# THE EUC GUY

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## VMware Horizon<sup>®</sup> 7 version 7.8 Installation Guide

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## Introduction

The purpose of this document is to provide you with guidance on the installation of VMware Horizon<sup>®</sup> 7 version 7.8.

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

For a graphical representation of this guide, you can watch my installation and basic configuration video at <u>https://youtu.be/loctmv6skNI</u>.

Please keep checking back on my blog, <u>http://www.theeucguy.com</u> 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.

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 1 – Horizon Connection Server Hardware Requirements

#### Table 2 – Horizon Connection Server Software Requirements

Software Component	Recommended
Operating System	Windows Server 2019 Standard, Datacenter
	Windows Server 2016 Standard, Datacenter
	Windows Server 2012 R2 Standard, Datacenter
	Windows Server 2008 R2 SP1 Standard, Enterprise, Datacenter

**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.

WMware-Horizon-Connection-Server-x86\_64-7.8.0-12637483.exe

3. On the *Welcome to the Installation Wizard for VMware Horizon 7 Connection Server* screen, click **Next**.

🛃 VMware Horizon 7 Connection Server 🛛 🗙			
<b>P</b>	Welcome to the Installation Wizard for VMware Horizon 7 Connection Server		
	The installation wizard will install VMware Horizon 7 Connection Server on your computer. To continue, click Next.		
VMware Horizon"*7 Connection Server	Copyright (c) 1998-2019 VMware, Inc. All rights reserved. This product is protected by U.S. and international copyright and intellectual property laws. VMware products are covered by one or more patents listed at http://www.vmware.com/go/patents.		
Product version: 7.8.0-12637483 x64 < Back Next > Cancel			

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

🚼 VMware Horizon 7 Connection Serv	er		×
License Agreement Please read the following license agreen	nent carefully.		꼪
VMWARE END USER LICE	NSE AGRE	EMENT	^
PLEASE NOTE THAT THE TERMS OF THIS END USER LICENSE AGREEMENT SHALL GOVERN YOUR USE OF THE SOF TWARE, REGARDLESS OF ANY TERMS THAT MAY APPEAR DURING THE INSTALLATION OF THE SOF TWARE.			
<ul> <li>I accept the terms in the license agreement</li> <li>I do not accept the terms in the license agreement</li> </ul>			
	< Back	Next >	Cancel

5. On the *Destination Folder* screen, either leave the default location or select the location suited to your environment and click **Next**.

🖟 VMwar	e Horizon 7 Connection Serv	er		×
Destinati Click Nex	i <b>on Folder</b> xt to install to this folder, or clic	k Change to install	to a different folde	r. 🚇
	Install VMware Horizon 7 Con C: \Program Files \VMware \VM	nection Server to: ware View\Server\		Change
		< Back	Next >	Cancel

6. On the *Installation Options* screen, as this is the first Horizon Connection Server to be installed, ensure that **Horizon 7 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.

🕼 VMware Horizon 7 Connection Server 🛛 🗙			
Installation Options Select the type of Horizon 7 Connection Server instance you want to install.			
Select the type of Horizon 7 Connection Server instance you want to install.			
1 Horizon 7 Standard Server Horizon 7 Replica Server Horizon 7 Security Server Horizon 7 Enrollment Server 2			
Perform a standard full install. This is used to install a standalone instance of Horizon 7 Connection Server or the first instance of a group of servers.			
Specify what IP protocol version shall be used to configure this Horizon 7 Connection Server instance:			
3 IPv4 IPv6 This server will be configured to choose the IPv4 protocol for establishing all connections.			
< Back Next > Cancel			

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

🖟 VMware Horizon 7 Connection Serve	r ×
Data Recovery Enter data recovery password details.	
This password protects data backups of yo will require entry of this password.	ur Horizon 7 Connection Server. Recovering a backup
Enter data recovery password:	•••••
Re-enter password:	•••••
Enter password reminder (optional):	PASSWORD REMINDER
	< Back Next > Cancel

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

Firewall Configuration       Image: Configure the Windows Firewall to allow incoming TCP protocol connections.         In order for Horizon 7 Connection Server to operate on a network, specific incoming TCP ports must be allowed through the local Windows Firewall service. The incoming TCP ports for the Standard Server are 8009 (AJP13), 80 (HTTP), 4431 (HTTPS), 4001 (JMS), 4002 (JMS-SSL), 4100 (JMSIR), 4101 (JMSIR-SSL), 4172 (PCoIP), 8472 (Inter-pod API), and 8443 (HTML Access). UDP packets on port 4172 (PCoIP) are allowed through as well. <ul> <li>Configure Windows Firewall automatically</li> <li>Do not configure Windows Firewall</li> </ul>
In order for Horizon 7 Connection Server to operate on a network, specific incoming TCP ports must be allowed through the local Windows Firewall service. The incoming TCP ports for the Standard Server are 8009 (AJP13), 80 (HTTP), 443 (HTTPS), 4001 (JMS), 4002 (JMS-SSL), 4100 (JMSIR), 4101 (JMSIR-SSL), 4172 (PCoIP), 8472 (Inter-pod API), and 8443 (HTML Access). UDP packets on port 4172 (PCoIP) are allowed through as well.
Configure Windows Firewall automatically     Do not configure Windows Firewall
O Do not configure Windows Firewall
< Back Next > Cancel

9. On the *Initial Horizon 7 Administrators* screen, either select **Authorize the local Administrators group** (not recommended if there are other groups in the Administrators group that will not be part of the Horizon administration).

Select **Authorize a specific domain user or domain group** and enter the domain user or domain group that will be the Horizon administrator. Click **Next**.

🛃 VMware Horizon 7 Connection Server 🛛 🕹 🗙			
Initial Horizon 7 Administrators         Specify the domain user or group for initial Horizon 7 administration.			
To login to Horizon 7 Administrator, you will need to be authorized. Select the local Administrators group option or enter the name of a domain user or group that will be initially allowed to login and will be granted full admistrative rights.			
The list of authorized administrator users and groups can be changed later in Horizon 7 Administrator.			
O Authorize the local Administrators group			
Authorize a specific domain user or domain group			
The second se			
(domainname\username, domainname\groupname or UPN format)			
< Back Next > Cancel			

10. On the User Experience Improvement Program screen, leave checked or uncheck Join the VMware Customer Experience Improvement Program. Click Next.

🚽 VMware Horizon 7 Connection Server	×
User Experience Improvement Program	
Basic Customer Demographics	
VMware's Customer Experience Improvement Progra that enables VMware to improve its products and see how best to deploy and use our products.	m ("CEIP") provides VMware with information vices, to fix problems, and to advise you on
Learn M	pre
Join the VMware Customer Experience Improv	ement Program
Select your organization industry type:	~
Select location of your organization's headquarter:	~
Select approximate number of employees:	~
< Ba	dk Next > Cancel

11. On the *Ready to Install the Program* screen, click **Install**.

🖟 VMware Horizon 7 Connection Serv	er	×
Ready to Install the Program The wizard is ready to begin installation		<u>A</u>
VMware Horizon 7 Connection Server w C:\Program Files\VMware\VMware Vev Click Install to begin the installation or C	II be installed in: /\Server\ ancel to exit the wizard.	
	< Back Ins	tall Cancel

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

📸 VMware Horizon 7 Connection Server 🛛 🗙				
<b>C</b>	Installer Completed			
	The installer has successfully installed VMware Horizon 7 Connection Server. Click Finish to exit the wizard.			
	Next Steps:			
	$\checkmark$ Show the documentation			
vMware Horizon™7 Connection Server	WARNING: Due to limited memory available on this system, the Horizon 7 components have been configured to use reduced resources. Please refer to the Horizon 7 View administration guides to determine how to correctly size this system.			
Product version: 7.8.0-12637483 x64 < Back Finish Cancel				

This concludes the installation of the first Horizon Connection Server.

#### Horizon Connection Server Replica Installation Steps

1. To install additional Horizon Connection Servers (named Horizon 7 Replica Server), follow the above procedures until you reach step 6.

2. On the *Installation Options* screen, select **Horizon 7 Replica Server**. Change any other options based on your requirements and click **Next**.

🕼 VMware Horizon 7 Connection Server	×			
Installation Options Select the type of Horizon 7 Connection Server instance you want to install.	ŵ			
Select the type of Horizon 7 Connection Server instance you want to install.  Horizon 7 Standard Server Horizon 7 Security Server Horizon 7 Serviers Horizon 7 Servie				
Perform a replica instance install joining an existing server instance. This is used to install a second or subsequent server in a group of servers that all automatically share the same directory configuration. Specify what IP protocol version shall be used to configure this Horizon 7 Connection Server instance.				
IPv4         This server will be configured to choose the IPv4           IPv6         protocol for establishing all connections.				
< Back Next > Can	el			

3. On the *Source Server* screen, enter the hostname or IP address of the first Horizon Connection Server (standard) and click **Next**.

🕷 VMware Horizon 7 Connection Serve	er	×		
Source Server Select an existing Horizon 7 Connection	Server instance from which to replicate.	÷		
A group of Horizon 7 Connection Server instances that share the same configuration data is called a Horizon 7 Connection Server group. Setup will replicate configuration data from an existing server instance.				
Enter the server name of an existing Horizon 7 Connection Server instance to make this server part of that group.				
Example server: view.internal.vmware.com	m.			
Server:	(hostname or IP ad	dress)		
	< Back Next > Can	cel		

4. For all subsequent installation screens, follow the procedures documented in Horizon Connection Server Installation Steps, starting at step 8.

This concludes the installation of the Horizon Replica Server.