VMWare Horizon View 8 2006 – Part 2

In this post, we will carryout the following installs and configurations.

- 1. Horizon Client link
- 2. Console Timeout
- 3. vCenter Role and Permission for VMWare Horizon Users
- 4. Disallow Non-Empty Pool Deletion
- 5. Help Desk Tool Timing Profiler
- 6. Installing Horizon Client
- 7. Virtual Machine Creation, SQL 2019, CU4 & SSMS Installation
- 8. Database Connection & EventLog Configuration
- 9. Install VMWare Horizon View Composer
- 10. Create Service Account & Add vCenter Server + Composer
- 11. Branding Check https://www.definetomorrow.co.uk/blog/2019/1/15/horizon-view-7x-branding-the-logon-pge

HORIZON CLIENT LINK:

When you point your browser to the Horizon Connection Server (without /admin in the path), the Install VMware Horizon Client link redirects to the VMware.com site for downloading Horizon Clients. You can change it so it can be downloaded directly from Horizon Connection Server.

Access

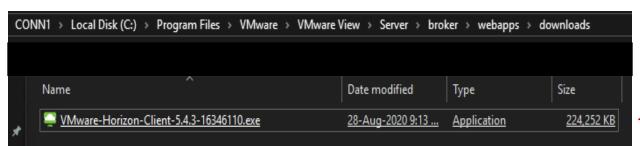


On the connection server (conn1), go to this path and create a folder called Downloads

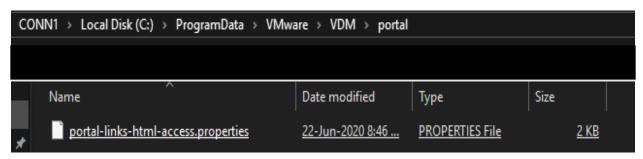
NN1 > Local Disk (C:) > Program Files > VMw	are > VMware View	Server > broker >	webapps >
Name	Date modified	Туре	Size
admin	25-Aug-2020 2:58	File folder	
portal	25-Aug-2020 2:58	File folder	
<u>rest</u>	25-Aug-2020 2:58	<u>File folder</u>	
ROOT	25-Aug-2020 3:00	<u>File folder</u>	
sse sse	25-Aug-2020 3:01	<u>File folder</u>	
view-client	25-Aug-2020 3:01	<u>File folder</u>	
view-vlsi	25-Aug-2020 3:02	<u>File folder</u>	
admin.war	17-Jul-2020 7:07 AM	WAR File	17,745 KB
open source licenses View Feature Pack	22-Jun-2020 8:46	Text Document	<u>130 KB</u>
portal.war	22-Jun-2020 8:48	WAR File	<u>5,975 KB</u>
<u>rest.war</u>	17-Jul-2020 7:07 AM	WAR File	24,308 KB
ROOT.war	17-Jul-2020 7:07 AM	WAR File	<u>7,789 KB</u>
sse.war	17-Jul-2020 7:07 AM	WAR File	21,274 KB
<u>view-client.war</u>	22-Jun-2020 8:48	WAR File	<u>5 KB</u>
<u>view-vlsi.war</u>	17-Jul-2020 7:07 AM	WAR File	22,560 KB

If you haven't downloaded the client yet – you can get it from here – Copy the exe to download folder. Please note there is ONE version only (both for x86 and x64)

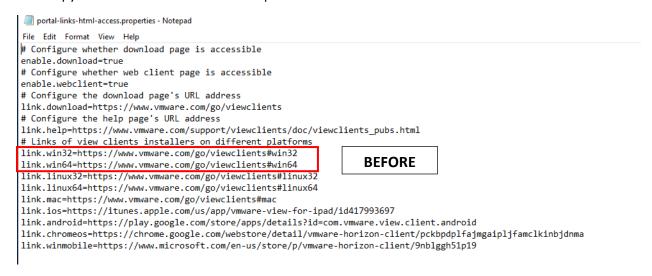
https://my.vmware.com/web/vmware/downloads/details?downloadGroup=CART21FQ1 WIN 543&productId=863&rPId=47870



Go to this location and open the file in Notepad as Administrator



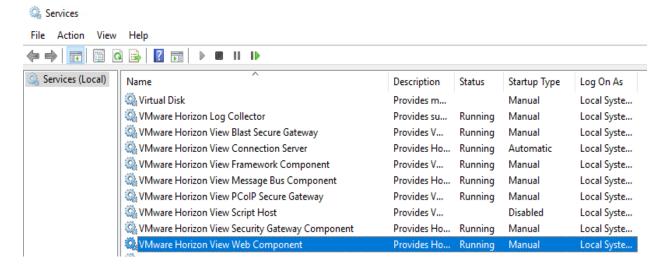
Now copy Horizon Client file name and replace. Check Before and After screen shot.



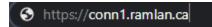
In Notepad modify link.win32 and link.win64 by specifying the relative path to the Horizon Client executable under /downloads. Don't forget to save the file.

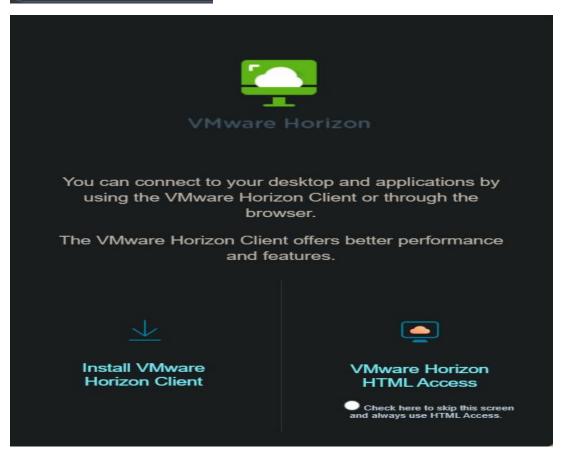


Restart the VMware Horizon View Web Component service or restart the entire Connection Server

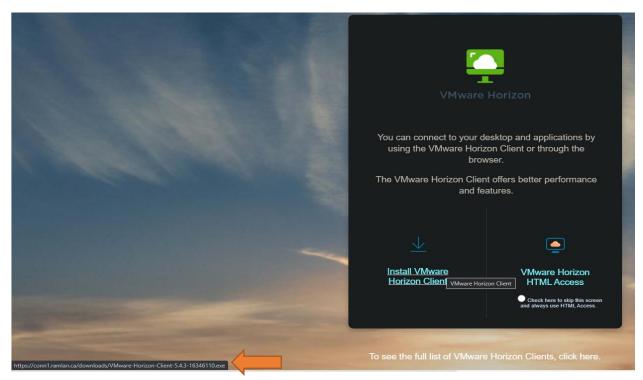


Open browser and type the link but replace it with your connection server.



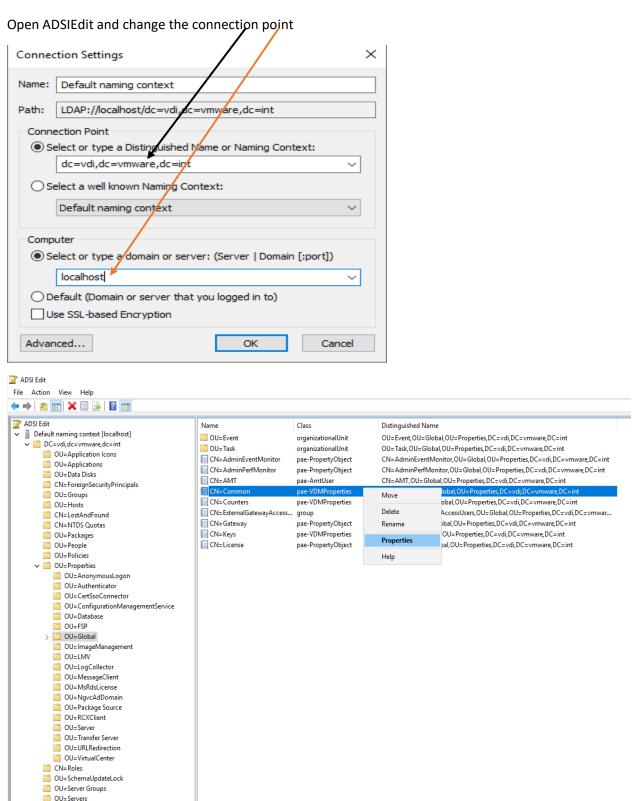


Now you can see it will download from conn1.ramlan.ca server instead of going to VMWare site. Not a big deal but convenience.

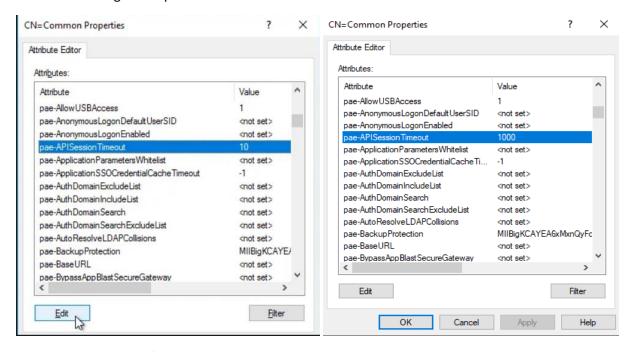


CONSOLE TIMEOUT:

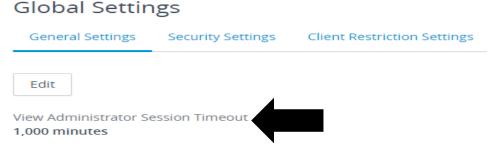
The HTML5 Horizon Console (https://MyConnectionServer/newadmin) has a default timeout of 10 minutes. Changing the Horizon Administrator timeout will not affect the Horizon Console timeout. You can use adsiedit.msc to increase the Horizon Console timeout or use Global Settings as well. I will show both.



Click Edit – Change to required minutes. I entered 1000 minutes



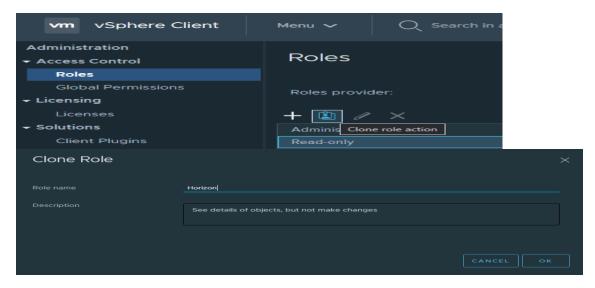
You can do the same after login to Connection Server – Click Global Settings

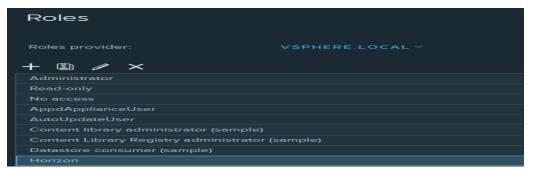


ROLE / PERMISSION FOR HORIZON USERS:

Now we will create a role and assign proper permission for Horizon Users.

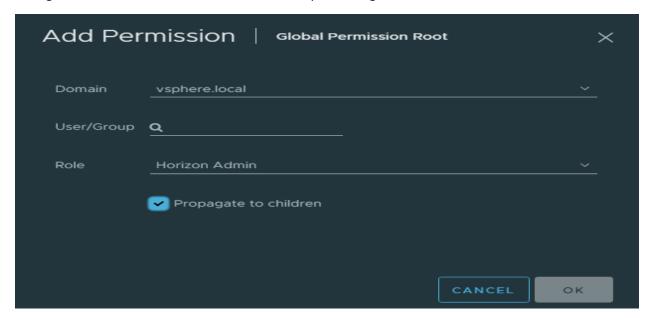
From vSphere Client, go to Menu > Administration > Access Control > Roles area, select the Read-only role and click on the Clone role action icon.





rivileges Required for the View M	
Privilege Group	Privileges to Enable
Folder	Create Folder
	Delete Folder
Datastore	Allocate space
Virtual Machine	In Configuration:
	 Add or remove device
	Advanced
	 Modify device settings
	In Interaction
	Power Off
	Power On
	Reset
	 Suspend
	 Perform wipe or shrink operations
	in Inventory:
	 Create new
	 Create from existing
	Remove
	In Provisioning:
	Customize
	 Deploy template
	 Read customization specifications
	 Clone Template
	Clone Virtual Machine
Resource	Assign virtual machine to resource pool
Global	Act as vCenter Server
	The vCenter Server user requires this privilege e
Host	The following Host privilege is required to impler ESXI host caching. If you do not use View Storagneed this privilege.
	in Configuration:
	Advanced settings
Profile Driven Storage (If you are using vSAN datastores or Virtual Volumes)	(all)

Now go to Global Permissions – Add User or Group and assign Horizon role we created before.



Now this user or group will have access to vCenter with the permission we granted before.

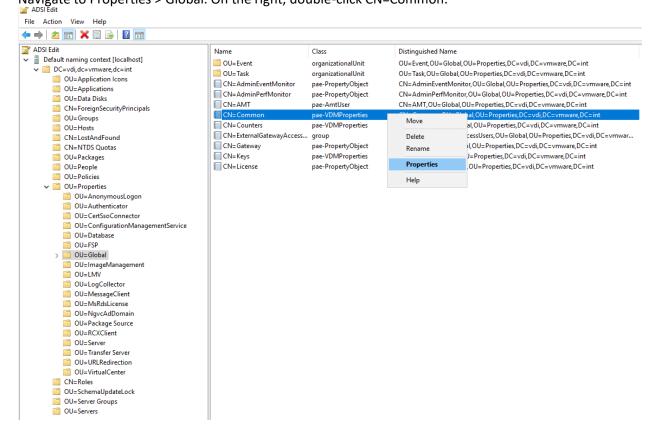
DISALLOW NON-EMPTY POOL DELETION:

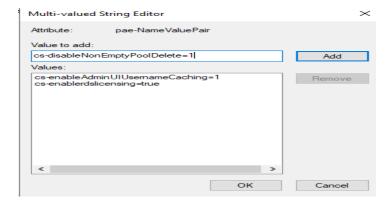
Configure View to Disallow the Deletion of a Desktop Pool That Contains Desktop Machines at VMware Docs.

On the Horizon Connection Server, run ADSI Edit.

Right-click ADSI Edit and click Connect to...

Change the first selection to Select or type a Distinguished Name and enter dc=vdi,dc=vmware,dc=int. Change the second selection to Select or type a domain or server and enter localhost. Click OK. Navigate to Properties > Global. On the right, double-click CN=Common.





Click Add - OK

HELP DESK TOOL TIMING PROFILER:

https://docs.vmware.com/en/VMware-Horizon-7/7.9/horizon-administration/GUID-256CFA52-E742-4A3F-8F3E-6DE9CEDE5272.html

Horizon Help Desk Tool is a Web application that you can use to get the status of Horizon 7 user sessions and to perform troubleshooting and maintenance operations.

In Horizon Help Desk Tool, you can look up user sessions to troubleshoot problems and perform desktop maintenance operations such as restart or reset desktops.

To configure Horizon Help Desk Tool, you must meet the following requirements:

Horizon Enterprise edition license or Horizon Apps Advanced edition license for Horizon 7. To verify that you have the correct license, see Verify Horizon Help Desk Tool License.

An event database to store information about Horizon 7 components. For more information about configuring an event database, see the Horizon 7 Installation document.

The Help Desk Administrator role or the Help Desk Administrator (Read Only) role to log in to Horizon Help Desk Tool. For more information on these roles see, Configure Role-Based Access for Horizon Help Desk Tool

Enable the timing profiler on each Connection Server instance to view logon segments.

Use the following Volmadmin command to enable the timing profiler on each Connection Server instance:

Run this command on both connection server (standard and replica)

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.17763.1432]
(c) 2018 Microsoft Corporation. All rights reserved.
C:\Users\ADMINISTRATOR.RAMLAN>vdmadmin -I -timingProfiler -enable
Successfully enabled timing profiler.
C:\Users\ADMINISTRATOR.RAMLAN>_
```

INSTALLING HORIZON CLIENT:

We will install Horizon Client on workstation for regular use. This can be automated through SCCM as well. If you have few clients it is worth manual install.

Click the Exe and follow required input

VMware-Horizon-Client-2006-8.0.0-16531419

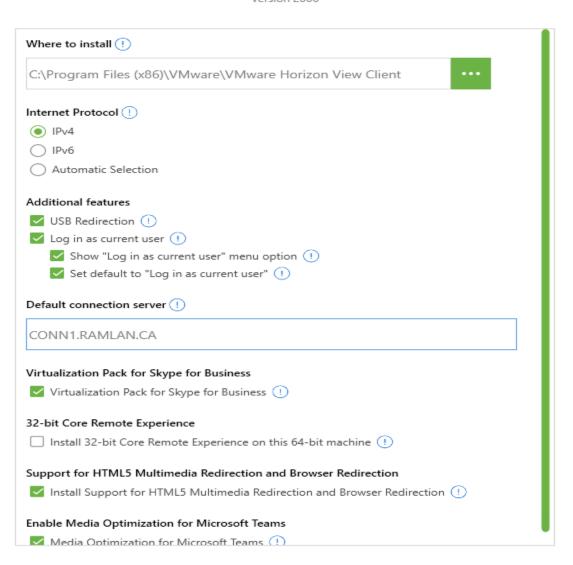
Version 2006

You must agree to the Privacy Agreement and License Terms before you can install the product



VMware Horizon®

Version 2006



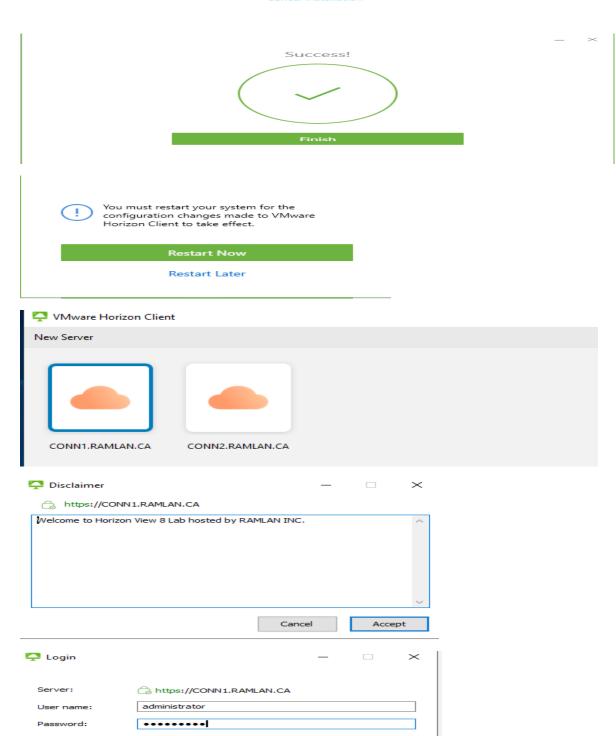
You must agree to the Privacy Agreement and License Terms before you can install the product

Agree & Install



Installing VMware Horizon HTML5 Multimedia Redirection Client

Cancel Installation



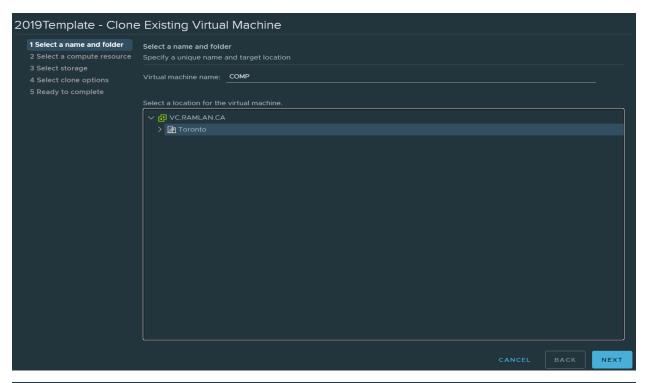
Cancel

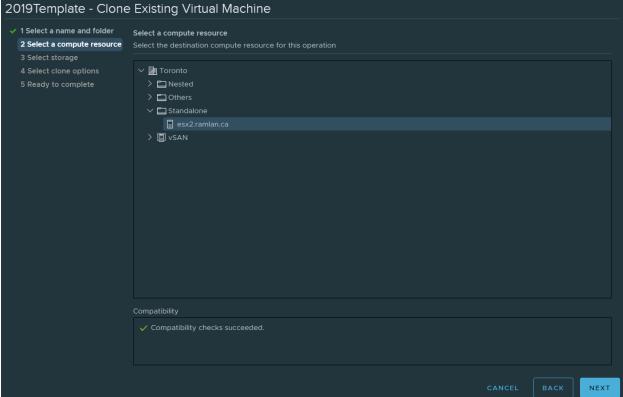
Login

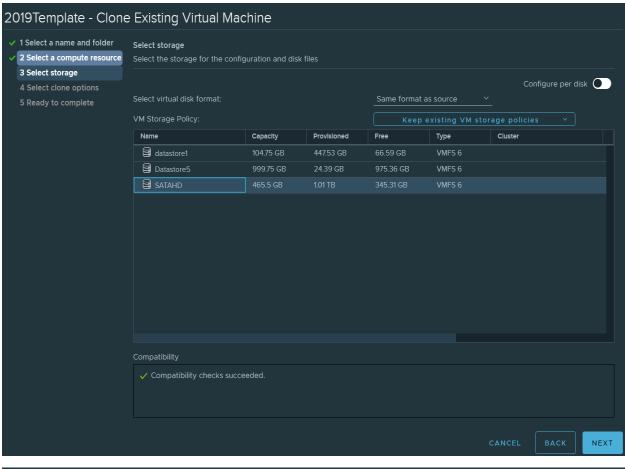
VMWARE COMPOSER VIRTUAL MACHINE:

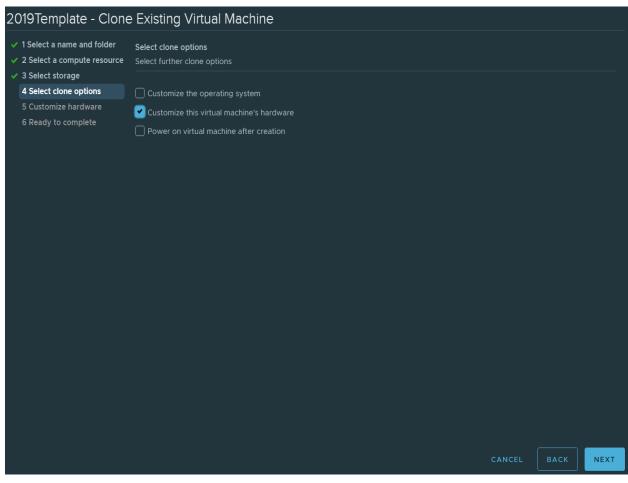
We will create a virtual machine running Windows Server 2019 – install all the updates – install SQL 2019 and have it ready for Composer install. The server will have 8GB memory and 250GB Hard Disk. We will use this server for Creating Database for Composer and EventLog as well. Will be using ODBC connection for Composer Database and EventLog Database.

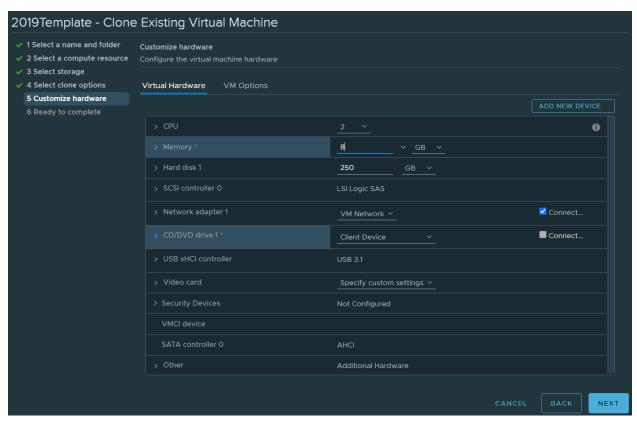
Here, I am cloning a virtual machine for Composer.

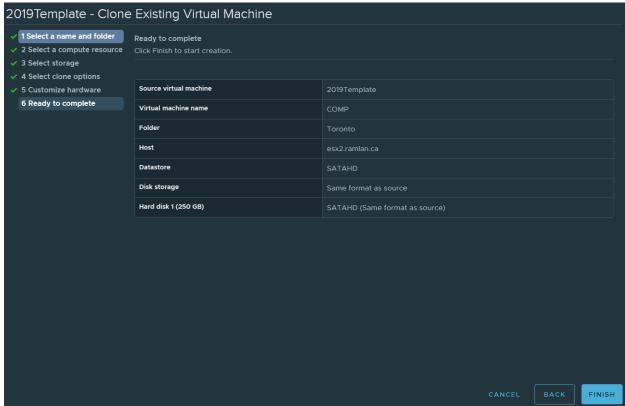






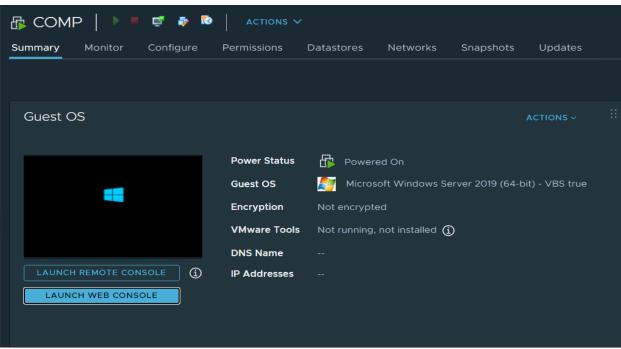


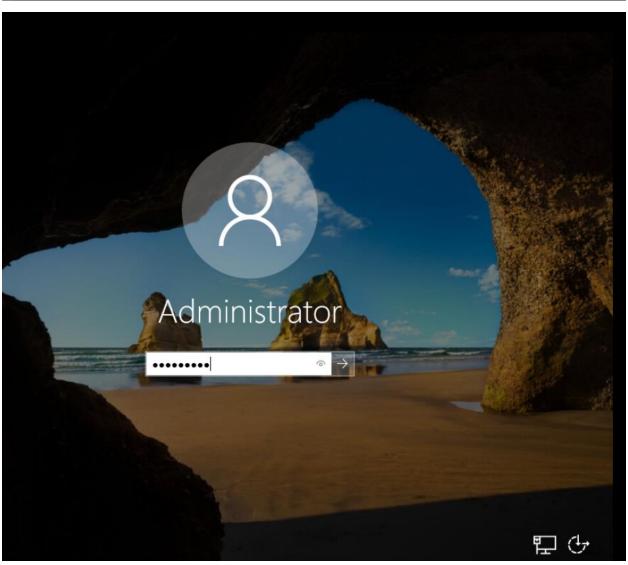


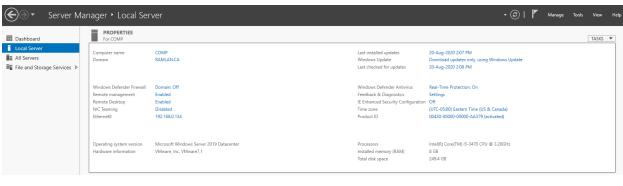




Power on the VM.











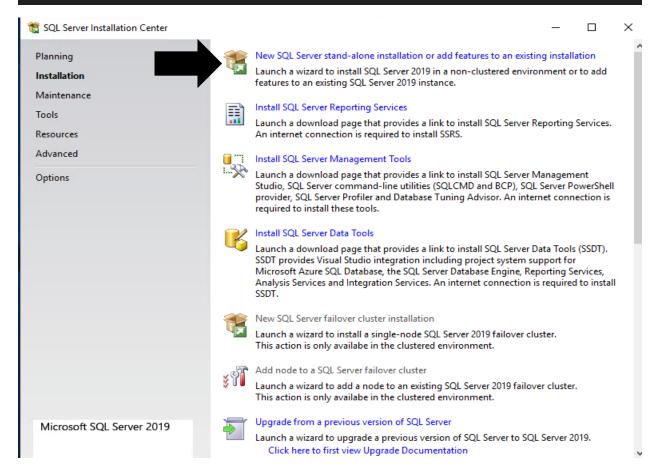
Once the updates are installed, I will perform SQL 2019 installation and SSMS.

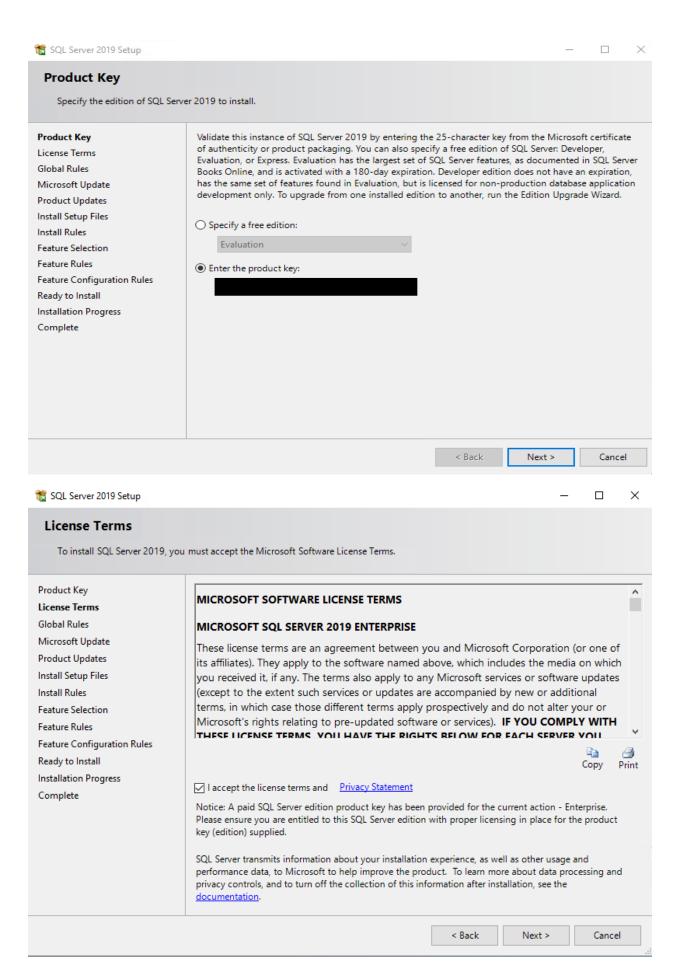
Microsoft SQL Server 2019 Express	Ø
Microsoft SQL Server 2019 Standard	⊘
Microsoft SQL Server 2019 Enterprise	⊘

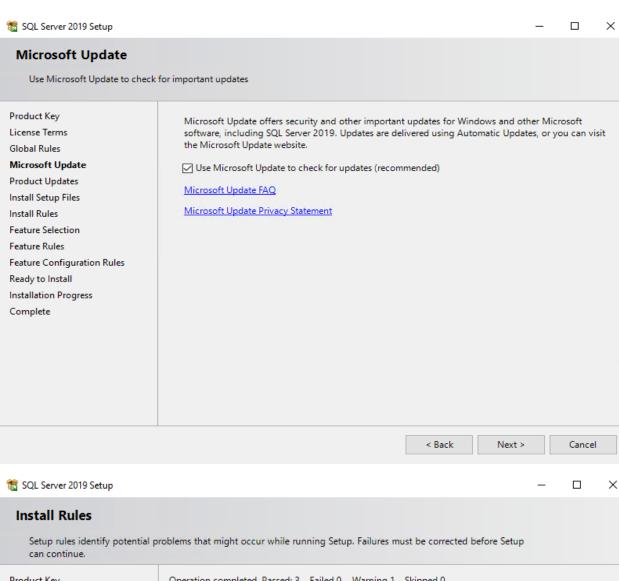
Composer System Requirements

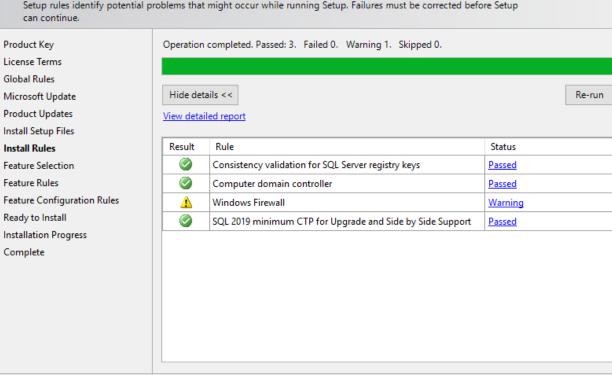
Hardware Component	Required	Recommended
Processor	1.4 GHz or faster Intel 64 or AMD 64 processor with 2 CPUs	2GHz or faster and 4 CPUs
Networking	One or more 10/100Mbps network interface cards (NICs)	1Gbps NICs
Memory	4GB RAM or higher	8GB RAM or higher for deployments of 50 or more remote desktops
Disk space	40GB	60GB

Name	Date modified	Туре	Size
1033 ENU LP	24-Sep-2019 11:51	File folder	
redist	24-Sep-2019 11:15	<u>File folder</u>	
resources	24-Sep-2019 10:09	<u>File folder</u>	
Tools	25-Sep-2019 12:28	File folder	
<mark> x64</mark>	25-Sep-2019 6:46	<u>File folder</u>	
autorun.inf	24-Sep-2019 10:32	Setup Information	<u>1 KB</u>
Medialnfo.xml	24-Sep-2019 10:32	XML Document	<u>1 KB</u>
☑ setup.exe	24-Sep-2019 10:32	<u>Application</u>	<u>124 KB</u>
setup.exe.config	24-Sep-2019 10:32	CONFIG File	<u>1 KB</u>
SqlSetupBootstrapper.dll	24-Sep-2019 10:32	Application extens	<u>216 KB</u>





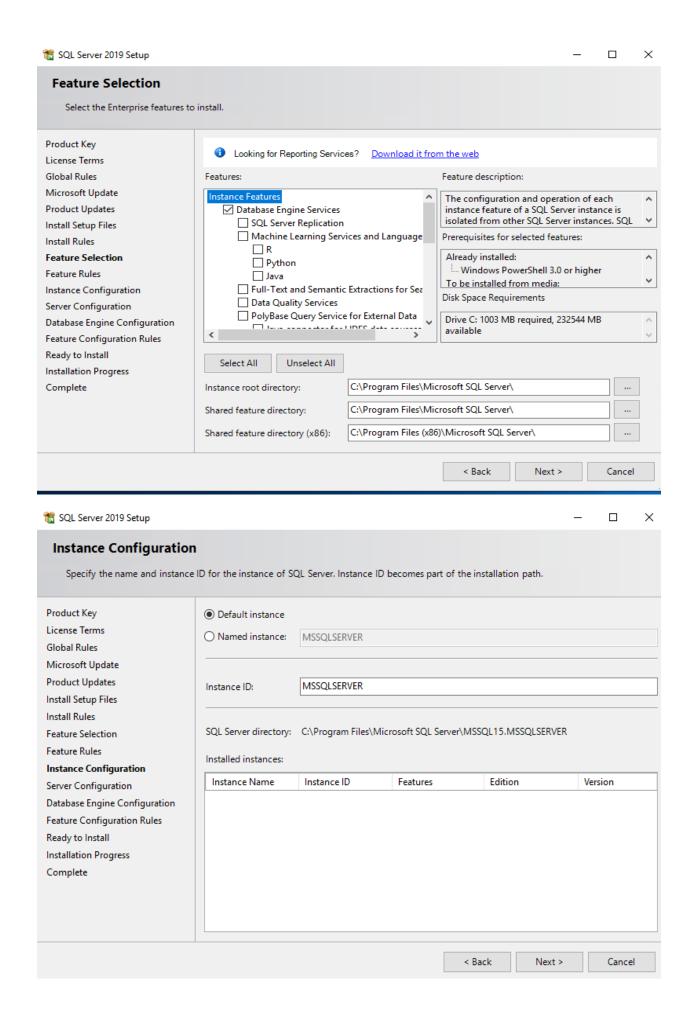


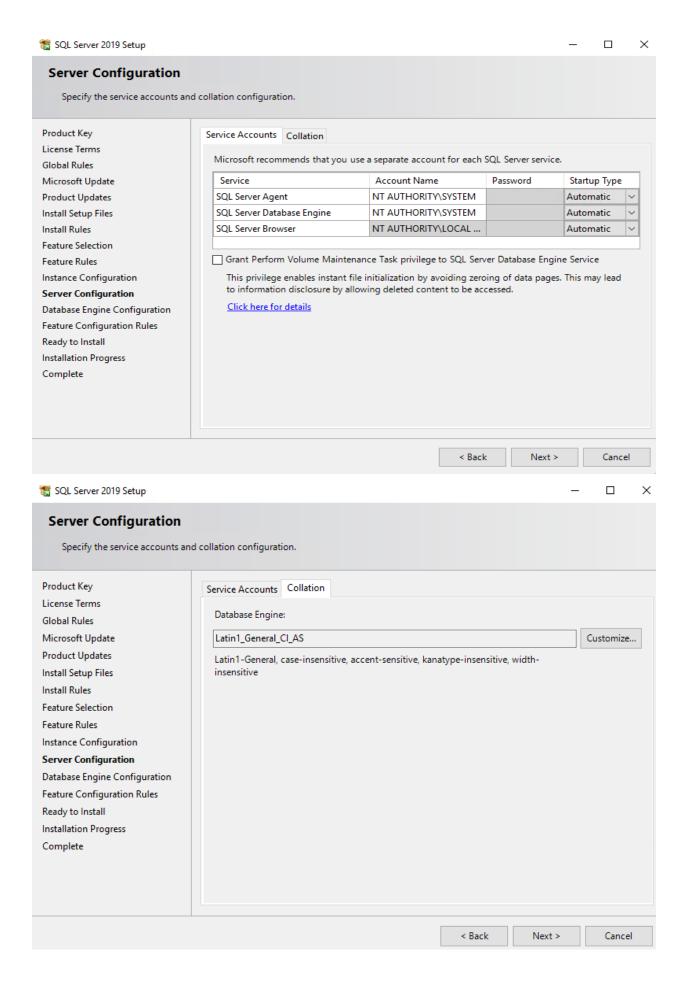


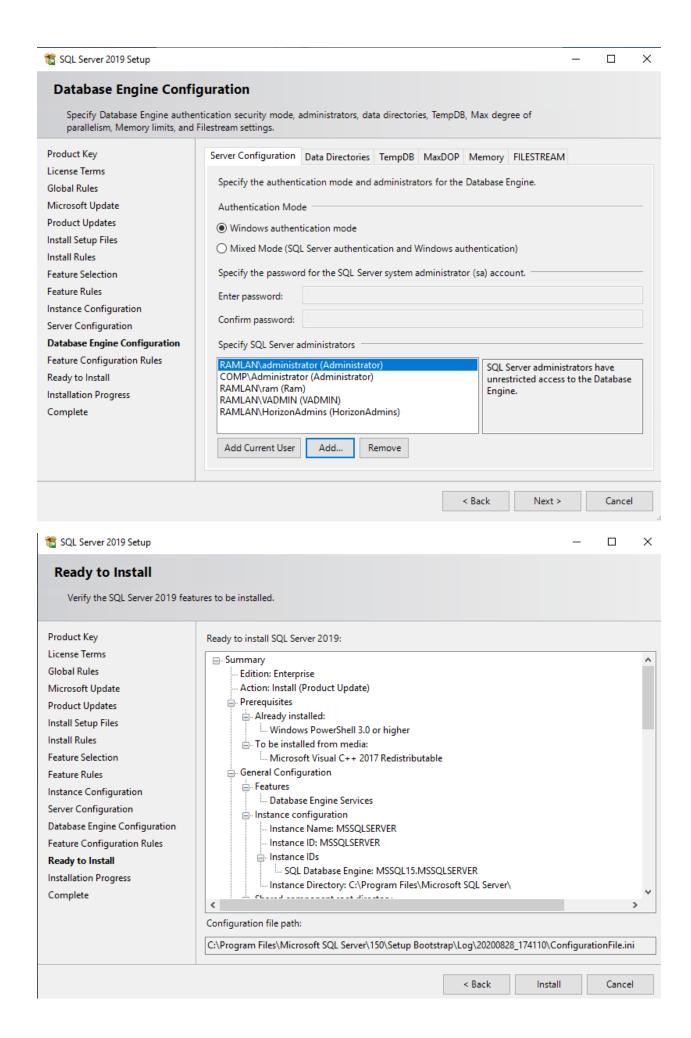
< Back

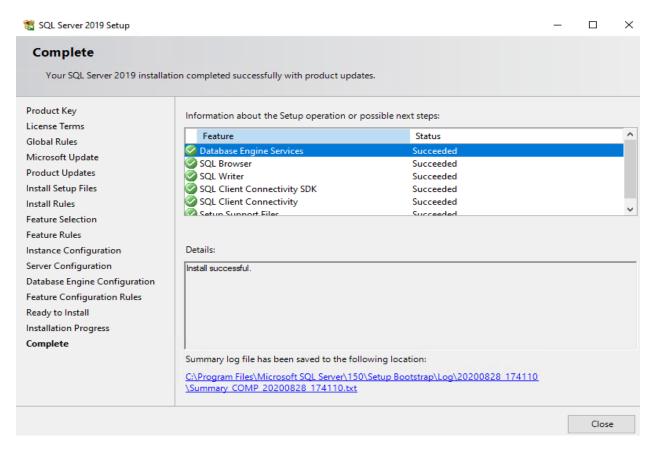
Next >

Cancel

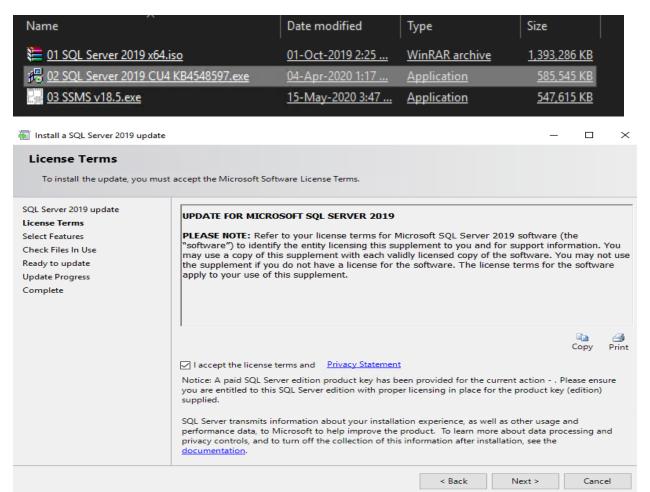


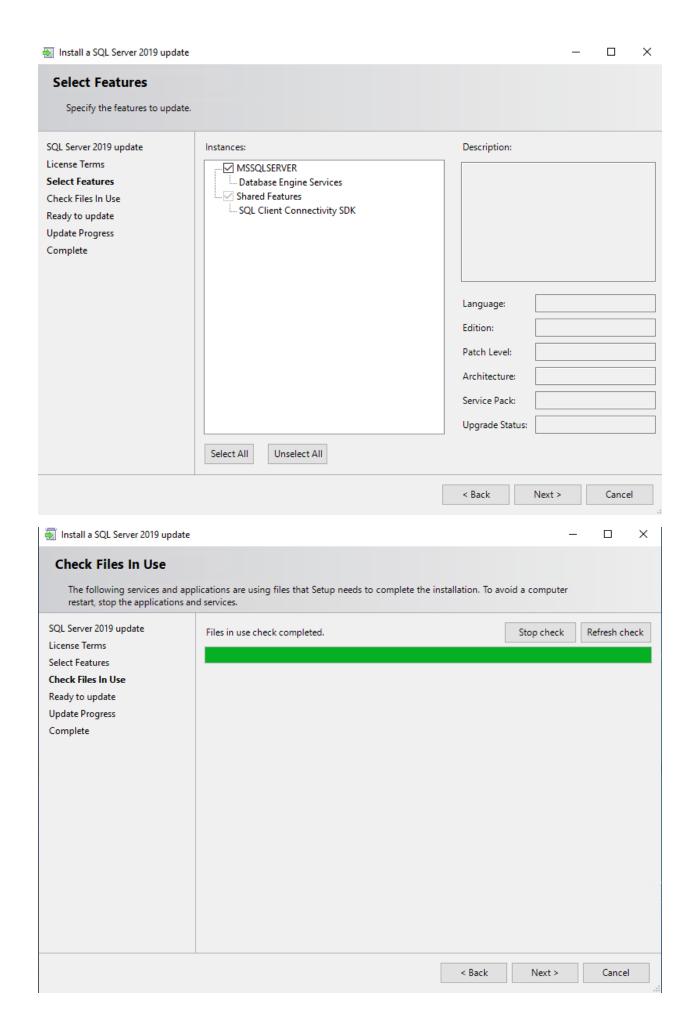


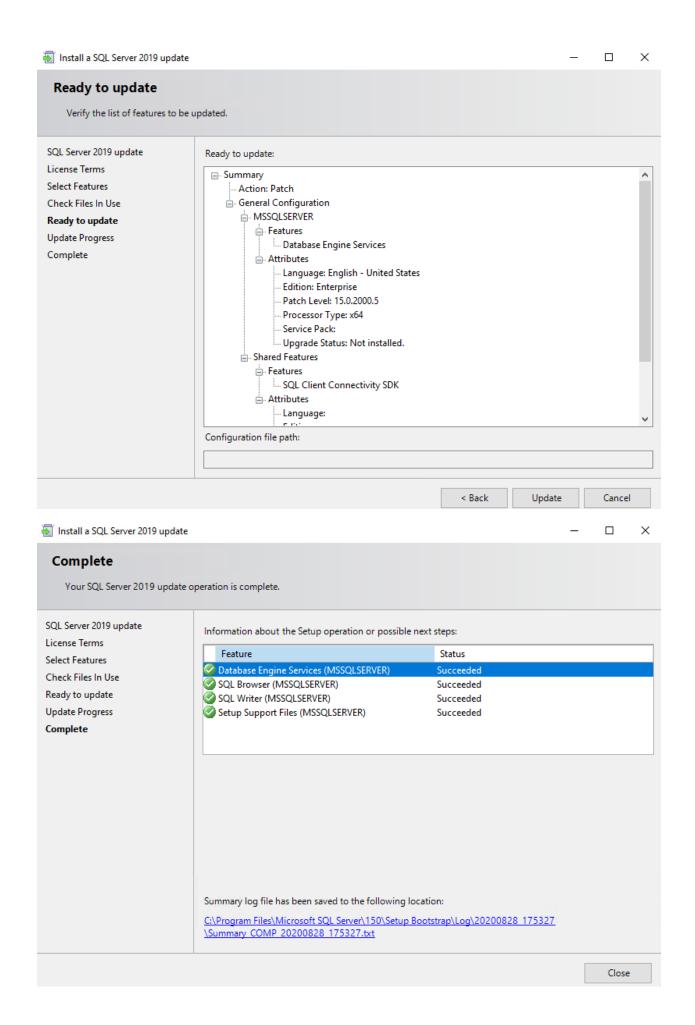




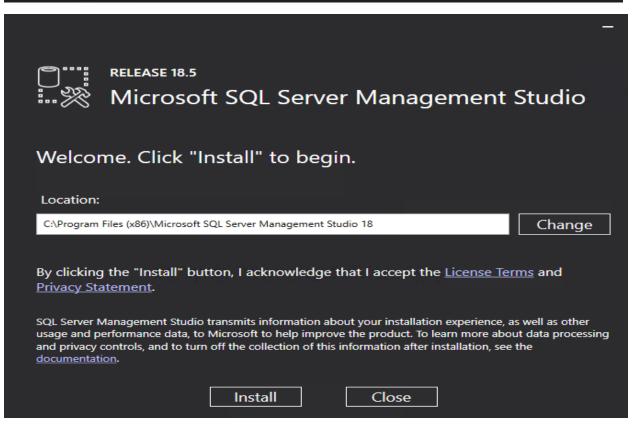
Now will install KB4548597 CU4.

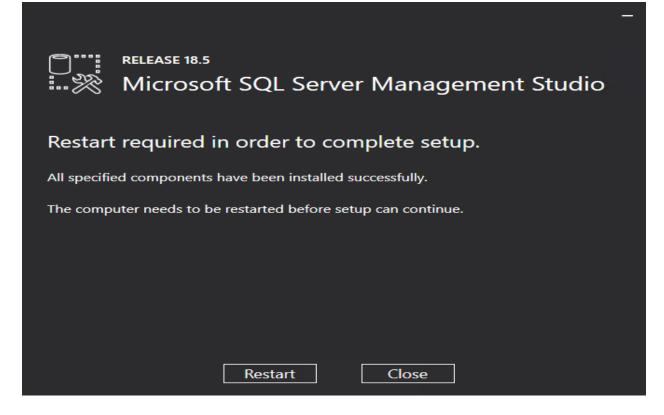






286 KB
545 KB
615 KB





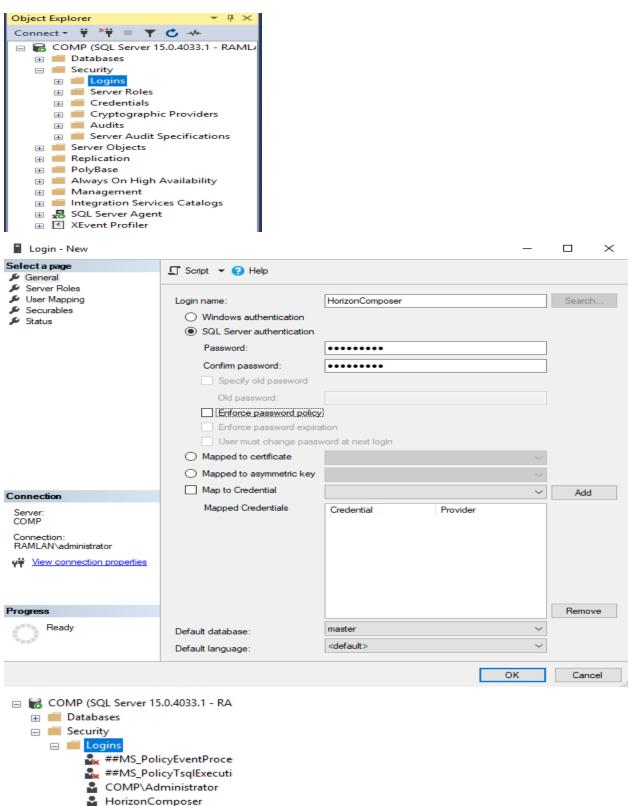
DATABASE & EVENTLOG CONFIGURATION:

Now we will create SA account which will be local and then complete EventLog Configuration.

Create a local user

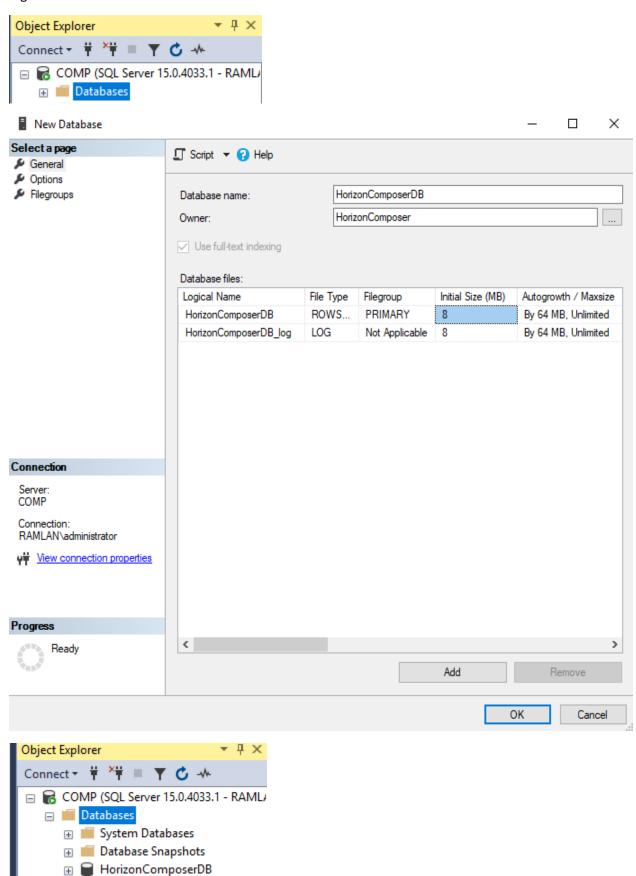
In View Composer only SQL local accounts are supported thus domain accounts can't be used.

Expand Security item and right click Logins. Select New login to create a new local user.

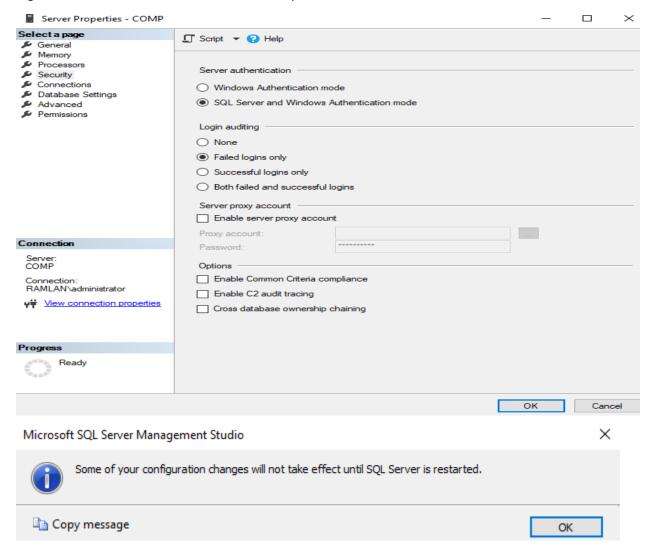


Create the database

Right click Databases and select New Database.



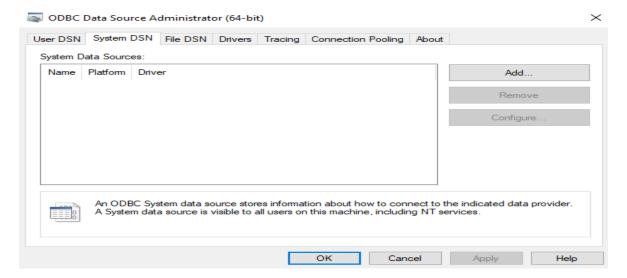
Right click the SQL Server name and select Properties.

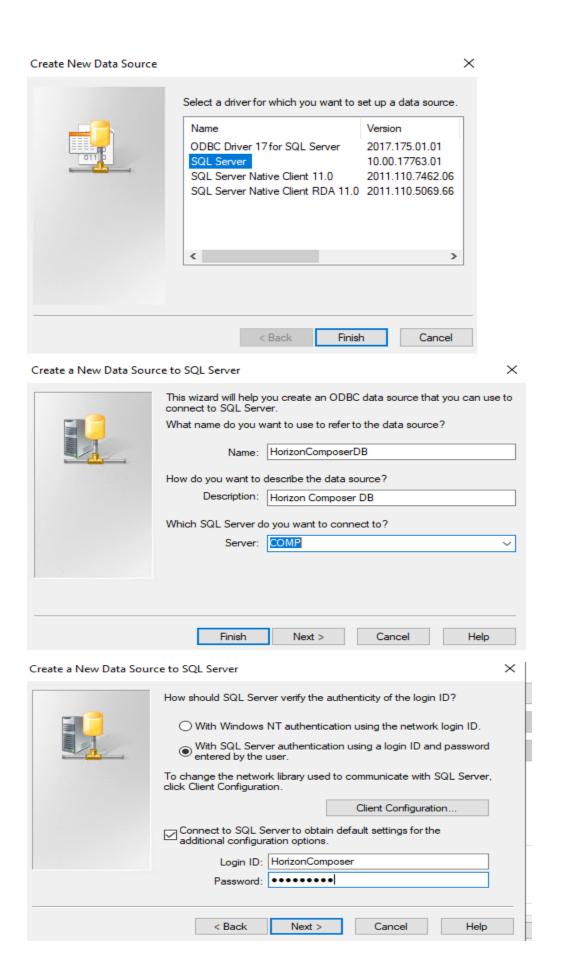


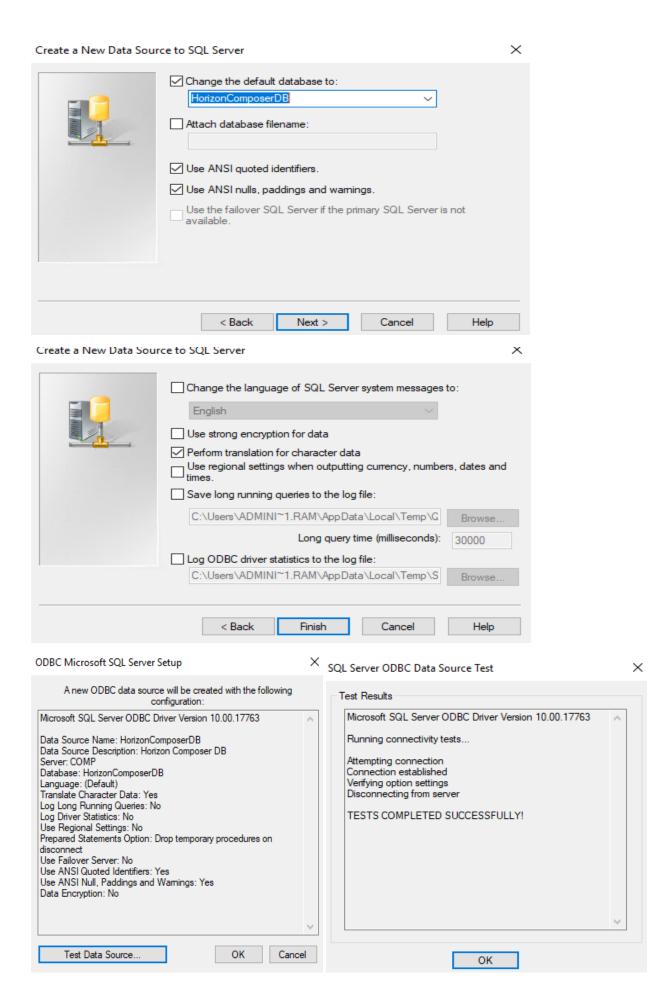
Restart the server.

Create SQL DB ODBC Connection

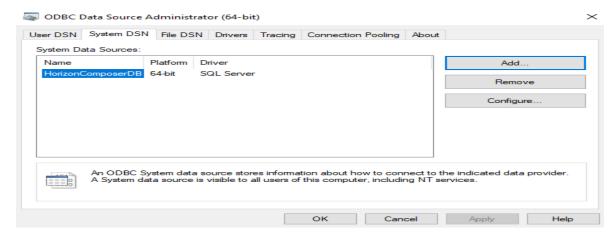
Access the Windows Server where the View Composer will be installed, open the Administrative Tools folder and double click ODBC Data Sources (64-bit) item.



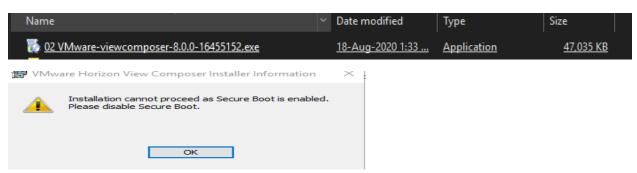




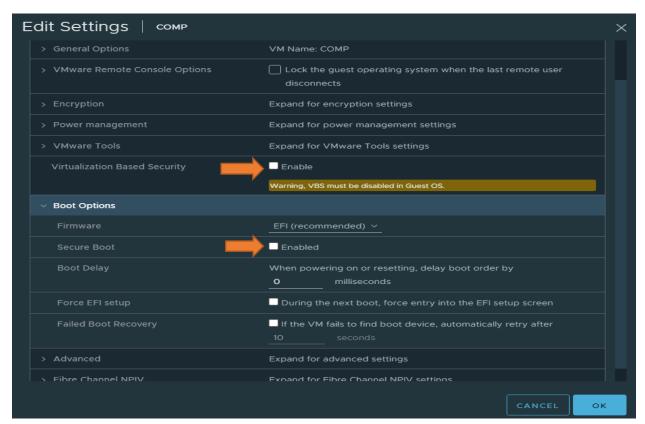
The new System DSN has been created. Click OK.



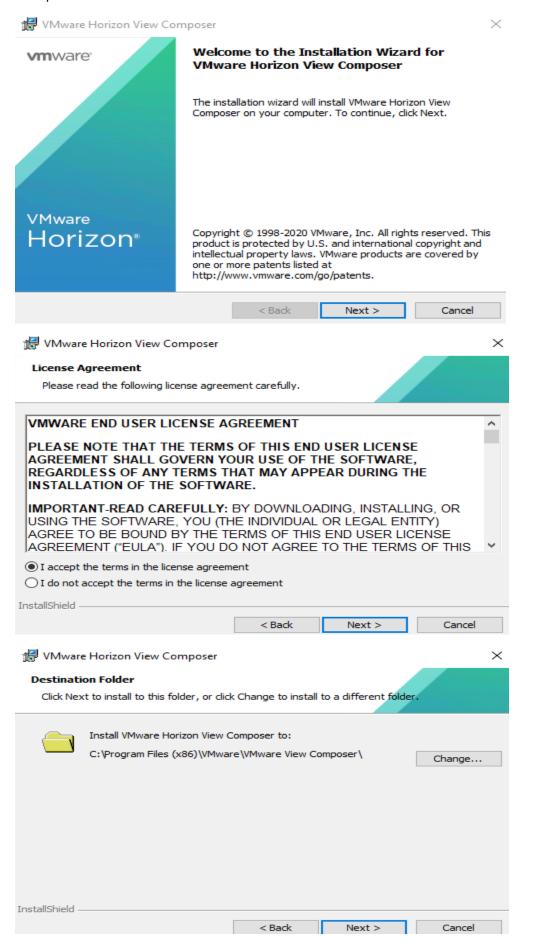
Install View Composer

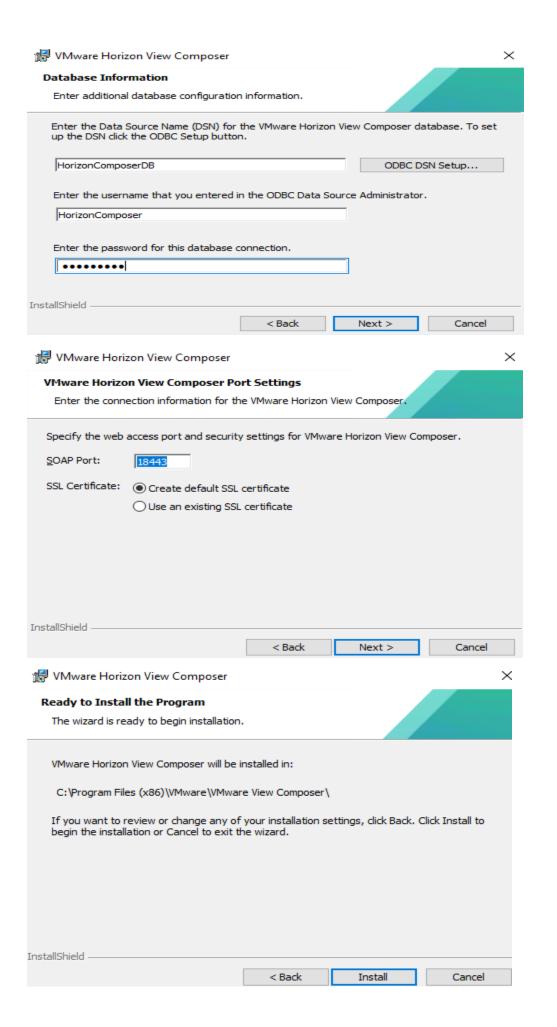


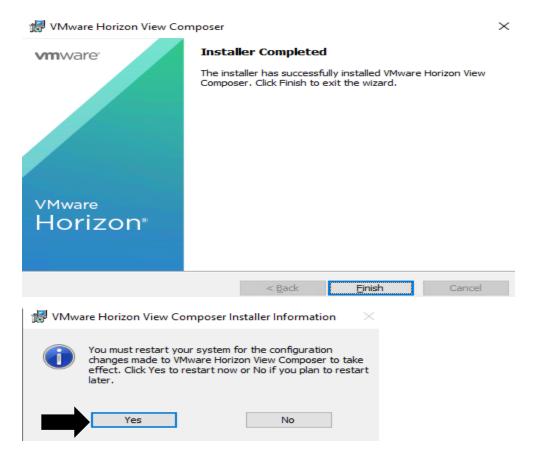
To fix above error - Shutdown the composer server VM and select Firmware as EFI and secure boot to disable as shown below.



Now power on the VM and continue with the install.

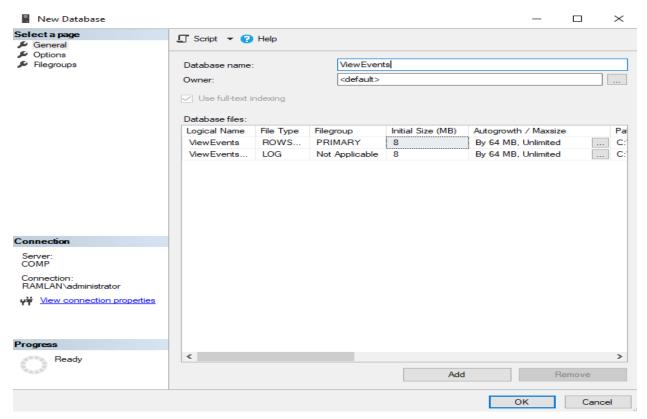


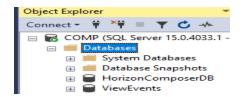




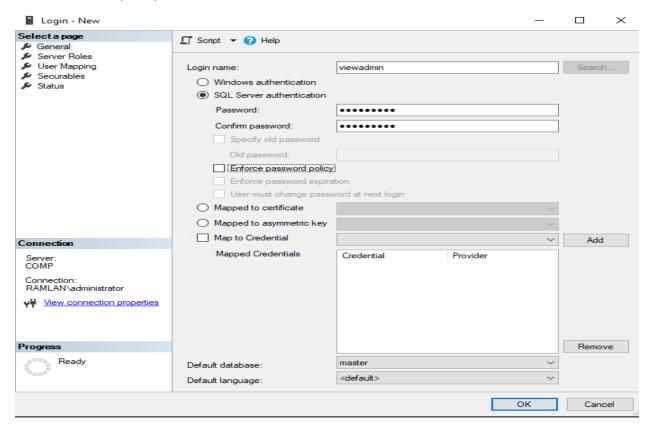
Create the Event Database

From Microsoft SQL Server Management Studio, right click Databases and select New Database.

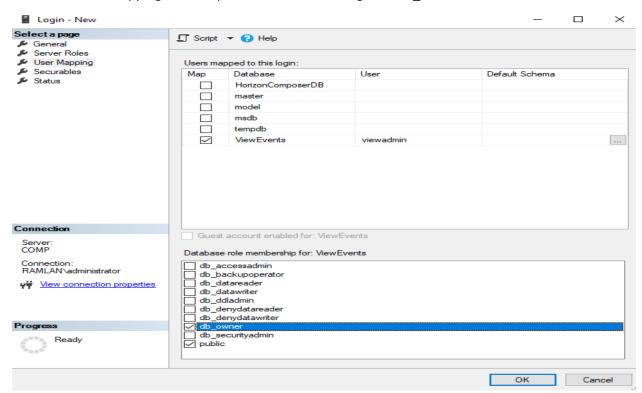




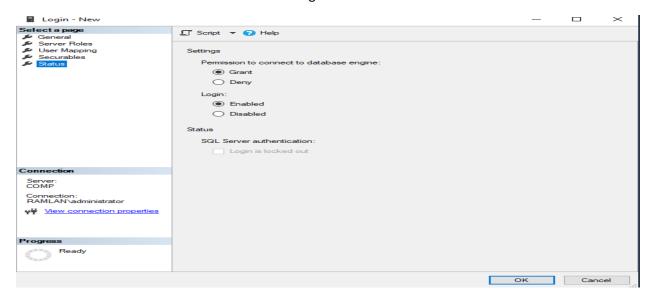
Create New User (Local)



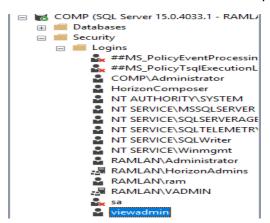
Access the User Mapping field, map the database and assign the db_owner role to the new user.



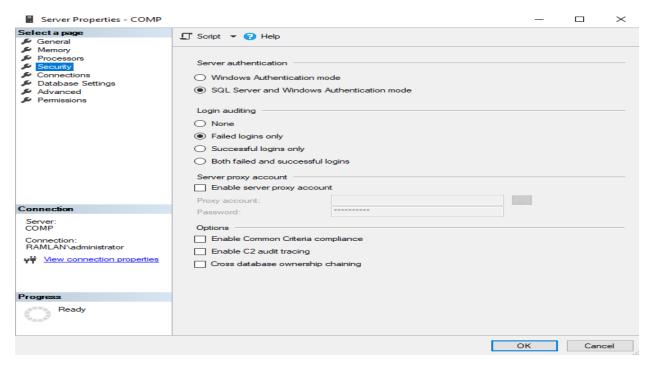
In Status field make sure the user is enabled to login. Click OK.



The new user has been created successfully.

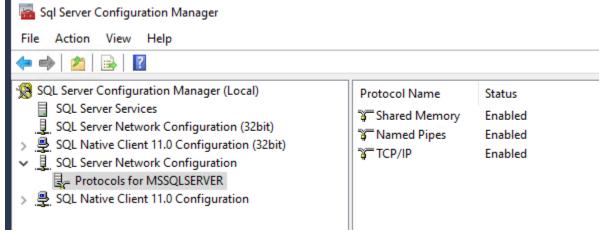


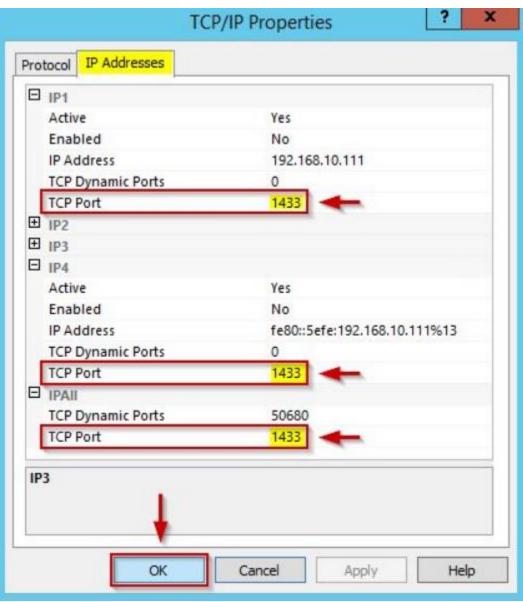
In Server Properties under Security, double check that SQL Server and Windows Authentication mode is enable. Click OK.



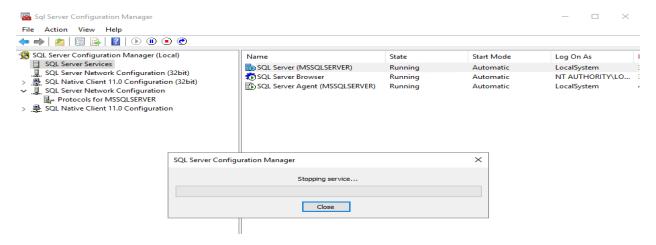
Configure TCP Port

To configure the Event Database, you need to know the port to connect to. Start the SQL Server Configuration Manager and under SQL Server Network Configuration select Protocols for MSSQLSERVER. Right click in the right pane the TCP/IP protocol and select Properties.





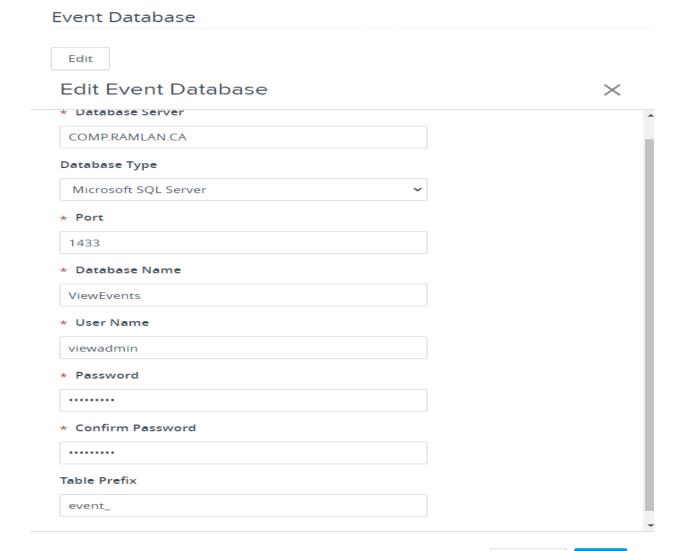
Select SQL Server Services in the left side then right click SQL Server. Select Restart to restart the service.



Configure Event Database in Horizon

From the Horizon console, access the Event Configuration field and click Edit in the Event Database area.

Event Configuration



Cancel

Event Configuration

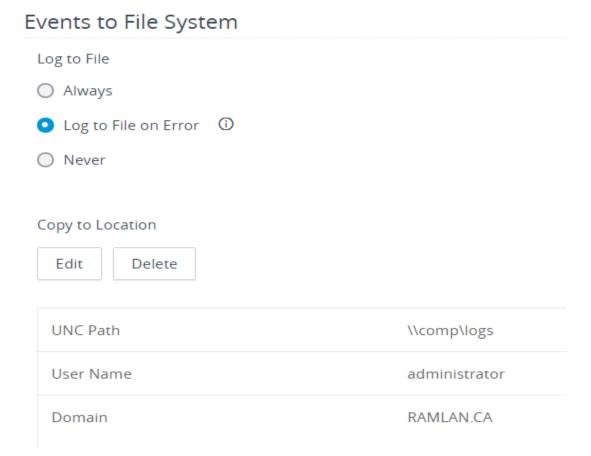
Event Database Edit Clear Database Server Type Microsoft SQL Server Database Server COMP.RAMLAN.CA Port 1433 Database Name ViewEvents User Name viewadmin Table Prefix event_ **Event Settings** Edit Show events in View Administrator for:

3 Months

2 Days

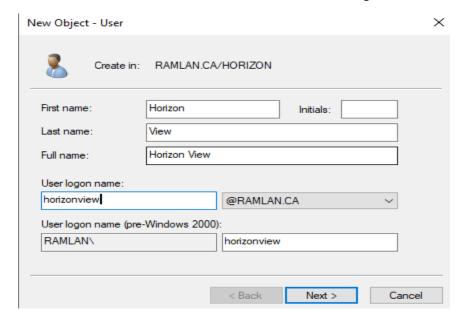
Classify events as new for:

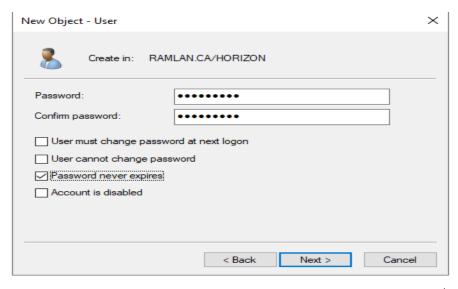
Create a shared folder on Connection Server (conn1.ramlan.ca) so we can save the logs.

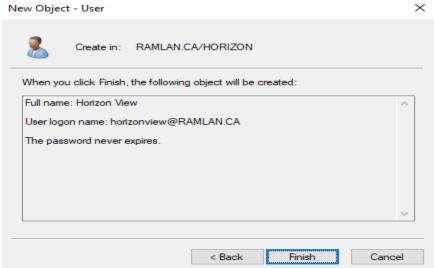


Service Account

- 1. Create an account in Active Directory that Horizon View will use to login to vCenter. This account can also be used by Composer and Instant Clones to create computer accounts in Active Directory.
- 2. Make sure the password does not expire.
- 3. Domain User is sufficient. Permissions will be delegated where needed.



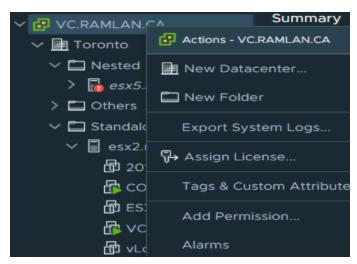


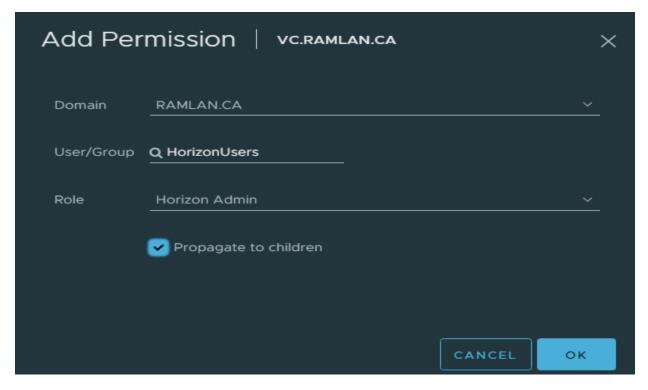


Assign role to service account:

Create an account in Active Directory that Horizon View will use to login to vCenter.

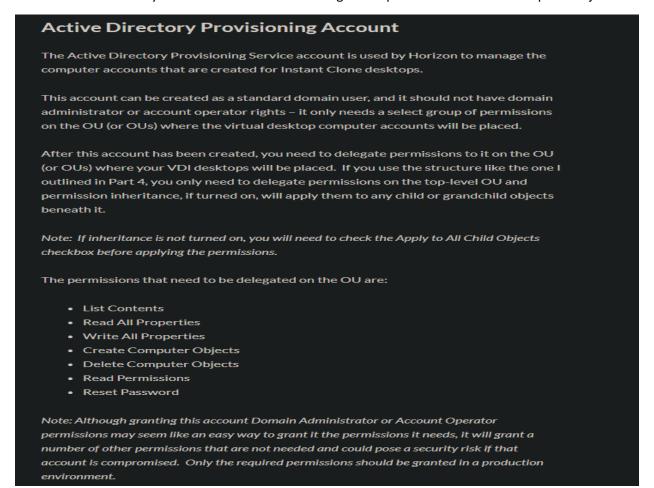
In vSphere Web Client, in Hosts and Clusters view, browse to the vCenter object. Permissions must be assigned at the vCenter level. It won't work at any lower level.

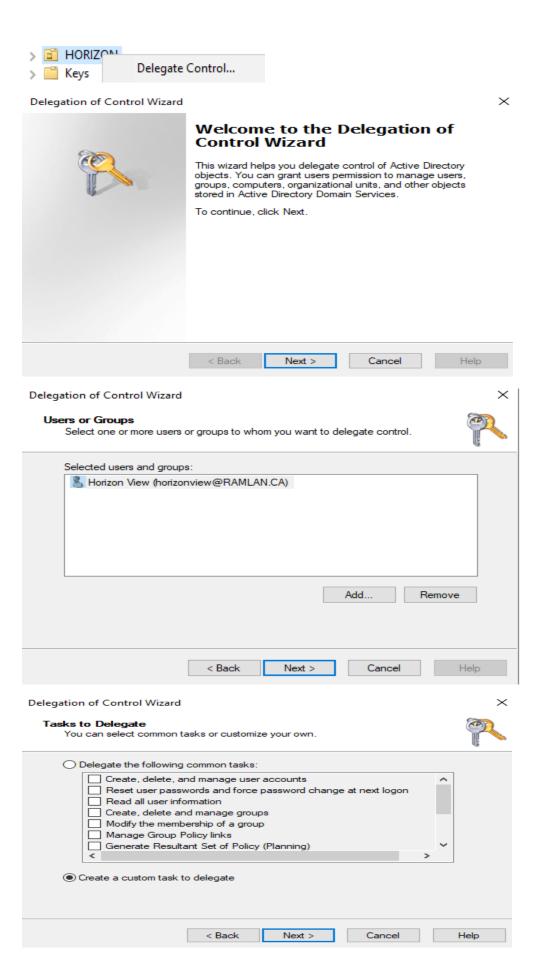




Active Directory Delegation for Instant Clones and Composer

Horizon Composer and Instant Clones create computer objects in Active Directory. Horizon is configured with an Active Directory service account that must be granted permission to create computer objects.





×

Active Directory Object Type

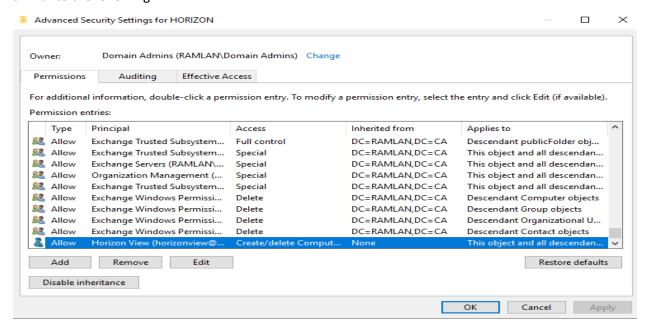
Indicate the scope of the task you want to delegate.



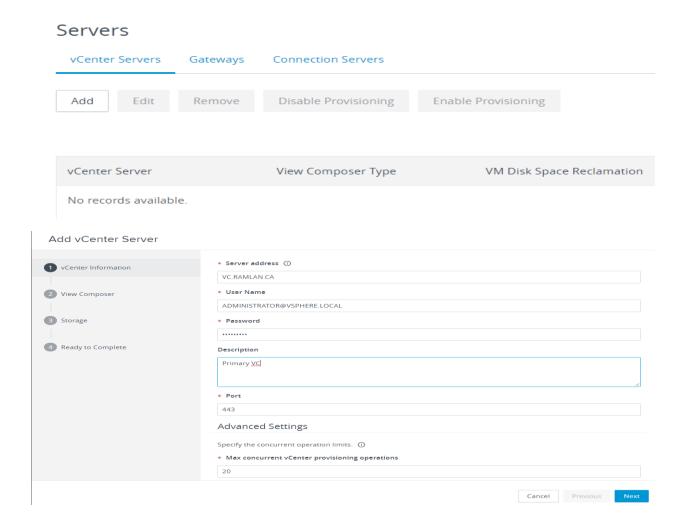
				-
Delegate control of:				
 This folder, existing objects in this folder, and creation of new objects in this folder 				
 Only the following object 	cts in the folder:			
application Version bootable Device of certification Autho Computer objects Connection object Contact objects Create selected obj	objects rity objects ets jects in this folde			~
	< Back	Next >	Cancel	Help
Delegation of Control Wizard				×
Permissions Select the permissions you want to delegate.				
Show these permissions: General Property-specific Creation/deletion of sp Permissions: Read All Properties Write All Properties Change password Reset password Send as Receive as	ecific child obje	cts		
	< Back	Next >	Cancel	Help
Delegation of Control Wizard				×
	You have suc wizard. You chose to in the followin RAMLAN.C The groups, u have given of Horizon Vie They have the	Wizard cessfully complet delegate control g Active Director CA/HORIZON isers, or compute	y folder: ers to which you ⊋RAMLAN.CA) ssions:	

< Back Finish Cancel Help

If you are viewing Advanced Features in Active Directory Users & Computers, if you view the properties of the OU, on the Security tab, click Advanced, find your service account, you should see permissions similar to the following.



Adding vCenter Server





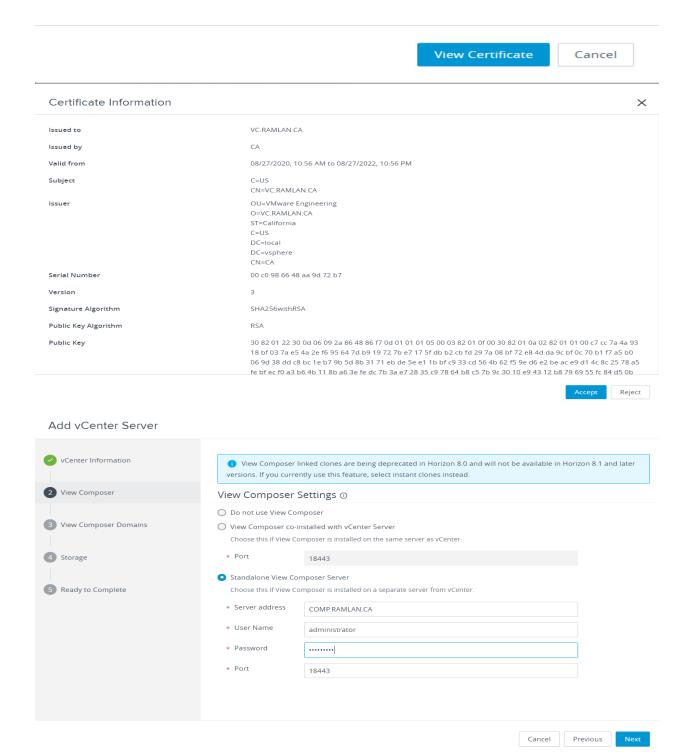
08/29/2020, 6:06 AM

The identity of the specified vCenter Server cannot be verified for the following reasons:

▲ Server's certificate is not trusted.

A Server's certificate cannot be checked.

VMware recommends the use of certificates signed by a trusted Certificate Authority.





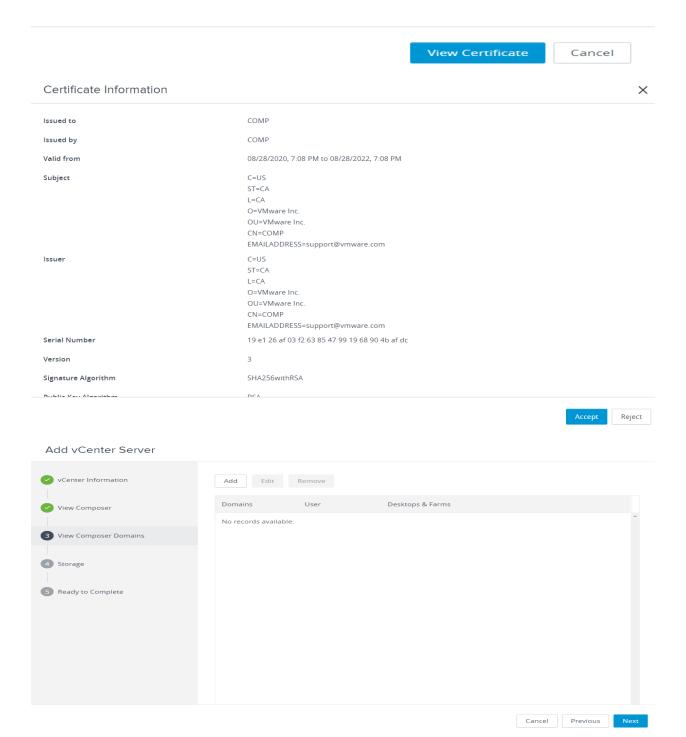
08/29/2020, 6:07 AM

The identity of the specified View Composer Server cannot be verified for the following reasons:

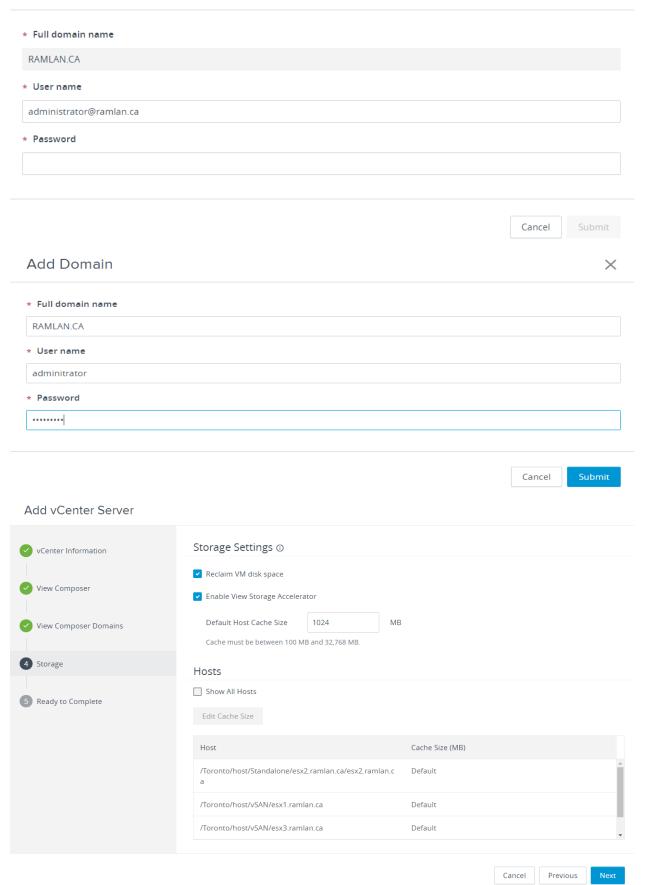
A Server's certificate subject name does not match the server's External URL.

A Server's certificate is not trusted.

VMware recommends the use of certificates signed by a trusted Certificate Authority.



Edit Domain X



Add vCenter Server vCenter Server VC RAMI AN CA vCenter Information User Name administrator ✓ View Composer ****** Description Primary VC View Composer Domains Server Port 443 Storage Max Provision 5 Ready to Complete Max Power 50 Max View Composer Operations 12 Max View Composer Provision Max Instant Clone Engine Provision View Composer State Standalone View Composer Server View Composer Address COMP.RAMLAN.CA Cancel Previous Submit Servers vCenter Servers Gateways Connection Servers Disable Provisioning Enable Provisioning ▼ Filter View Storage Accelerator VM Disk Space Reclamation Deployment Type vCenter Server View Composer Type Provisioning VC.RAMLAN.CA(administrator) Standalone View Composer General Servers vCenter Servers Gateways Connection Servers Enable Disable Edit Backup Now ▼ Filter G Connection Server Version PCoIP Secure Gateway Settings Last Backup State 8.0.0-16592062 Installed Secure tunnel connection, Smart ✓ 08/29/2020, 12:00 AM Enabled card authentication: Optional,

With this we have completed Composer Install and added vCenter. In Part 3, I will cover instant clone and linked clone setup.

Enabled

Installed

Automatic backup

Automatic backup

Thanks

CONN2

8.0.0-16592062

Ram Lan 29th Aug 2020