THE EUC GUY

TECHNICAL WHITEPAPER - OCTOBER 2020

VMware Horizon® version 2006

Installation Guide with Initial Configuration

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Introduction

The purpose of this document is to provide you with guidance on the installation of VMware Horizon® version 2006.

This guide assumes that the required infrastructure and prerequisites are in place to set up the VMware Horizon environment.

Please keep checking back on my blog, http://www.theeucguy.com for new guides relating to VMware enduser computing solutions.

For any feedback or suggestions, you can reach out to me at:





VMware Horizon Connection Server Installation

The VMware Horizon Connection Server is the component that brokers the connection between the user (client) and the virtual desktop and hosted applications.

Horizon Connection Server Hardware and Software Requirements

The following hardware and software requirements are applicable to any type of Horizon Connection Server role, whether it is the standard, replica, security or the enrollment server.

In most organisations, the Horizon Connection Server is deployed as a virtual machine rather than on a physical server. Having this component running as a virtual machine means that it can benefit from all the high-availability and the ease-of-manageability that you get from a virtual infrastructure.

Table 1: Horizon Connection Server Hardware Requirements

Hardware Component	Recommended	Description
Processor	4 CPUs	Recommended processor is Pentium IV 2.0GHz or higher.
Memory	12GB	Even though the Horizon Connection Server can be installed with a lower memory size, the optimal size recommended is 12GB. Giving the server more than this provides no benefits.
Network Adapter	1	Single network adapter connected to the server management network
Disk	70GB	Provides sufficient space for the guest operating system, updates and software installation.

Table 2: Horizon Connection Server Software Requirements

Software Component	Recommended
Operating System	Windows Server 2019 Standard (64-bit), Datacenter (64-bit)
	Windows Server 2016 Standard (64-bit), Datacenter (64-bit)
	Windows Server 2012 R2 Standard (64-bit), Datacenter (64-bit)

Note The Horizon Connection Server should be joined to an Active Directory domain and have a static IP address.

Horizon Connection Server Installation Steps

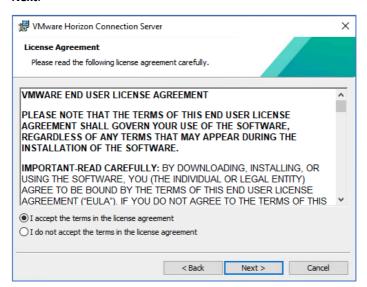
- 1. Ensure you are logged onto the server as a domain user but with administrator privileges to run the installer.
- 2. Double-click on the Horizon Connection Server installer.



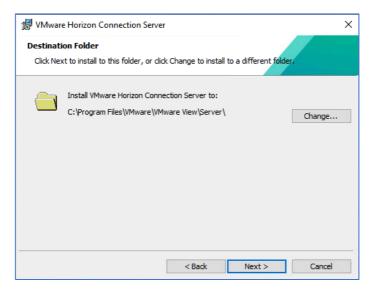
3. On the *Welcome to the Installation Wizard for VMware Horizon Connection Server* screen, click **Next**.



 On the *License Agreement* screen, select I accept the terms in the license agreement and click Next.



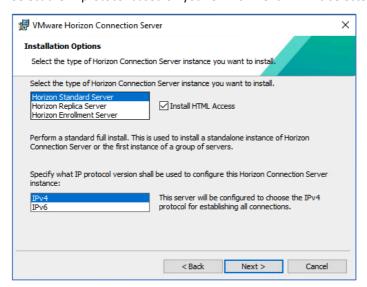
5. On the *Destination Folder* screen, click the **Change...** tab to specify an installation folder location or leave the default location and click **Next**.



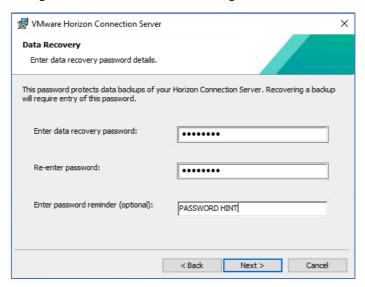
6. On the *Installation Options* screen, as this is the first Horizon Connection Server to be installed, ensure that **Horizon Standard Server** is selected (default).

If you are **not** planning to allow HTML Access (web-based access without the need of the Horizon Client, remove the check against **Install HTML Access**. This is checked by default.

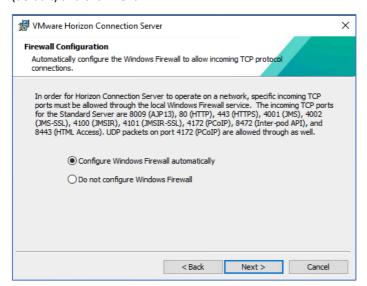
Select the IP protocol based on your environment. IPv4 is selected by default. Click Next.



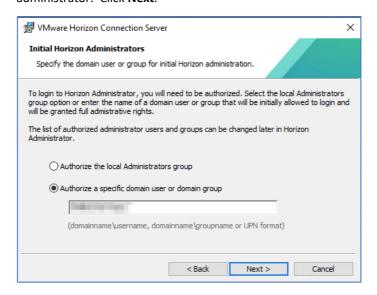
7. On the *Data Recovery* screen, enter a data recovery password. This is password is required during a restoration of the Horizon configuration. Click **Next**.



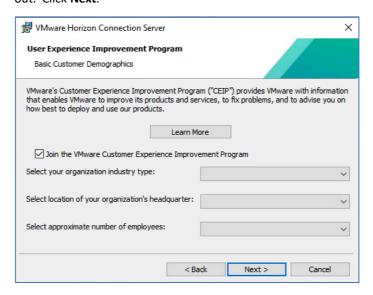
8. On the *Firewall Configuration* screen, select **Configure Windows Firewall automatically** (default) and click **Next**.



9. On the *Initial Horizon Administrators* screen, either select Authorize the local Administrators group (not recommended if there are other users in the Administrators group that will not be part of the Horizon administration) or select Authorize a specific domain user or domain group (recommended) and enter the domain user or domain group that will be the Horizon administrator. Click Next.

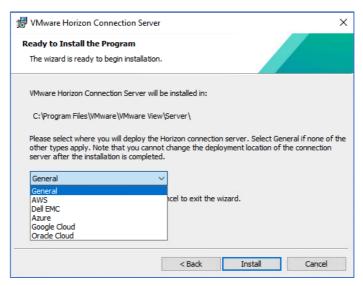


On the User Experience Improvement Program screen, either leave the Join the VMware
 Customer Experience Improvement Program checkbox selected (default) or uncheck it to opt out. Click Next.

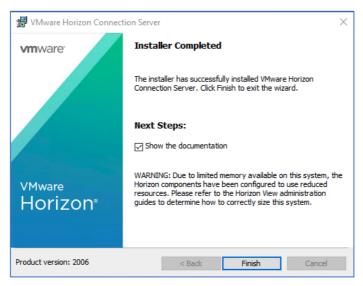


- 11. On the *Ready to Install the Program* screen, depending on the platform you are installing onto, select from the following options:
 - **General** selected by default, when conducting a Horizon 2006 on-premises installation or when installing on a platform not listed in the options
 - AWS select this option when installing Horizon 8 2006 onto VMC on AWS
 - Dell EMC select this option when installing Horizon 8 2006 onto VMC on Dell EMC
 - Azure select this option when installing Horizon 8 2006 on Azure or on Azure VMware Solution (AVS)
 - Google Cloud select this option when installing Horizon 8 2006 on Google Cloud or on Google VMware Cloud Engine (GCVE)
 - Oracle Cloud select this option when installing Horizon 8 2006 on Oracle Cloud or on Oracle VMware Cloud Solution (OCVS)

Click Install once you have made your selection.



12. Once the installation completes, uncheck **Show the documentation** if you do not wish to review the documentation (checked by default). Click **Finish**.



This concludes the installation of the first Horizon Connection Server.

Horizon Connection Server Initial Configuration Steps

Licensing Horizon

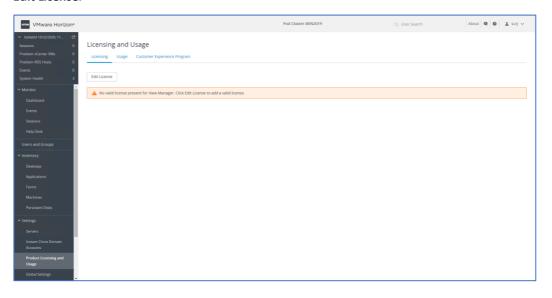
1. Open a Web Browser and enter the following URL format:

https://<connection_server_fqdn>admin.

When prompted, enter the **username** and **password** for the account that has been granted access to the Horizon Console and click **Sign in**.



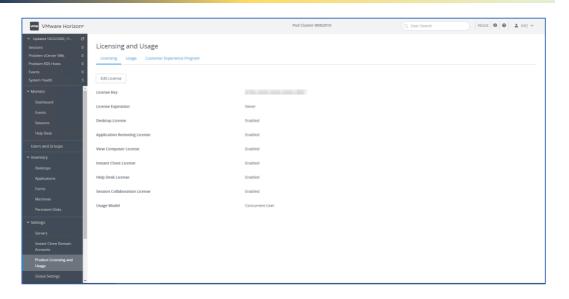
2. As soon as you log into the Horizon Console, you are prompted to add a license key. Click on **Edit License**.



3. Enter a valid license key and click **OK**.



4. Confirm that the license key has correctly been applied.



Add vCenter Server

Before adding vCenter Server to the Horizon Console, Horizon requires permissions on the vCenter Server to carry out provisioning activities. It is strongly recommended to create a service account in AD, which is added to vCenter Server with the privileges detailed in Table 3: vCenter Server Privileges.

Table 3: vCenter Server Privileges

Group	Privilege
Folder	Create folder
	Delete folder
Datastore	Allocate space
	Browse datastore
	Low level file operations
Host	Under Inventory:
	Modify cluster
Virtual machine	Under Configuration:
	All
	Under Interaction:
	Power off
	Power on

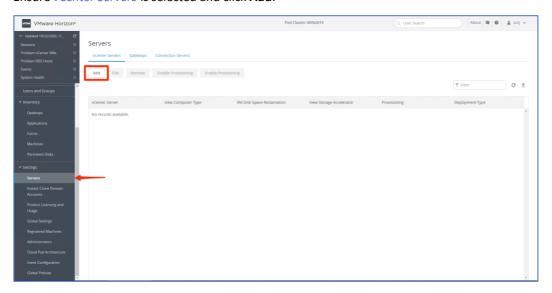
Group	Privilege
	Reset
	Suspend
	Perform wipe or shrink operations
	Device connection
	Under Inventory:
	All
	Under Snapshot management:
	All
	Under Provisioning:
	Customize
	Deploy template
	Read customization specifications
	Clone template
	Clone virtual machine
	Allow disk access
Resource	Assign virtual machine to resource pool

Group	Privilege
Global	Enable methods
	Disable methods
	System tag
	Manage custom attributes
	Act as vCenter Server (required if enabling View Storage Accelerator)
Network	All
Profile Driven Storage	All (if using vSAN datastores or Virtual Volumes)
Storage views	View
Cryptographic operations	If using Instant Clones VMs with vTPM:
	Clone
	Decrypt

Group	Privilege
	Direct Access
	Encrypt
	Manage KMS
	Migrate
	Register Host

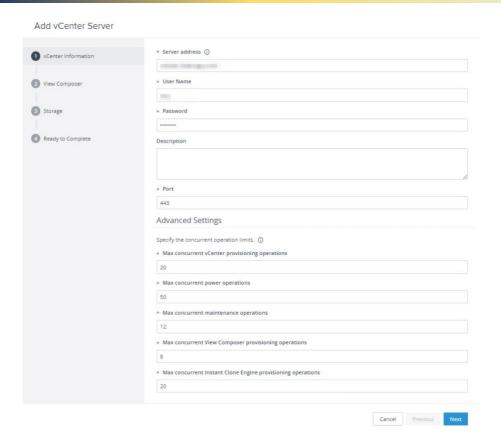
5. Under **Settings**, click on **Servers**.

Ensure *vCenter Servers* is selected and click **Add**.

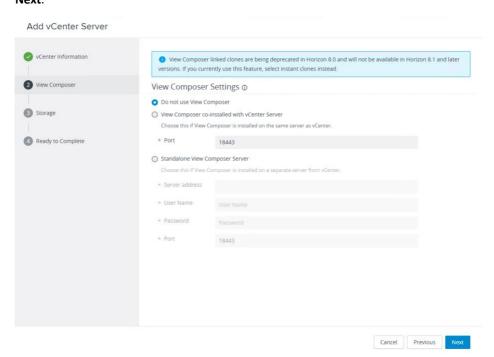


Enter the **FQDN** of your vCenter Server that will be managing the virtual desktop resources.

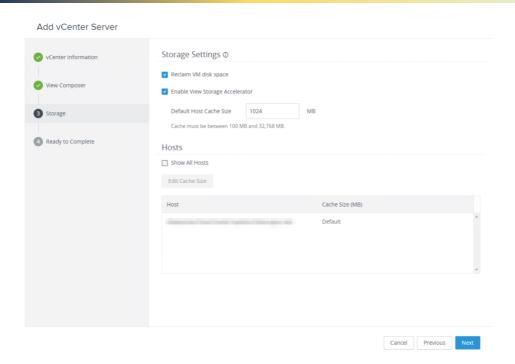
6. Enter the **username** and **password** for the account with permissions to connect to vCenter Server. Typical other settings are left as defaults. Click **Next**.



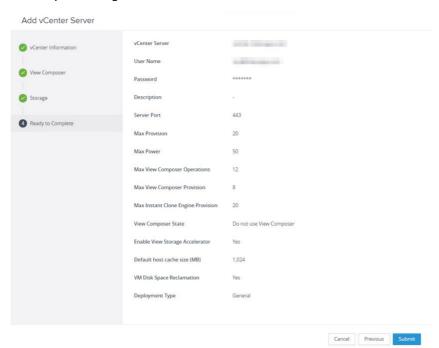
Select whether you are planning to use View Composer. Take a moment to read the
information banner that View Composer will longer be available in future releases of Horizon.
Take this into consideration when planning your use-cases. Make the required settings and click
Next.



8. The next page is where you can configure Storage Settings. Review the settings can click Next.



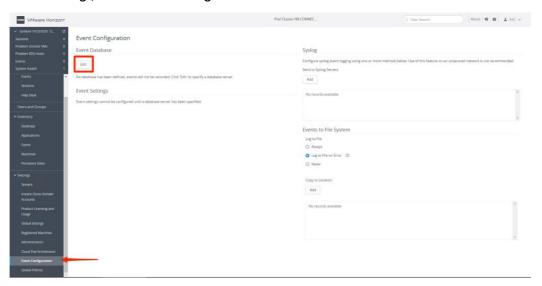
9. Review your settings and click **Submit**.



Configure Events Database

The final part of the initial configuration is configuring Horizon with the Events database.

10. Under Settings, click on Event Configuration and then click Edit.



11. Enter the **FQDN** of your database server.

Select the **Database Type** from the drop-down list.

If required, change the **Port** to communicate with the database server.

Enter the **username** and **password** to the database.

Enter a Table Prefix and click OK.

