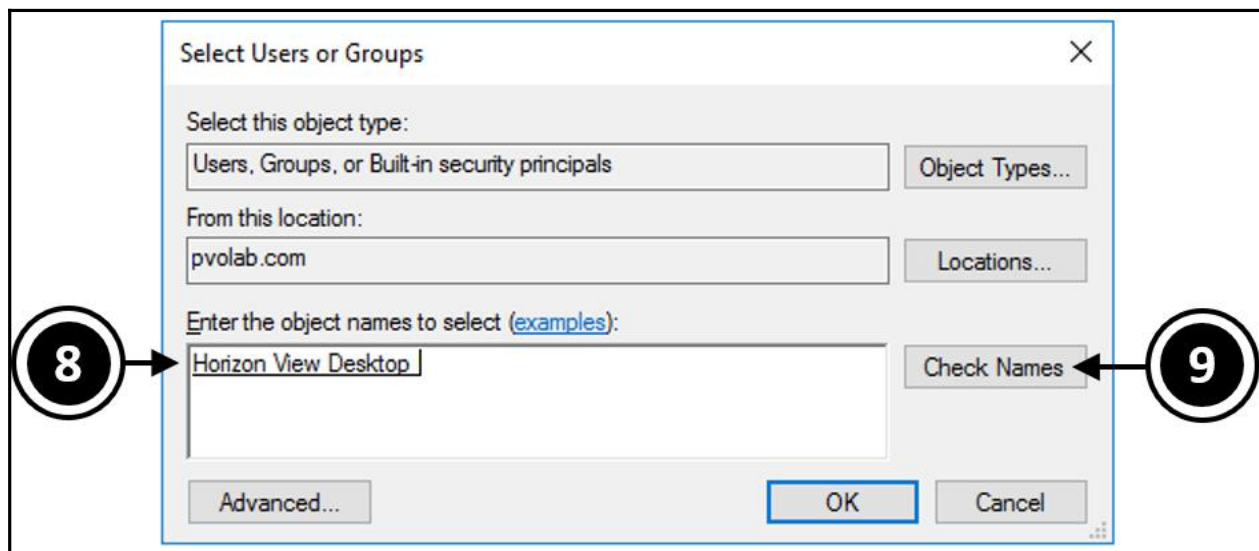
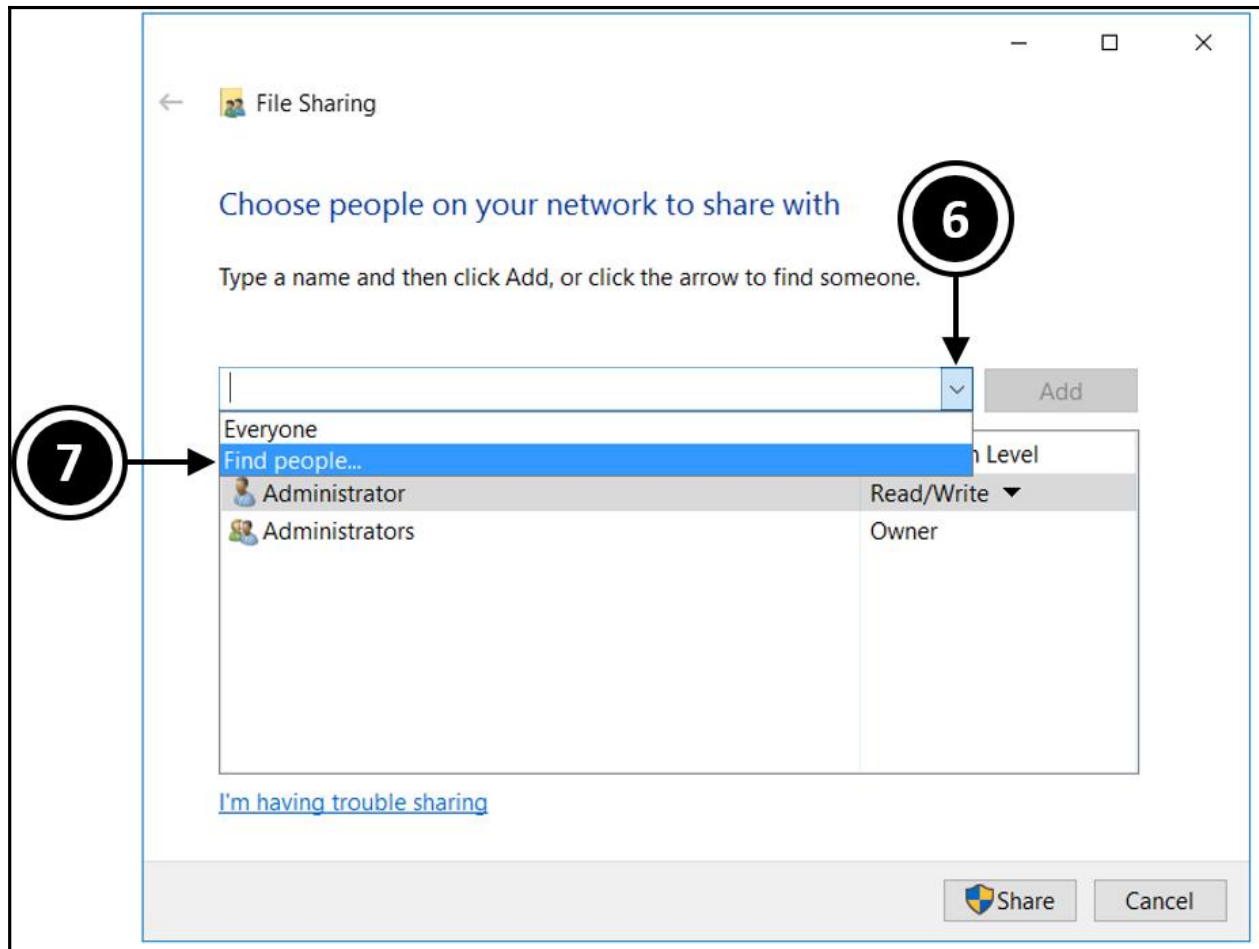
Windows Desktop OS Version	Windows Server OS Version	Profile Version
Windows NT 4.0 to Windows Vista	Windows NT Server 4.0 - Windows Server 2008	Version 1 Profile
Windows 7	Windows Server 2008 R2	Version 2 Profile
Windows 8 to Windows 8,1	Windows Server 2012 - 2012 R2	Version 3 Profile
Windows 8.1	Windows Server 2012 R2	Version 4 Profile
Windows 10 (1507 to 1511)	Windows Server 2016	Version 5 Profile
Windows 10 (1607 and later)		Version 6 Profile

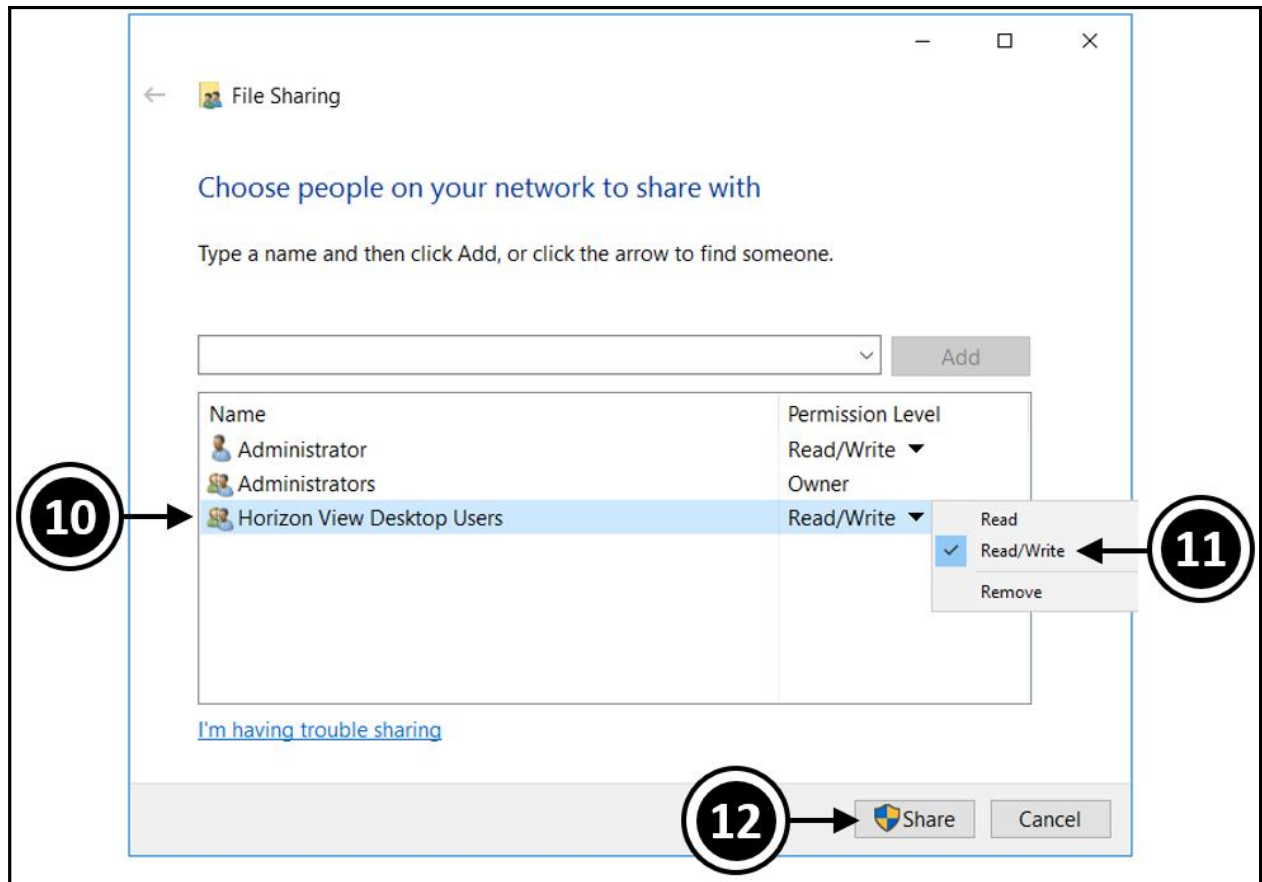


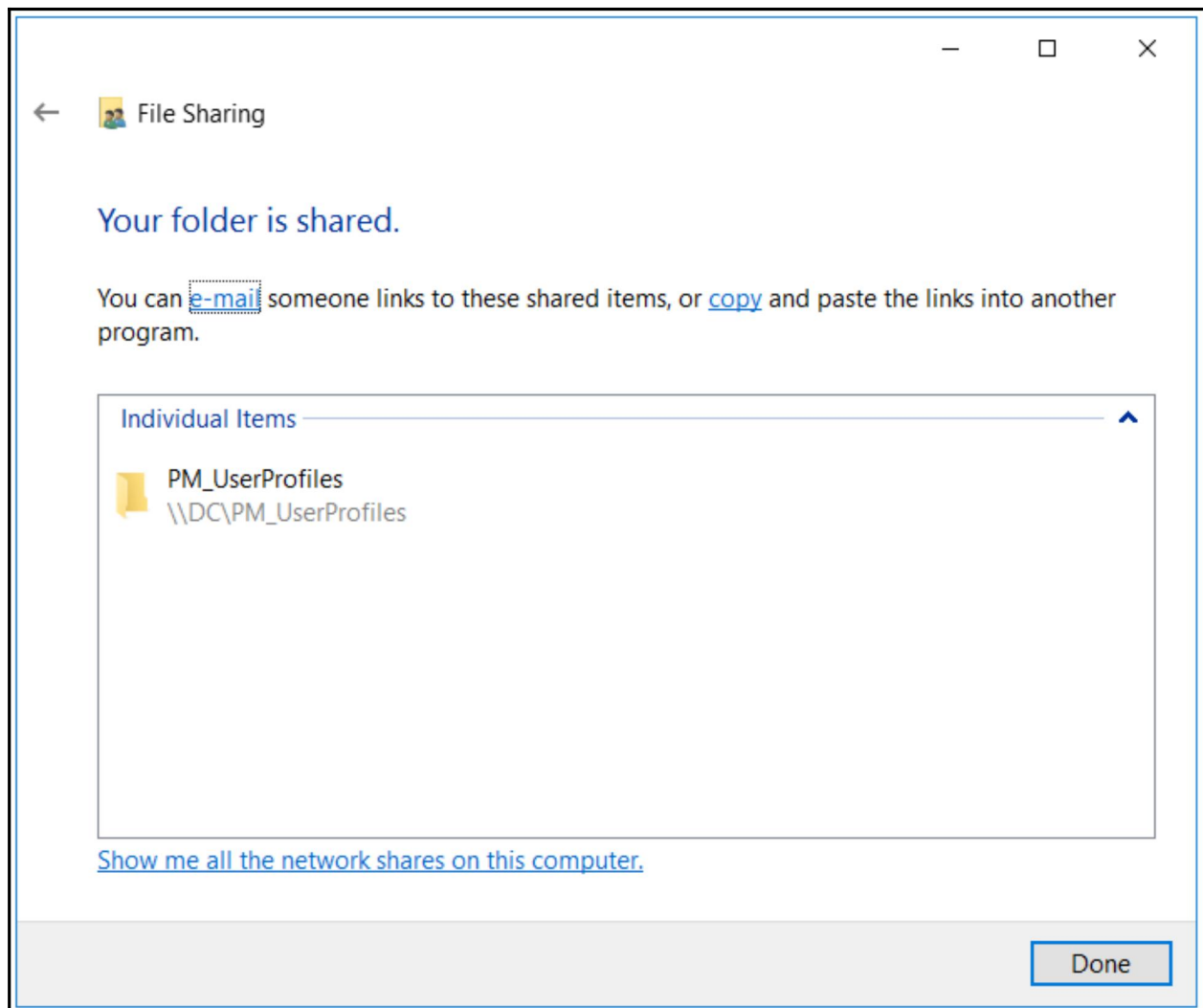


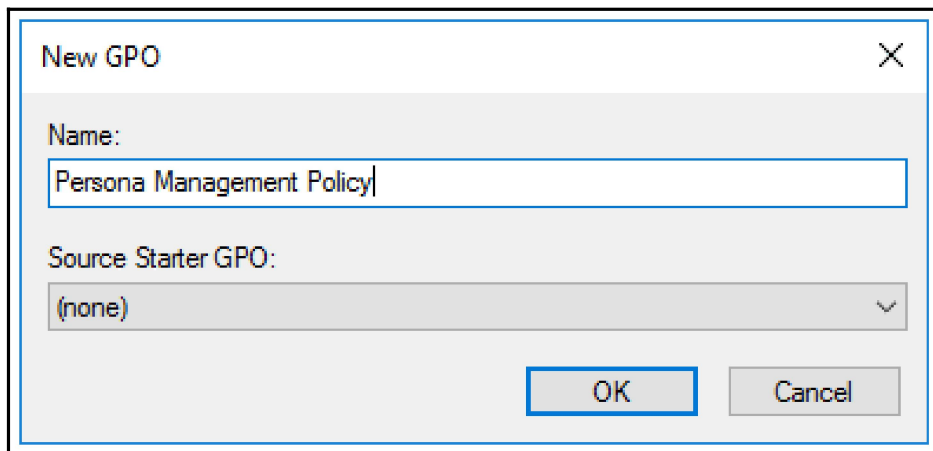
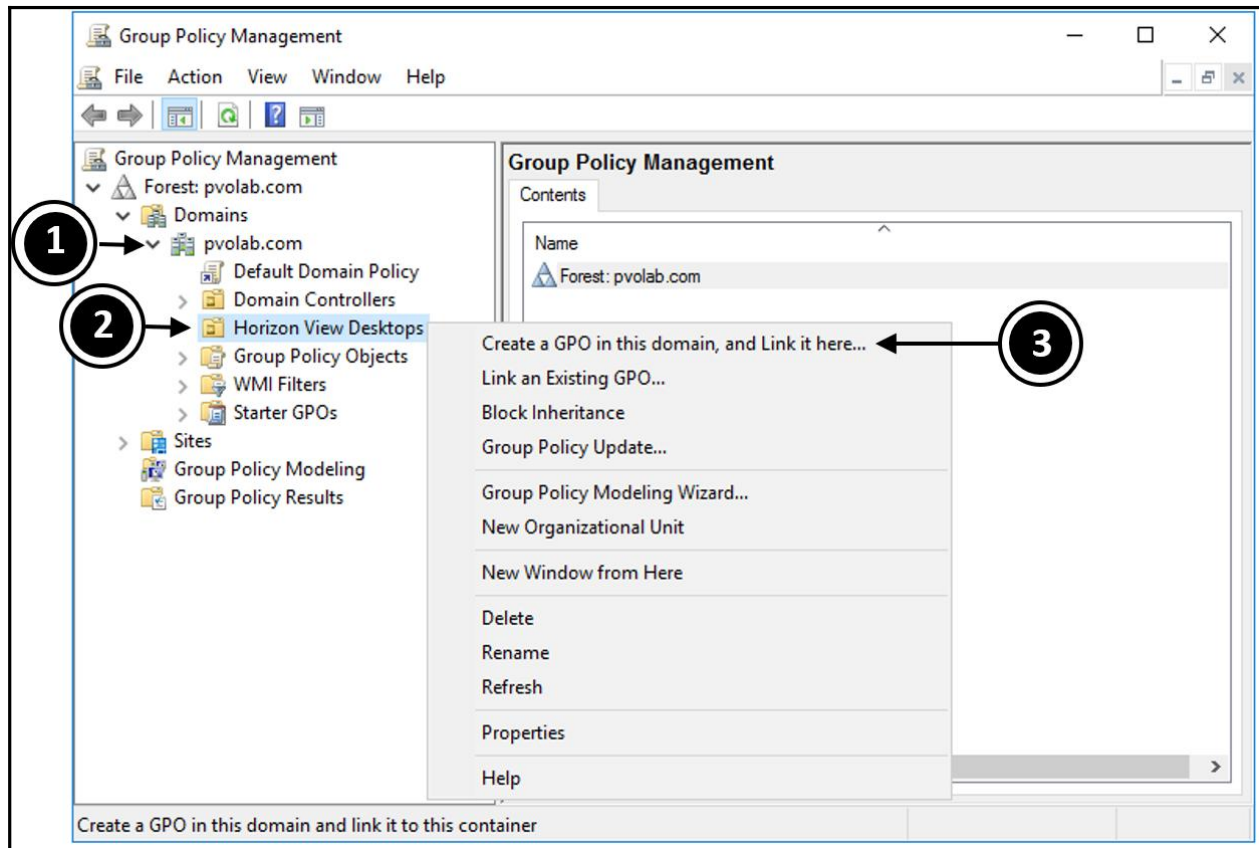
Name	Date modified	Type
PerfLogs	16/07/2016 14:23	File folder
Program Files	21/11/2018 21:25	File folder
Program Files (x86)	16/07/2016 14:23	File folder
Software Folder	11/12/2018 10:20	File folder
Users	21/11/2018 21:30	File folder
Windows	21/11/2018 21:52	File folder
PM_UserProfiles	07/01/2019 21:29	File folder

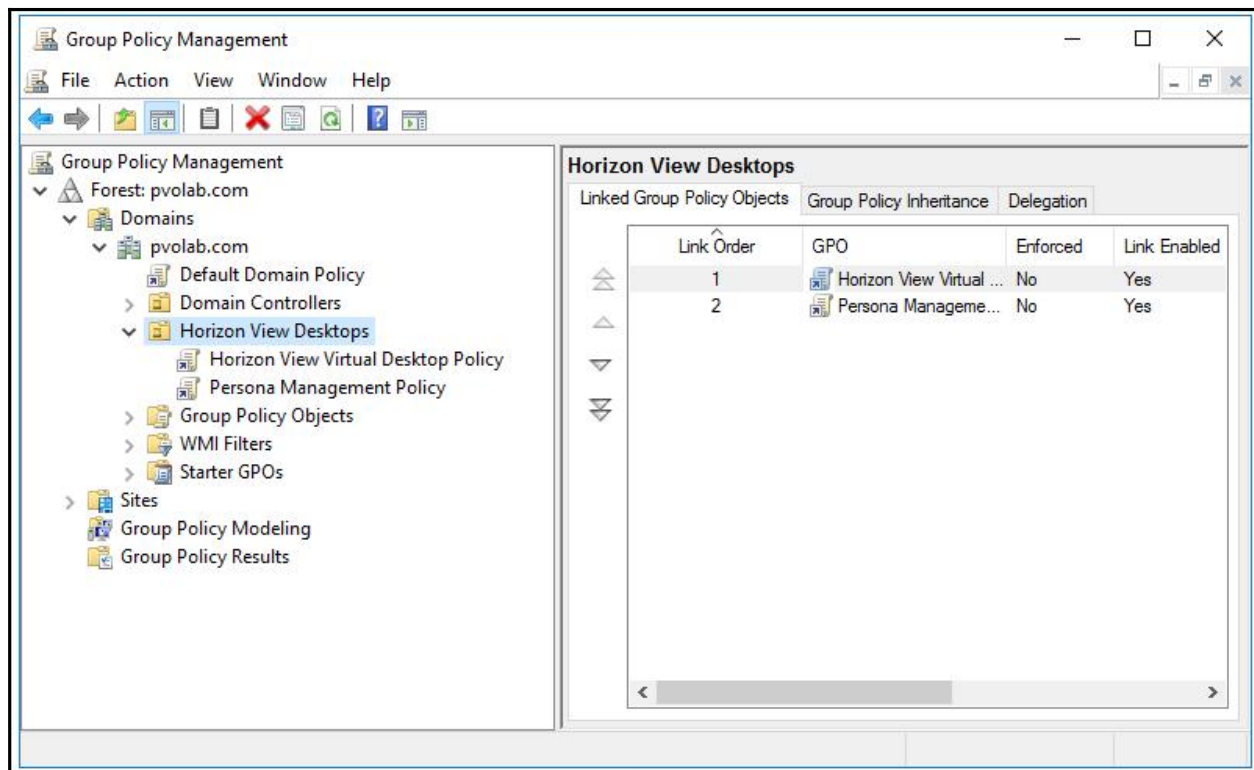




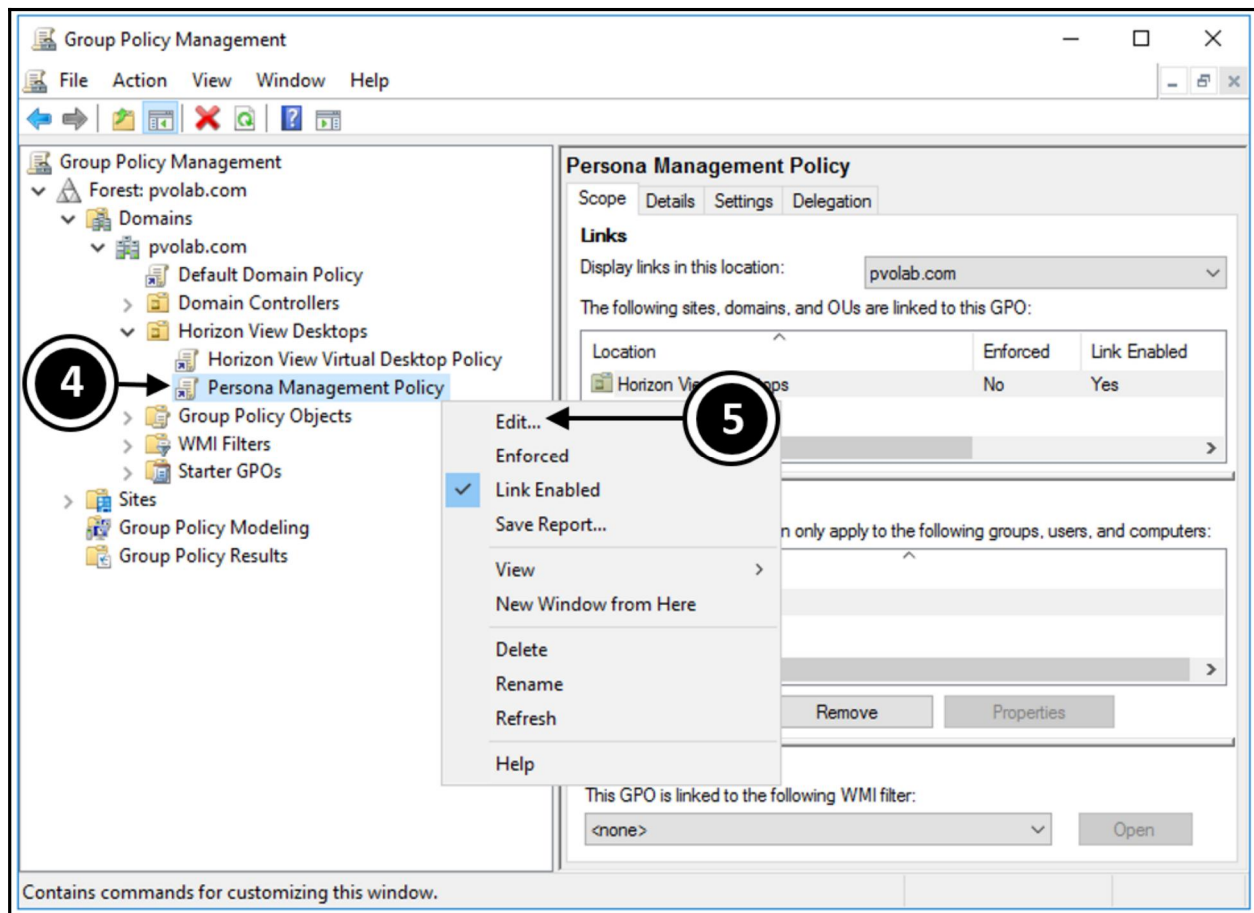


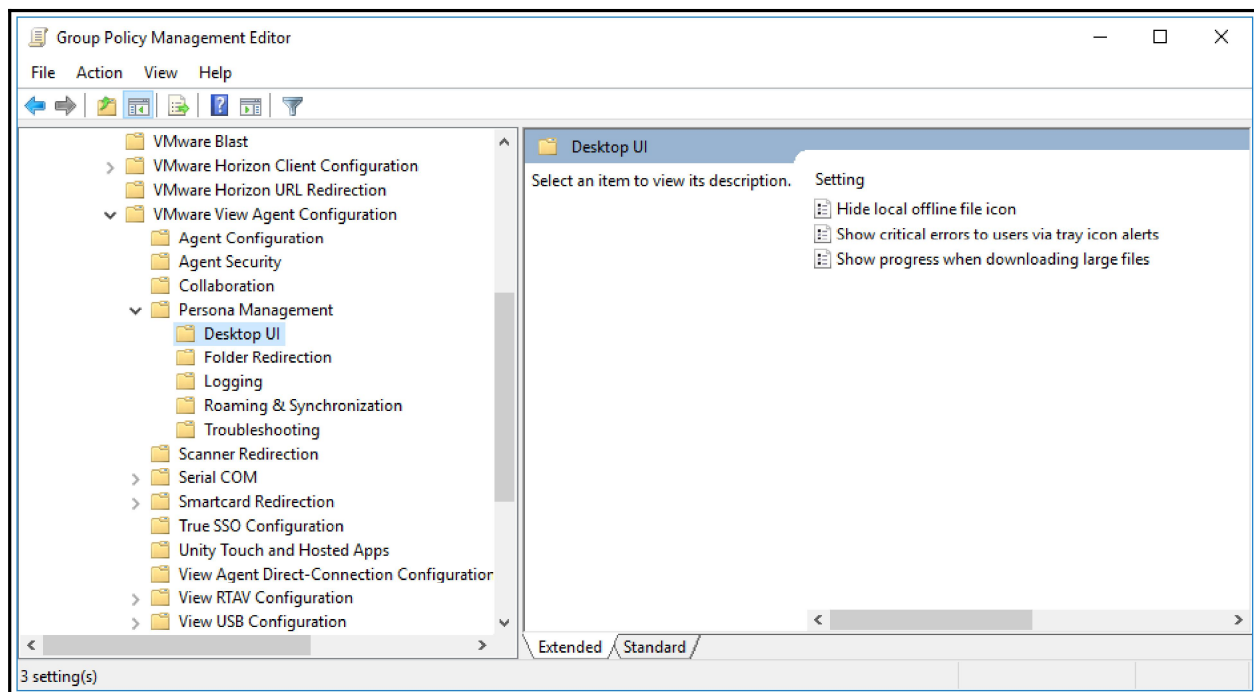
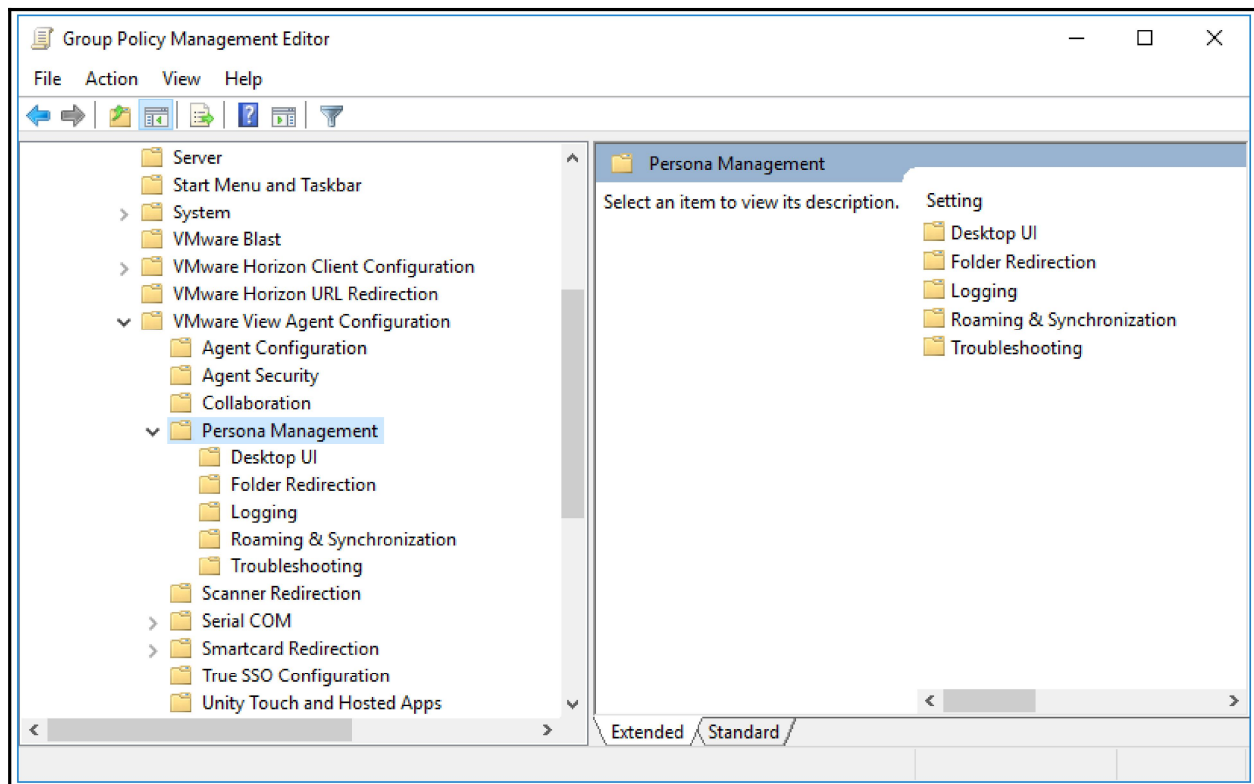


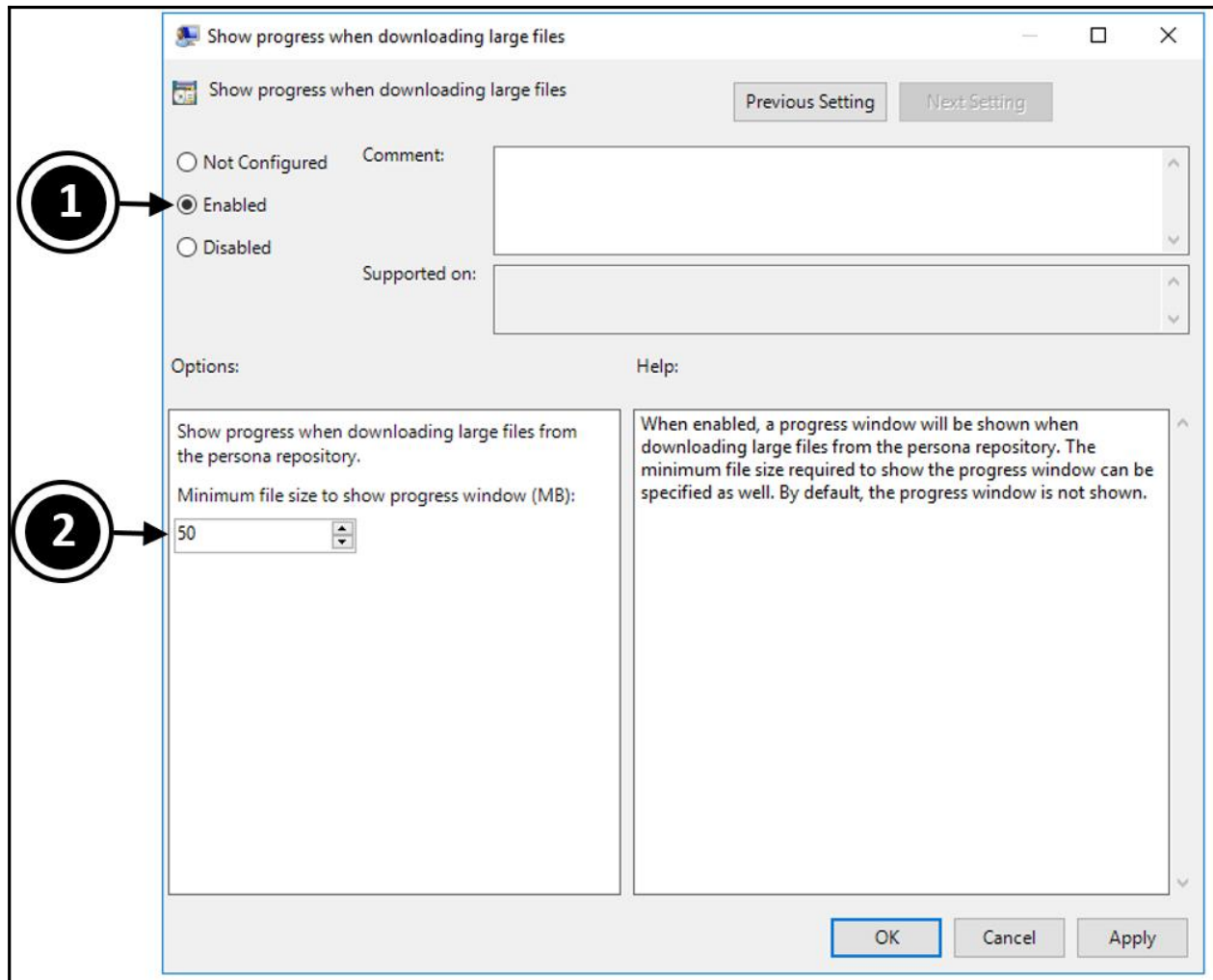


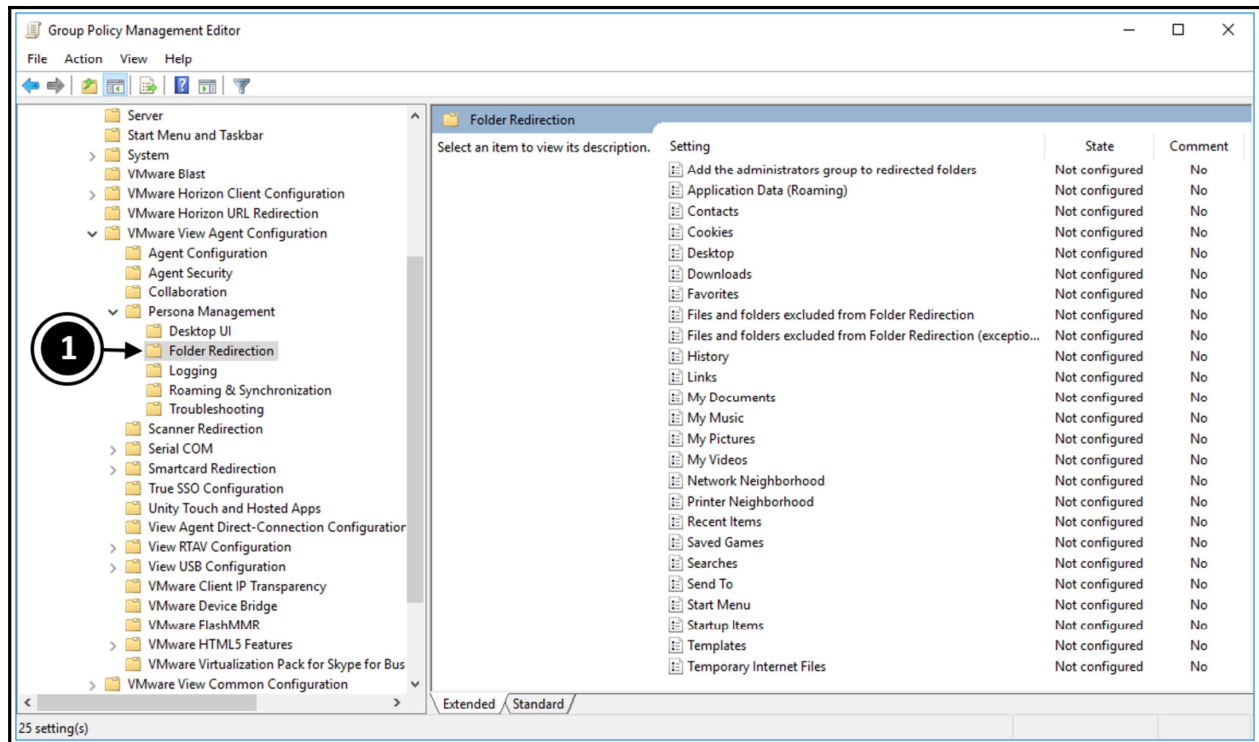


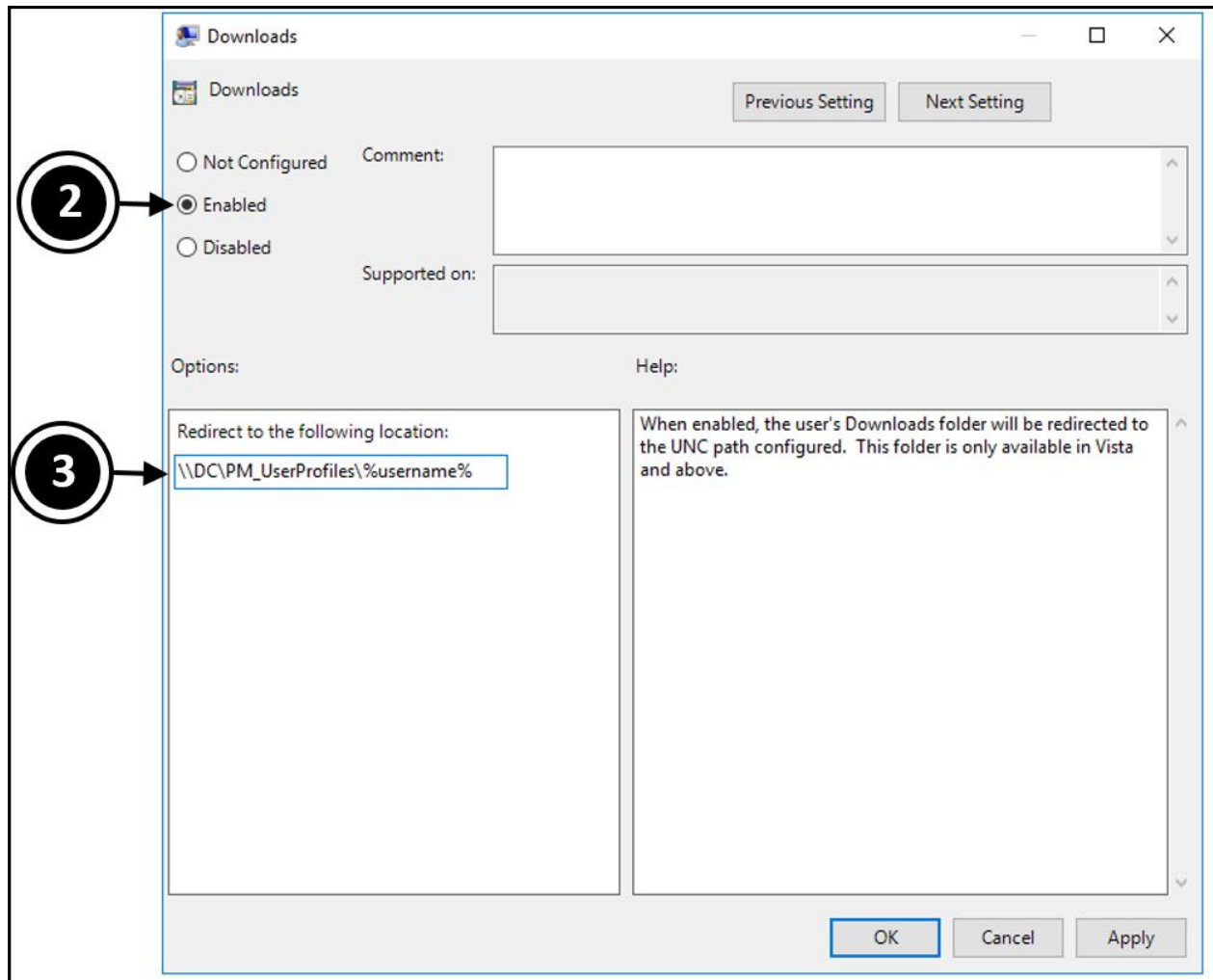


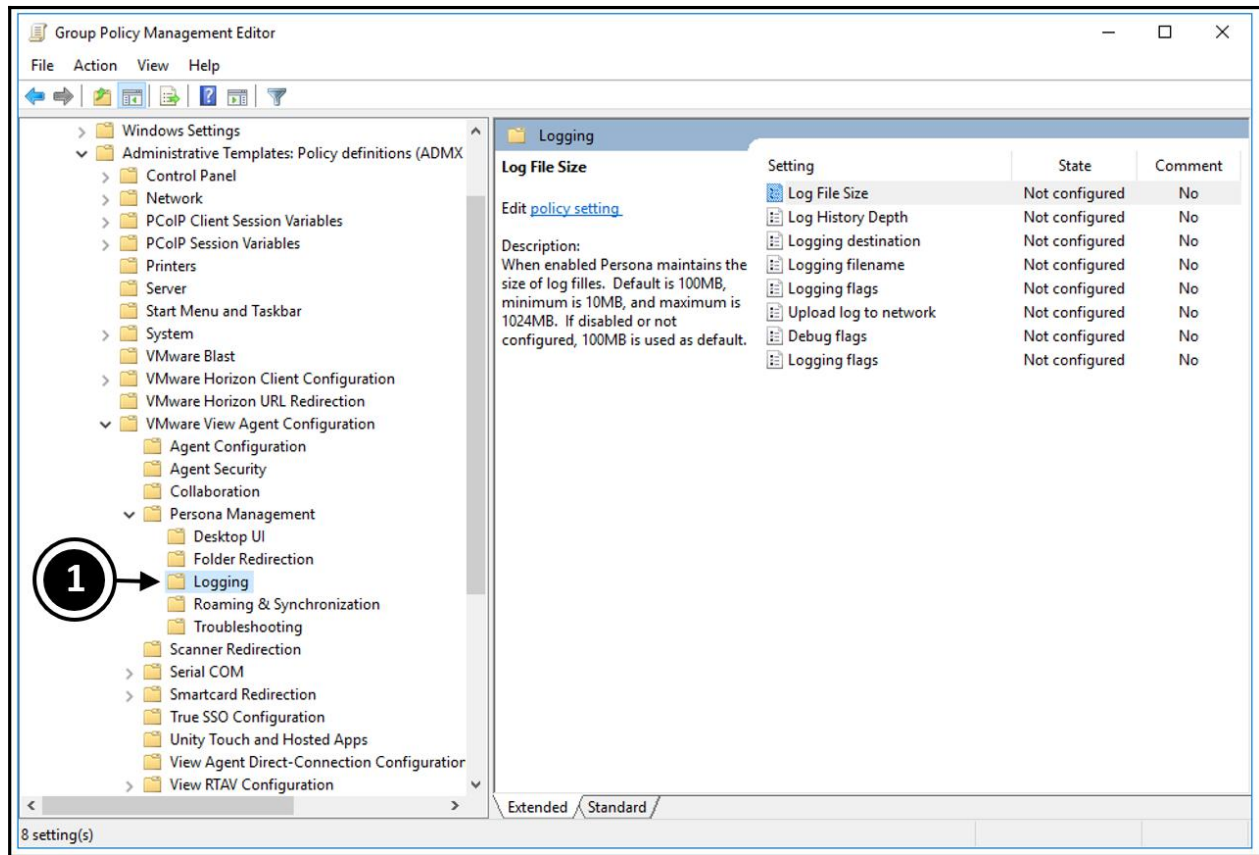




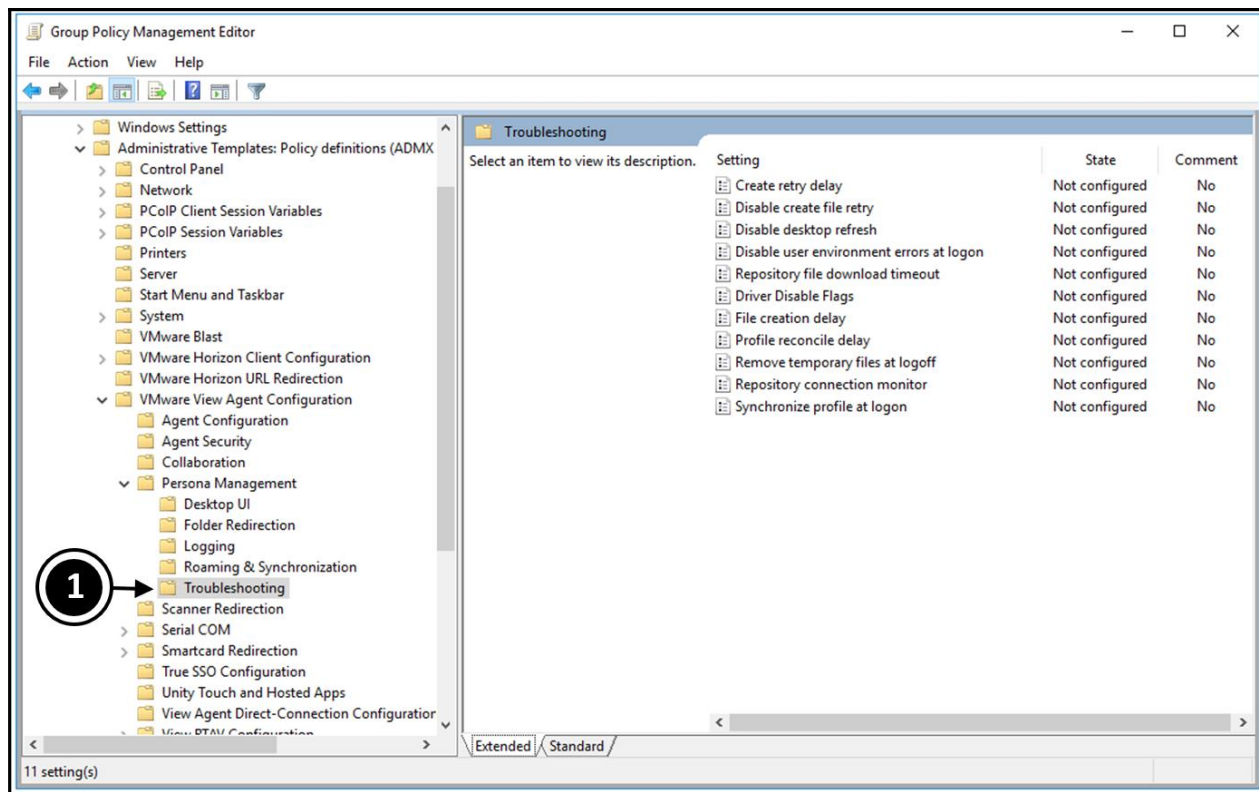
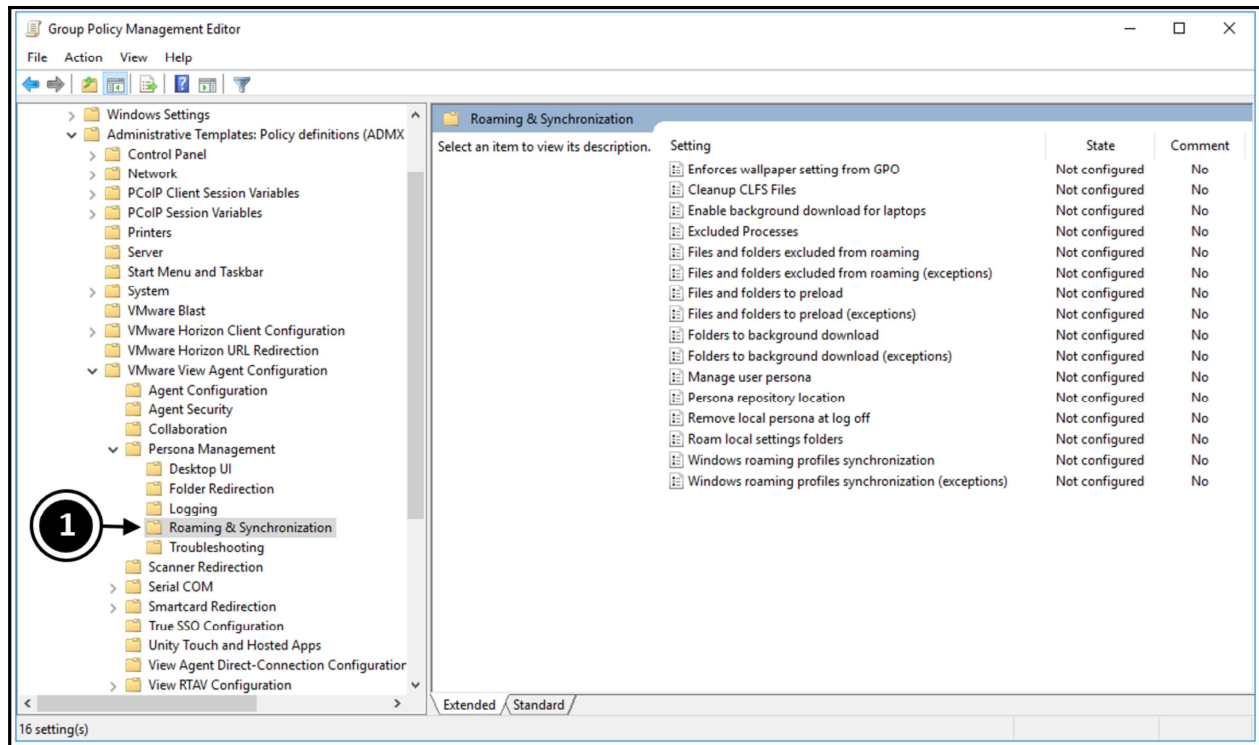




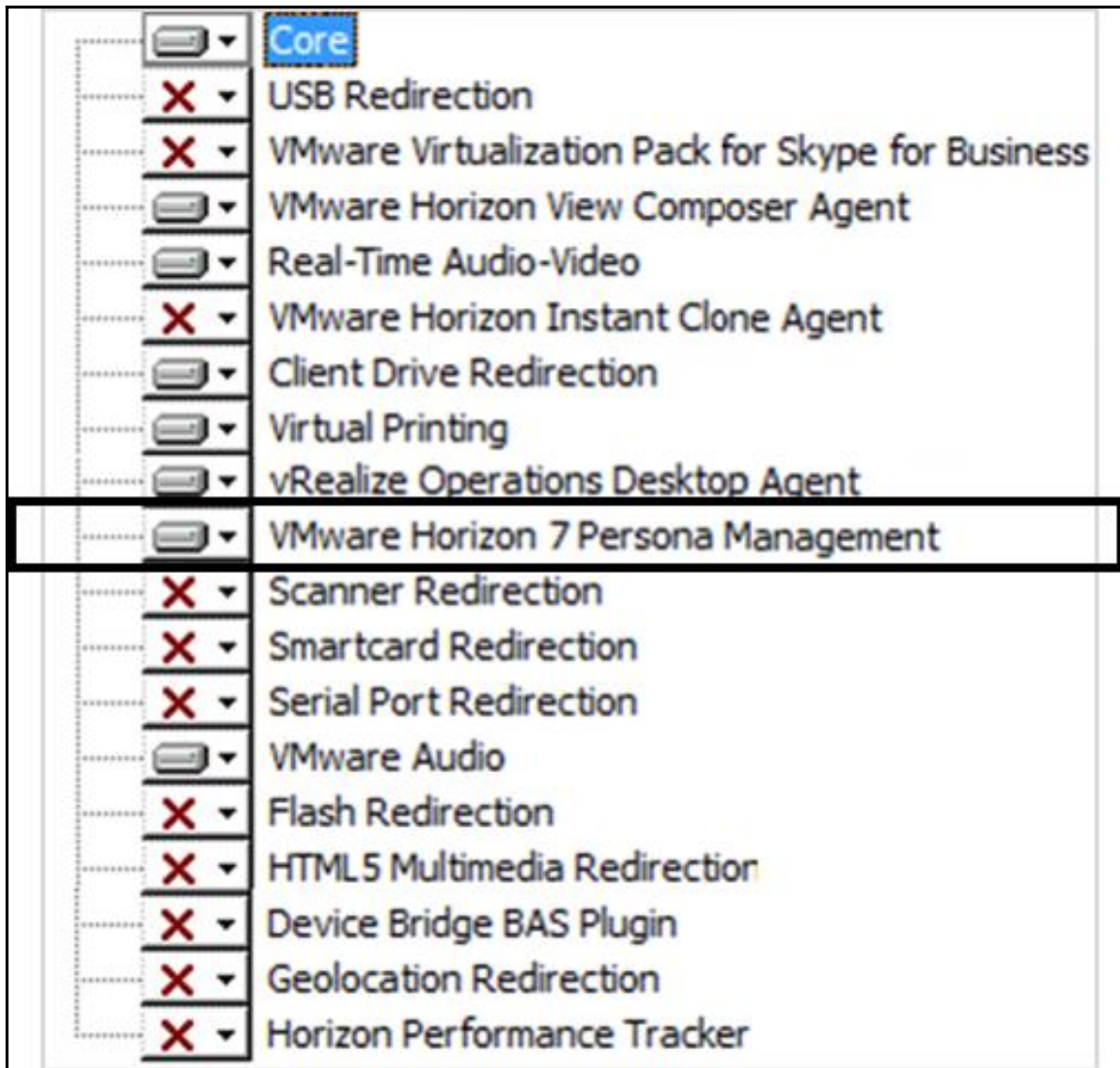




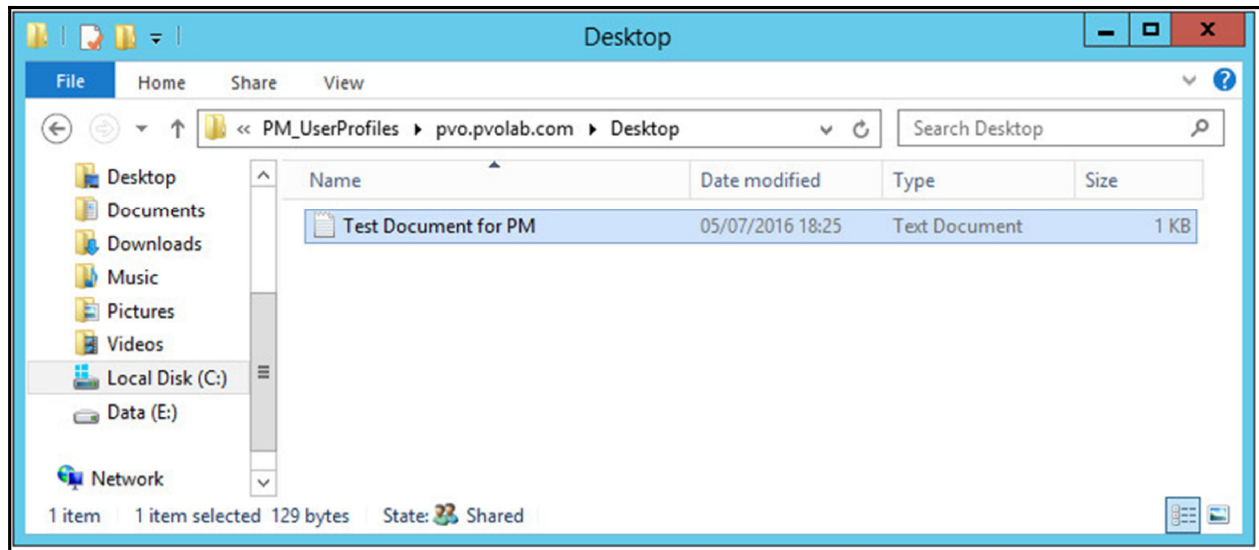
- 
- Debug error messages.
  - Debug IRQL messages.
  - Debug port messages.
  - Debug process messages.
  - Debug registry messages.
  - Debug information messages.
  - Debug directory messages.
  - Debug stream context messages.
  - Debug create messages.
  - Debug offline file table messages.
  - Debug user table messages.
  - Debug alt path messages.
  - Debug registry filter messages.
  - Debug oplock messages.
  - Debug impersonation messages.
  - Debug name provider messages.
  - Debug lock control messages.
  - Debug set info messages.
  - Debug offline files messages.
  - Debug status log messages.



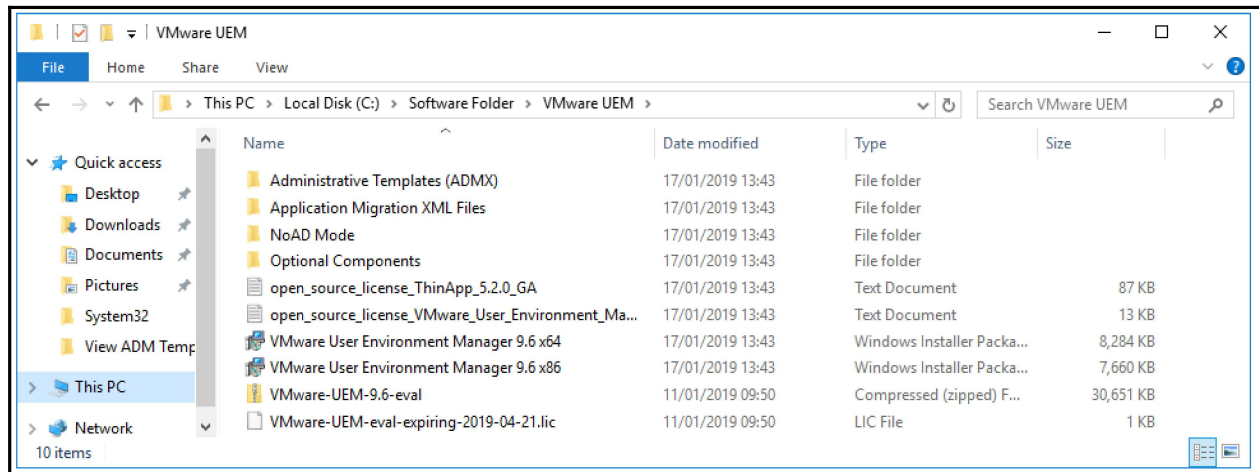


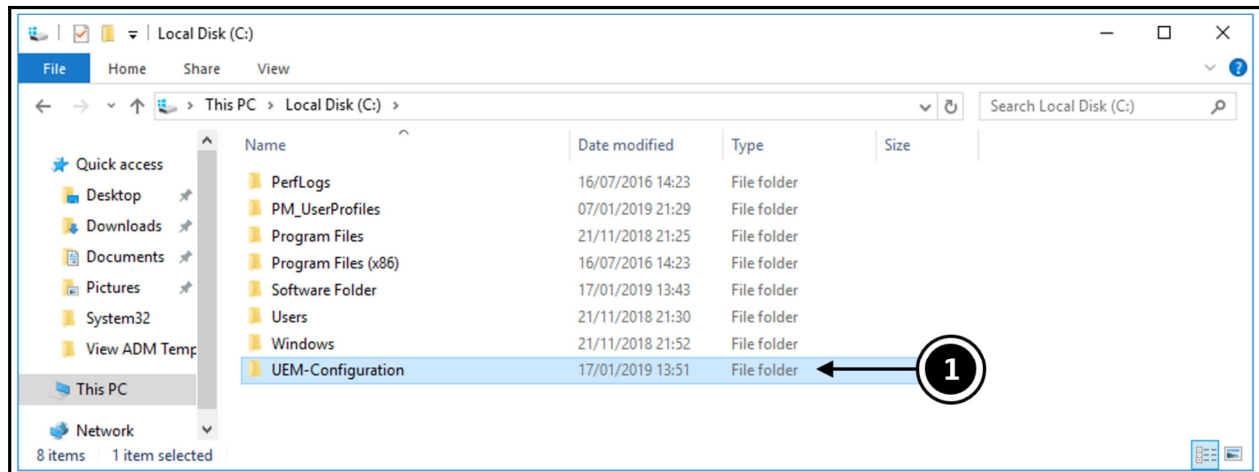


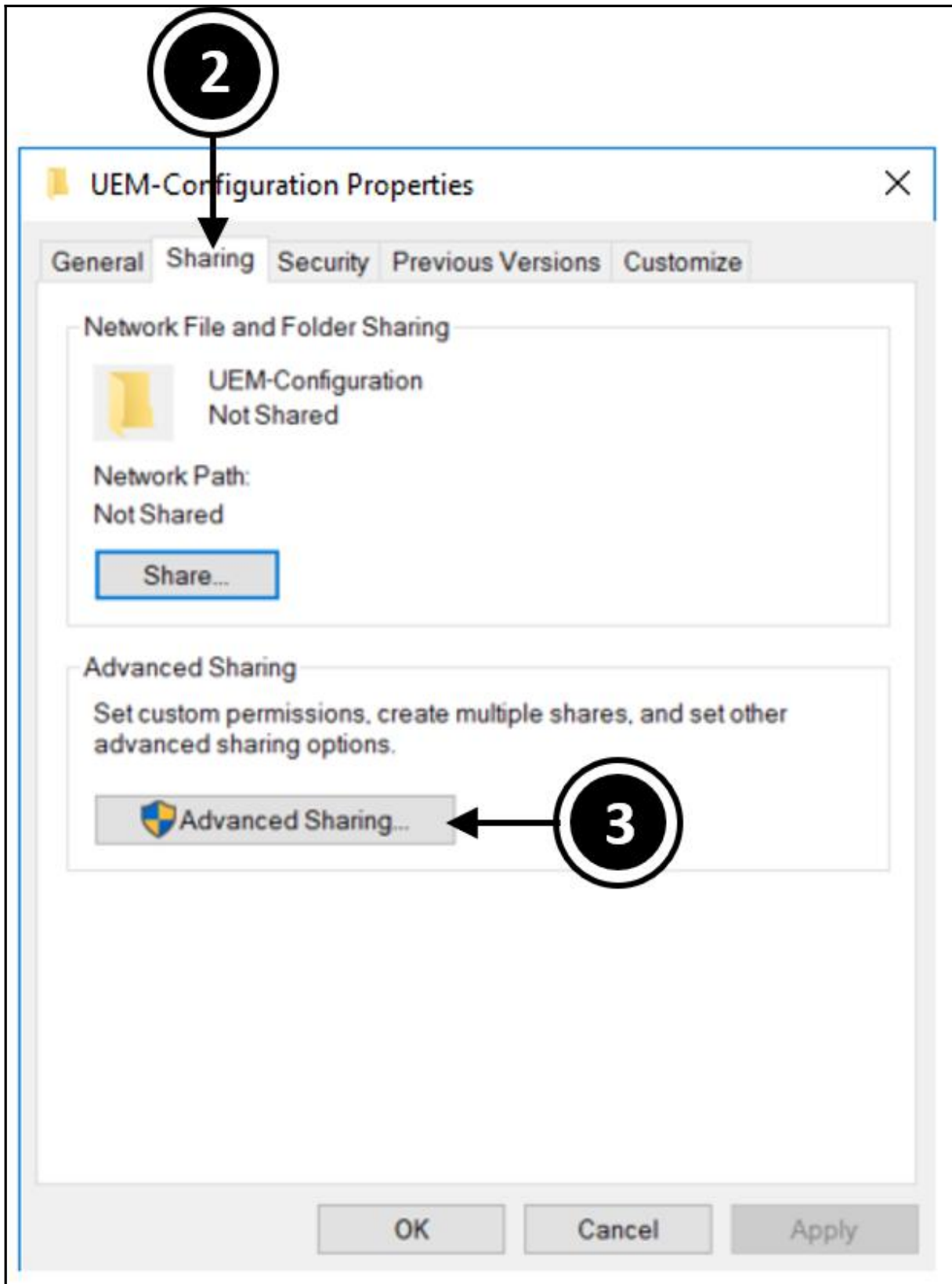
Name	Date modified	Type	Size
View ADM Templates	05/01/2019 10:03	File folder	
VMware OS Optimization Tool	07/12/2018 08:39	File folder	
VMware-Horizon-Agent-x86_64-7.6.0-9539447	02/11/2018 13:23	Application	225,043 KB
VMware-Horizon-Client-4.10.0-11021086	04/01/2019 16:51	Application	195,669 KB
VMware-Horizon-Connection-Server-x86_64-7.6.0-9823717	02/11/2018 13:26	Application	267,730 KB
VMware-Horizon-Extras-Bundle-4.9.0-9539668	04/12/2018 13:21	Compressed (zipp...	5,347 KB
VMware-Horizon-Persona-Management-x86_64-7.6.0-9539447	02/11/2018 13:25	Application	39,685 KB
VMware-Jmp-Installer-7.6.0-9823717	02/11/2018 13:28	Application	115,462 KB
VMware-viewcomposer-7.6.0-9491669	02/11/2018 13:27	Application	47,011 KB

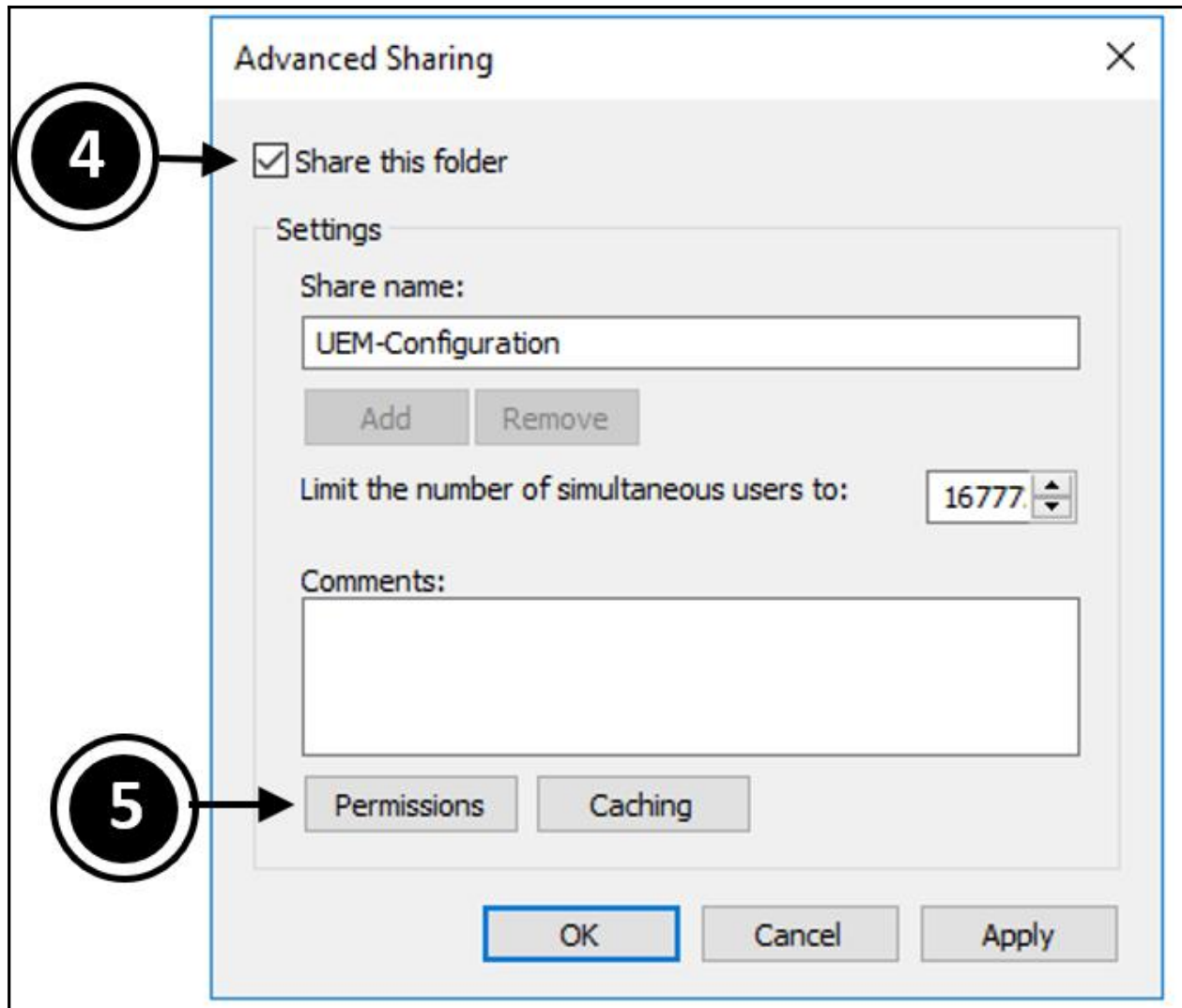


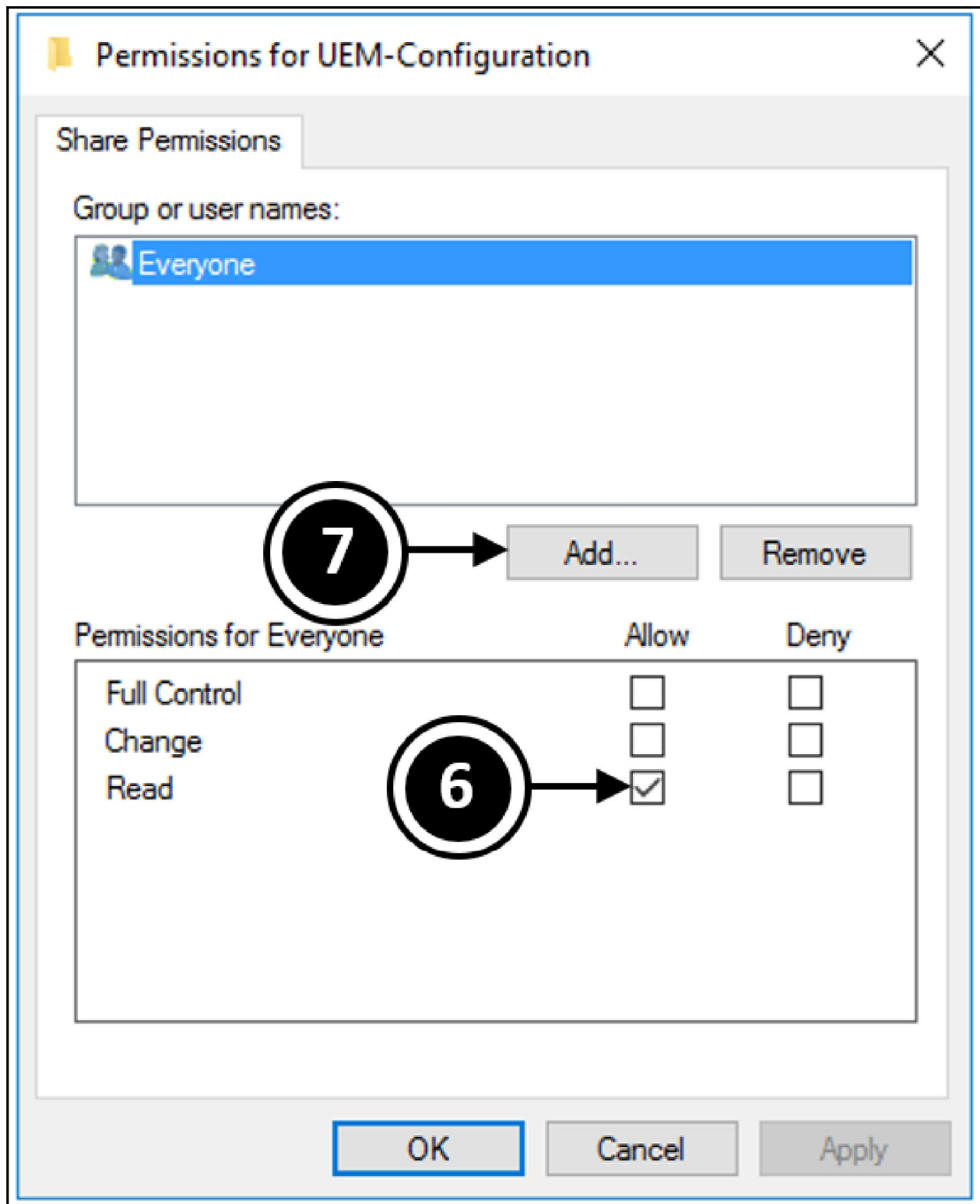
Name	Date modified	Type	Size
VMware-UEM-9.6-eval	11/01/2019 09:50	Compressed (zipped) Folder	30,651 KB
VMware-UEM-eval-expiring-2019-04-21.l...	11/01/2019 09:50	LIC File	1 KB

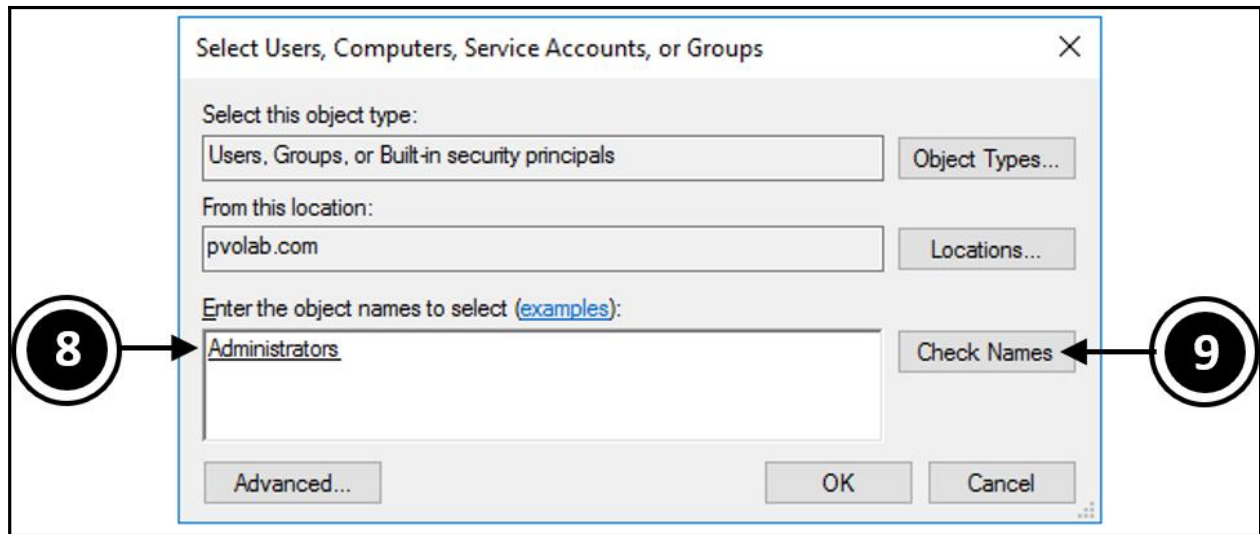


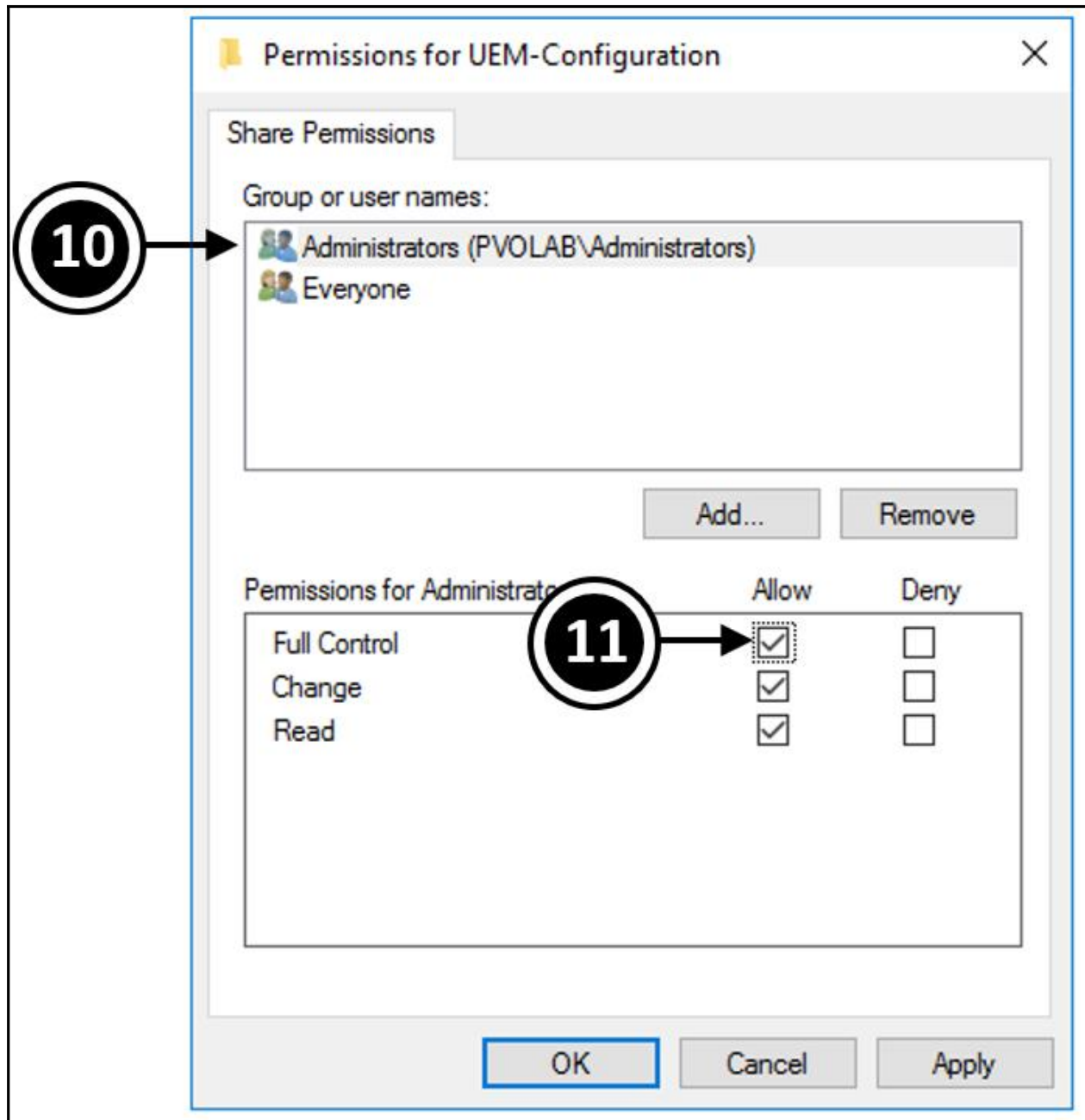




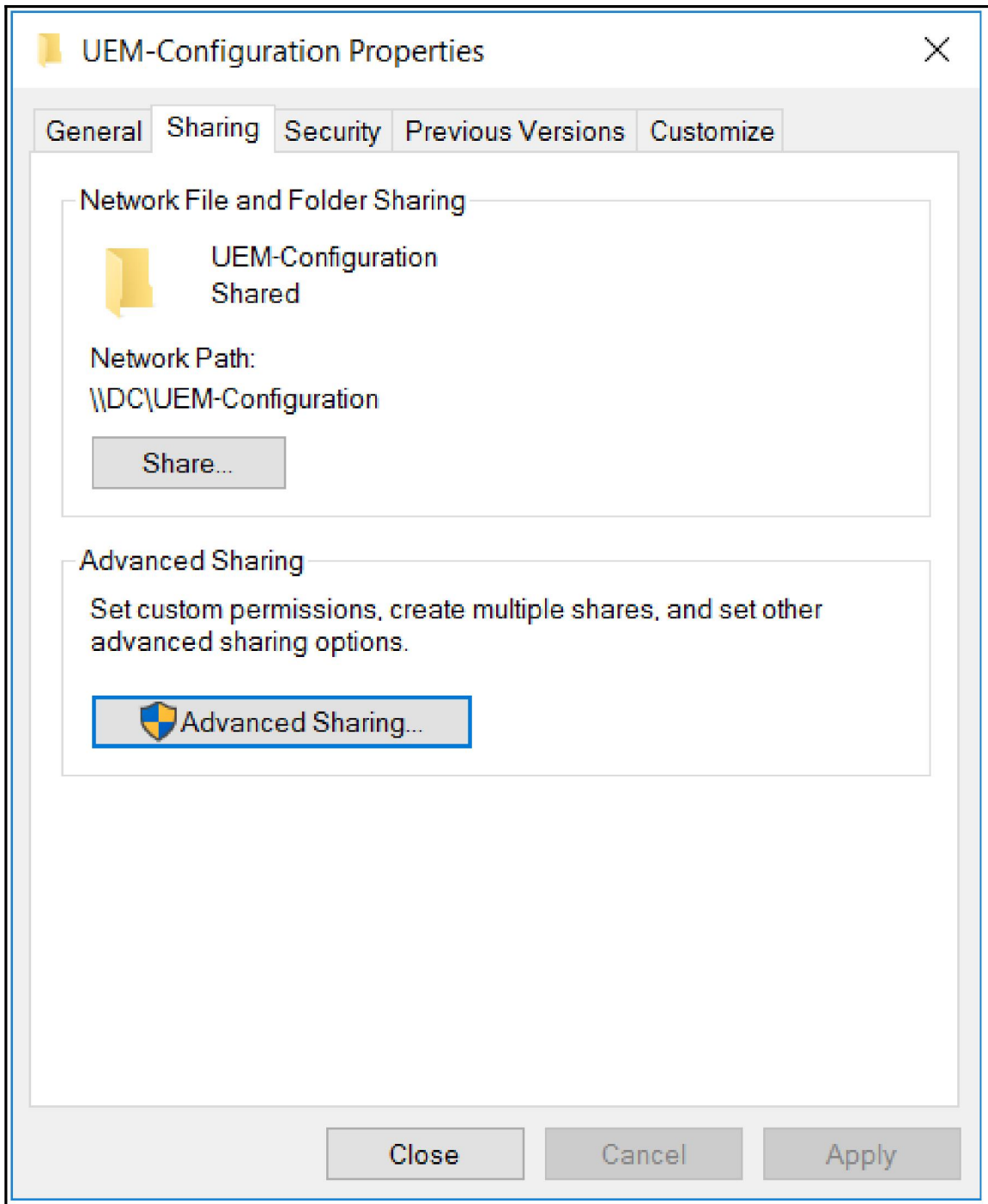


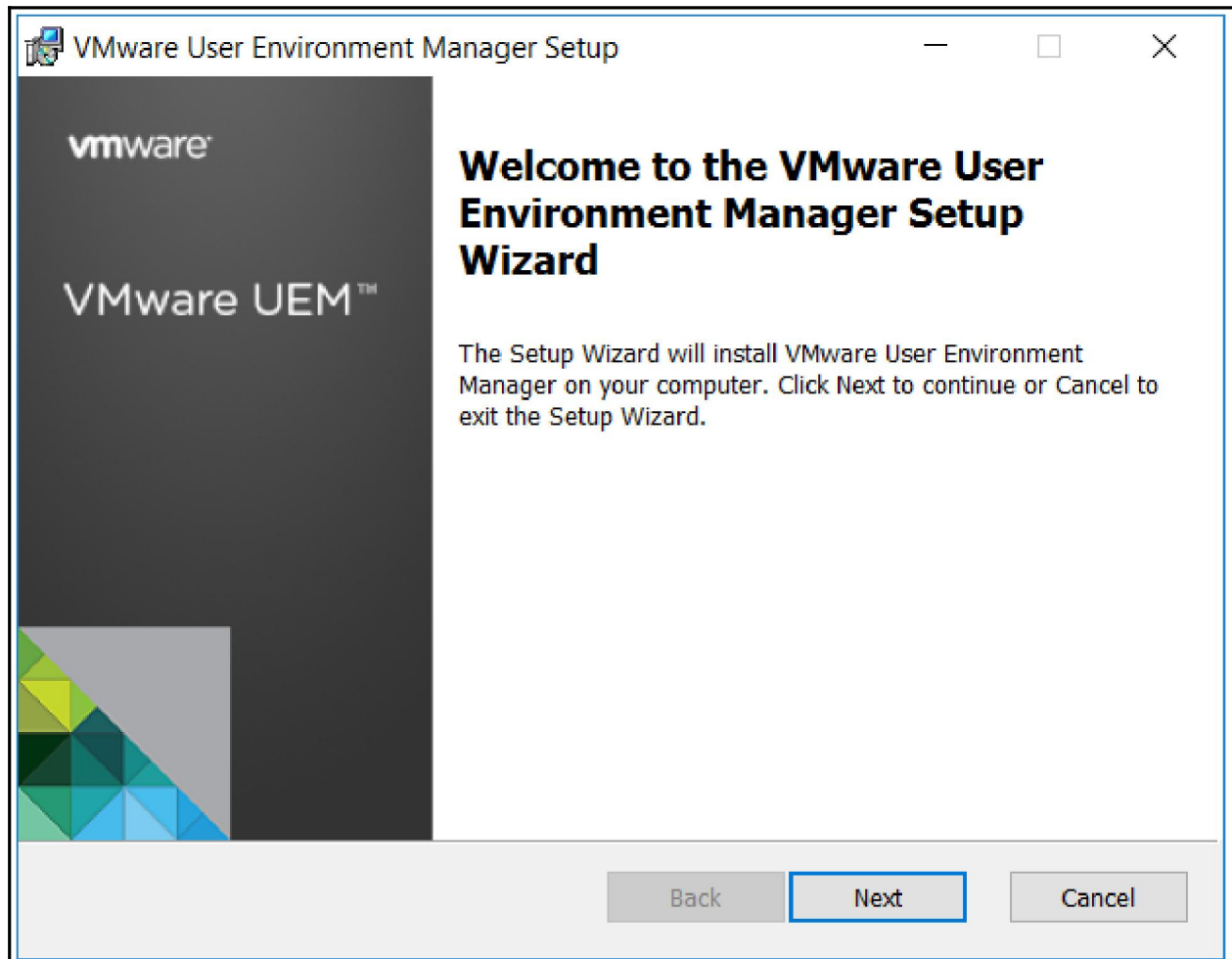
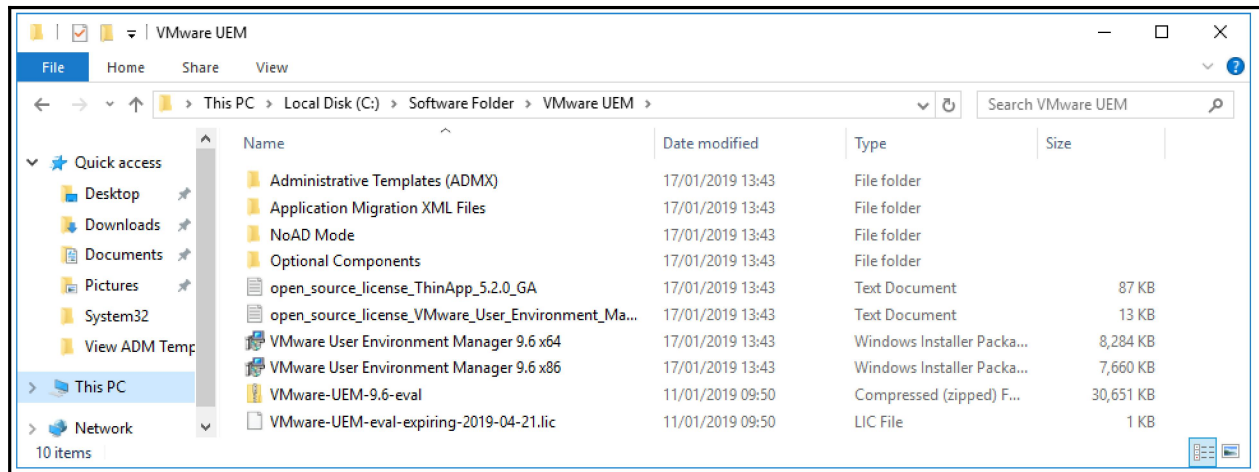


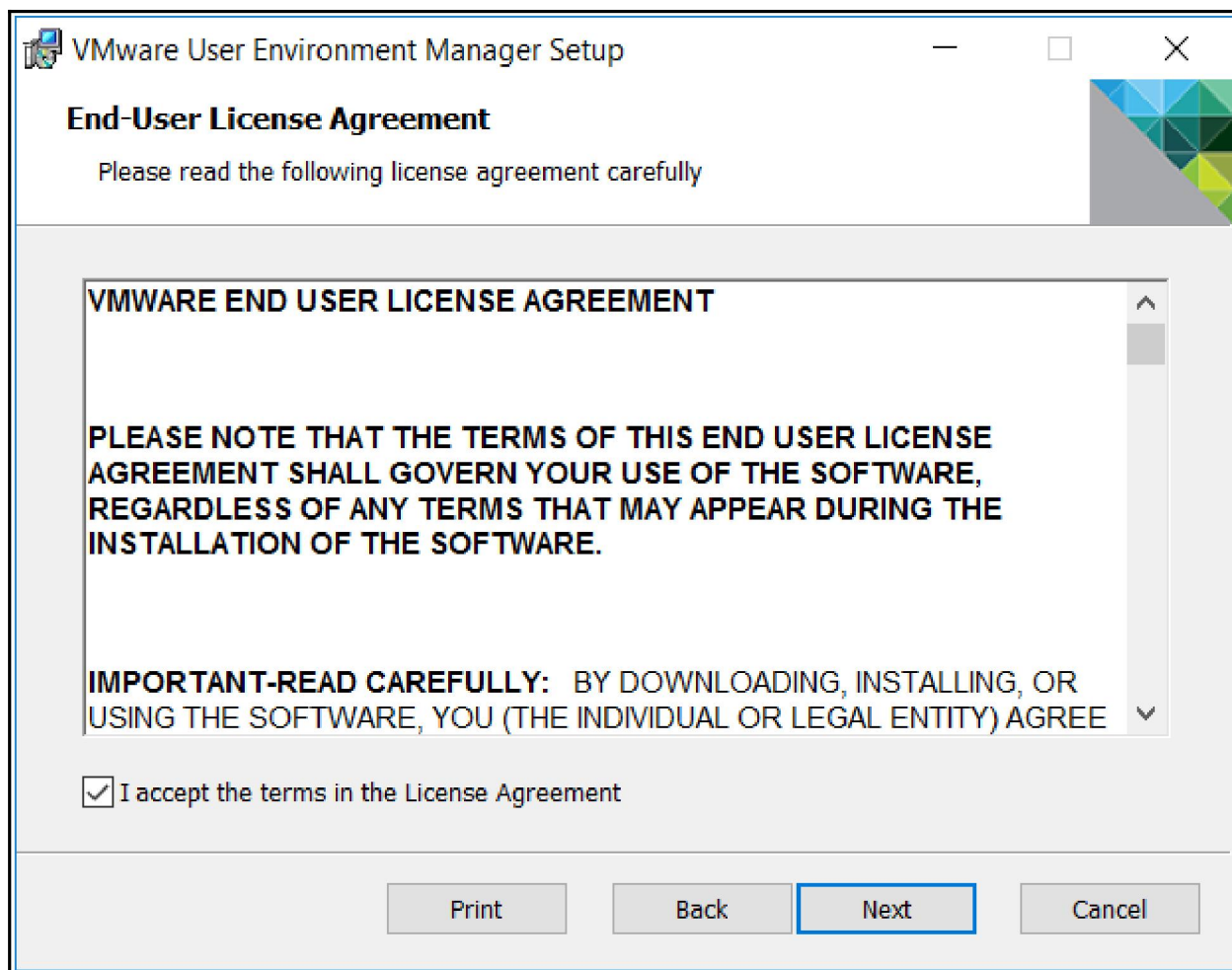


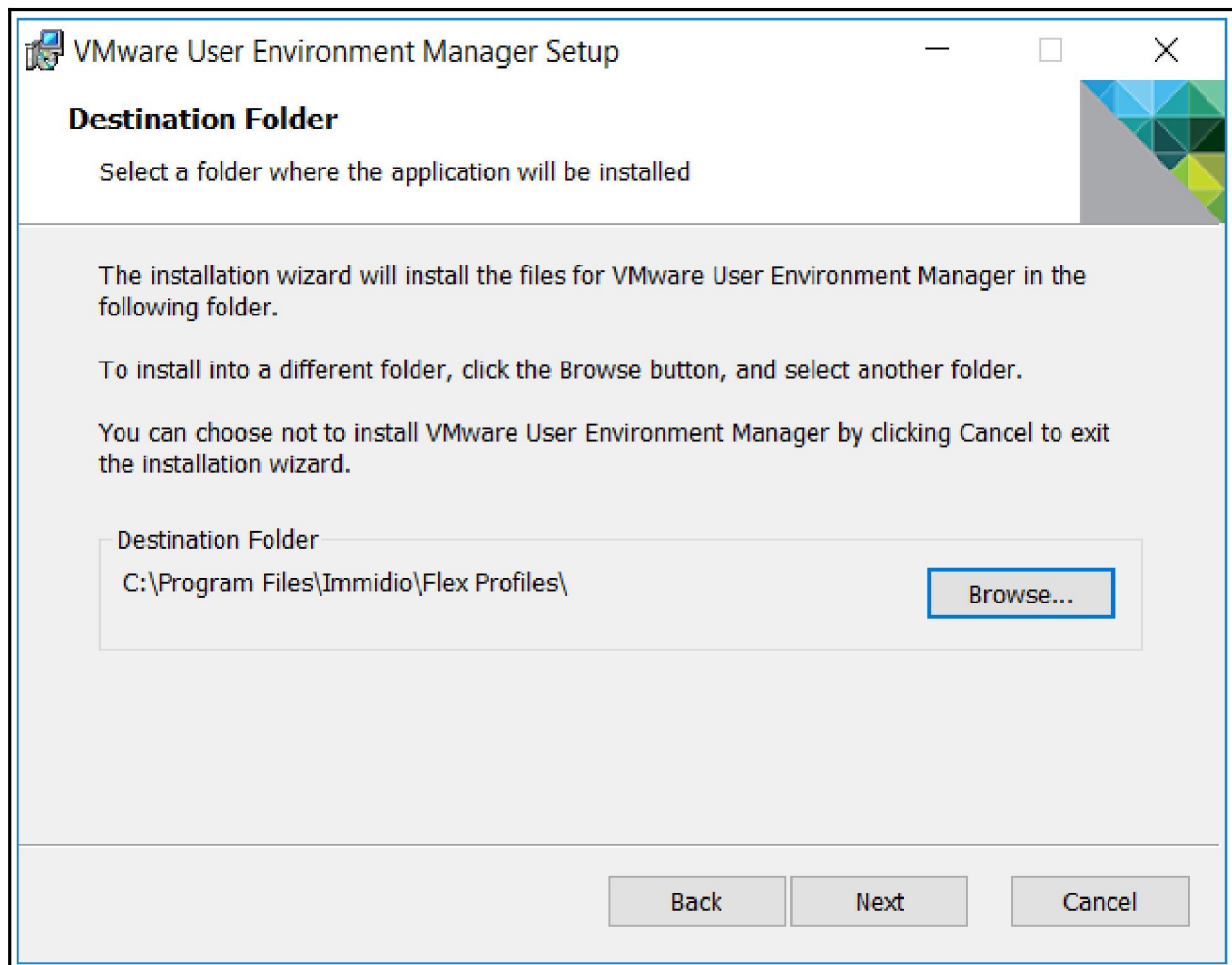


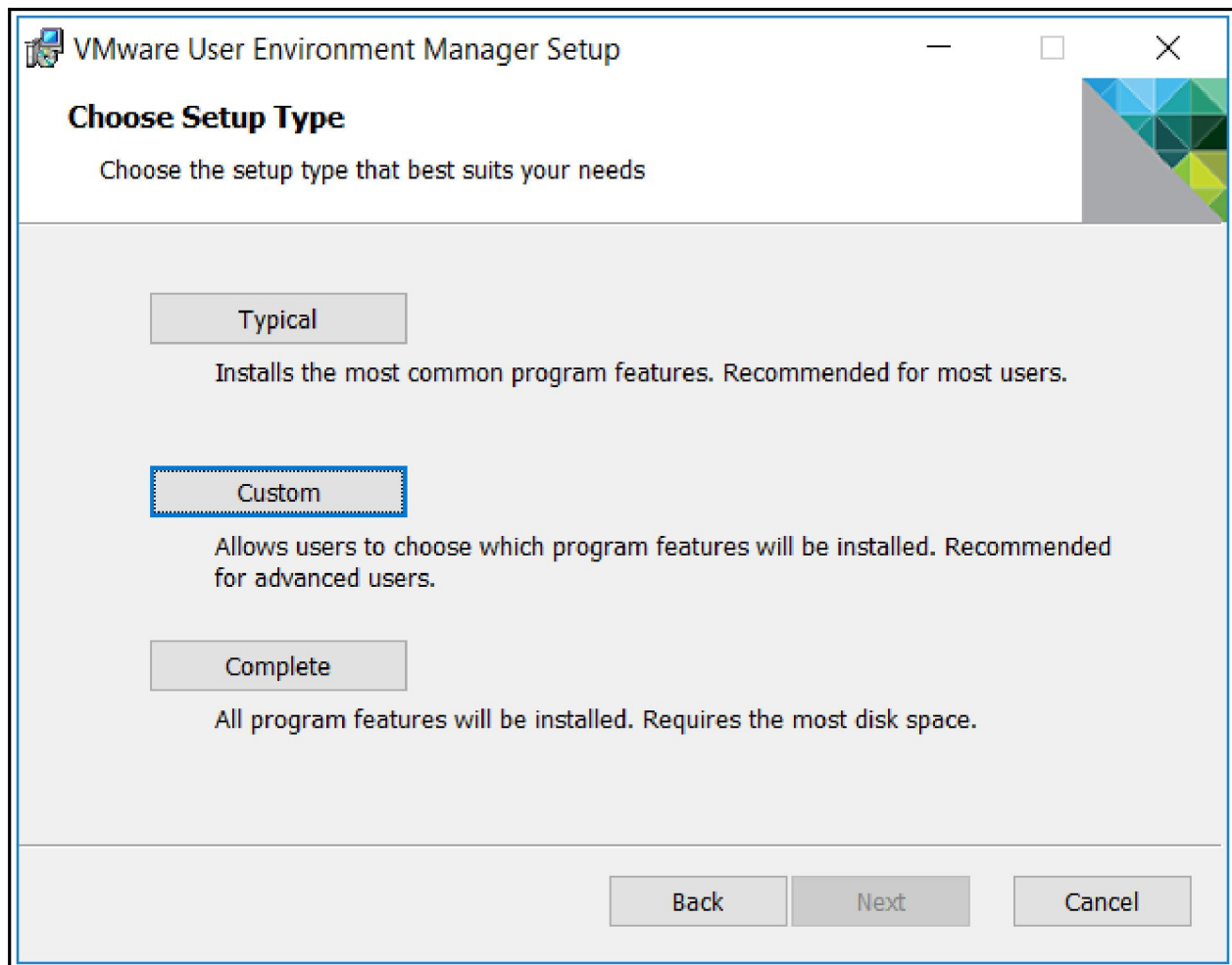


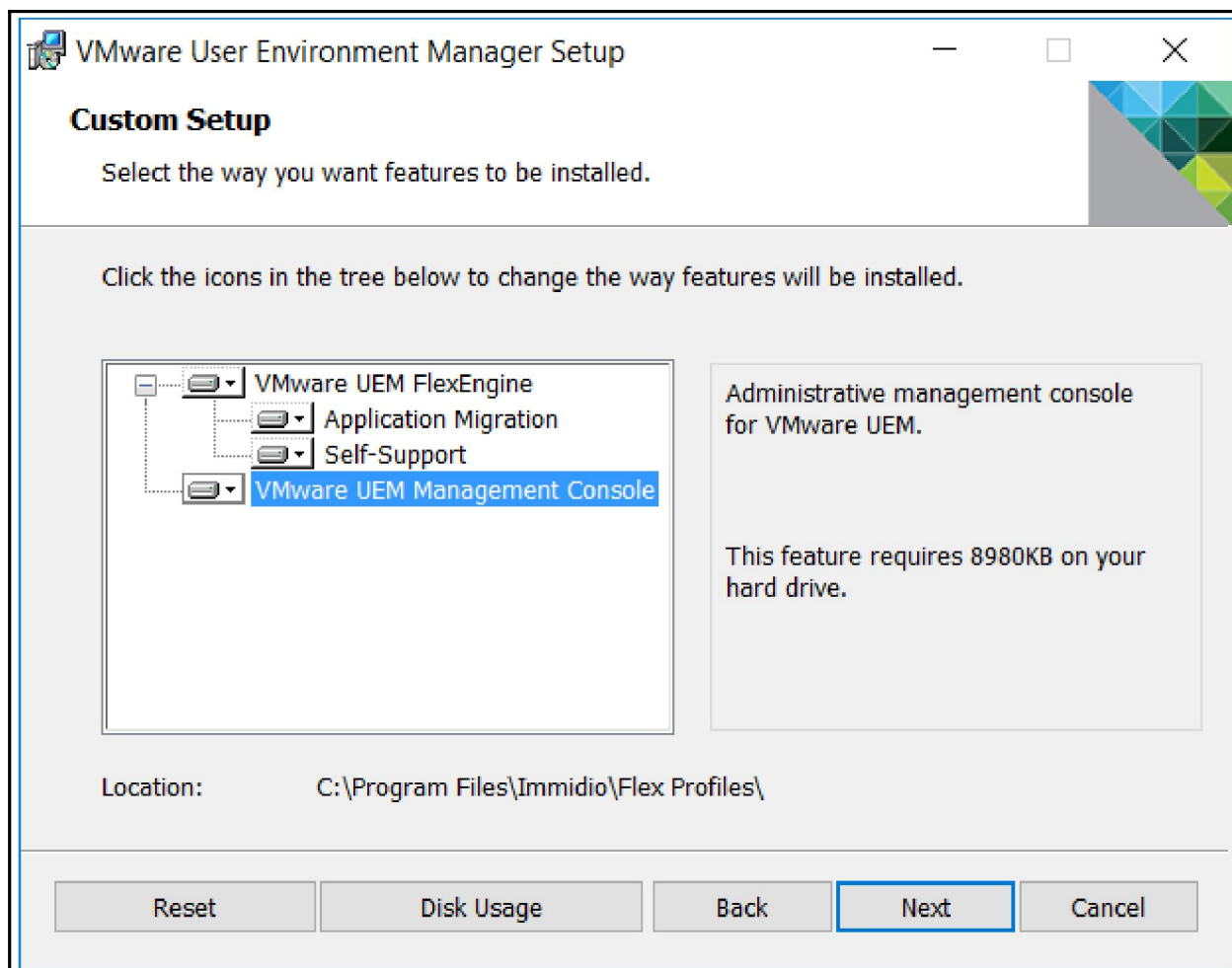


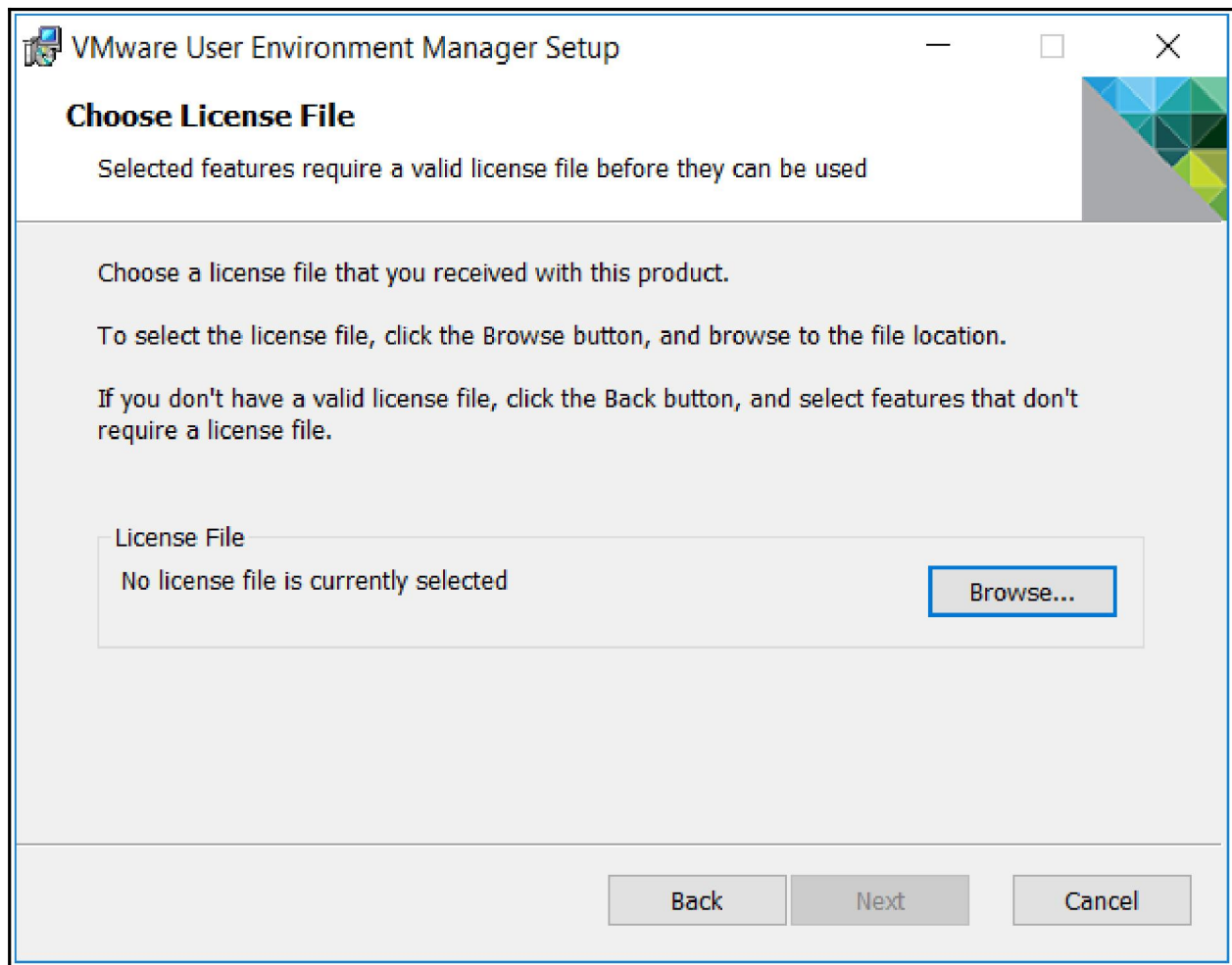


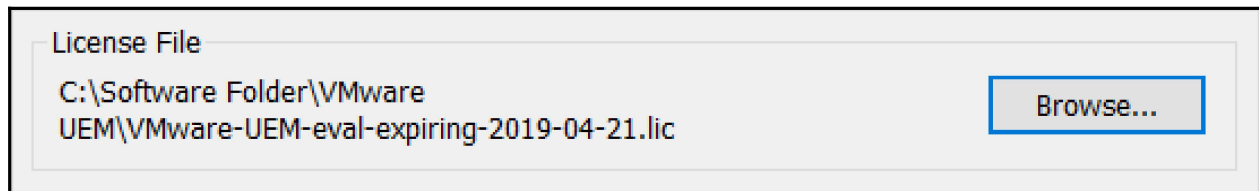
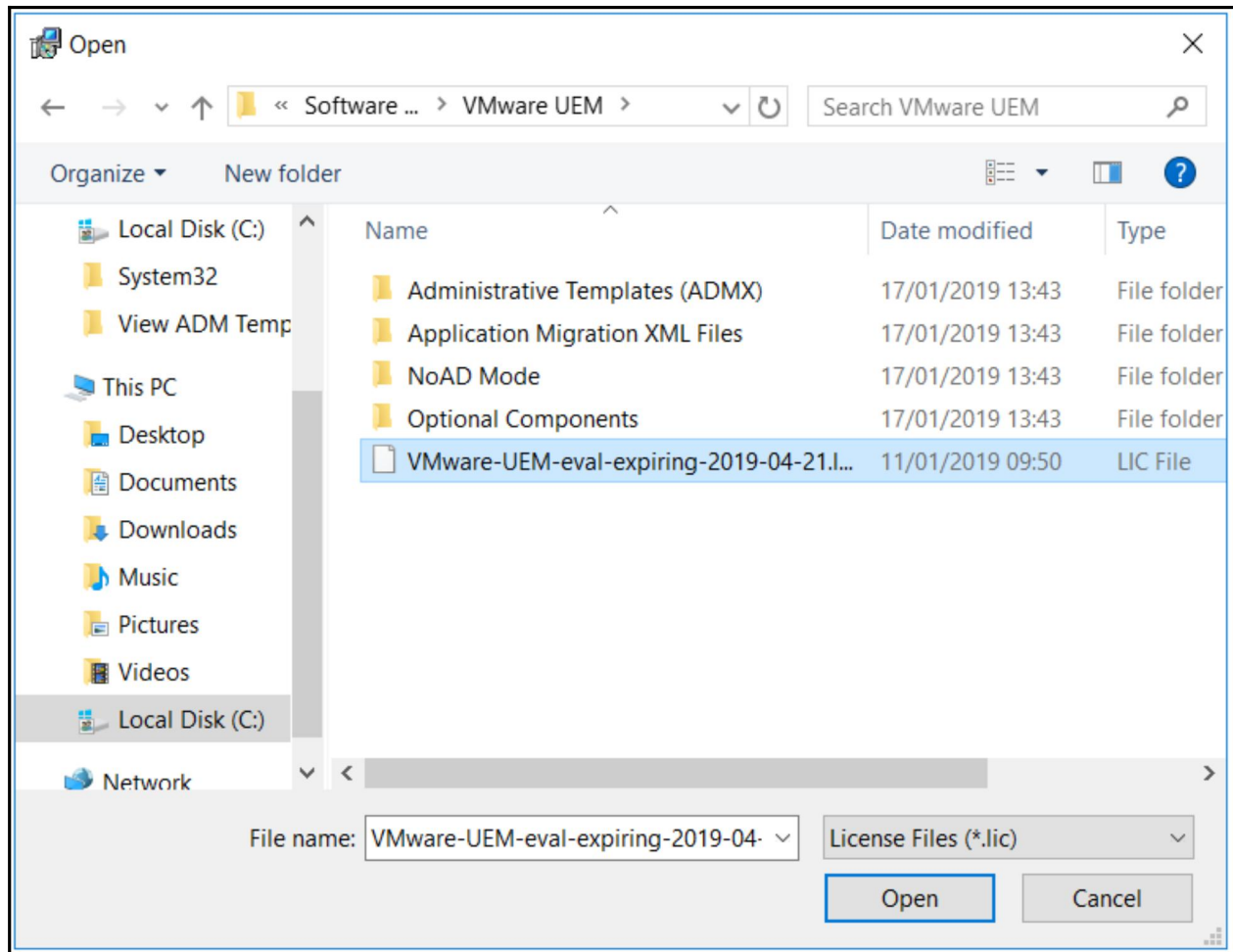




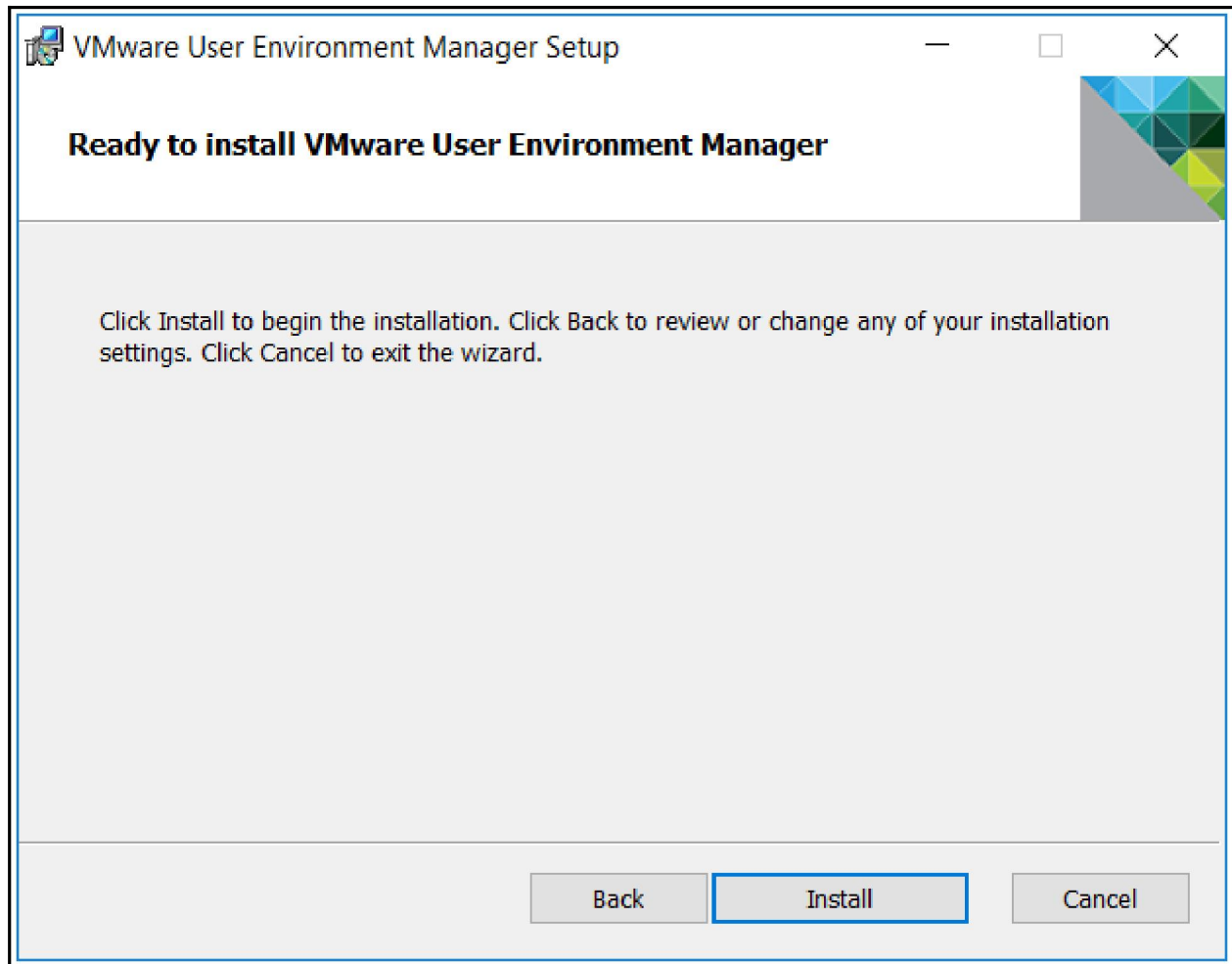


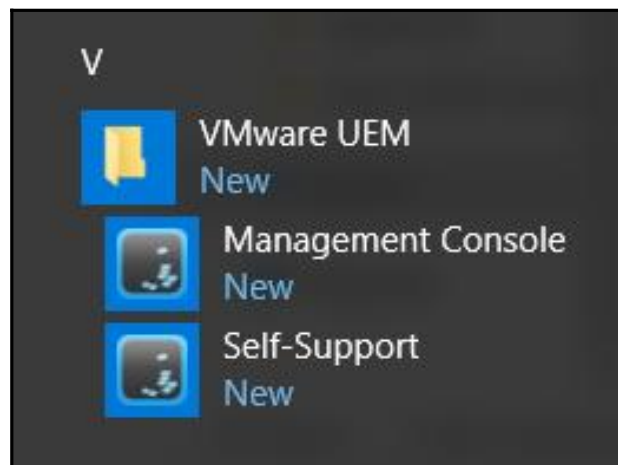
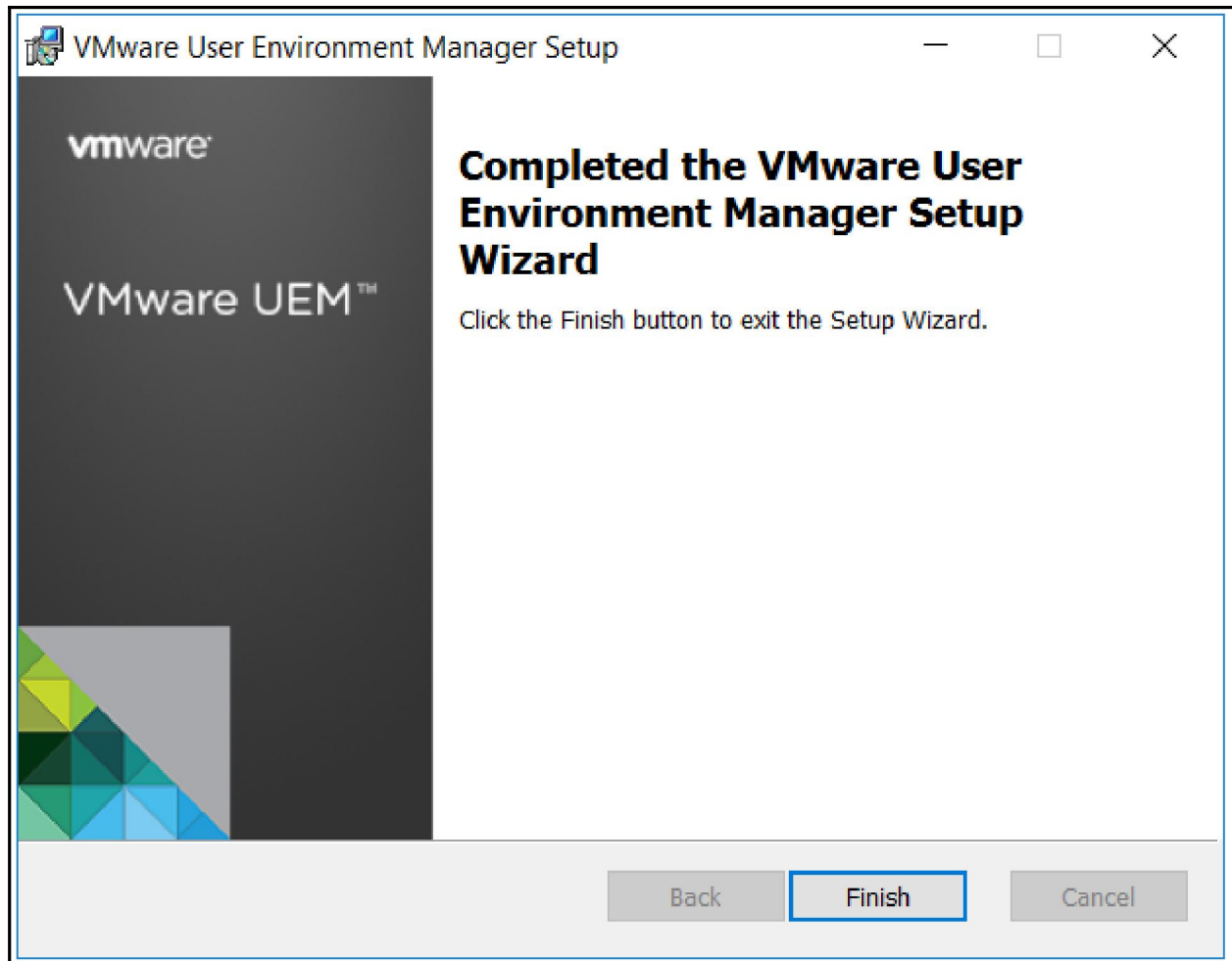


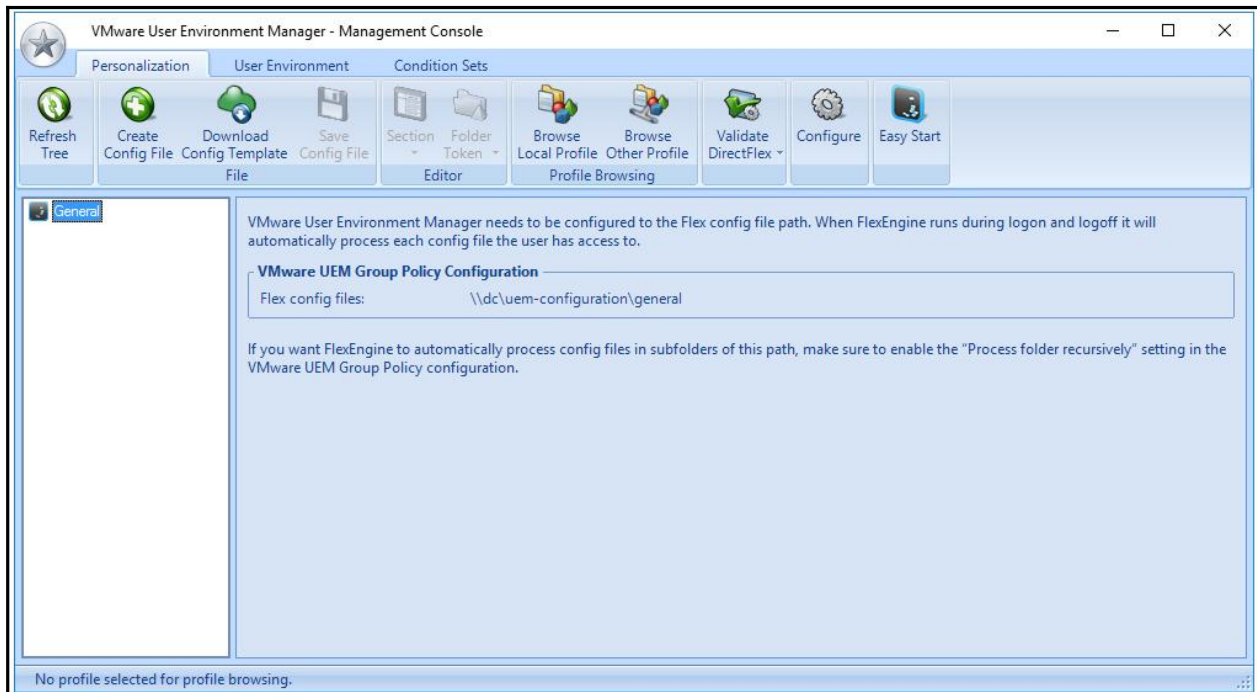
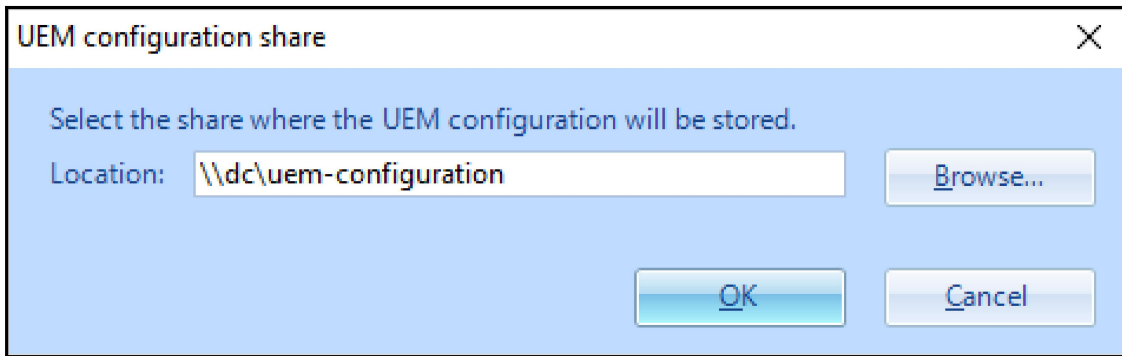


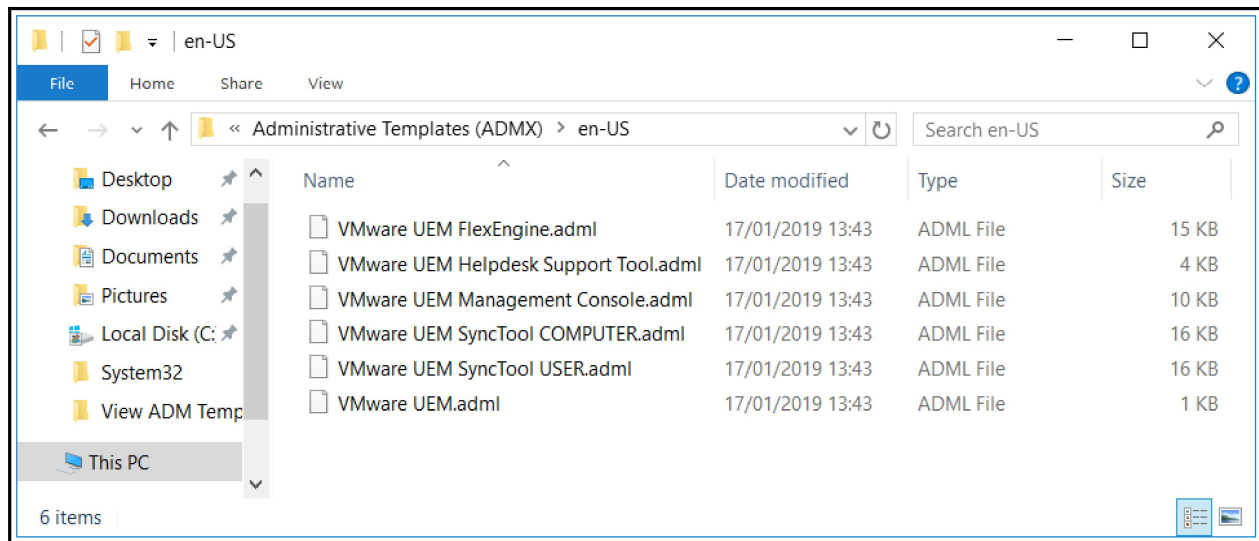
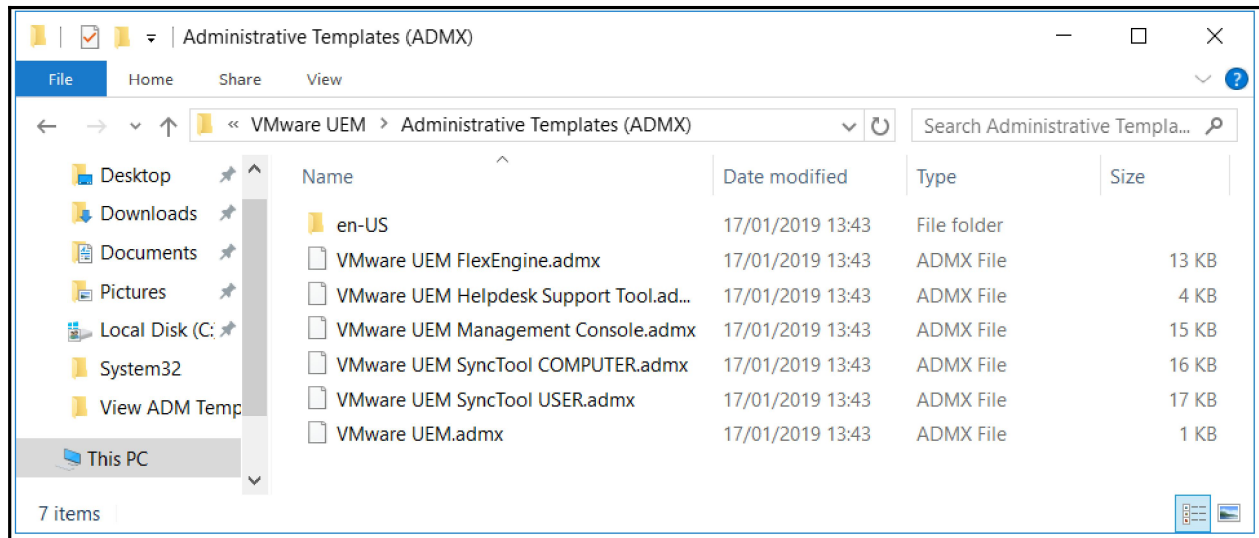


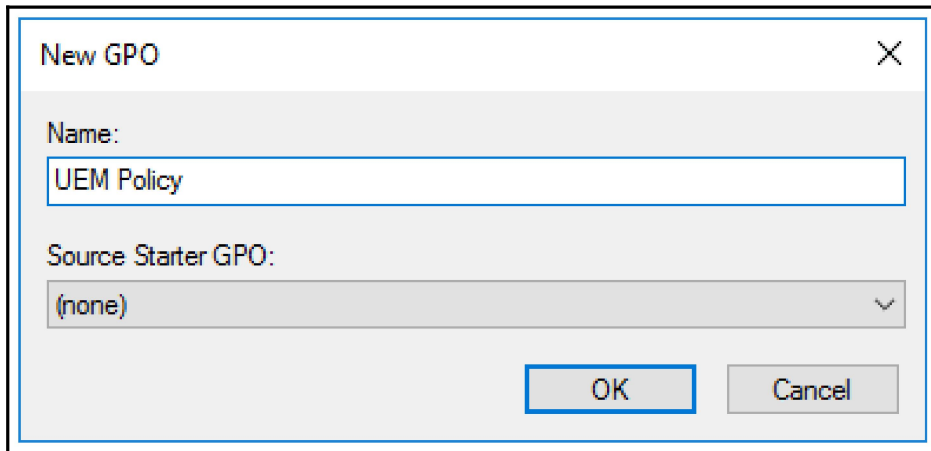
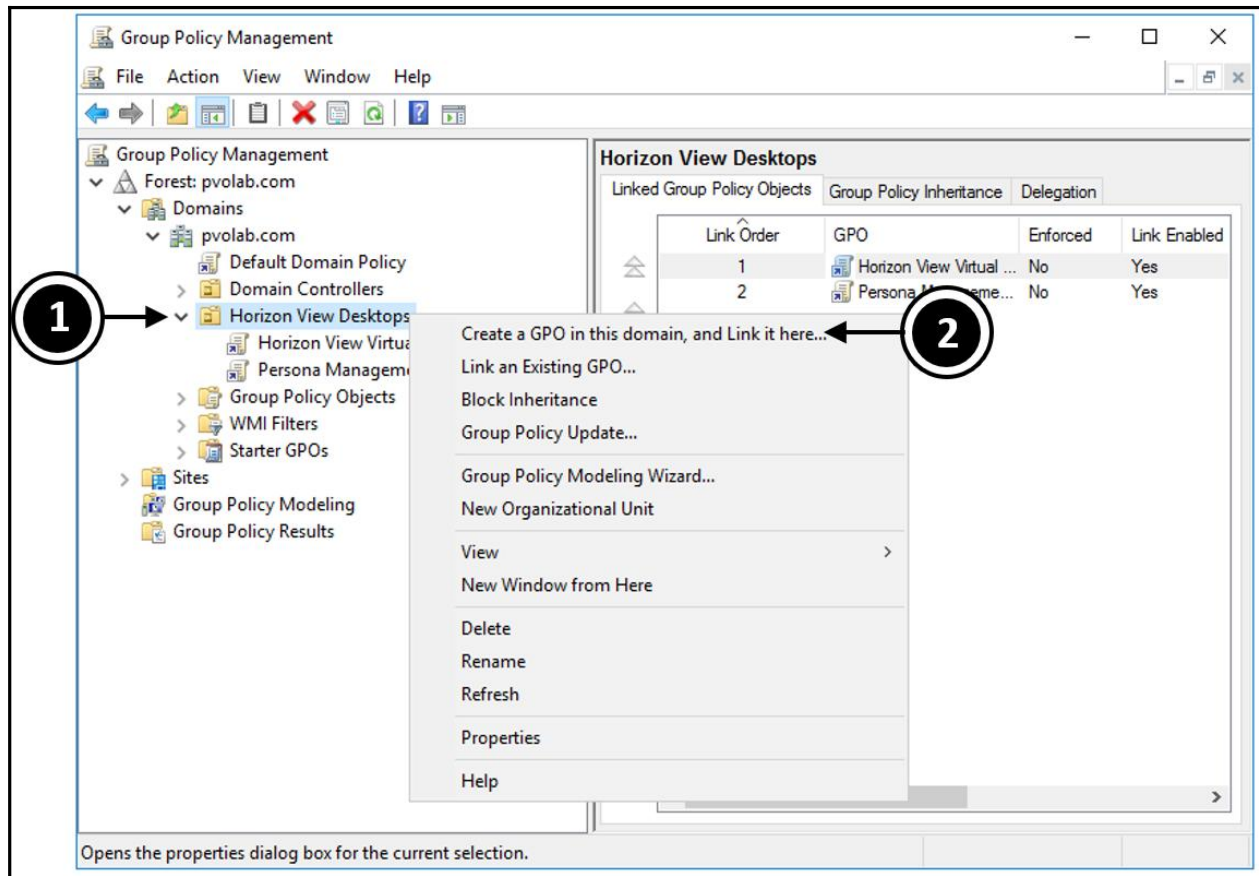


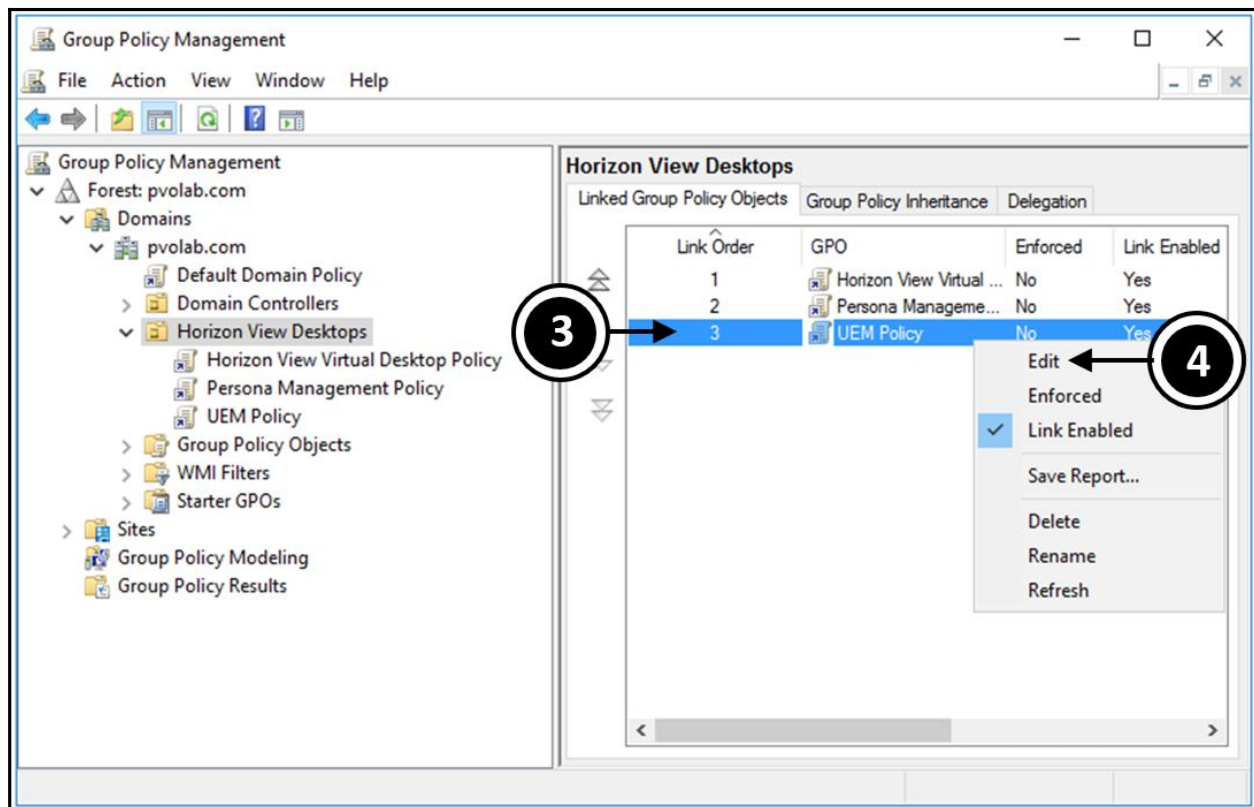


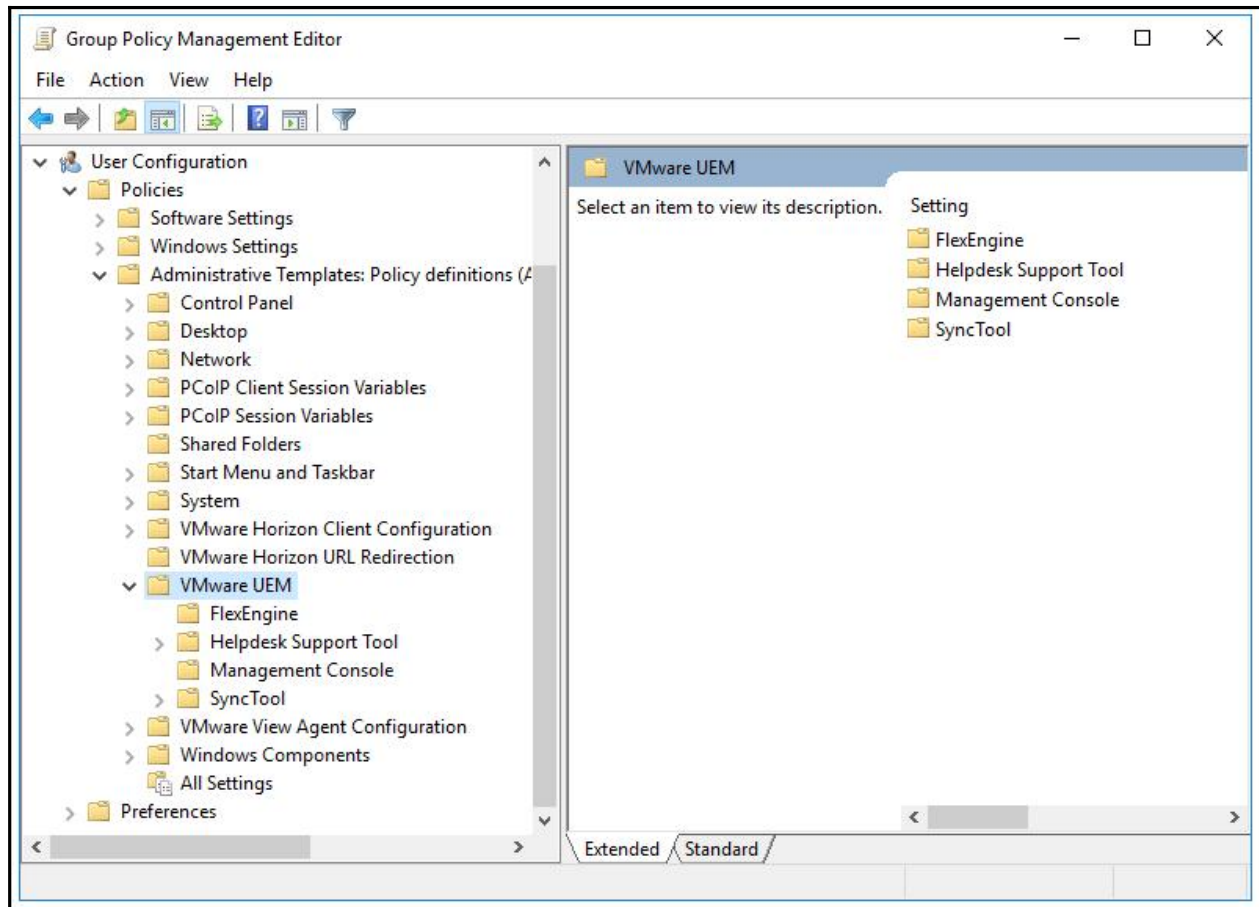


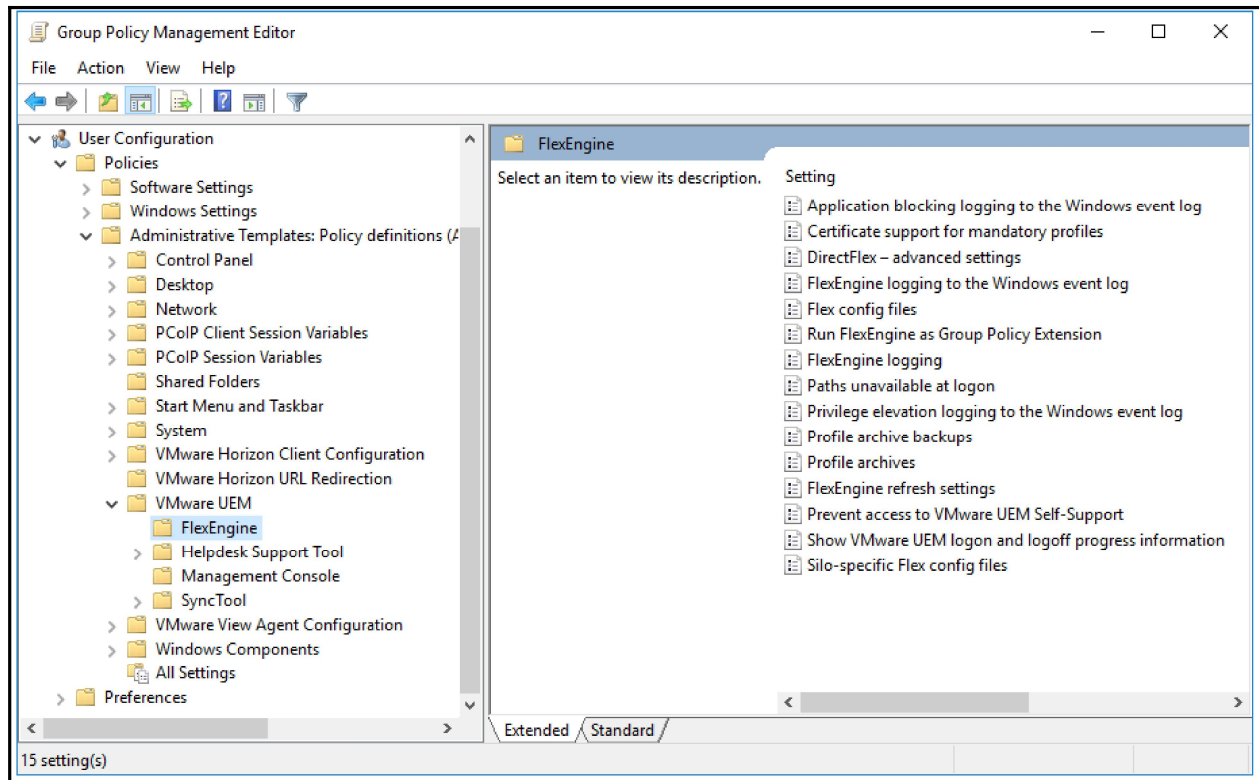




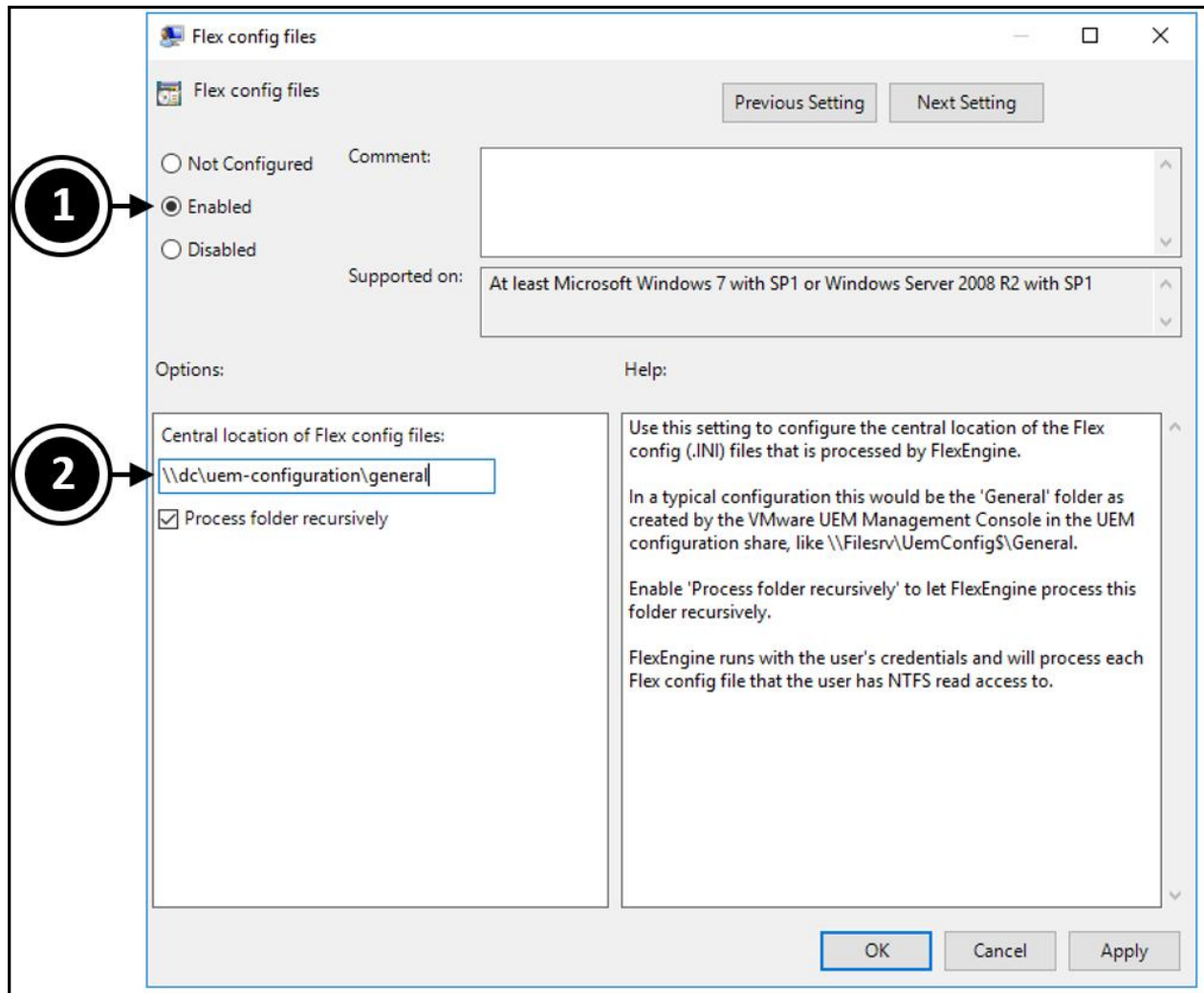


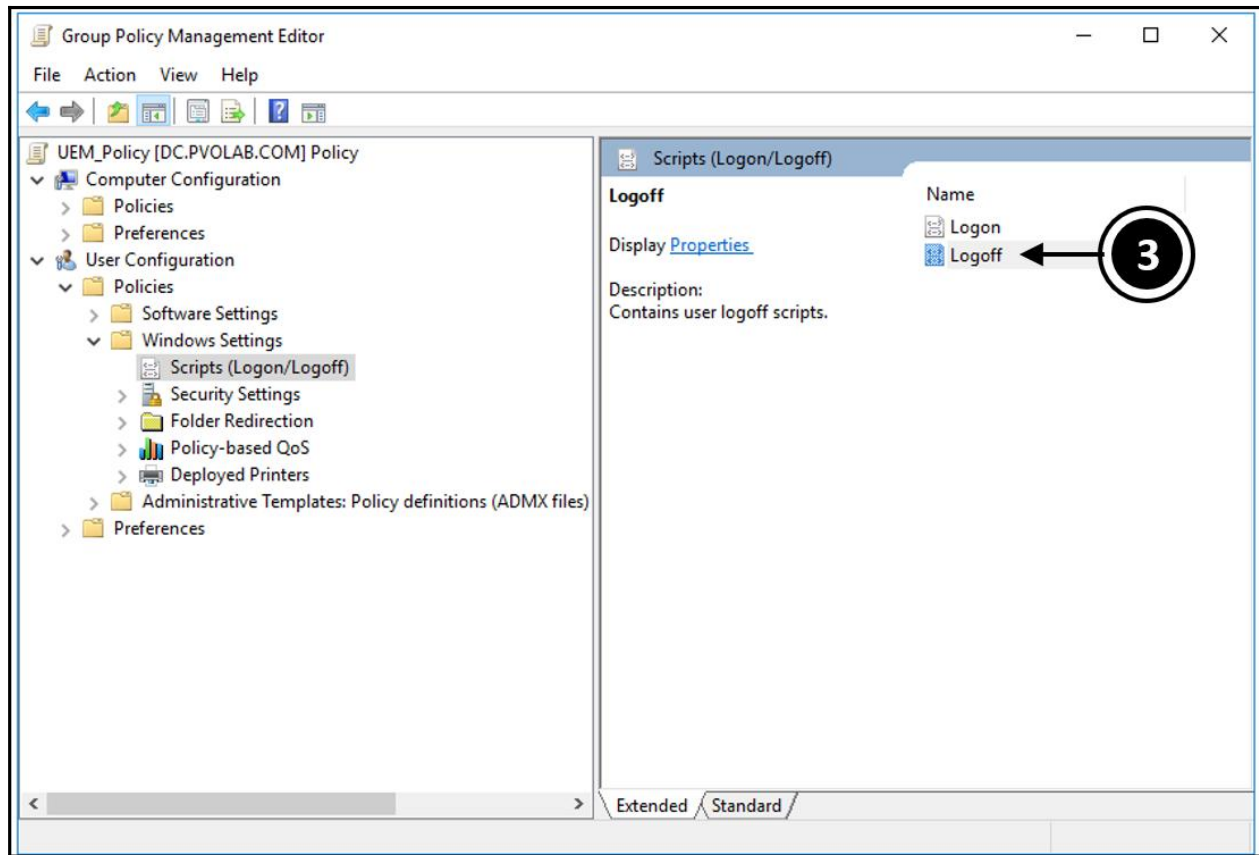


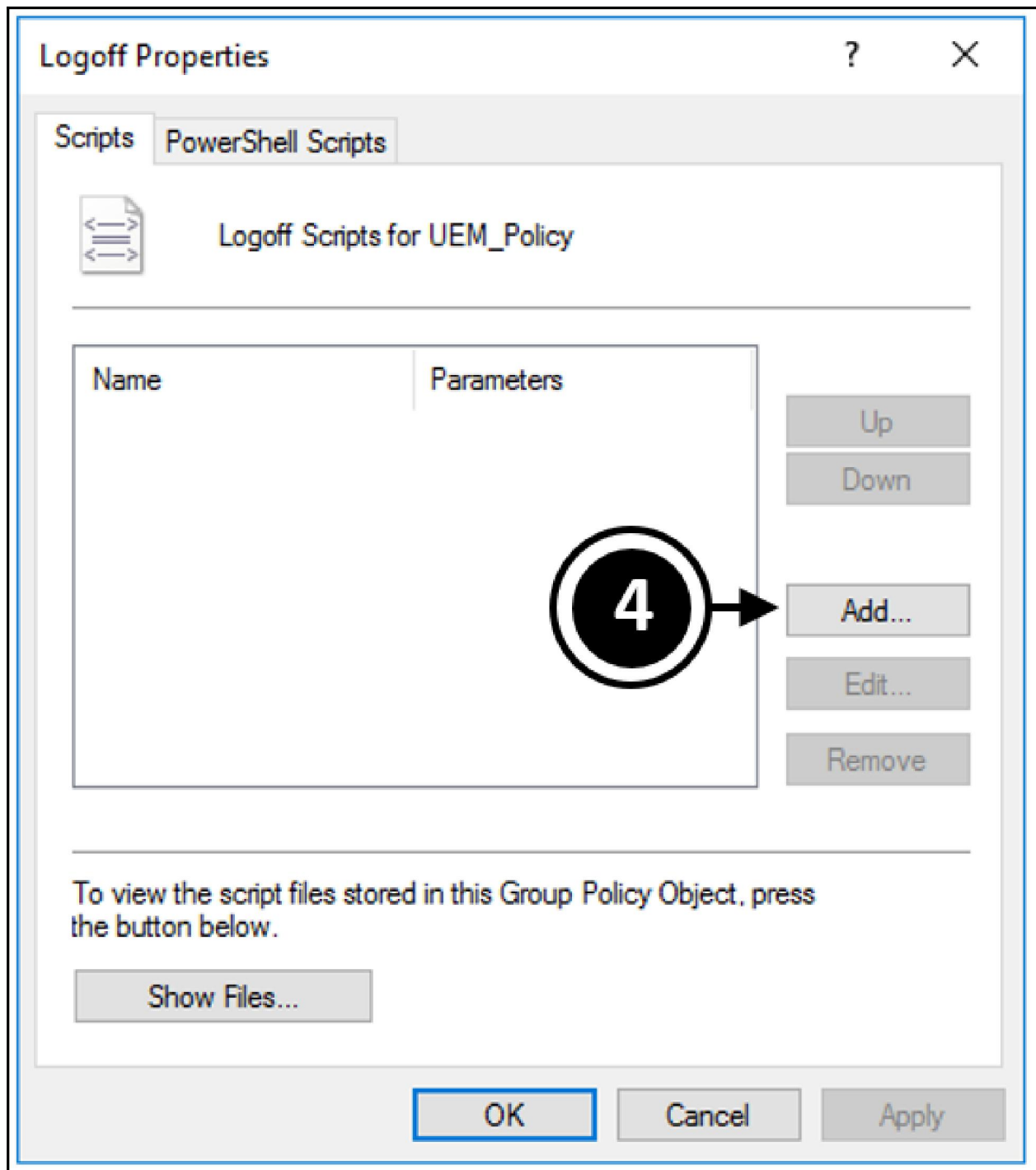


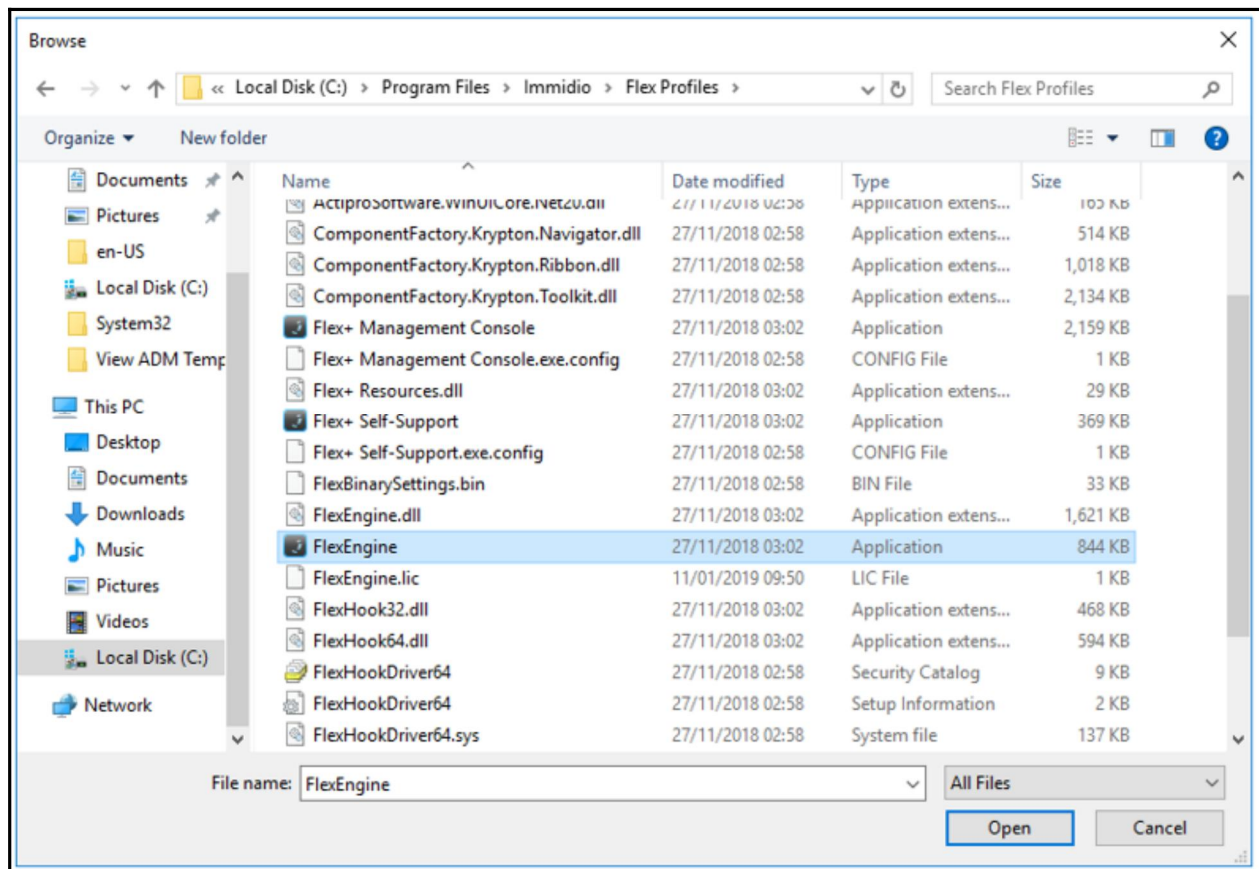
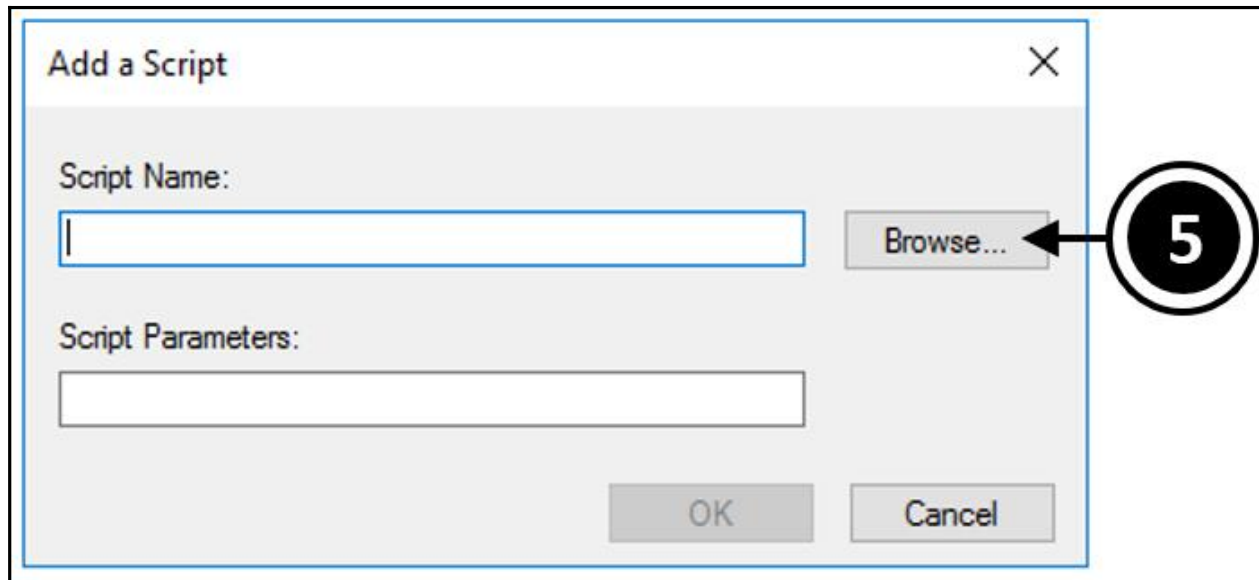


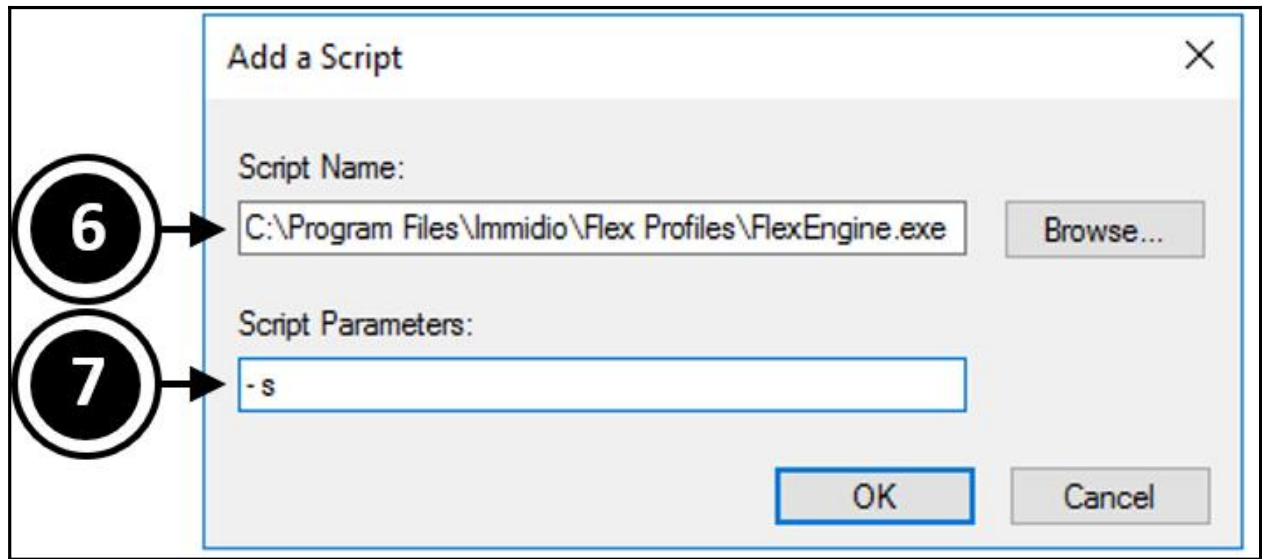


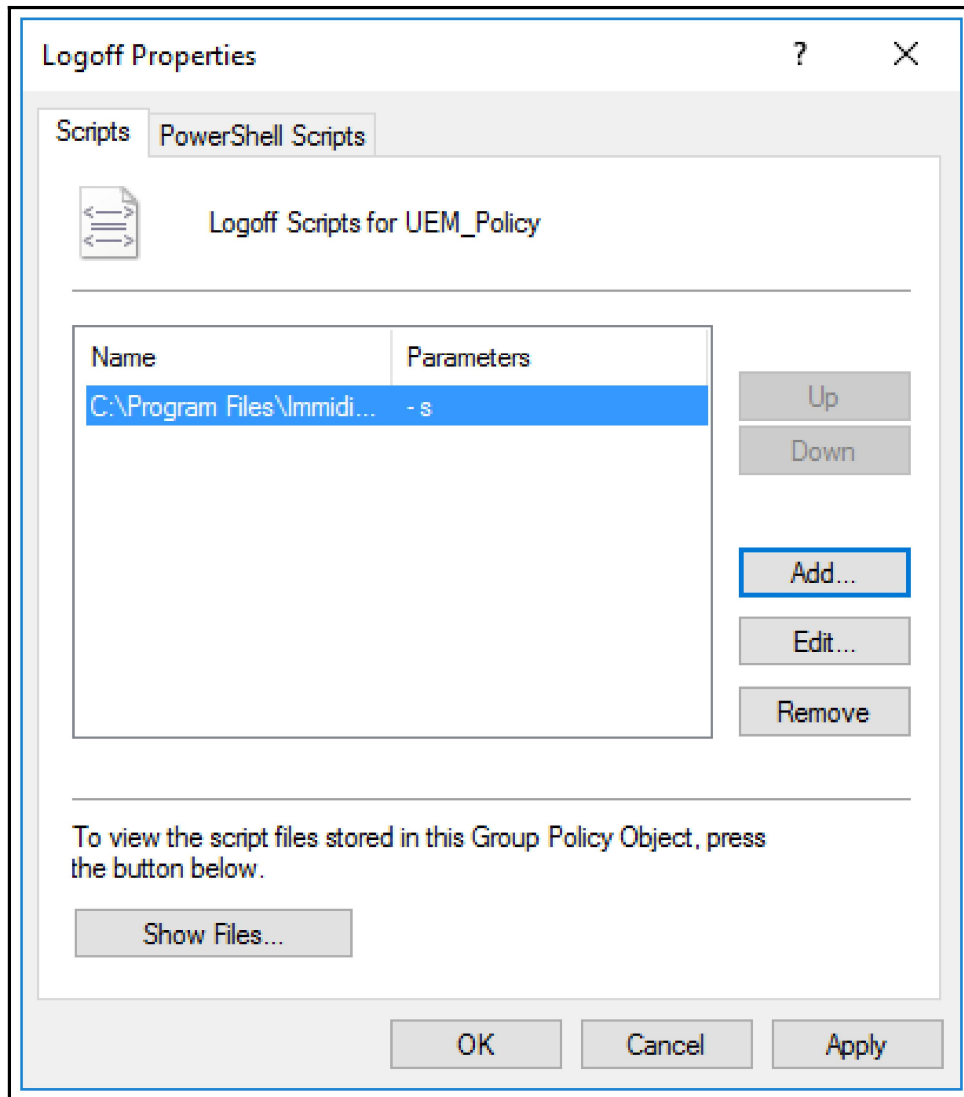


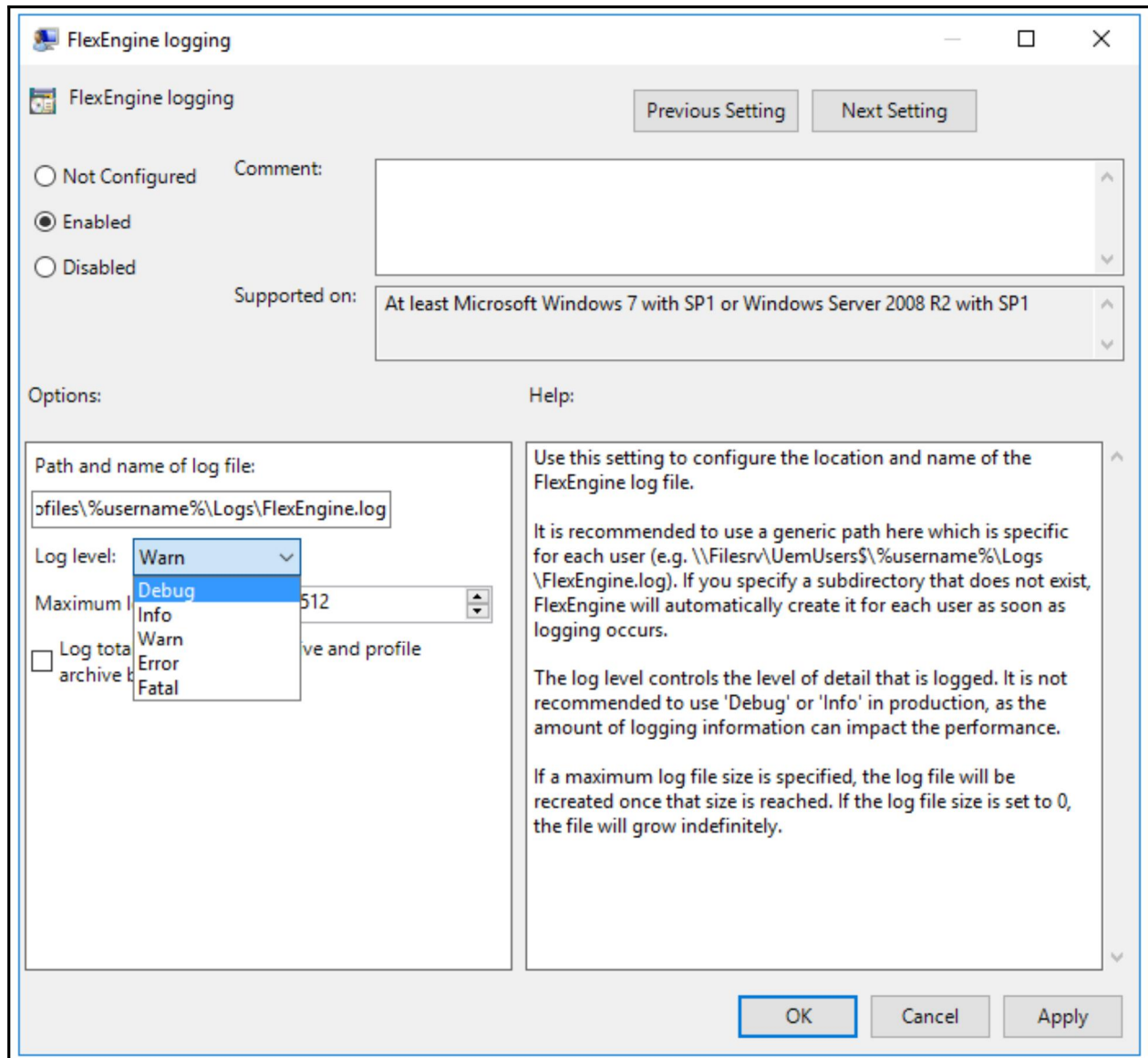


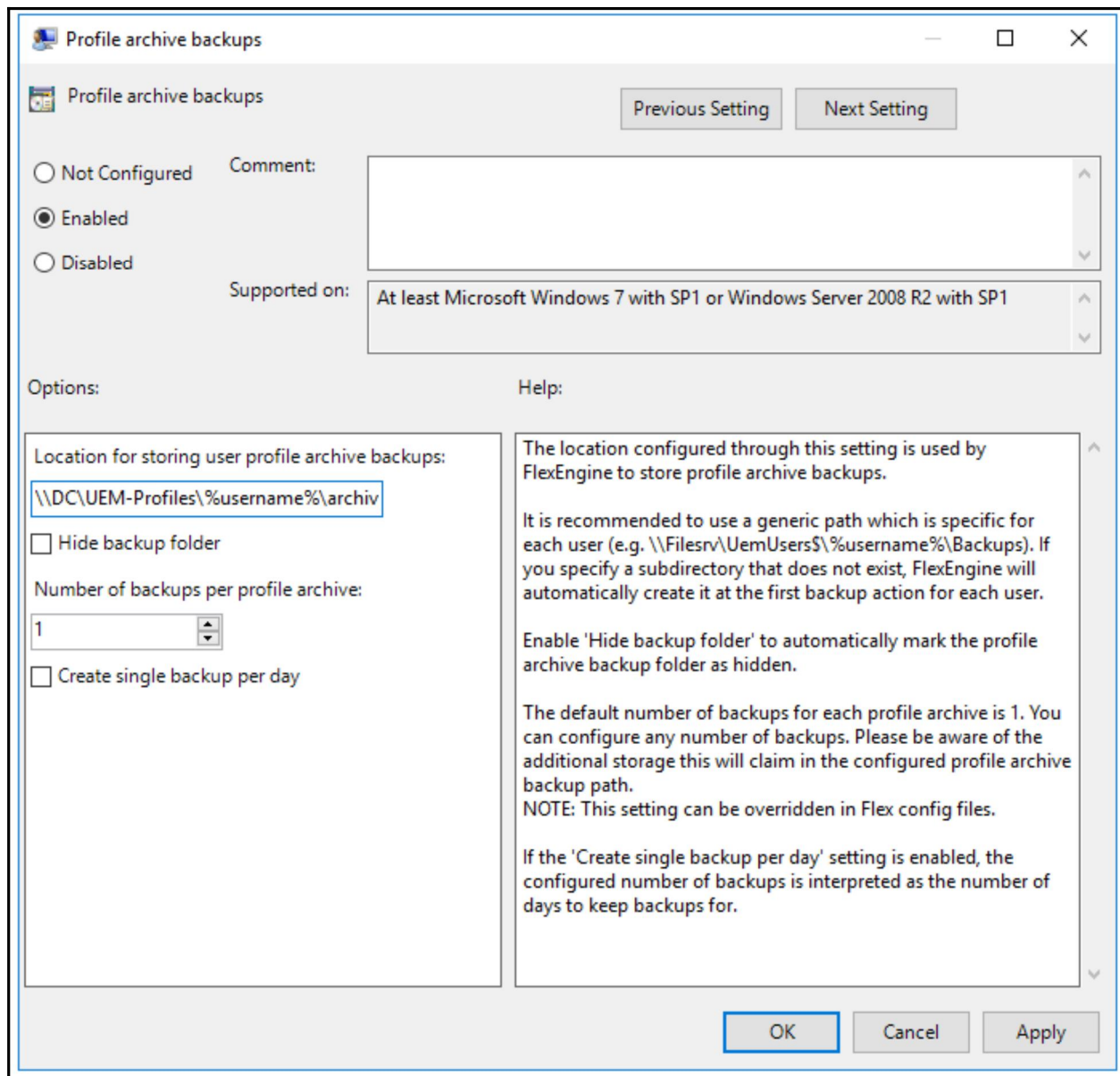




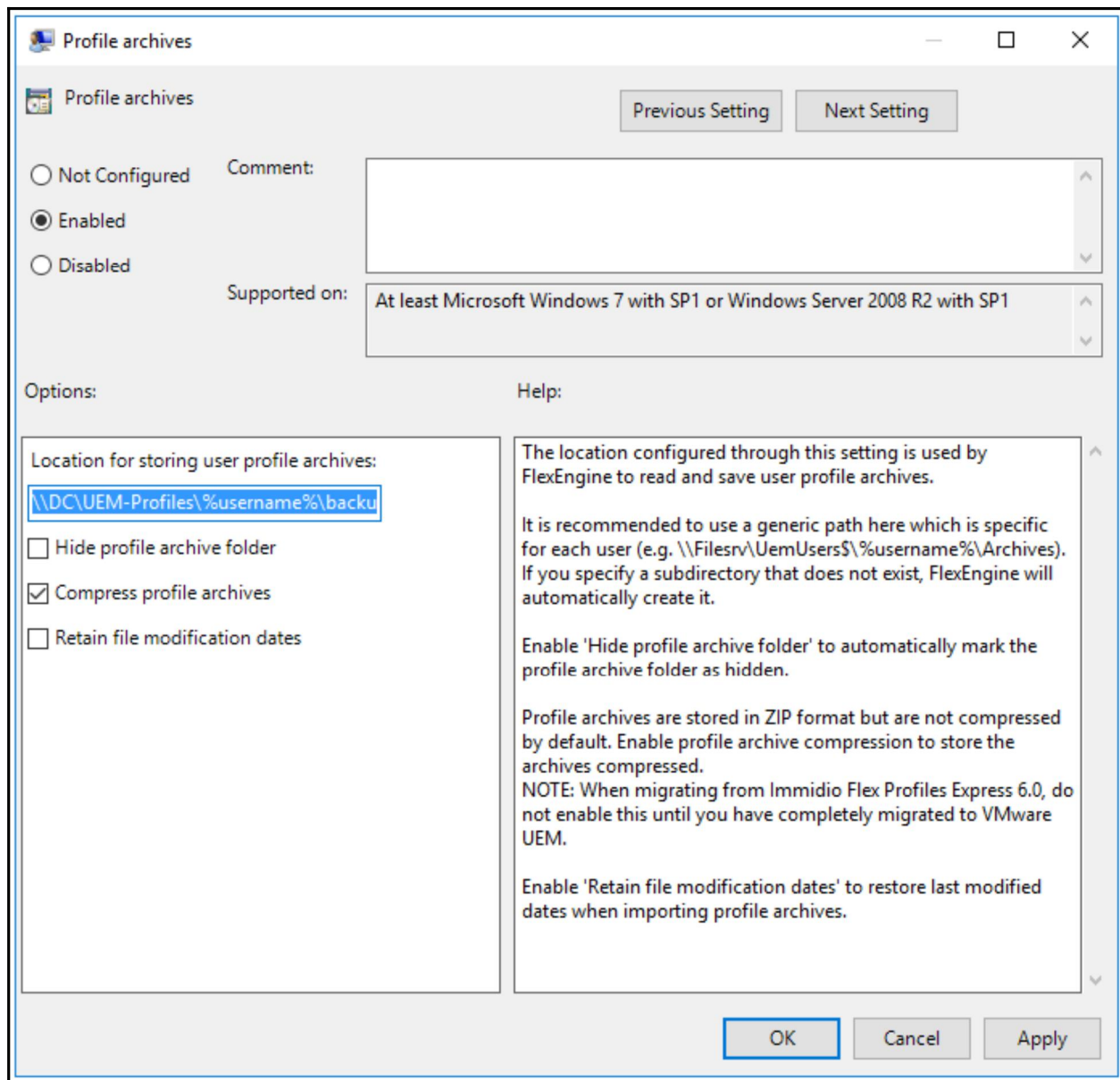


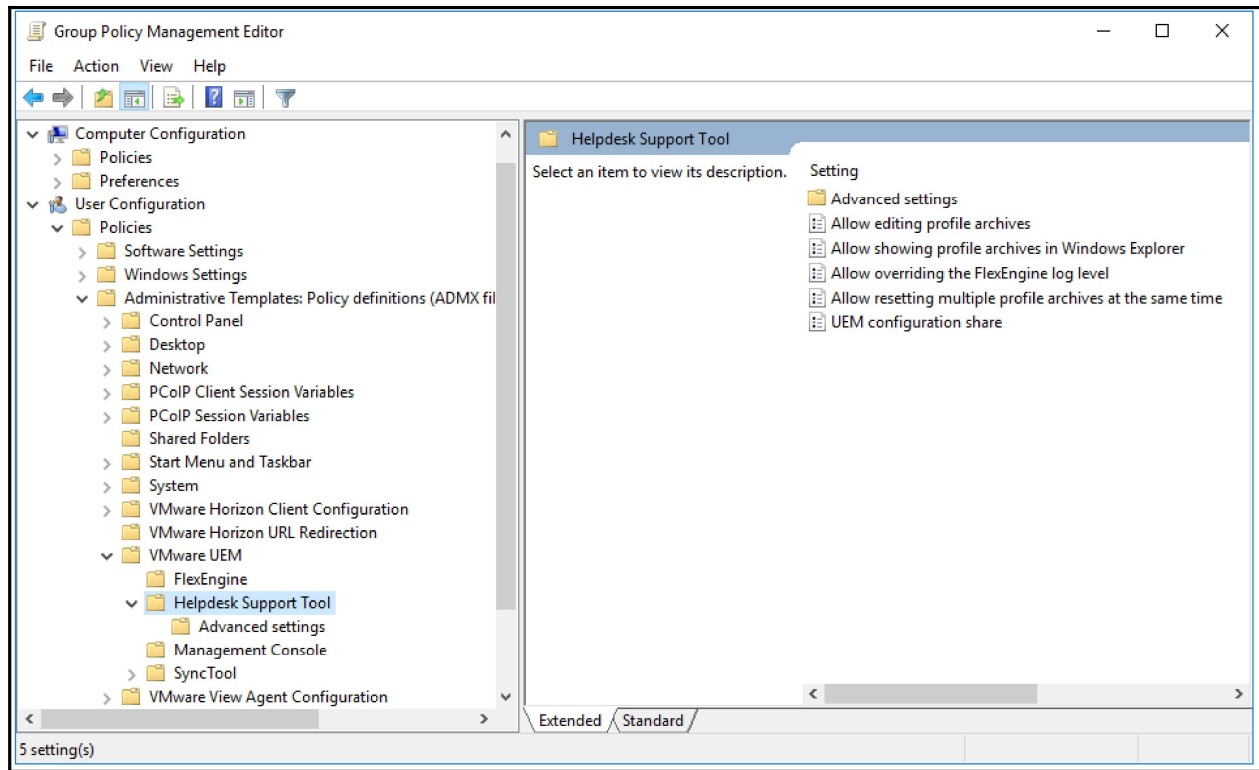


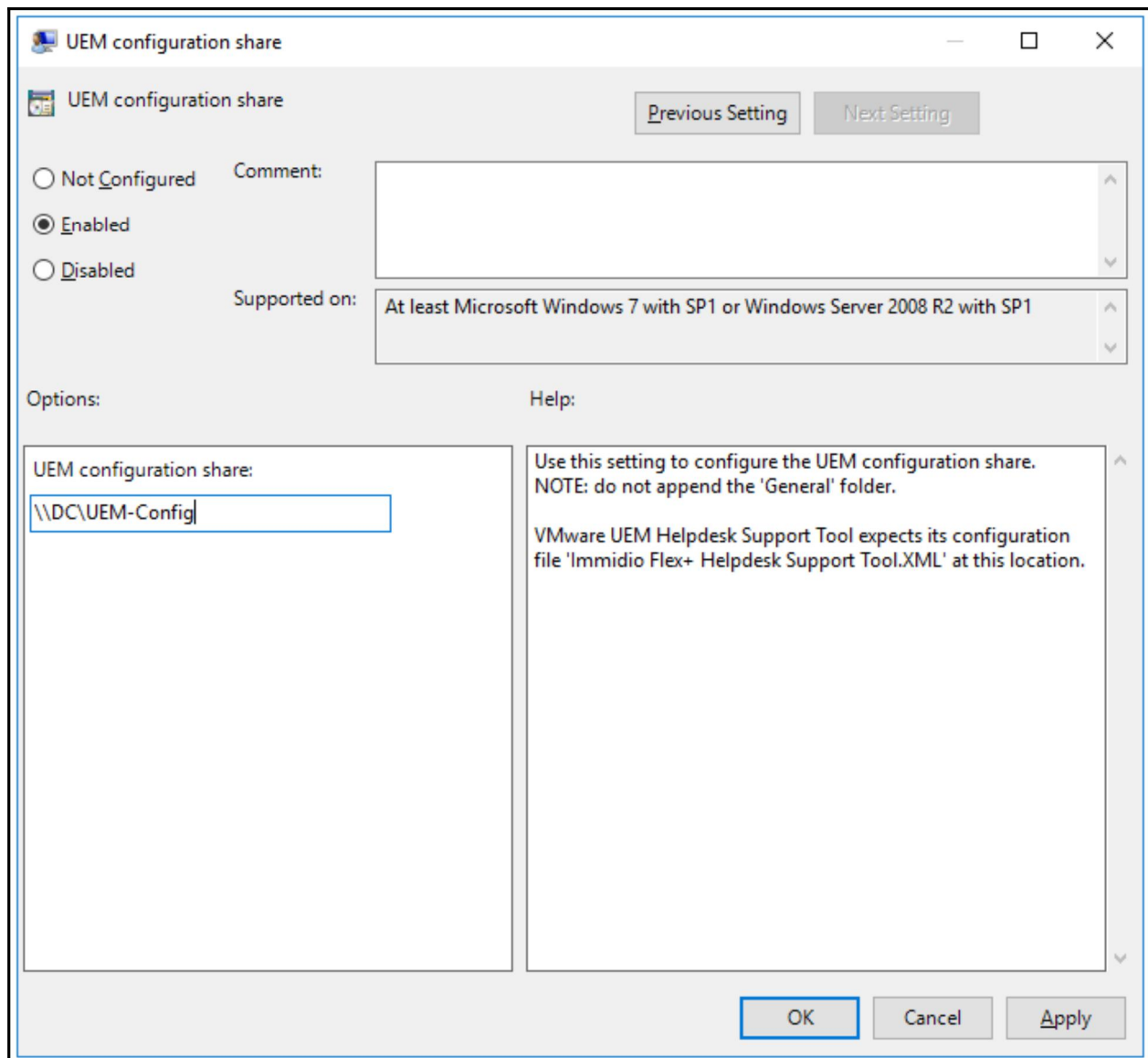




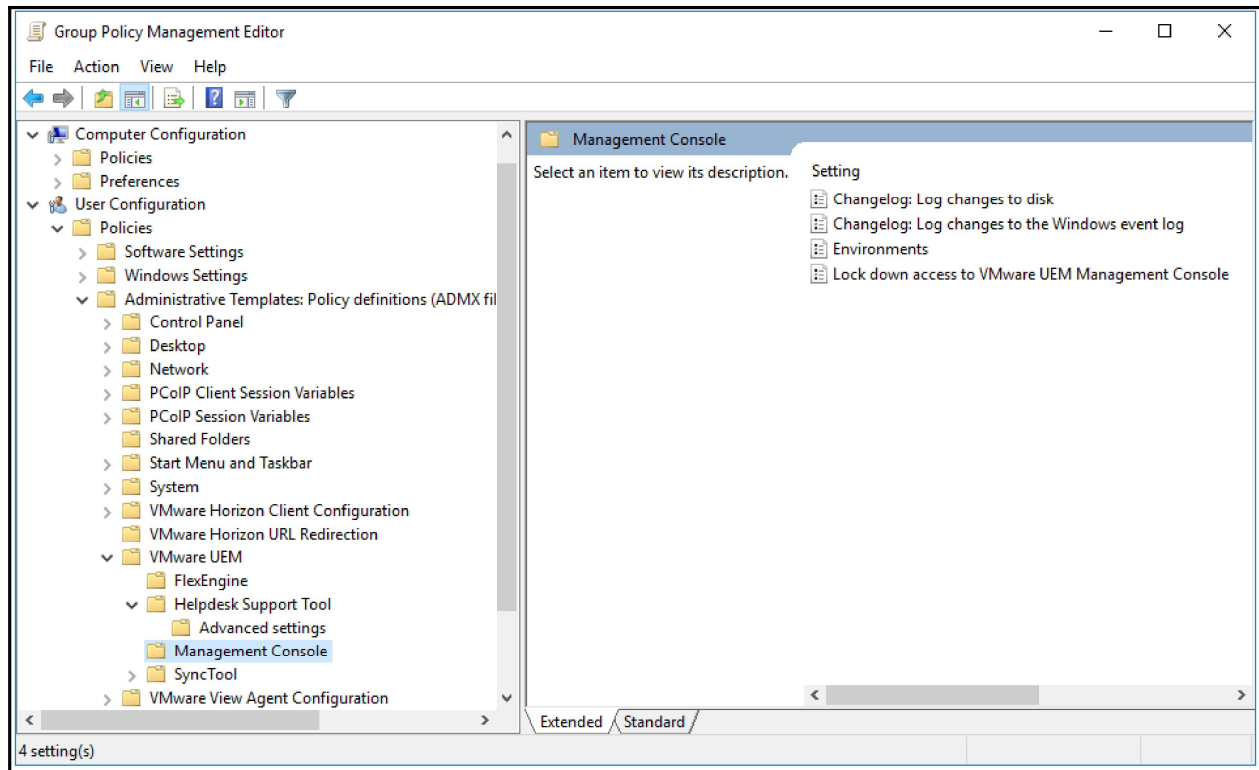


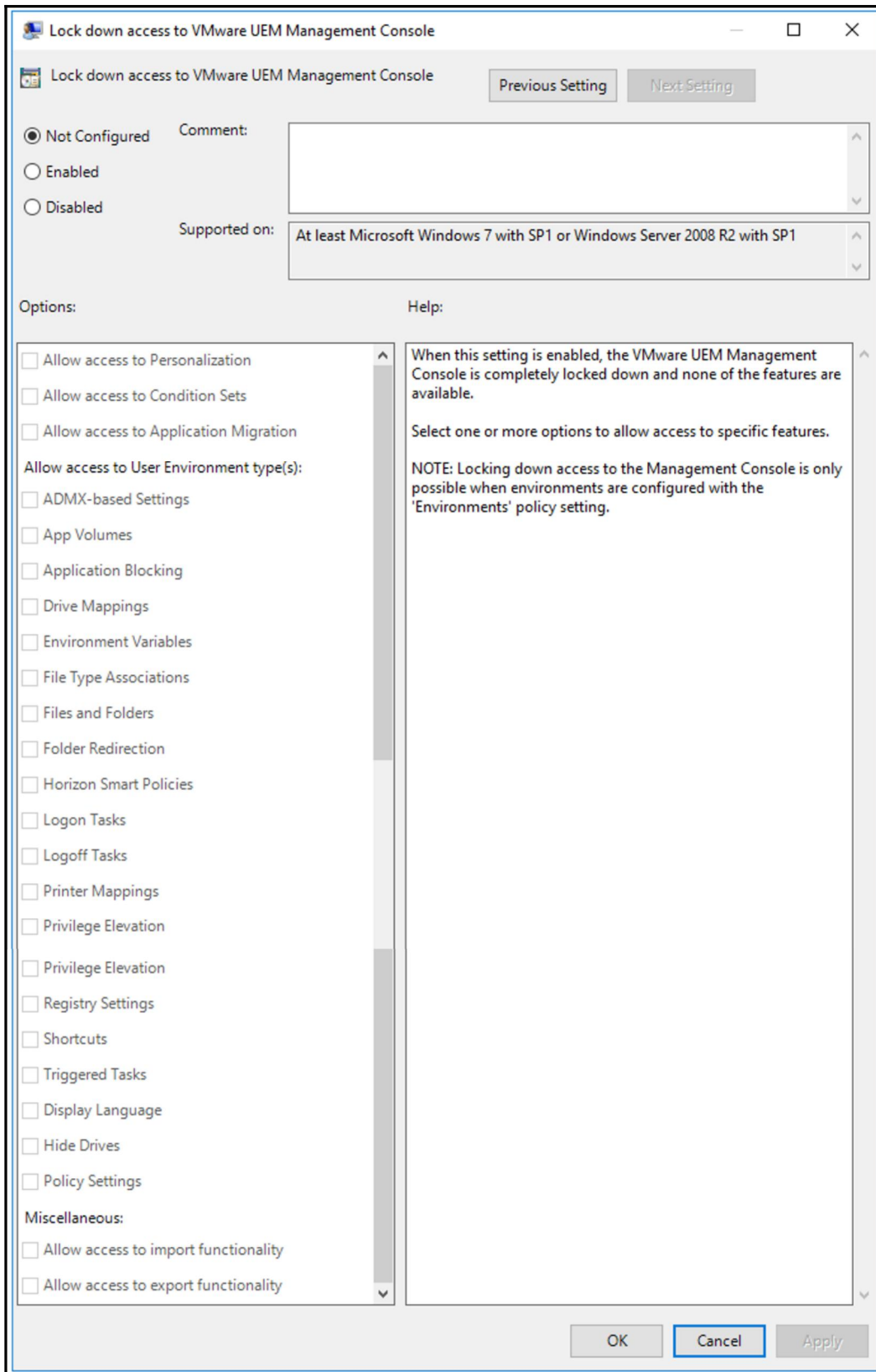


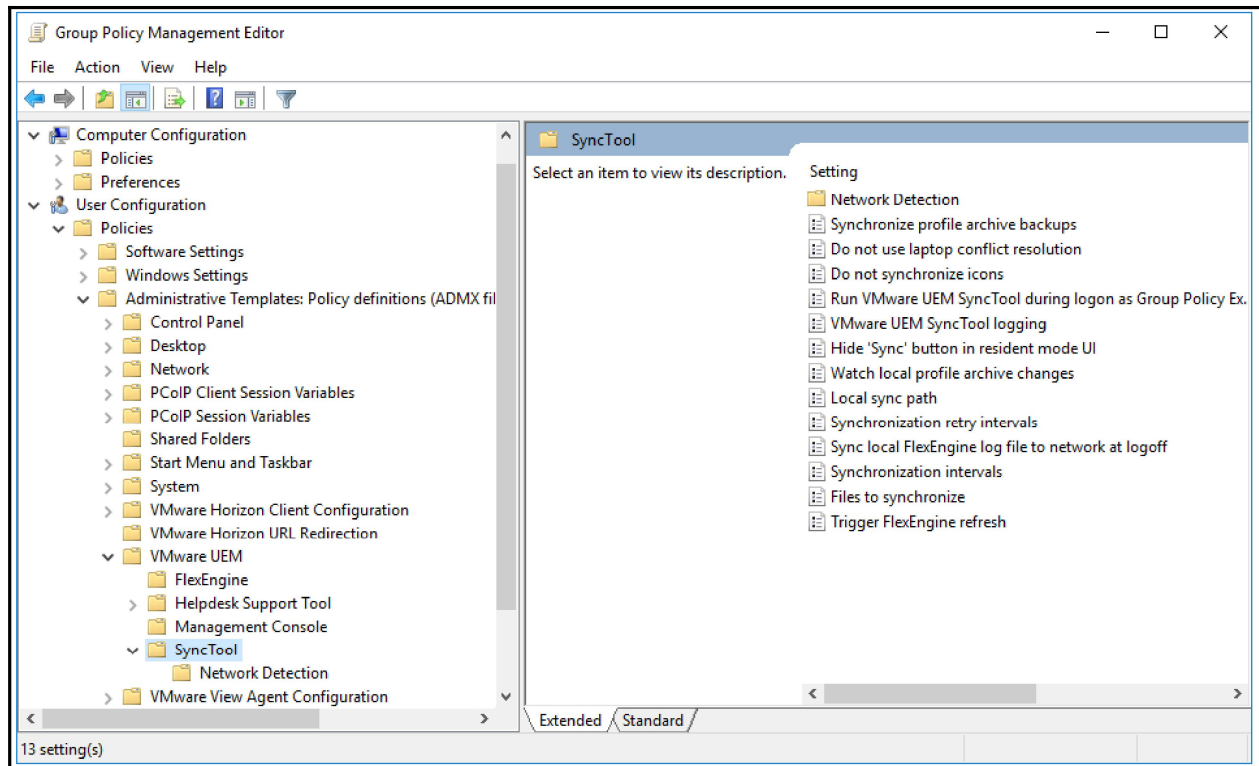


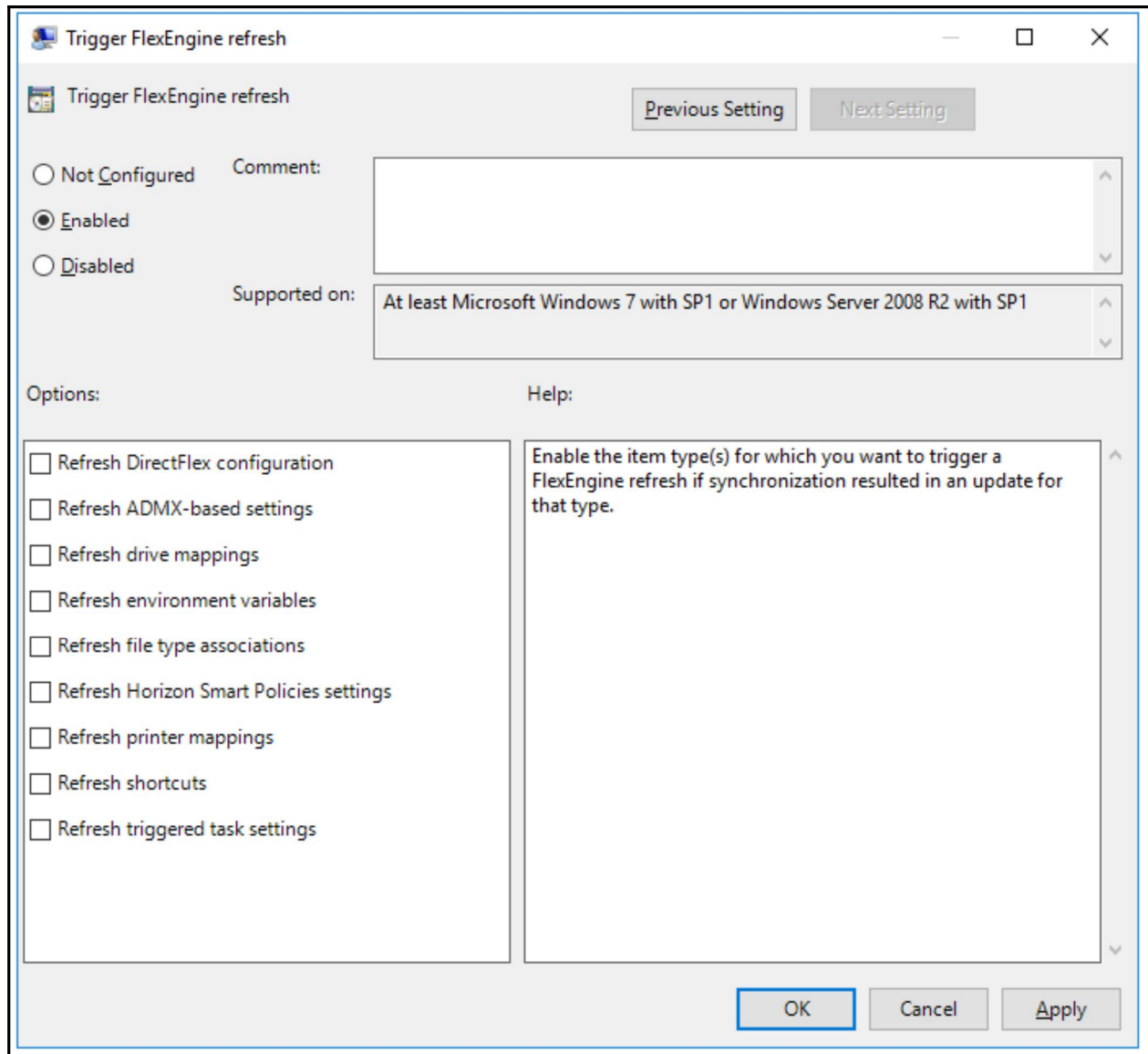


- Setting
- Disable copying NTFS permissions
  - Hide '<ALL>' from label drop-down









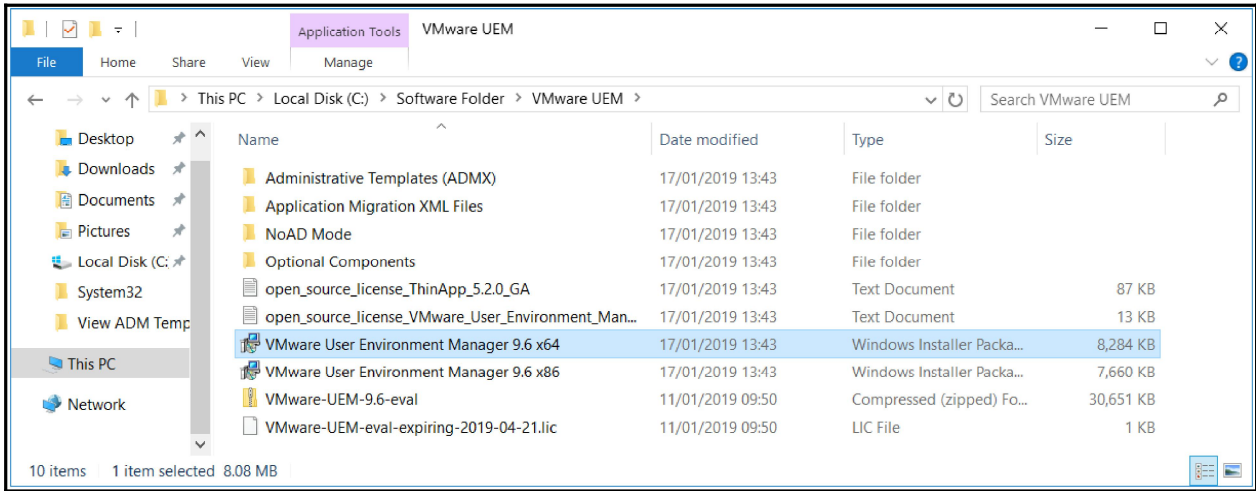
Setting

- ☰ Network measurement settings
- ☰ Force synchronization at logoff
- ☰ Force synchronization at logon
- ☰ Force synchronization in resident mode
- ☰ Network threshold: Latency
- ☰ Network threshold: Bandwidth
- ☰ Prefer IPv6 when resolving host names
- ☰ DFS namespace support

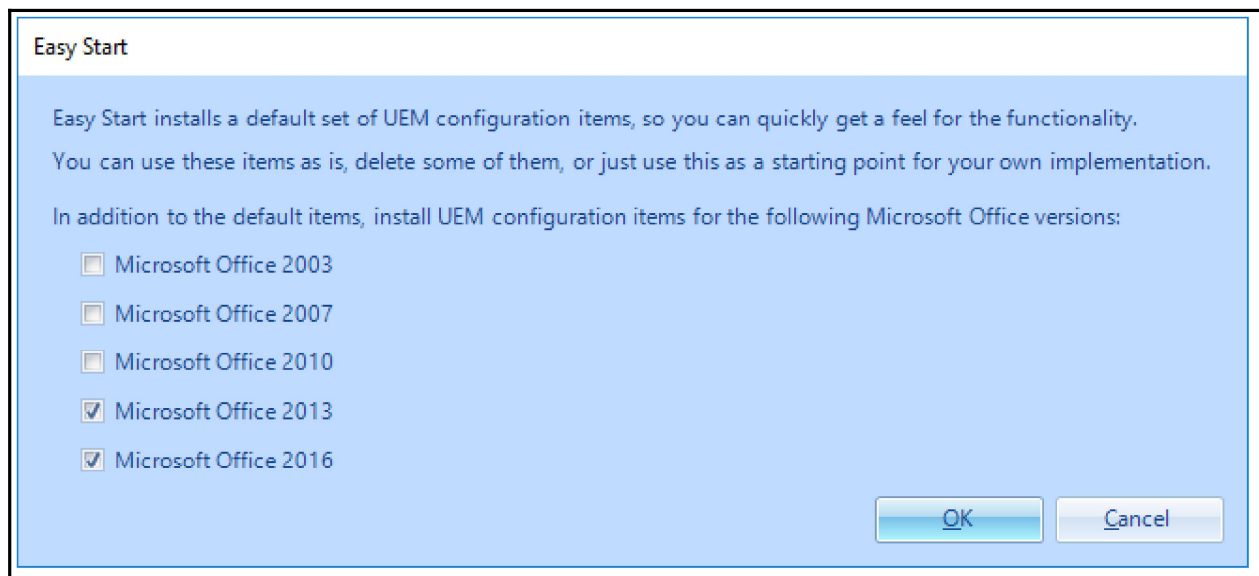
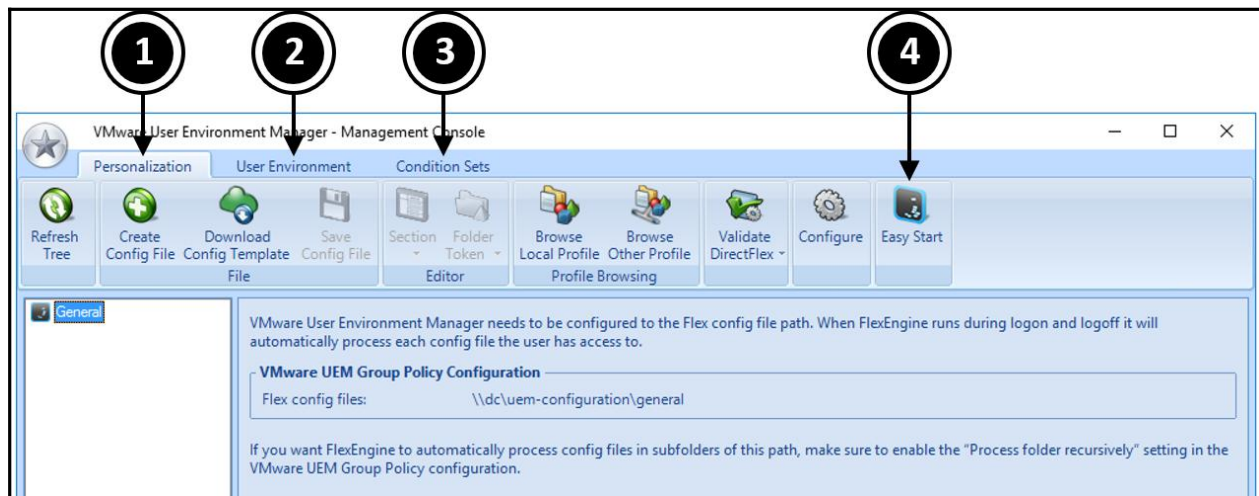
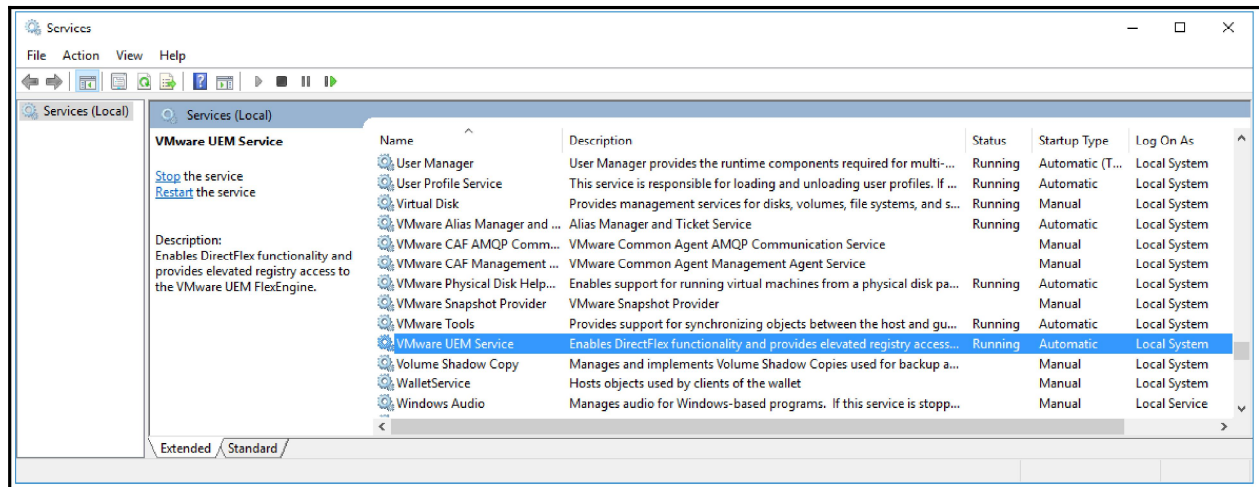
Force sync at logoff

Only the following file types:

- Force sync of Flex Config
- Force sync of FlexRepository
- Force sync of Profile Archives







## Easy Start

The Easy Start default UEM configuration items have been installed successfully.

You can now explore these items in the 'Personalization', 'User Environment', and 'Condition Sets' ribbon tabs.

OK

The screenshot shows the VMware User Environment Manager - Management Console interface. The window title is "VMware User Environment Manager - Management Console". The ribbon includes "Personalization", "User Environment", and "Condition Sets". The "User Environment" ribbon is active, showing options like "Refresh Tree", "Create Config File", "Download Config Template", "Save Config File", "Section Editor", "Folder Token", "Browse Local Profile", "Browse Other Profile", "Validate DirectFlex", and "Configure".

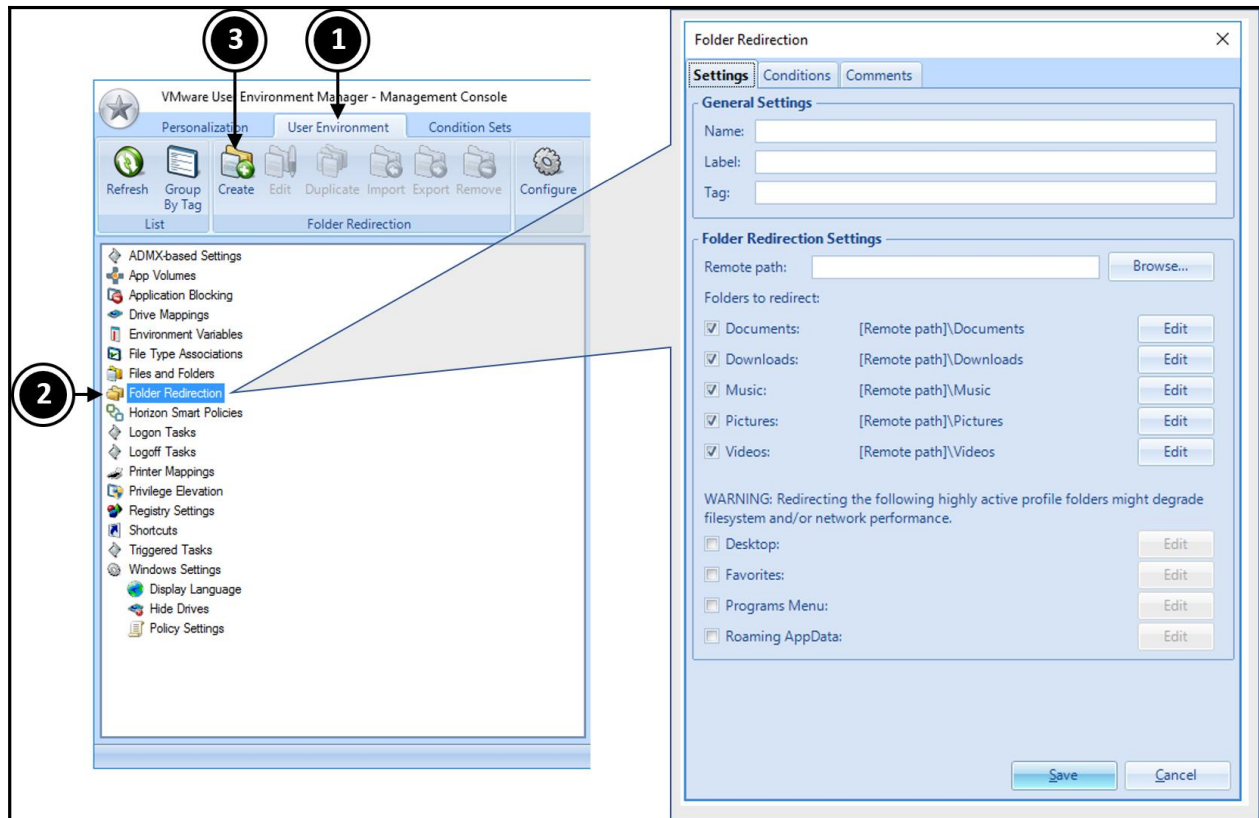
The left pane shows a tree view under "General" with folders for "Microsoft Office 2013" and "Microsoft Office 2016". Under "Microsoft Office 2013", the "Word" folder is selected. The right pane shows the "Word" configuration editor with the "Import / Export" tab active. The editor contains the following text:

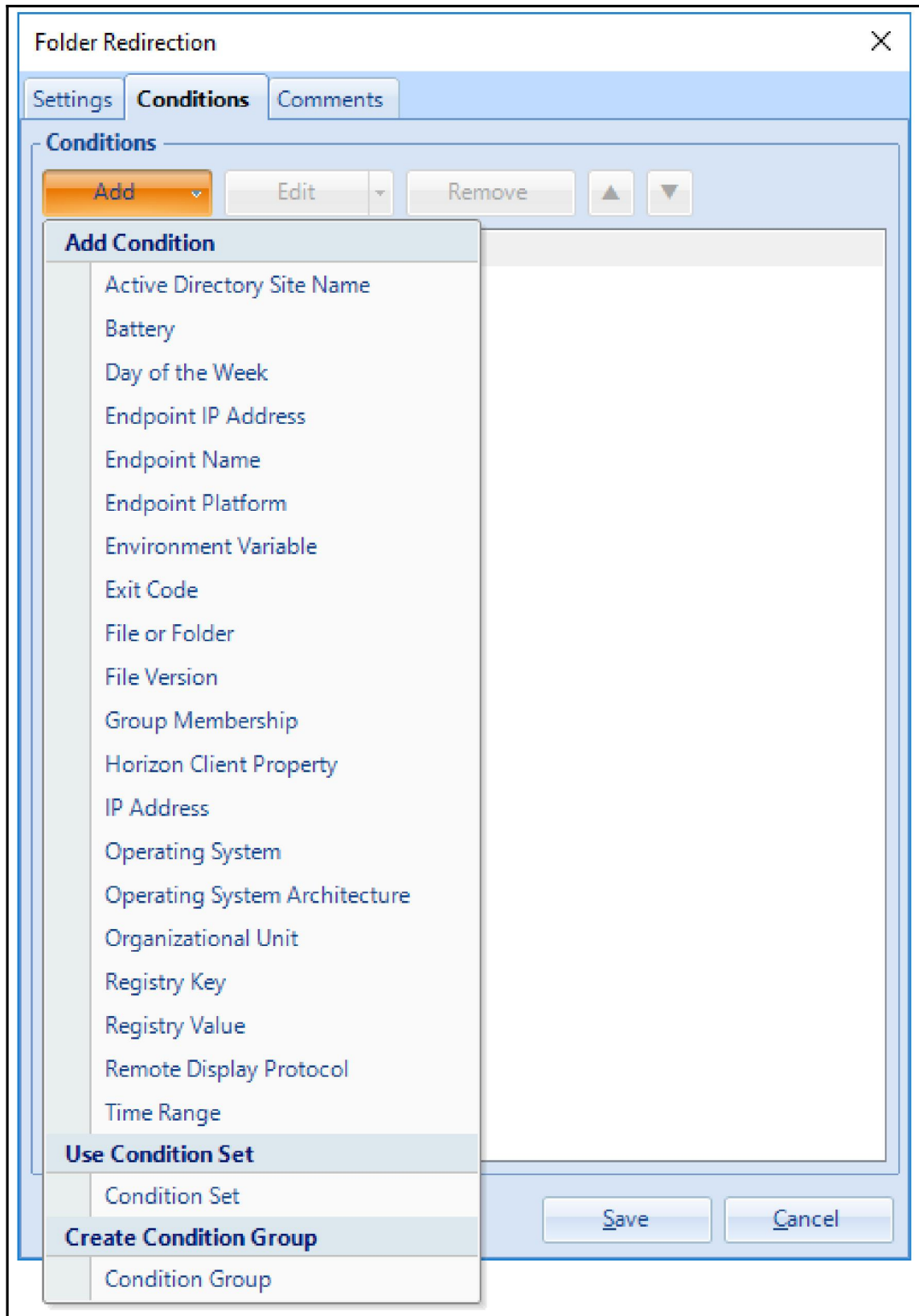
```
# This Flex config file references a built-in Microsoft Office 2013 application template.  
  
# A condition is configured (on the Conditions tab) to make sure this config file is only  
# processed when logging on and off on a machine where Office 2013 is installed in the default  
# installation directory.
```

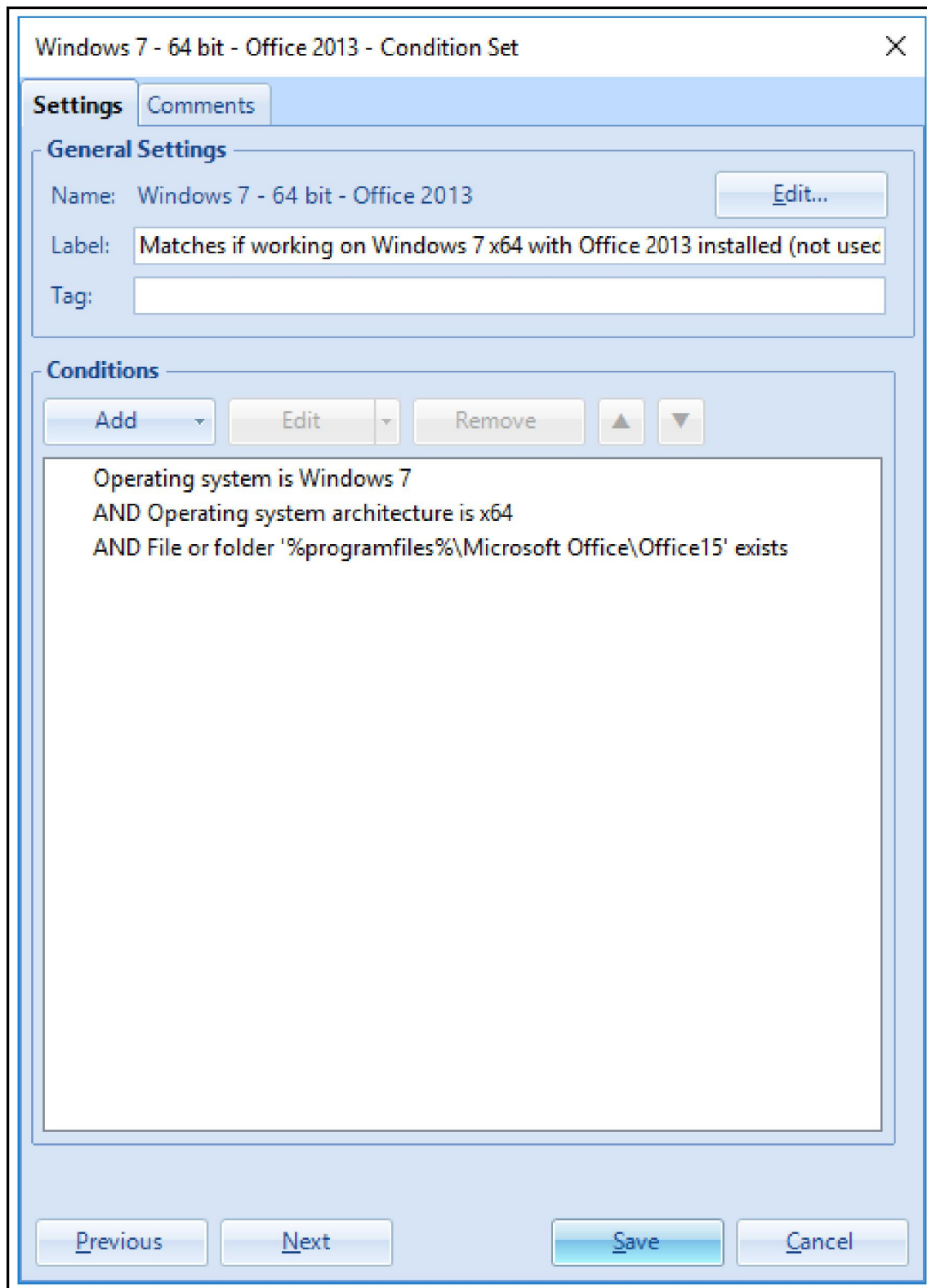
The status bar at the bottom of the console displays "No profile selected for profile browsing."

This is a close-up view of the "Word" configuration editor. The "Import / Export" tab is selected, and the text area contains the same configuration text as seen in the previous screenshot:

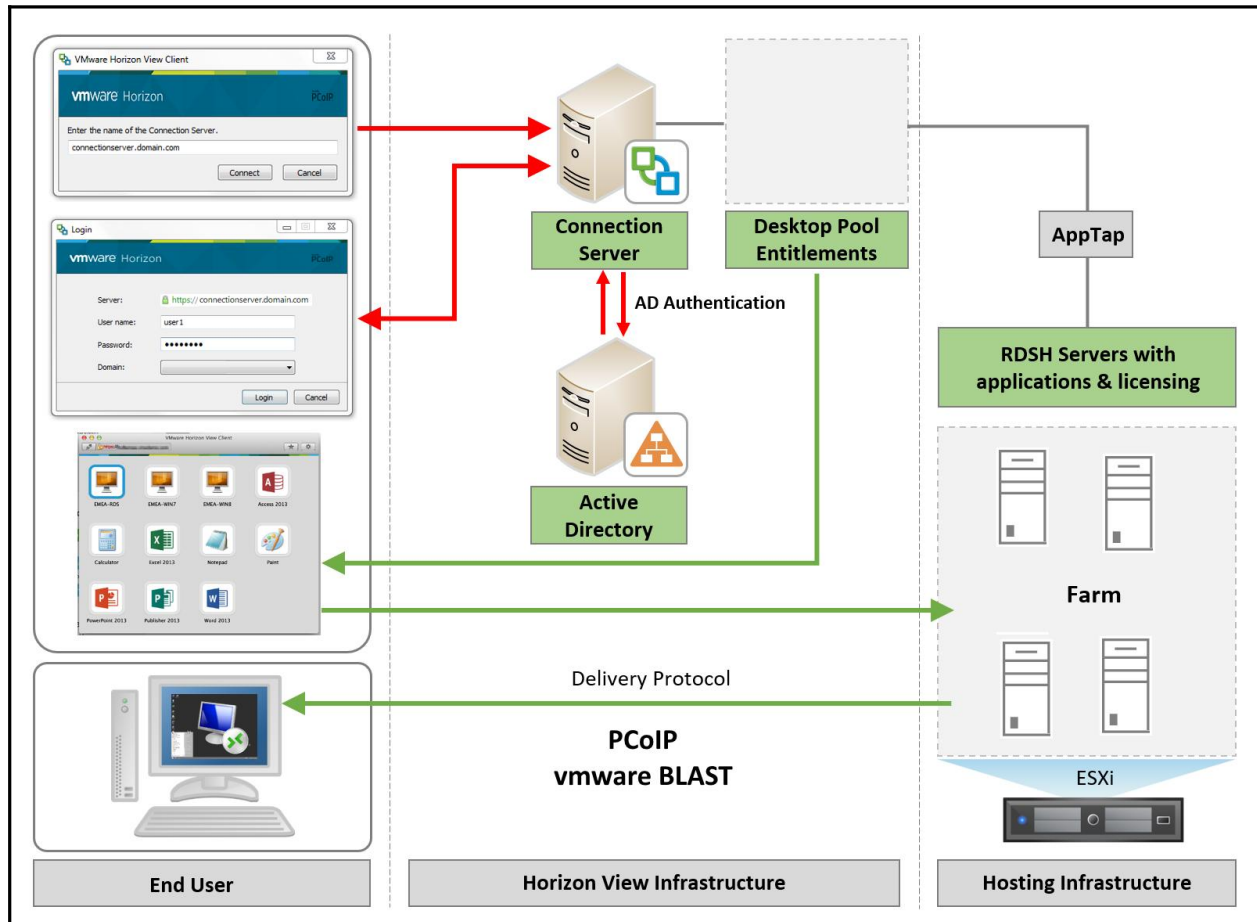
```
# This Flex config file references a built-in Microsoft Office 2013 application template.  
  
# A condition is configured (on the Conditions tab) to make sure this config file is only  
# processed when logging on and off on a machine where Office 2013 is installed in the default  
# installation directory.
```



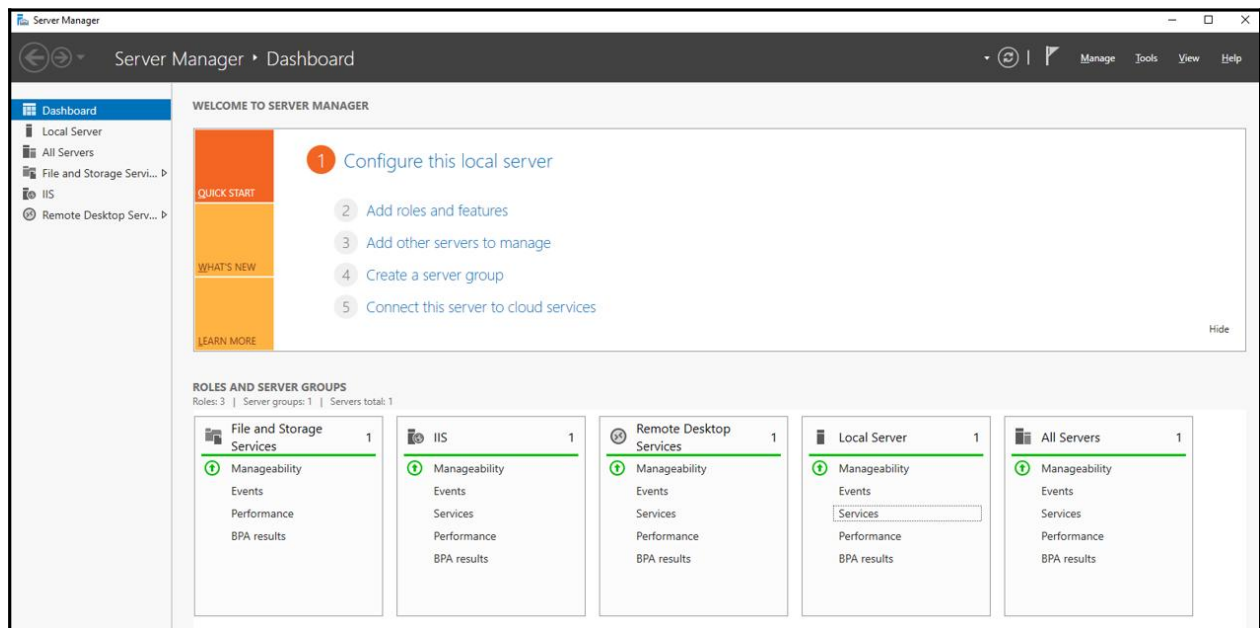
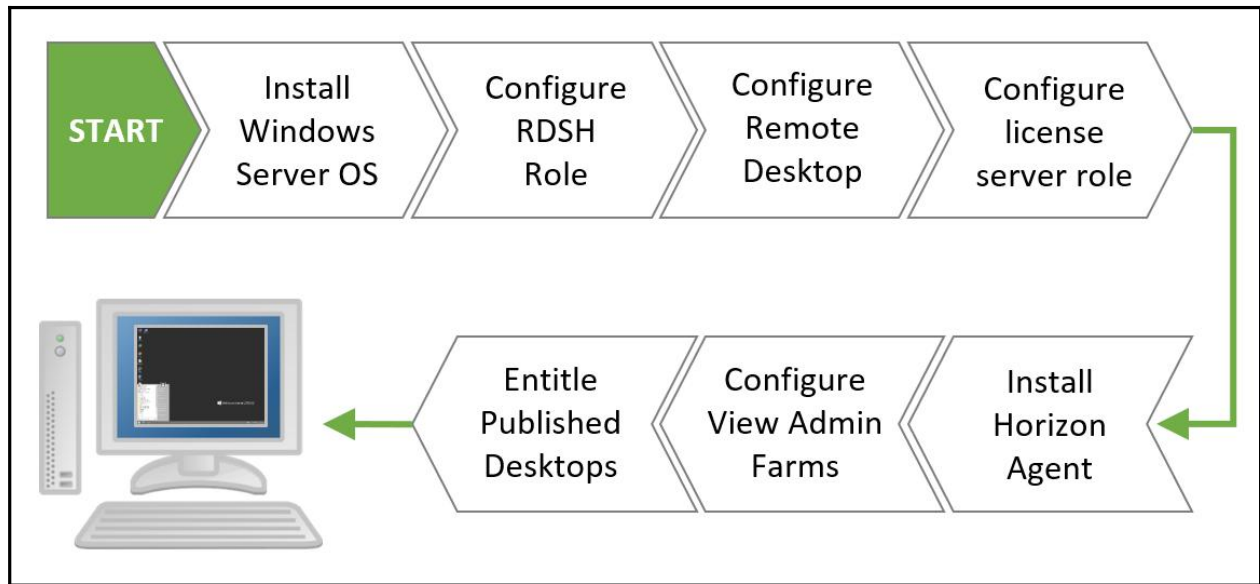




# Chapter 18: Delivering Published Desktops with Horizon 7



	Memory	Use Case
Light User	512 MB	Basic application user such as Microsoft Office applications and some web browsing
Medium User	768 MB	Running multiple Microsoft Office applications and light user of multi-media, and more intensive web browsing
Heavy User	1 GB	Advanced application user running 3D-based applications and multi-media, and heavy web-browsing



**ROLES AND SERVER GROUPS**  
 Roles: 3 | Server groups: 1 | Servers total: 1

1

- File and Storage Services** 1
  - Manageability
  - Events
  - Services
  - Performance
  - BPA results
- IIS** 1
  - Manageability
  - Events
  - Services
  - Performance
  - BPA results
- Remote Desktop Services** 1
  - Manageability
  - Events
  - Services
  - Performance
  - BPA results

**REMOTEAPP PROGRAMS**  
 Last refreshed on 06/02/2019 16:19:41 | Published RemoteApp programs | 3 total

Filter  [Icons]

3

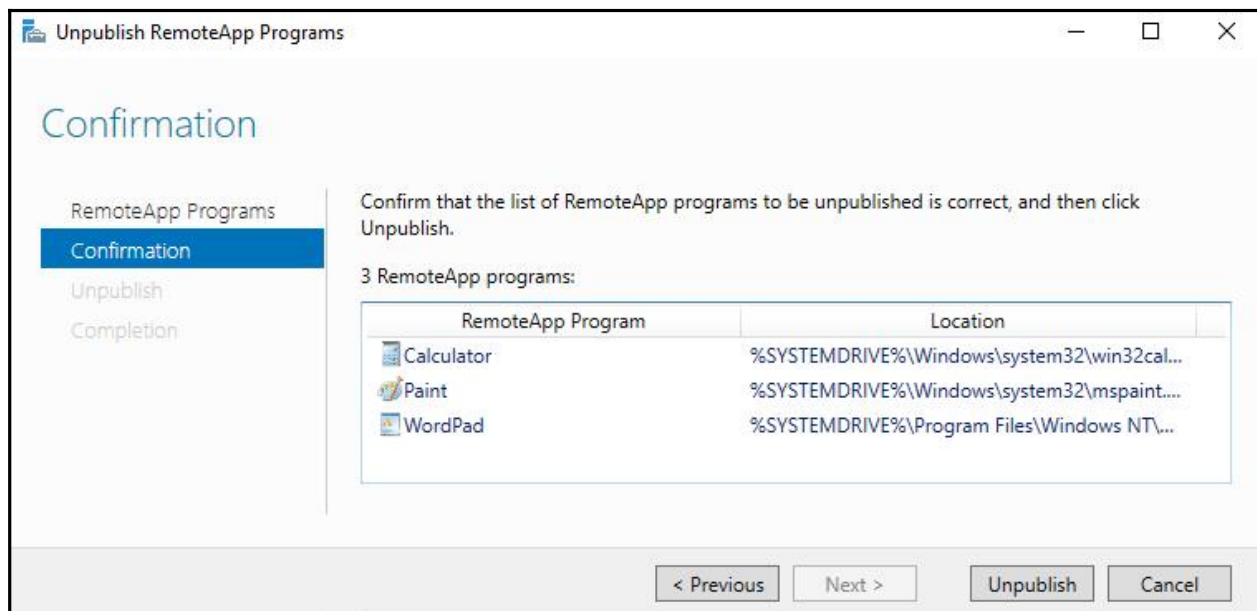
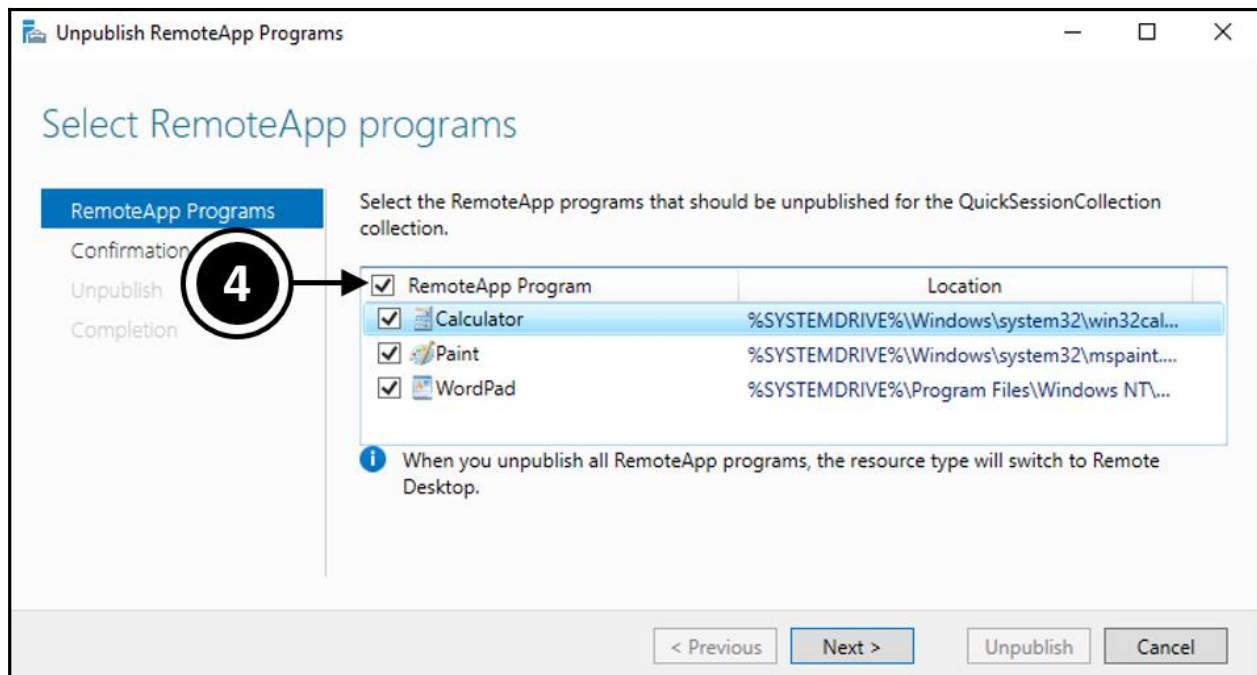
2

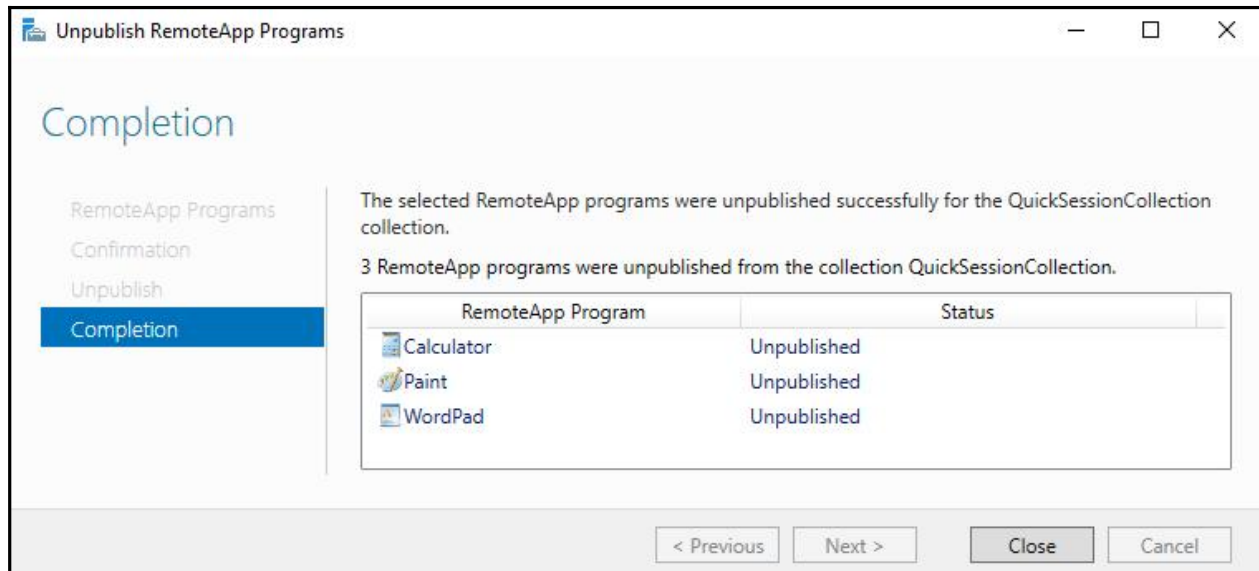
**TASKS**

- Publish RemoteApp Programs
- Unpublish RemoteApp Programs

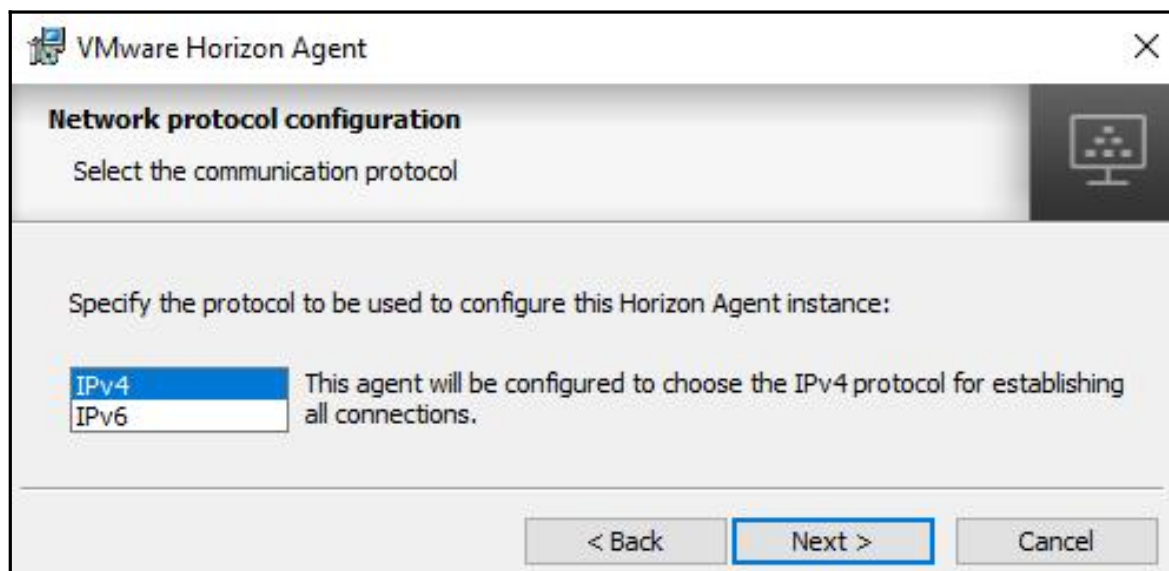
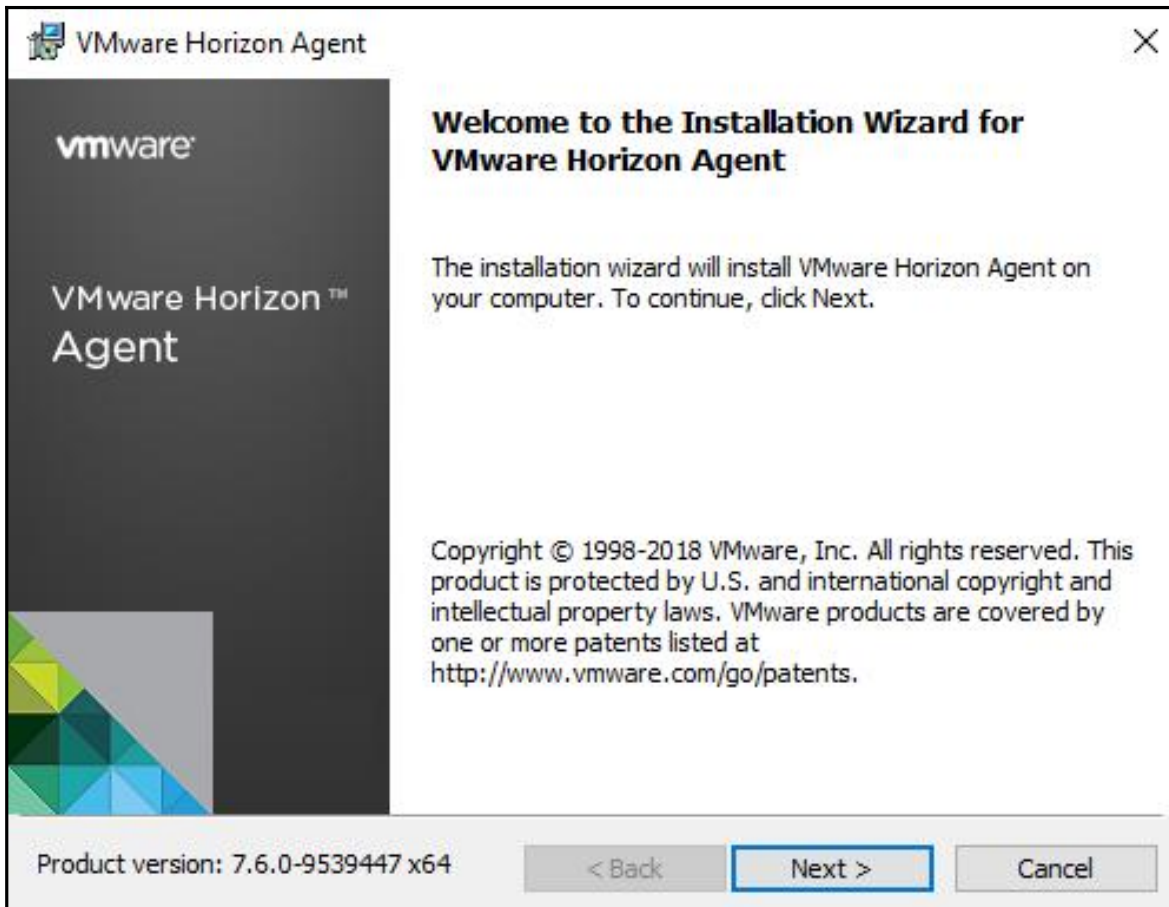
RemoteApp Program Name	Alias	Visible in RD Web Access
Calculator	Calculator	Yes
Paint	Paint	Yes
WordPad	WordPad	Yes

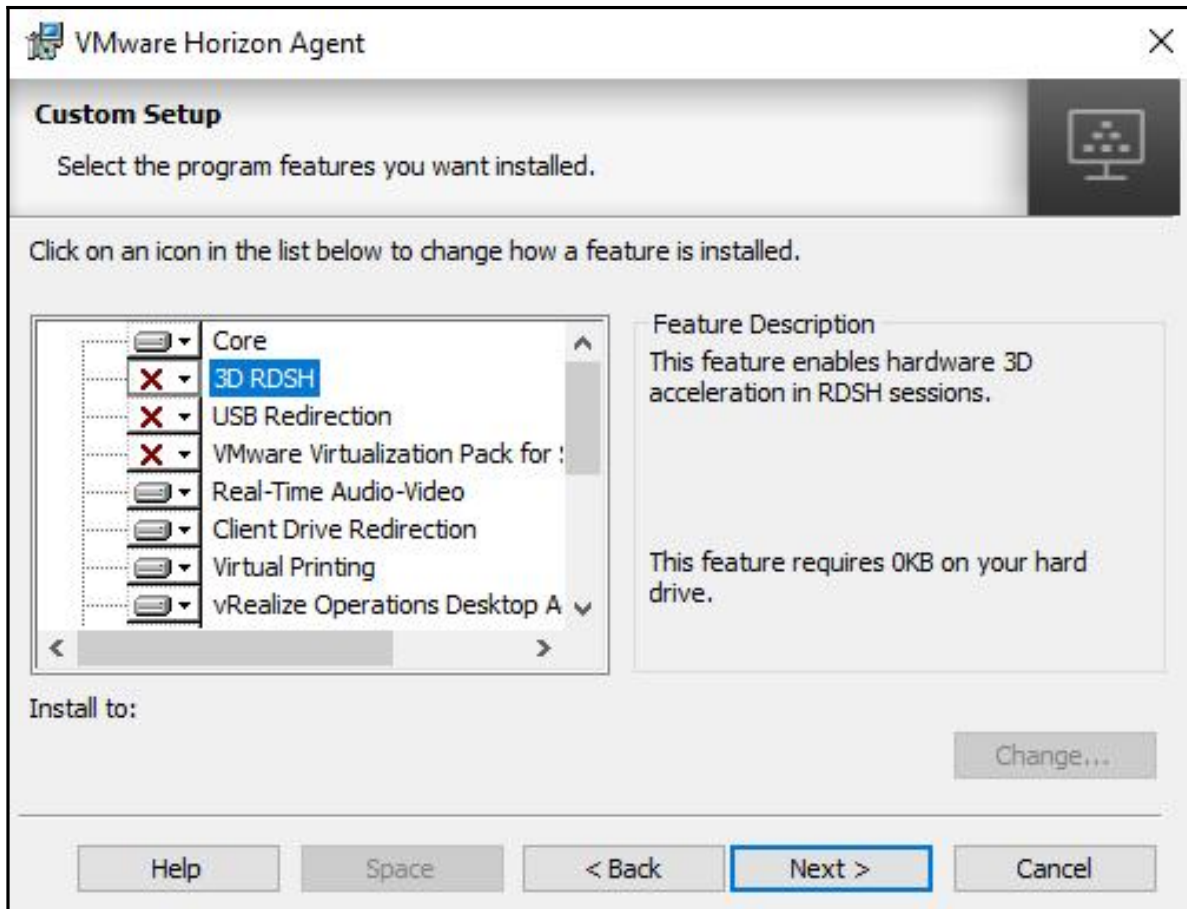






Name	Date modified	Type	Size
View ADM Templates	05/01/2019 10:03	File folder	
VMware OS Optimization Tool	07/12/2018 08:39	File folder	
VMware-Horizon-Agent-x86_64-7.6.0-9539447	02/11/2018 13:23	Application	225,043 KB
VMware-Horizon-Client-4.10.0-11021086	04/01/2019 16:51	Application	195,669 KB
VMware-Horizon-Connection-Server-x86_64-7.6.0-9823717	02/11/2018 13:26	Application	267,730 KB
VMware-Horizon-Extras-Bundle-4.9.0-9539668	04/12/2018 13:21	Compressed (zipp...	5,347 KB
VMware-Horizon-Persona-Management-x86_64-7.6.0-9539447	02/11/2018 13:25	Application	39,685 KB
VMware-Jmp-Installer-7.6.0-9823717	02/11/2018 13:28	Application	115,462 KB
VMware-viewcomposer-7.6.0-9491669	02/11/2018 13:27	Application	47,011 KB





VMware Horizon Agent

### Register with Horizon 7 Connection Server

Enter the Horizon 7 Connection Server that this machine will connect to.

Enter the server name of a Horizon 7 Connection Server (standard or replica instance) and administrator login credentials to register this machine with the Horizon 7 Connection Server.

(hostname or IP address)

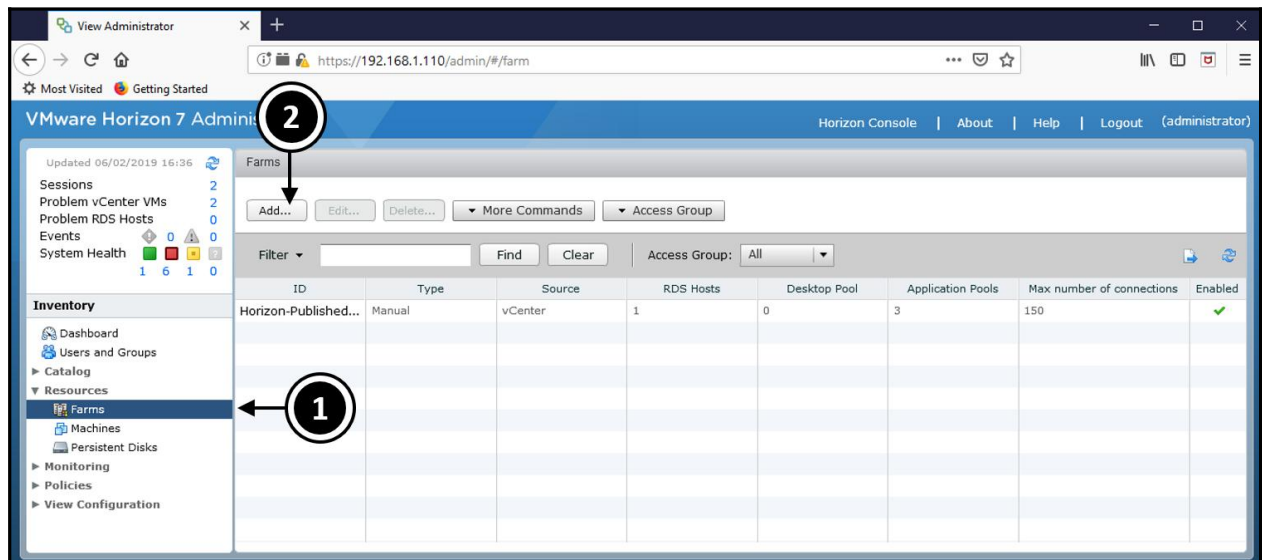
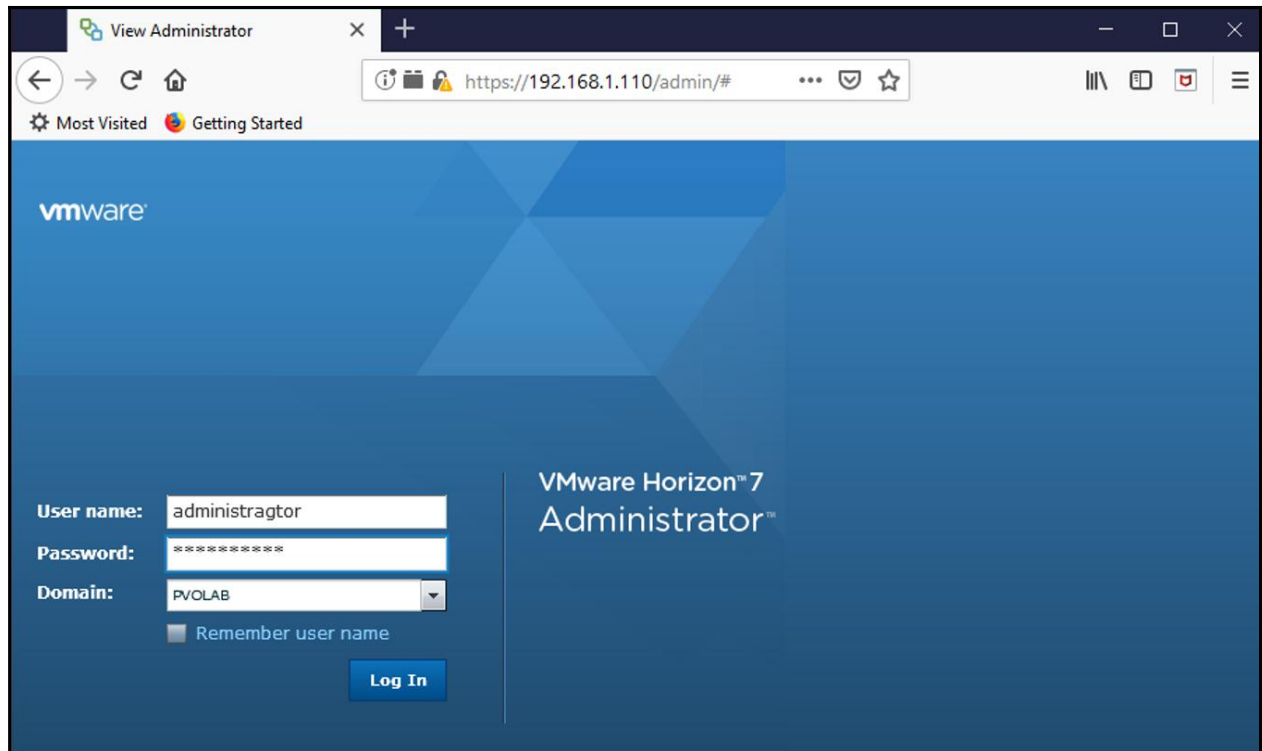
Authentication:

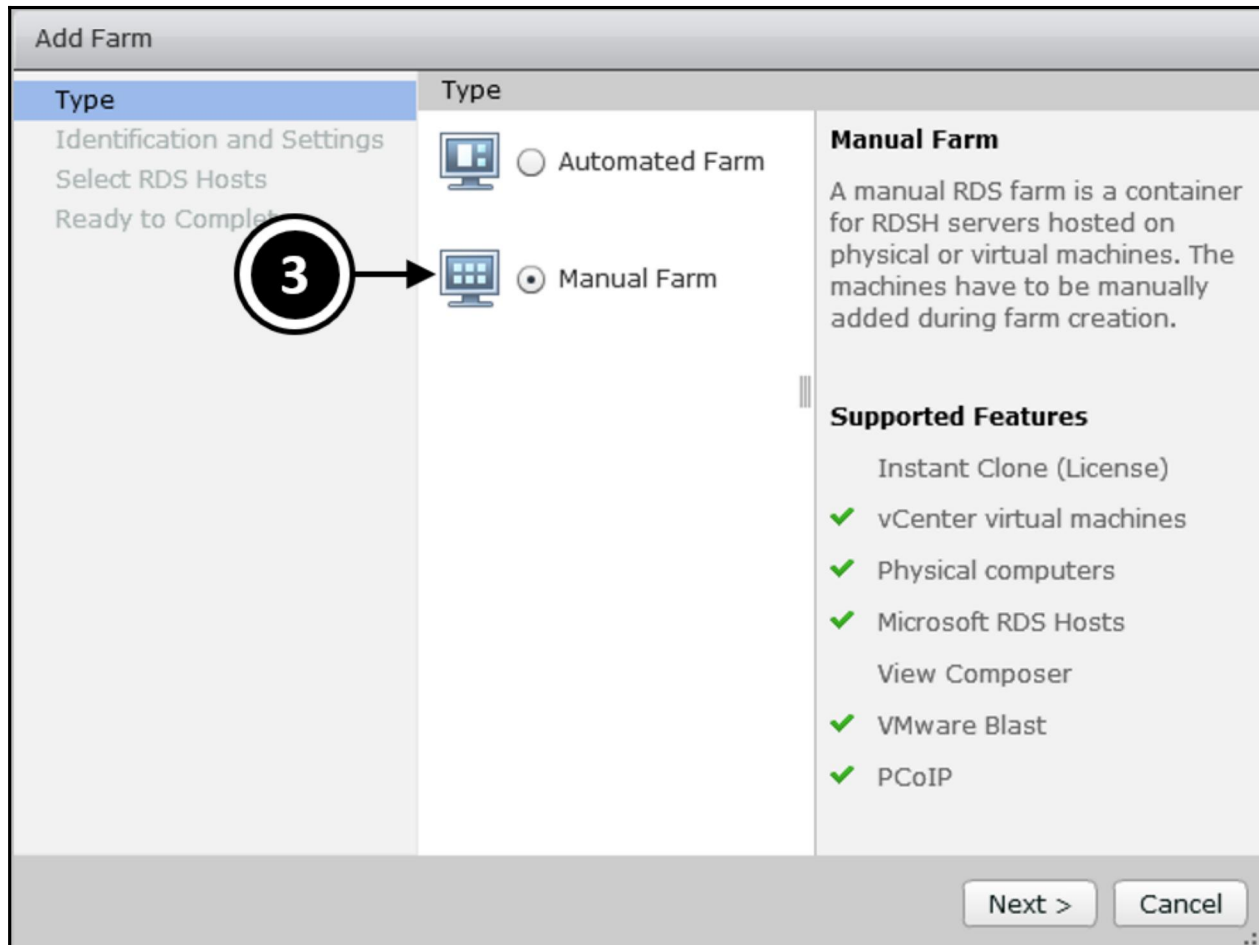
- Authenticate as the currently logged on user
- Specify administrator credentials

Username:  (Domain\User)

Password:

< Back    Next >    Cancel





Add Farm - Horizon-Published-Desktops

Type

Identification and Settings

Select RDS Hosts

Ready to Complete

**General**

ID: Horizon-Published-Desktops

Description:

Access group: /

**Farm Settings**

Default display protocol: PCoIP ?

Allow users to choose protocol: Yes

Pre-launch session timeout (applications only): After... 10 Minutes ?

Empty session timeout (applications only): After... 1 Minutes ?

When timeout occurs: Disconnect

Log off disconnected sessions: Never

Allow HTML Access to desktops and applications on this farm:  Enabled ?  
Requires installation of HTML Access.

Allow Session Collaboration:  Enabled ?  
Requires VMware Blast Protocol.

< Back Next > Cancel

Add Farm - Horizon-Published-Desktop

Type

Identification and Settings

Select RDS Hosts

Ready to Complete

Select RDS hosts to add to the farm.

DNS Name	Type	Max number of connections	Status
rdsh-desktop.pvolab.com	Windows Server 2016	150	Available

< Back Next > Cancel



**Add Farm - Horizon-Published-Desktop**

Type  
 Identification and Settings  
 Select RDS Hosts  
 Ready to Complete

**Ready to Complete**

ID:	Horizon-Published-Desktop
Description:	
Access Group:	/
Default display protocol:	PCoIP
Allow users to choose protocol:	Yes
Pre-launch session timeout (applications only):	10 minutes
Empty session timeout (applications only):	1 minute
When timeout occurs:	Disconnect
Log off disconnected sessions:	Never
Allow HTML Access to desktops and applications on this farm:	Disabled
Allow Session Collaboration:	Disabled
Number of RDS hosts in the farm:	1

< Back   Finish   Cancel

VMware Horizon 7 Administrator

Updated 06/02/2019 16:54

Sessions: 0  
 Problem vCenter VMs: 2  
 Problem RDS Hosts: 1  
 Events: 0  
 System Health: 1 6 1 0

**Inventory**

- Dashboard
- Users and Groups
- Catalog
- Resources
  - Farms**
  - Machines
  - Persistent Disks
- Monitoring
- Policies
- View Configuration

**Farms**

Horizon Console | About | Help | Logout (administrator)

Add... Edit... Delete... More Commands Access Group

Filter Find Clear Access Group: All

ID	Type	Source	RDS Hosts	Desktop Pool	Application Pools	Max number of connections	Enabled
Horizon-Published-Apps	Manual	vCenter	1	0	3	150	✓
Horizon-Published-Desktop	Manual	vCenter	1	0	0	150	✓

**System Health**

- ▶ View components
- ▼ RDS Farms
  - ▶ ■ Horizon-Published-Apps
  - ▼ ■ Horizon-Published-Desktop
    - rdsh-desktop.pvolab.com
- ▶ vSphere components
- ▼ Other components
  - ▶ ■ Domains

VMware Horizon 7 Administrator

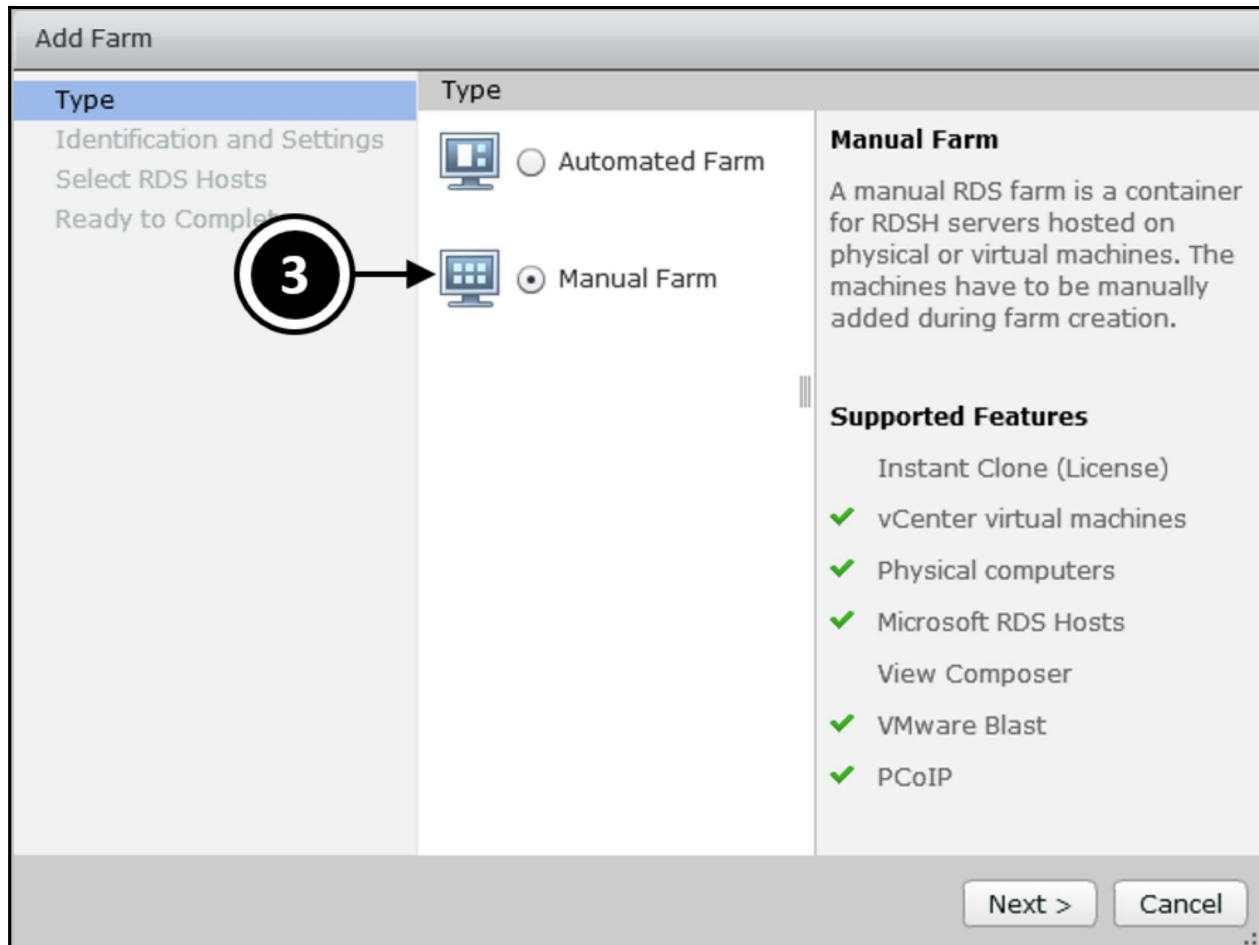
Updated 06/02/2019 16:54

Desktop Pools

Buttons: Add... Edit... Clone... Delete... Entitlements... Status Access Group More Commands

Filter Find Clear Access Group: All

ID	Display Name	Type	Source	User As...	vCenter Server	Entitled	Enabled	App ...	Sessions
Win7-dedicated-1c	Windows 7 Dedicated	Automated Desktop Pool	vCenter (linked clone)	Dedicated	192.168.1.178	1	✓		0
Win7-Manual	Windows 7 Manual Desktop	Manual Desktop Pool	vCenter	Dedicated	192.168.1.178	1			0



Add Desktop Pool - rdsh\_desktops

**Desktop Pool Definition**

Type

**Setting**

Desktop Pool Identification

Desktop Pool Settings

**RDS Farm**

Select an RDS farm

Ready to Complete

**Desktop Pool Identification**

ID:

Display name:

Description:

**ID**

The desktop pool ID is the unique name used to identify this desktop pool.

**Display Name**

The display name is the name that users will see when they connect to View Client. If the display name is left blank, the ID will be used.

Access groups can organize the desktop pools in your organization. They can also be used for delegated administration.

**Description**

This description is only shown on the Settings tab for a desktop pool within View Administrator.

Add Desktop Pool - rdsh\_desktops

**Desktop Pool Definition**

Type

**Setting**

Desktop Pool Identification

Desktop Pool Settings

**RDS Farm**

Select an RDS farm

Ready to Complete

**Desktop Pool Settings**

**General**

State:

Connection Server restrictions: None

Category Folder: None

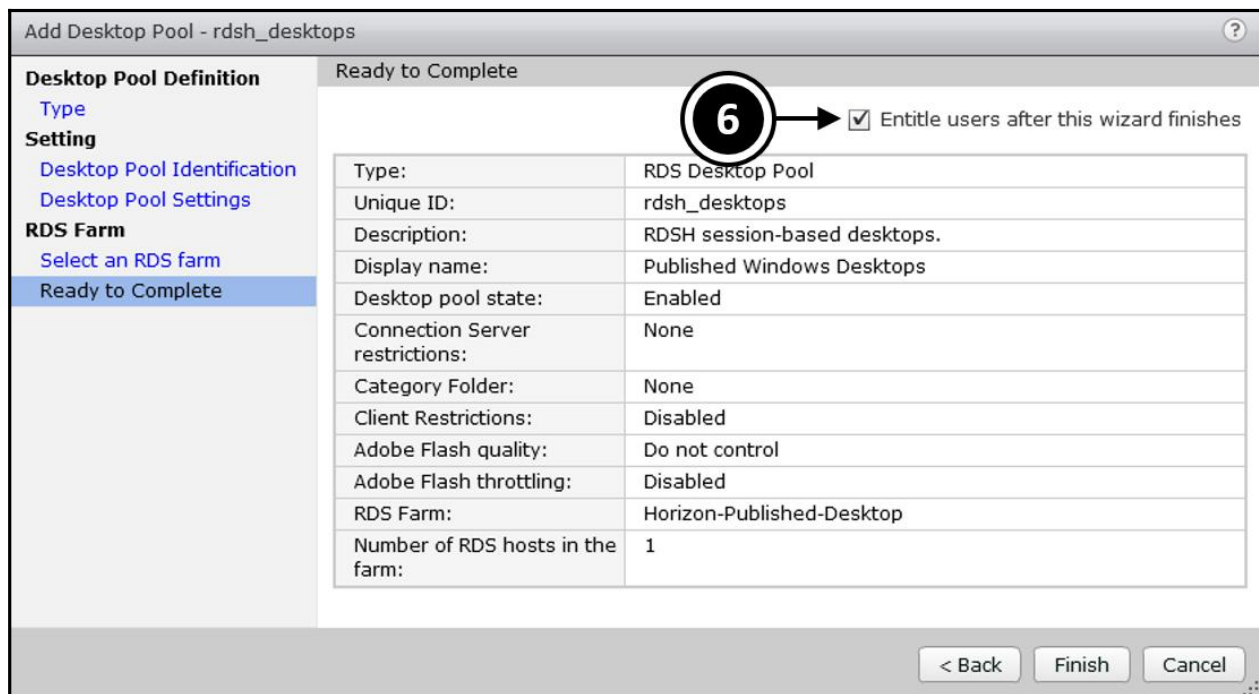
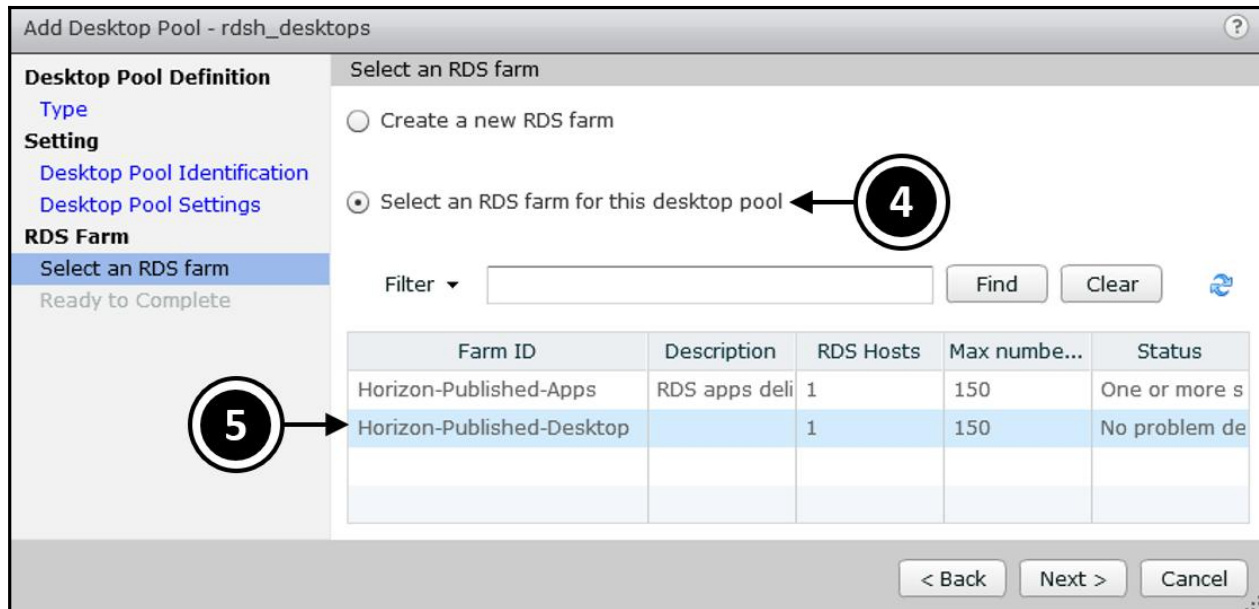
Client Restrictions:  Enabled

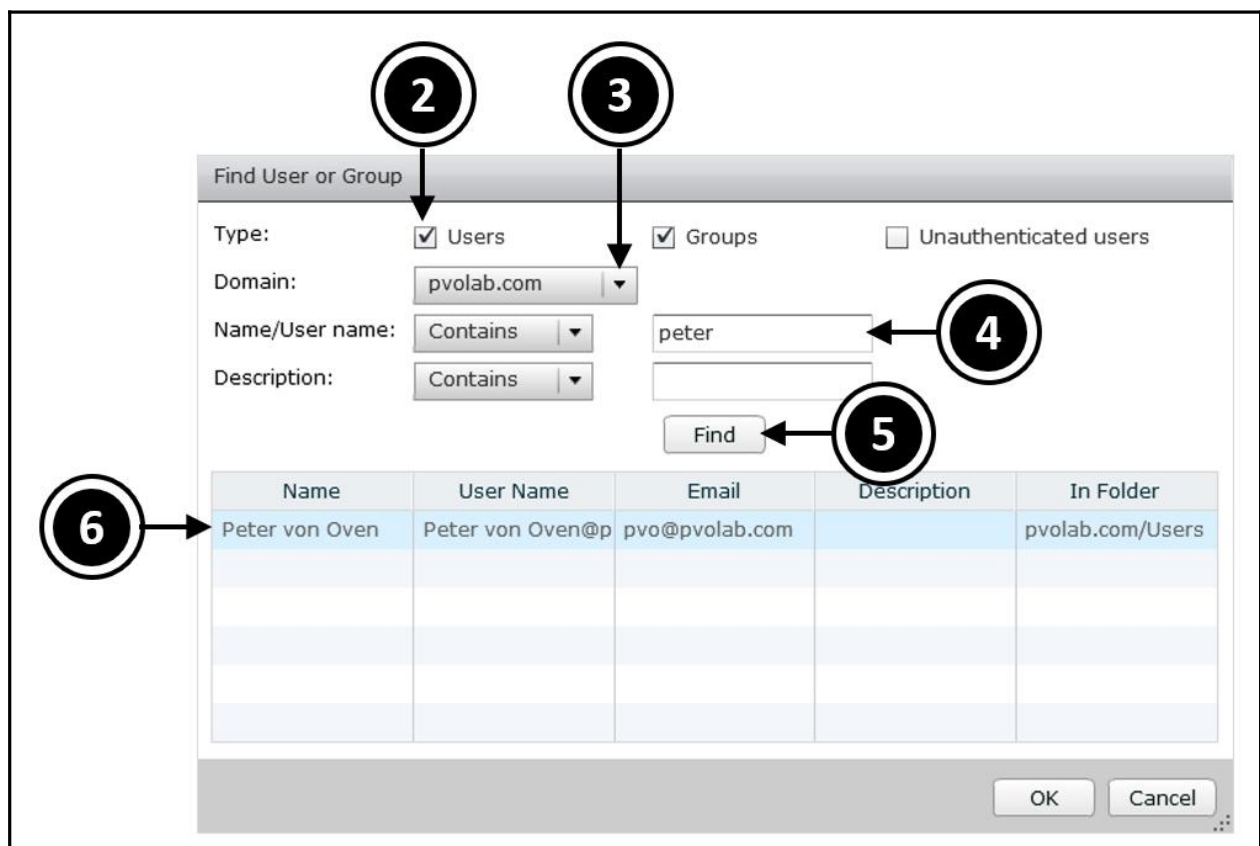
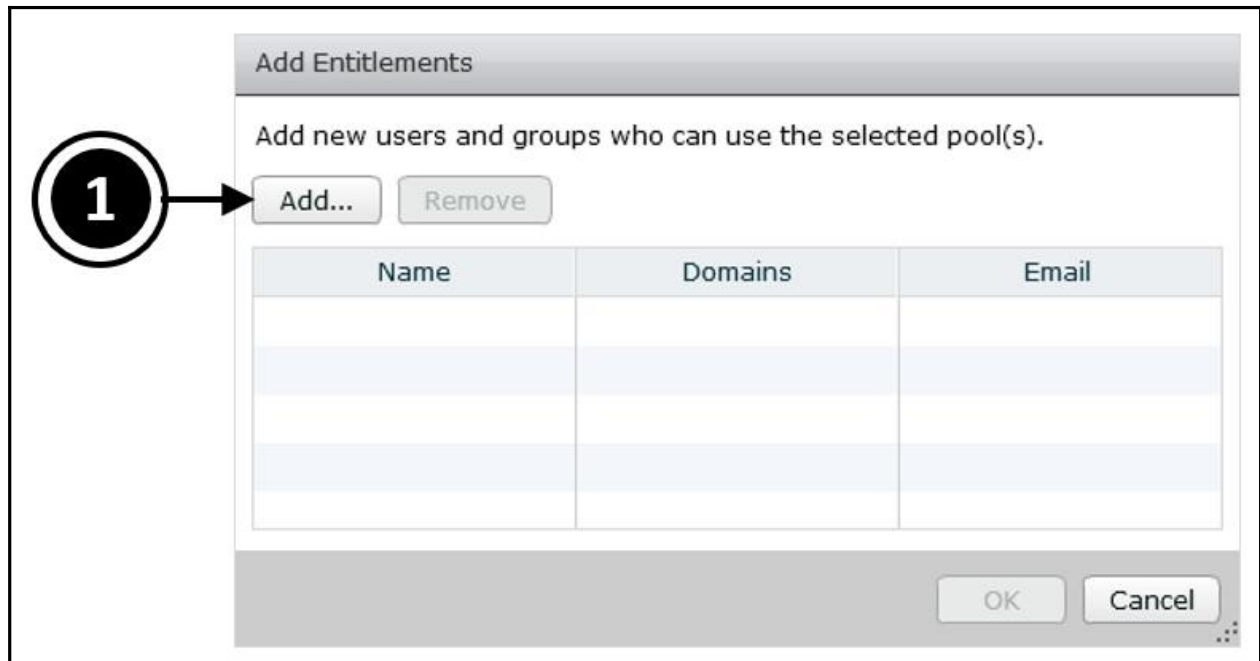
---

**Adobe Flash Settings for Sessions**

Adobe Flash quality:

Adobe Flash throttling:





View Administrator

https://192.168.1.110/admin/#/pool

VMware Horizon 7 Administrator

Updated 06/02/2019 16:54

Sessions: 0  
 Problem vCenter VMs: 2  
 Problem RDS Hosts: 1  
 Events: 0  
 System Health: 1 6 1 0

Desktop Pools

Filter: [ ] Find Clear Access Group: All

ID	Display Name	Type	Source	User A...	vCenter Server	Entitled	Enabled	App ...	Sessions
rdsh_desktops	Published Windows Desktop	RDS Desktop Pool	Remote Desktop Services	Floating		1	✓		0
Win7-dedicated-ic	Windows 7 Dedicated	Automated Desktop Pool	vCenter (linked clone)	Dedicated	192.168.1.178	1	✓		0
Win7-Manual	Windows 7 Manual Desktop	Manual Desktop Pool	vCenter	Dedicated	192.168.1.178	1			0

VMware Horizon Client

+ New Server



hzn7-cs1.pvolab.com

