

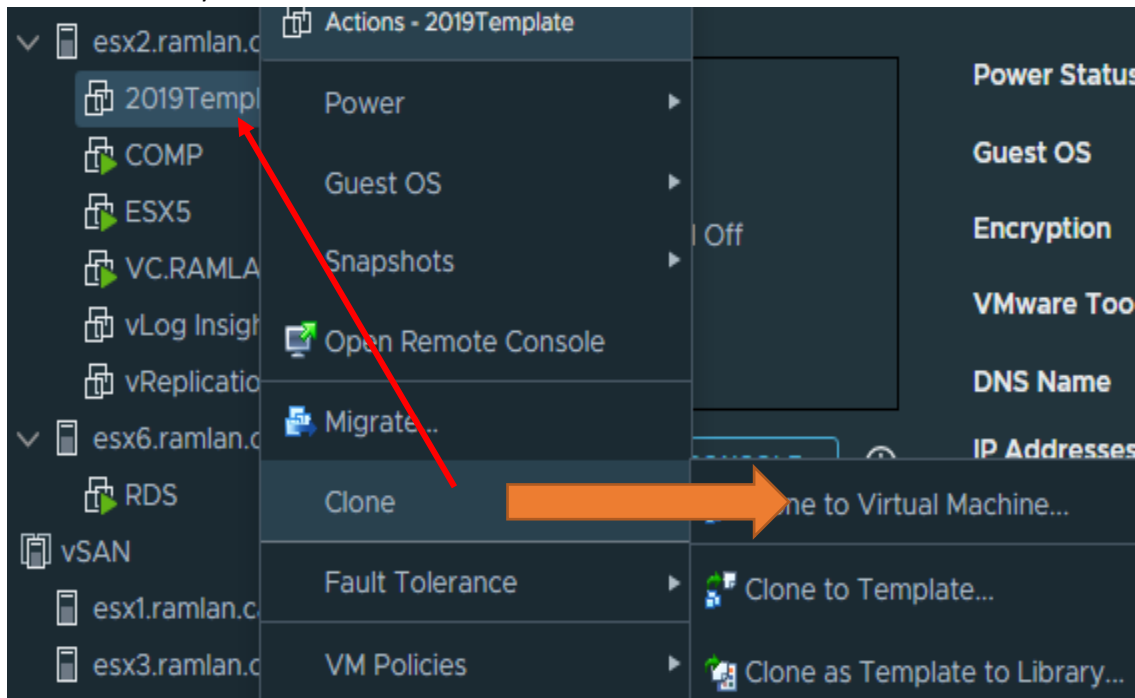
VMWare Horizon View 8 2006 – Part 3

In this post, I will cover the following:

1. Microsoft RDS Windows Server 2019 on VMWare Host (**ESX6.RAMLAN.CA**)
2. VMWare Helpdesk Agent v1.5
3. VMWare Recording Server & Recording Agent **to record remote user session**
4. VMWare Horizon Agent & Horizon Client on Windows 10 workstation

Microsoft RDS Server

Created a clone from template and installed all the updates. Restarted the system and installed **Adobe Reader, 7Zip, WinRAR, Office 2019, Google Chrome, Microsoft Edge and VMWare Tools**. The server has 4GB Memory and 250GB Hard Disk.



Now will install RDS role.

Add Roles and Features Wizard

—

□

×

Select installation type

DESTINATION SERVER
No servers are selected.

Before You Begin

Installation Type

Deployment Type

Deployment Scenario

Role Services

RD Connection Broker

RD Web Access

RD Virtualization Host

Confirmation

Completion

Select the installation type. You can install roles and features on a running physical computer or virtual machine, or on an offline virtual hard disk (VHD).

☐ **Role-based or feature-based installation**
Configure a single server by adding roles, role services, and features.

☒ **Remote Desktop Services installation**
Install required role services for Virtual Desktop Infrastructure (VDI) to create a virtual machine-based or session-based desktop deployment.

< Previous

Next >

Deploy

Cancel

Add Roles and Features Wizard

—

□

×

Before you begin

DESTINATION SERVER
RDS.RAMLAN.CA

Before You Begin

Installation Type

Server Selection

Server Roles

Features

Confirmation

Results

This wizard helps you install roles, role services, or features. You determine which roles, role services, or features to install based on the computing needs of your organization, such as sharing documents, or hosting a website.

To remove roles, role services, or features:
[Start the Remove Roles and Features Wizard](#)

Before you continue, verify that the following tasks have been completed:

- The Administrator account has a strong password
- Network settings, such as static IP addresses, are configured
- The most current security updates from Windows Update are installed

If you must verify that any of the preceding prerequisites have been completed, close the wizard, complete the steps, and then run the wizard again.

To continue, click Next.

☒ Skip this page by default

< Previous

Next >

Install

Cancel

Select deployment type

DESTINATION SERVER
No servers are selected

Before You Begin

Installation Type

Deployment Type

Deployment Scenario

Role Services

RD Connection Broker

RD Web Access

RD Virtualization Host

Confirmation

Completion

Remote Desktop Services can be configured across multiple servers or on one server.

☒ Standard deployment

A standard deployment allows you to deploy Remote Desktop Services across multiple servers.

☐ Quick Start

A Quick Start allows you to deploy Remote Desktop Services on one server, and creates a collection and publishes RemoteApp programs.

< Previous

Next >

Deploy

Cancel

Select deployment scenario

DESTINATION SERVER
Standard deployment selected

Before You Begin

Installation Type

Deployment Type

Deployment Scenario

Role Services

RD Connection Broker

RD Web Access

RD Session Host

Confirmation

Completion

Remote Desktop Services can be configured to allow users to connect to virtual desktops, RemoteApp programs, and session-based desktops.

☐ Virtual machine-based desktop deployment

Virtual machine-based desktop deployment allows users to connect to virtual desktop collections that include published RemoteApp programs and virtual desktops.

☒ Session-based desktop deployment

Session-based desktop deployment allows users to connect to session collections that include published RemoteApp programs and session-based desktops.

< Previous

Next >

Deploy

Cancel

Review role services

DESTINATION SERVER
Standard deployment selected[Before You Begin](#)[Installation Type](#)[Deployment Type](#)[Deployment Scenario](#)**Role Services**[RD Connection Broker](#)[RD Web Access](#)[RD Session Host](#)[Confirmation](#)[Completion](#)

The following Remote Desktop Services role services will be installed and configured for this deployment.

**Remote Desktop Connection Broker**

Remote Desktop Connection Broker connects or reconnects a client device to RemoteApp programs, session-based desktops, and virtual desktops.

**Remote Desktop Web Access**

Remote Desktop Web Access enables users to connect to resources provided by session collections and virtual desktop collections by using the Start menu or a web browser.

**Remote Desktop Session Host**

Remote Desktop Session Host enables a server to host RemoteApp programs or session-based desktops.



The credentials of the RAMLAN\ADMINISTRATOR account will be used to create the deployment.

< Previous

Next >

Deploy

Cancel

Specify RD Connection Broker server

DESTINATION SERVER
Standard deployment selected[Before You Begin](#)[Installation Type](#)[Deployment Type](#)[Deployment Scenario](#)[Role Services](#)**RD Connection Broker**[RD Web Access](#)[RD Session Host](#)[Confirmation](#)[Completion](#)

Select the servers from the server pool on which to install the RD Connection Broker role service.

Server Pool

Filter:

Name	IP Address	Operating
RDS.RAMLAN.CA	192.168.0.135	

1 Computer(s) found

Selected[Computer](#)

RAMLAN.CA (1)
RDS

1 Computer(s) selected

< Previous

Next >

Deploy

Cancel

Specify RD Web Access server

DESTINATION SERVER
Standard deployment selected

Before You Begin
Installation Type
Deployment Type
Deployment Scenario
Role Services
RD Connection Broker
RD Web Access
RD Session Host
Confirmation
Completion

Select a server from the server pool on which to install the RD Web Access role service.

☐ Install the RD Web Access role service on the RD Connection Broker server

Server Pool		
Filter: <input type="text"/>		
Name	IP Address	Operating
RDS.RAMLAN.CA	192.168.0.135	

1 Computer(s) found

Selected

Computer

▲ RAMLAN.CA (1)
RDS

1 Computer(s) selected

< Previous

Next >

Deploy

Cancel

Specify RD Session Host servers

DESTINATION SERVER
Standard deployment selected

Before You Begin
Installation Type
Deployment Type
Deployment Scenario
Role Services
RD Connection Broker
RD Web Access
RD Session Host
Confirmation
Completion

Select the servers from the server pool on which to install the RD Session Host role service. If more than one server is selected, the RD Session Host role service will be deployed on all of them.

Server Pool		
Filter: <input type="text"/>		
Name	IP Address	Operating
RDS.RAMLAN.CA	192.168.0.135	

1 Computer(s) found

Selected

Computer

▲ RAMLAN.CA (1)
RDS

1 Computer(s) selected

< Previous

Next >

Deploy

Cancel

Confirm selections

DESTINATION SERVER
Standard deployment selected

Before You Begin
Installation Type
Deployment Type
Deployment Scenario
Role Services
RD Connection Broker
RD Web Access
RD Session Host
Confirmation
Completion

To complete the installation, you must restart the RD Session Host servers. After installation is complete on the remote computers, the local computer will be restarted.

RD Connection Broker (1 server selected)

RDS.RAMLAN.CA

RD Web Access (1 server selected)

RDS.RAMLAN.CA

RD Session Host (1 server selected)

⚠ The following servers may restart after the role service is installed.

RDS.RAMLAN.CA

☒ Restart the destination server automatically if required

< Previous

Next >

Deploy

Cancel

View progress

DESTINATION SERVER
Standard deployment selected**Completion**

The selected Remote Desktop Services role services are being installed.

Server	Progress	Status
RD Connection Broker role service		
RDS.RAMLAN.CA	<div></div>	Succeeded
RD Web Access role service		
RDS.RAMLAN.CA	<div></div>	Succeeded
RD Session Host role service		
RDS.RAMLAN.CA	<div></div>	Succeeded

< Previous

Next >

Close



Cancel

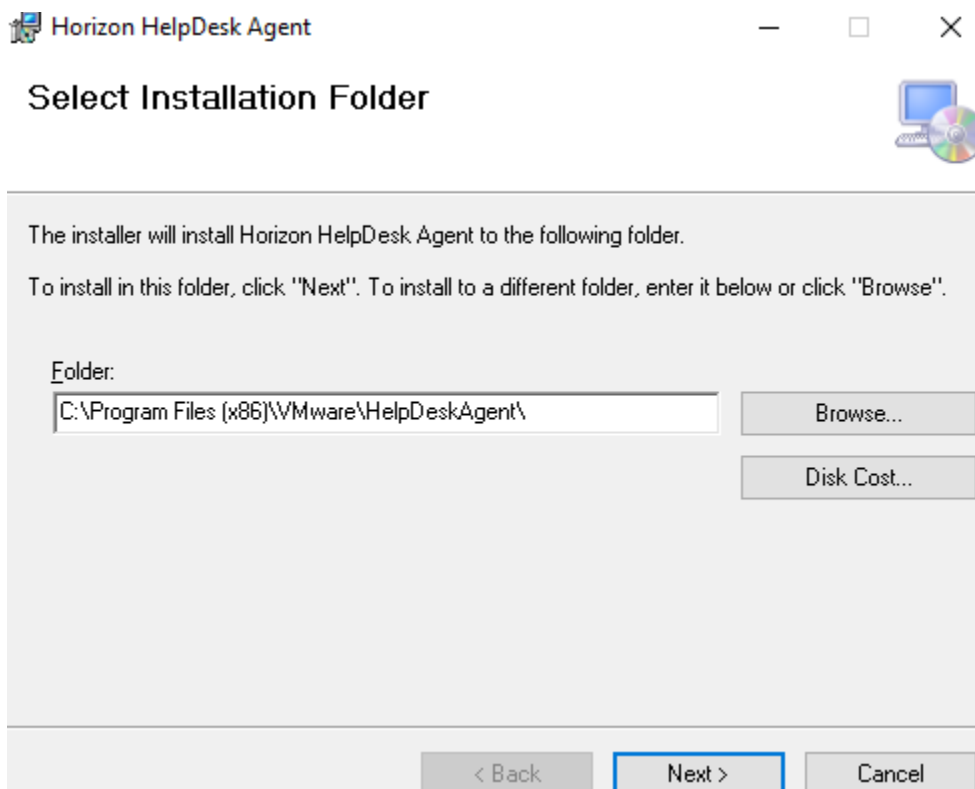
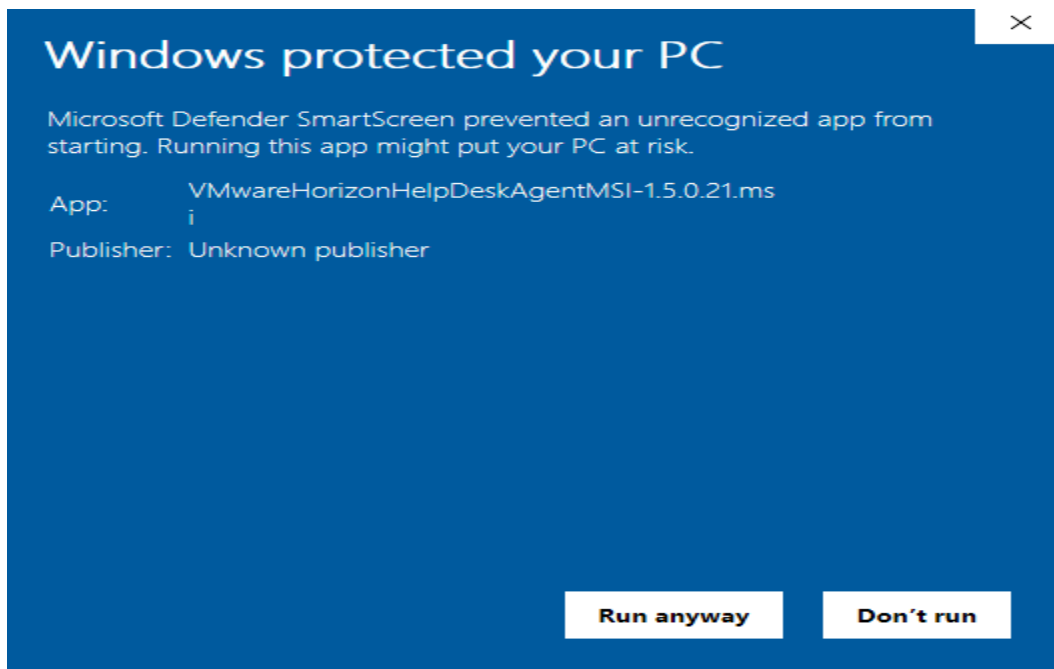
This concludes RDS role install on Windows Server 2019.

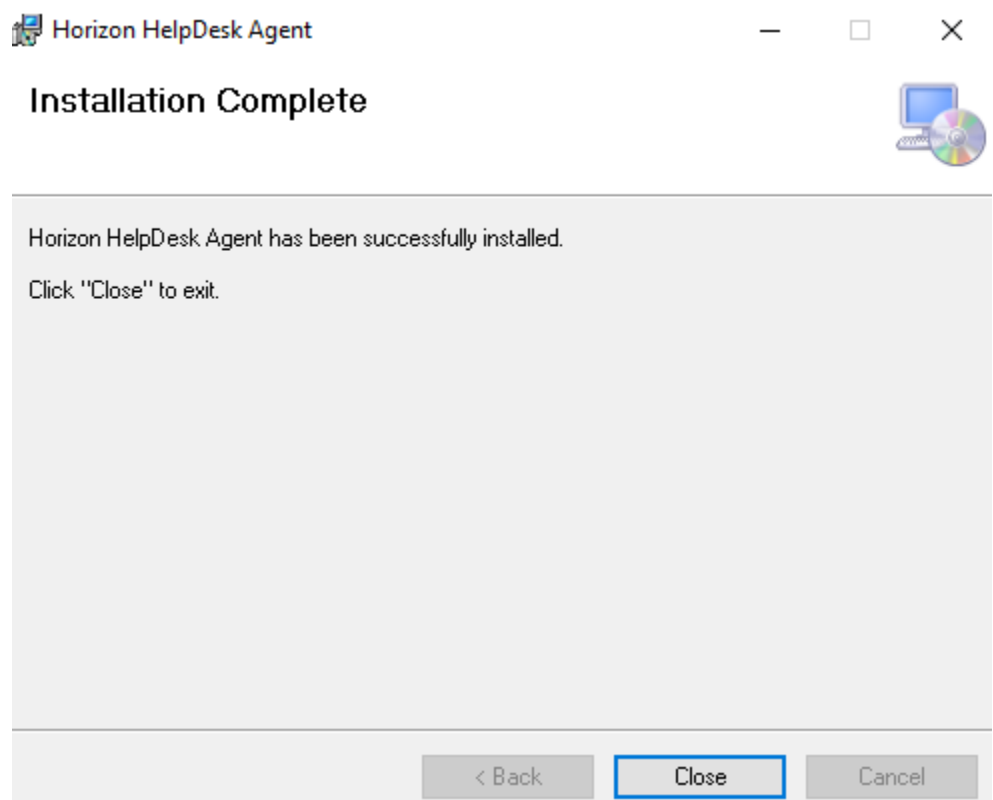
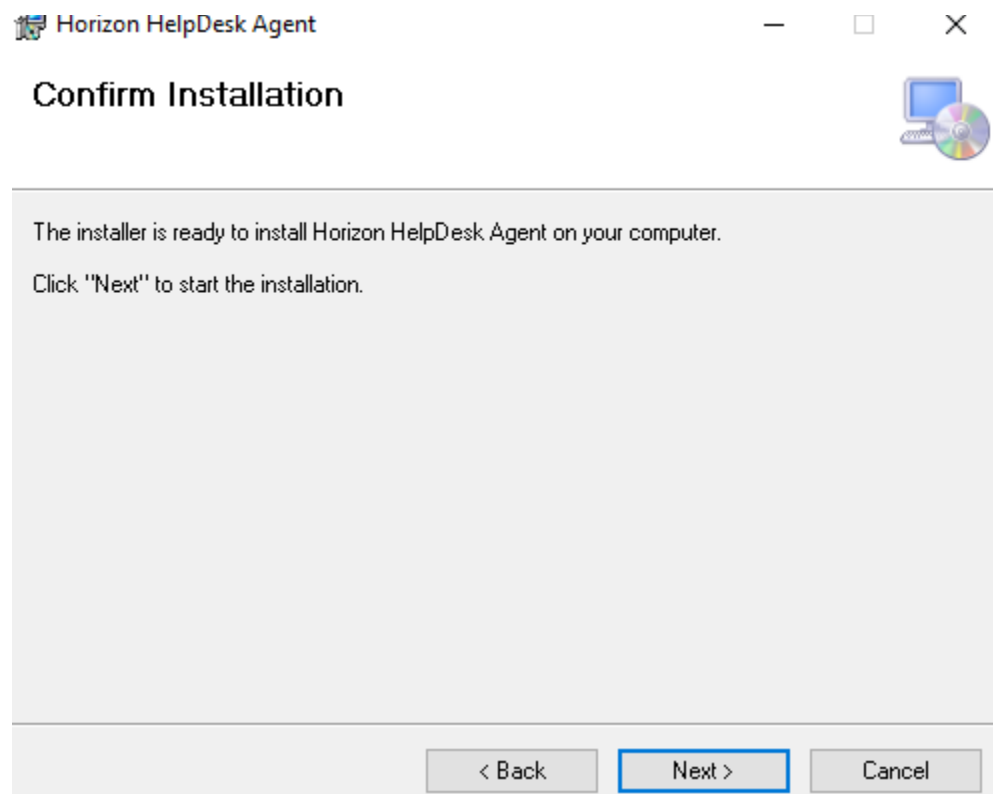
VMWARE HELPDESK AGENT v1.5

I was able to download this fling from <https://flings.vmware.com/horizon-helpdesk-utility#summary>

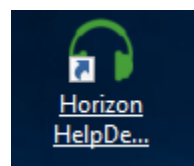
I believe this tool is from the community and it is FREE. Download the MSI and complete the install. I am going to install it on a workstation and see how it works. Check the documentation for more info about the product.

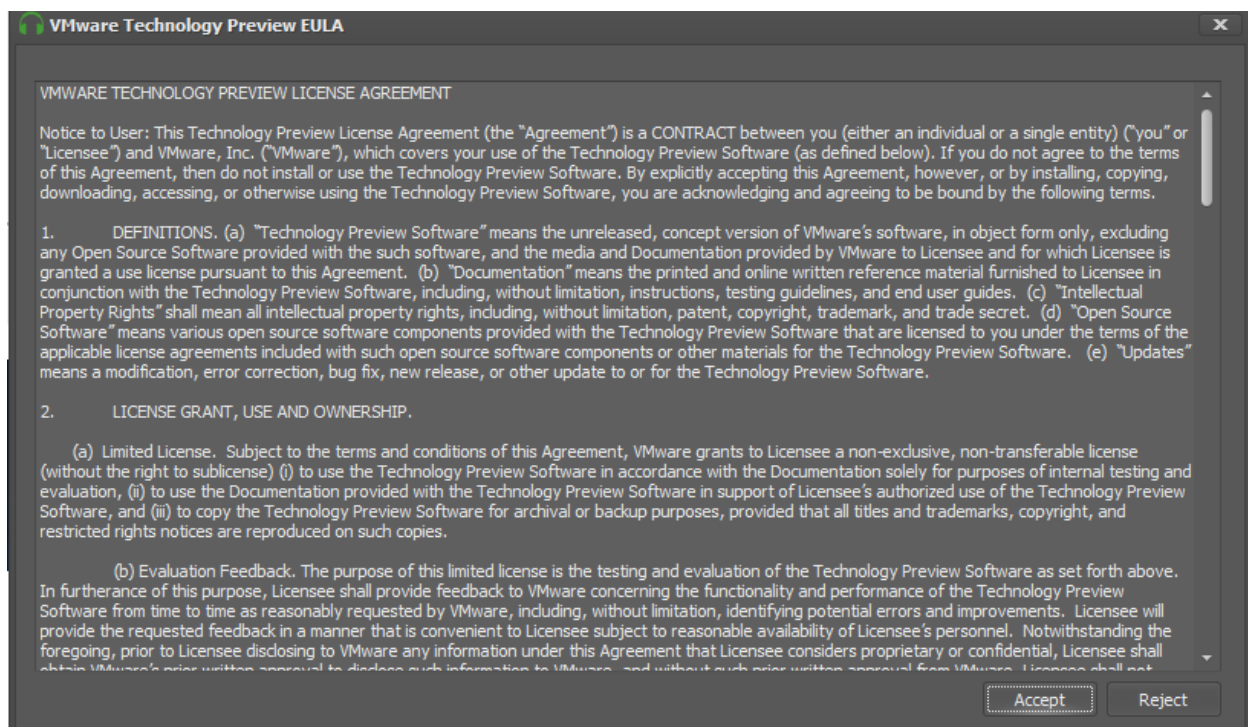
WESTERN (H:) > VMWare Horizon 8 2006 > Flings > HelpDesk Agent			
Name	Date modified	Type	Size
 VMware Horizon HelpDesk Agent 1.5.0 documentation.pdf	30-Aug-2020 11:26 AM	Adobe Acrobat D...	966 KB
 VMwareHorizonHelpDeskAgentMSI-1.5.0.21.msi ←	30-Aug-2020 11:23 AM	Windows Installer ...	61,838 KB



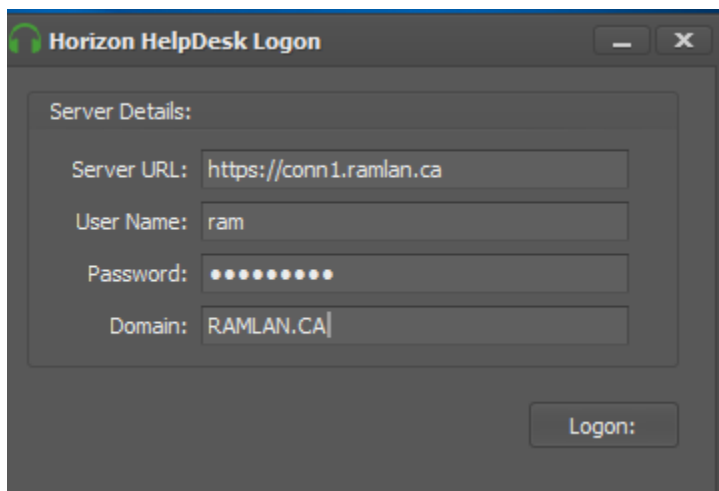


Click below icon from desktop shortcut

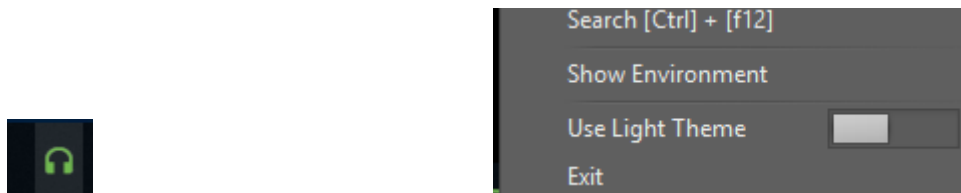




Enter server details



On the taskbar you will see below icon. Right click and open Show Environment



Horizon Environment Overview:

https://conn1.ramlan.ca

Connection Servers:

vCenter:

Hosts:

Datastores:

Name:	Status:	Version:	Connections:	Certificate Health:
CONN1	Ok	8.0.0 - 16592062	0	Valid
CONN2	Ok	8.0.0 - 16592062	0	Valid

User Search:

User Name:	Session State:	Session Duration:	Type:	Desktop Pool / Farm:	Protocol:	Machine Name:	Location:
------------	----------------	-------------------	-------	----------------------	-----------	---------------	-----------

Horizon Environment Overview:

https://conn1.ramlan.ca

Connection Servers:

vCenter:

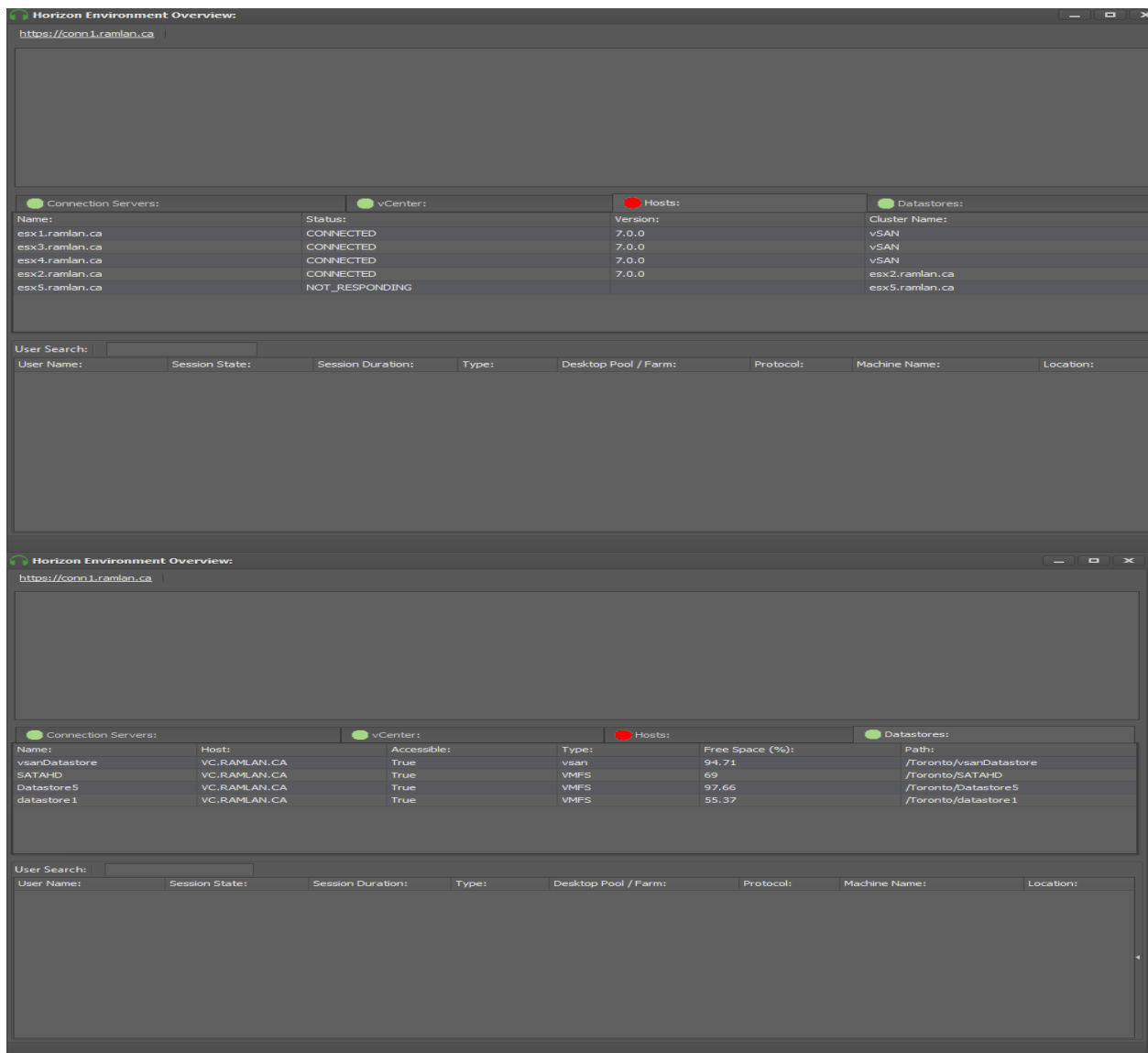
Hosts:

Datastores:

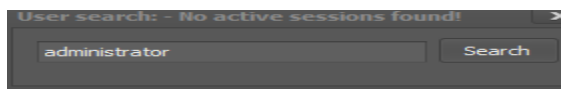
Name:	Status:	Version:	Connection:	Datastores:	Hosts:	Composer:
VC.RAMLAN.CA	Enabled	7.0.0-16749670	Healthy	Healthy	UnHealthy	

User Search:

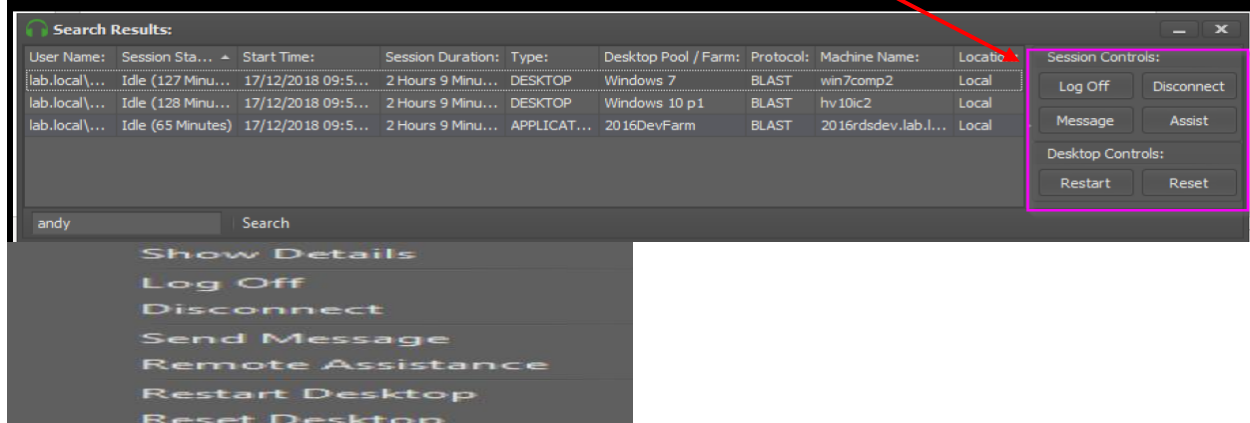
User Name:	Session State:	Session Duration:	Type:	Desktop Pool / Farm:	Protocol:	Machine Name:	Location:
------------	----------------	-------------------	-------	----------------------	-----------	---------------	-----------



When you press Ctrl + F12 you can search for a user who is currently using virtual desktop. You have many options to choose by selecting the user.



The results (if any) will be displayed in the results dialog:



Check product documentation for more details about this application. You can download the PDF from above link.

VMWARE RECORDING SERVER & AGENT

I have installed Recording Server on Domain Controller for testing. Check product doc for more info.

VMware Horizon Session Recording

Overview:

The VMware Horizon Session Recording solution contains is built with two items:

- The Recording Agent.
- The Recording Server.

The Agent is installed on all Horizon Machines from which you wish to record sessions. Once the Agent begins to record a user's session, it registers the session with the Server and begins to upload recording data.

The Server is installed on one (or more, for High Availability) machines to collect information about the session along with the raw recording data for storage and playback.

Recording Server:

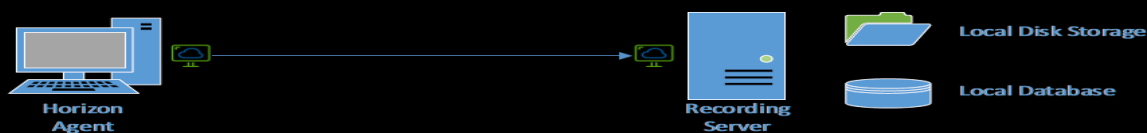
The Session Recording server component comprises of 3 items:

- A Database for session information storage along with configuration.
- A windows NTFS folder for recording storage.
- A web service for collecting recording data, along with administration and playback.

Deployment types.

Depending on your installation use case and requirements, there are two deployment models to consider.

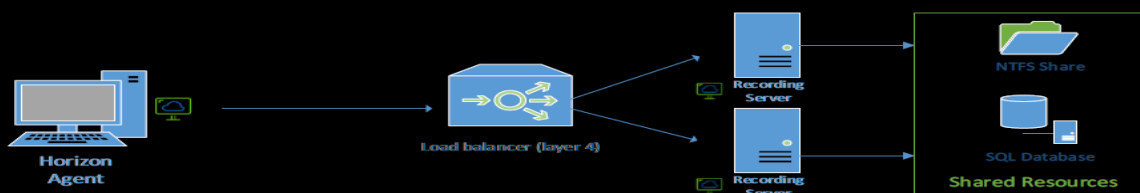
Stand Alone Deployment:



For a Proof of concept, or small setup which does not require redundancy, a single server is sufficient, leveraging a local SQLite database type and a local NTFS folder.

This database ships as standard and is stored in the installation directory, called "local.db".

Highly Available Deployment



For a larger, production deployment, you can load balance multiple recording servers behind a load balancer to service recording for your environment.

To deploy on more than one server, you can leverage the following database types:

- Microsoft SQL
- PostgreSQL

These databases can be leveraged on multiple servers in order to share configuration and session data. But it's vital that you also configure a shared NTFS Folder on all servers for storing recording data.

Pre-Requisites:

The Session Recording is built in .Net Core, so no framework is required.

Simply installed it onto a 64-bit (x64) desktop or server operating system which is a member of the domain if you wish to use group extraction.

Installing the Session Recording Server:

1. Download the HorizonSessionRecordingServer.exe file from the flings site and copy it to a local folder on the server.
2. Launch the installer and complete the steps.
3. Once complete, the server should now be available on <https://<localservername>:9443>

Recording Agent:

The Session Recording Agent is an x64, .Net Framework 4.6.1 Service that communicates with the blast process, starting and stopping recordings as required.

Prerequisites:

The Agent requires:

- Horizon 7.9 or newer.
- An x64 operating system.
- Microsoft .Net Framework 4.6.1 or newer.
- Windows 7 Service Pack 1 or Windows 10.

Installing the Session Recording Agent:

1. Download the HorizonSessionRecordingAgent.exe file from the flings site and copy it to a local folder on the server.
2. Launch the installer and complete the steps.
3. When prompted for the connection, be careful to include the correct URL.
4. If the SSL certificate is not trusted, ensure to add the thumbprint carefully.
5. Once complete, the server should now be available on <https://<localservername>:9443>

It is time to start the install.

WESTERN (H:) > VMWare Horizon 8 2006 > Flings > Horizon Session Recording				
Name	Date modified	Type	Size	
Horizon Session Recording Documentation.pdf	18-Jul-2020 1:07 AM	Adobe Acrobat D...	473 KB	
Horizon Session Recording Documentation.pdf	31-Aug-2020 9:42 ...	Adobe Acrobat D...	473 KB	
HorizonSessionRecordingAgent-2.1.10.exe	18-Jul-2020 1:07 AM	Application	6,165 KB	
HorizonSessionRecordingServer-2.1.1.exe	18-Jul-2020 1:07 AM	Application	56,542 KB	



VMware Horizon Session Recording Server

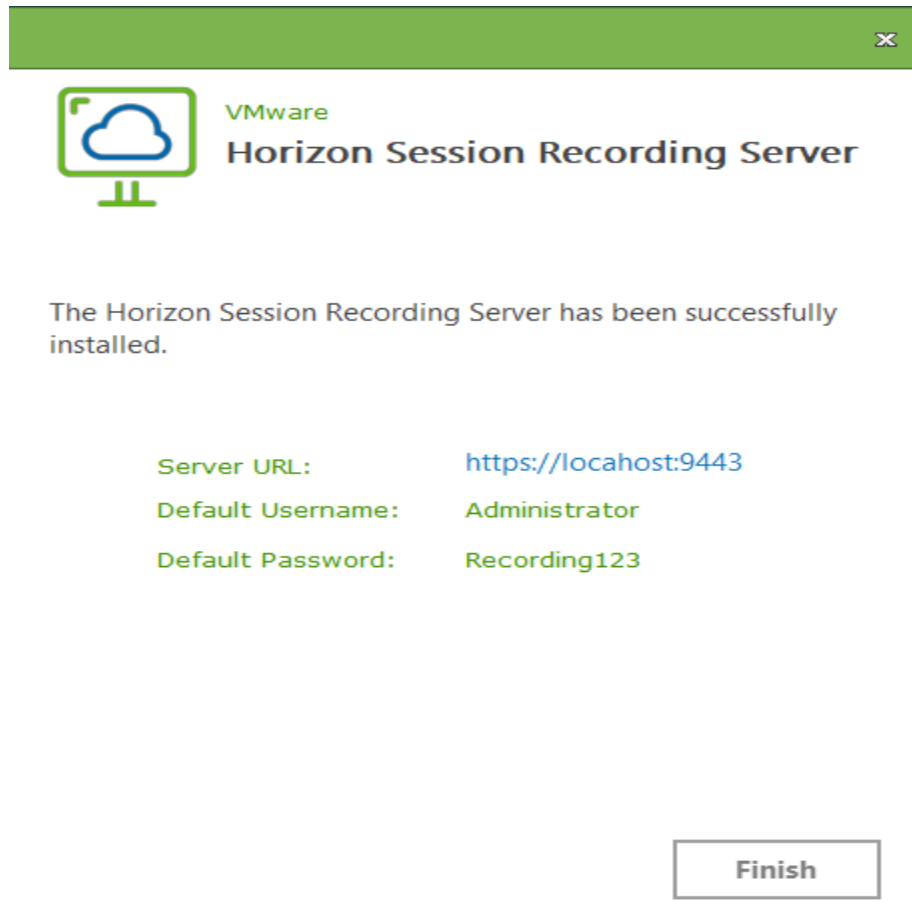
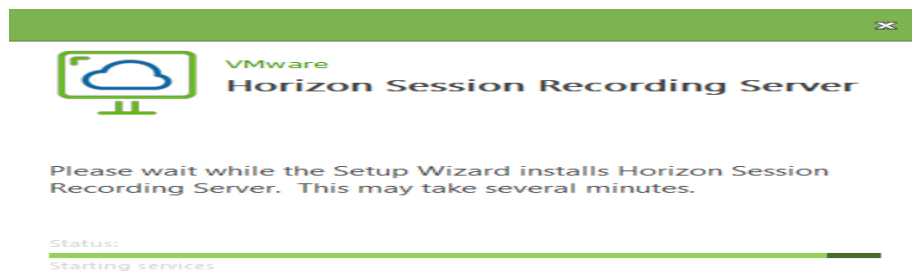
Setup requires 124 MB in:

C:\Program Files\VMware\Session Recording Server\

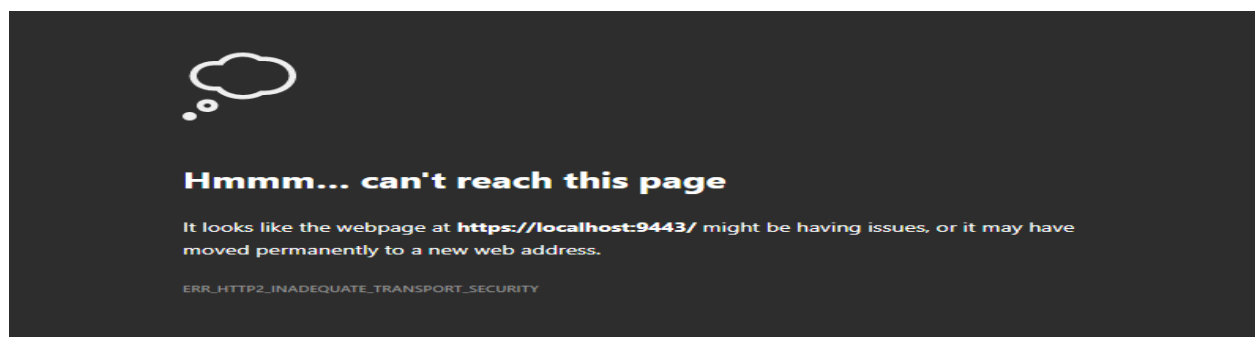
You must agree to the [Licenses terms and conditions](#) before you can install Horizon Session Recording Server.

☒ I agree to the License terms and conditions.

INSTALL



When, I tried to open the URL with chrome, I was getting below error. The fix is simple.



Close all chrome session. Click Run and type chrome.exe --disable-http2 and you are back in action. Login with default password, so we can change and set new password for administrator.

Horizon Session Recording | Dashboard | Recordings

Search recordings by user Administrator

Server Name: DC	Recording Location: C:\Program Files\VMware\Session Recording	Active Recordings: 0	Recordings Today: 0.00 Bytes
Database Type: SQLite	Server\Recordings Storage Accessible: true	Finished Recordings: 0	Total Recording data: 0.00 Bytes

Recent Recordings:

	Name:	Resource:	Location:	Start:	Duration:	Size:	State:
<input type="checkbox"/>							

Search recordings by user Administrator

Service Settings

Log Out

Change Password for user: Administrator

New Password:

1. At least 8 characters in length
2. Lowercase letters
3. Uppercase letters
4. Numbers
5. Special characters

Confirm Password:

CHANGE PASSWORD **CANCEL**

Success!

✓ Changed password for:
Administrator

Below are few settings available for configuration.

Authentication Settings:

Client Settings:

Recording Criteria:

Server Settings:

Local Users:

	User Name	Description	Administrator	Built In
<input checked="" type="radio"/>	Administrator	Local Administrator Account	true	true
<input type="radio"/>	Viewer	Local View Only Account	false	true

Items per page 10 1 - 2 of 2 Items

CHANGE PASSWORD

Authentication Settings:

Client Settings:

Recording Criteria:

Server Settings:

Client Settings:

Enable Notifications:

☒ Notify users when recording begins:

Notification Message:

Your session is being recorded in accordance with security policies.

Chunk Size:

5

The size of chunks uploaded to the server (in MB). (min 1, max 50).

Upload Interval:

5

The frequency a session will upload chunks (in minutes). (min 5, max 60).

Authentication Settings:

Client Settings:

Recording Criteria:

Server Settings:

Recording Criteria:

Session Types:

☐ Record Local Sessions

☒ Record Remote Sessions (Through UAG or Security Server)

Groups to Record:

Group Name	SID
<div></div>	

Items per page 10 1 - 10 of 0

Authentication Settings:

Client Settings:

Recording Criteria:

Server Settings:

Local Server Settings:

Database Connection Type: SQLite
This value can only be updated during a deployment modification.

Database Connection String:
This value can only be updated during a deployment modification.

Cluster Settings:

Recording Storage Folder: C:\Program Files\VMware\Session Recording Server\Recordings
This value can only be updated during a deployment modification.

Conversion Chunk Size: 10
The size of chunks to be converted during conversion (Do not change this value unless instructed to do so). (min 1, max 50)

Conversion wait time: 10
The delay before conversion (Do not change this value unless instructed to do so). (min 1, max 30)

Raw Files: ☒ Delete Raw Files

Retention Settings: 14
The Maximum duration a recording will be retained on the server (in days). (min 1, max 365)

EDIT DEPLOYMENT

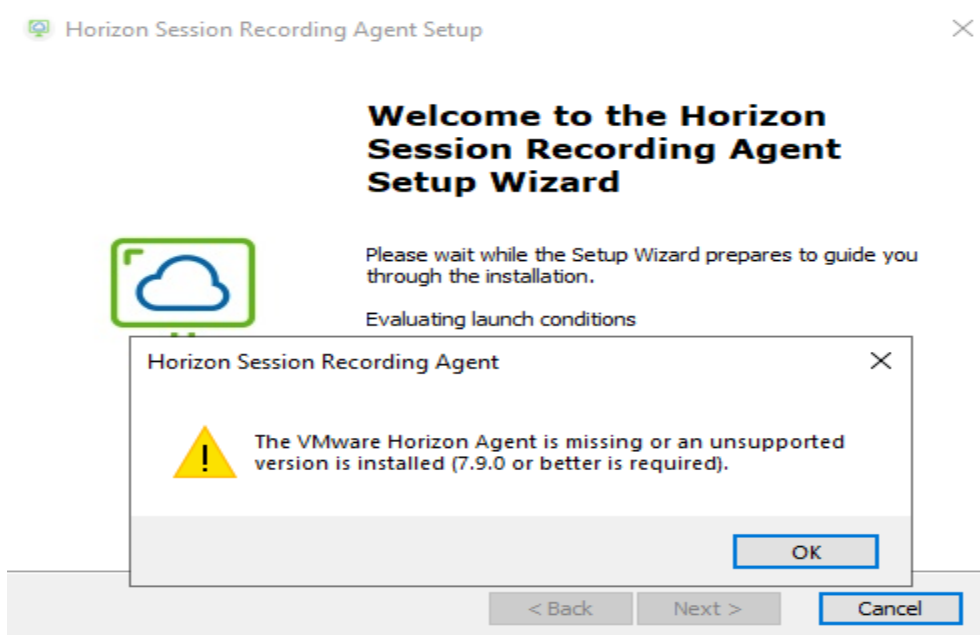
SAVE

Now we have a working recording server for recording remote session when required. Let's proceed with recording agent install.

WESTERN (H:) > VMWare Horizon 8 2006 > Flings > Horizon Session Recording

Name	Date modified	Type	Size
Horizon Session Recording Documentation.pdf	18-Jul-2020 1:07 AM	Adobe Acrobat D...	473 KB
Horizon Session Recording Documentation.pdf	31-Aug-2020 9:42 ...	Adobe Acrobat D...	473 KB
HorizonSessionRecordingAgent-2.1.10.exe	18-Jul-2020 1:07 AM	Application	6.165 KB
HorizonSessionRecordingServer-2.1.1.exe	18-Jul-2020 1:07 AM	Application	56.542 KB

In order to install Horizon Session Recording Agent, we should be running VMWare Horizon Agent, if not you will get this error.



End-User License Agreement

Please read the following license agreement carefully

**VMWARE TECHNOLOGY PREVIEW LICENSE AGREEMENT**

Notice to User: This Technology Preview License Agreement (the "Agreement") is a CONTRACT between you (either an individual or a single entity) ("you" or "Licensee") and VMware, Inc. ("VMware"), which covers your use of the Technology Preview Software (as defined below). If you do not agree to the terms of this Agreement, then do not install or use the Technology Preview Software. By

☒ I accept the terms in the License Agreement☐ I do not accept the terms in the License Agreement

Advanced Installer

< Back

Next >

Cancel

Select Installation Folder

This is the folder where Horizon Session Recording Agent will be installed.



To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".

Folder:

Browse...

< Back

Next >

Cancel

Server Details:

Please enter the Session Recording Server details and SSL Thumbprint

**Server Details**Server Address: Certificate Thumbprint:

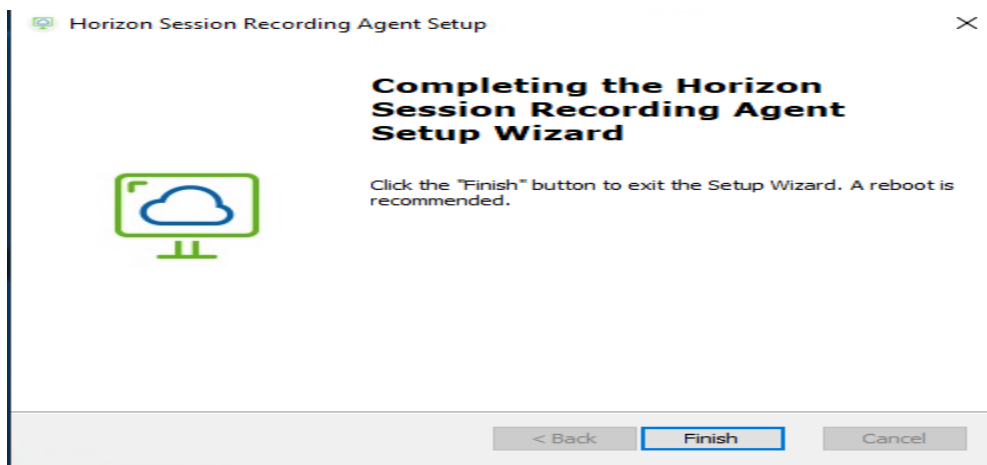
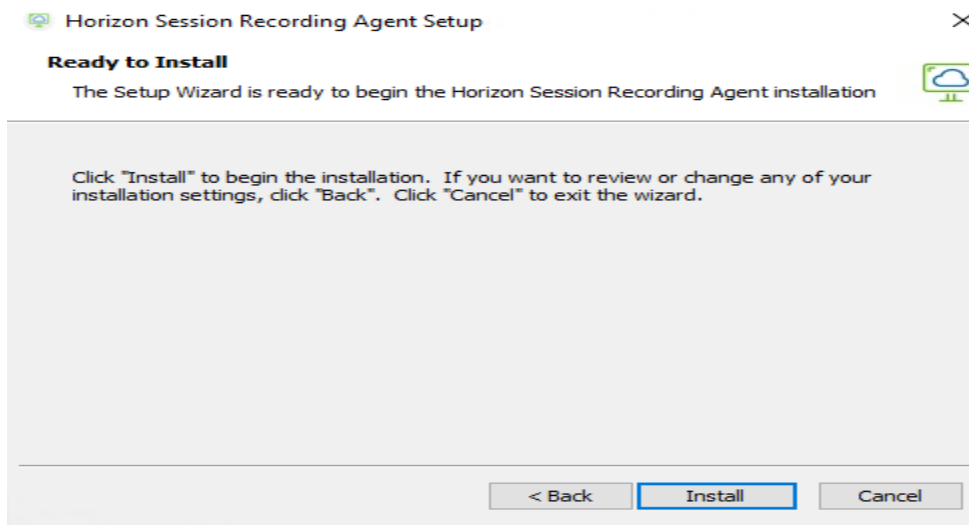
Note: If the SSL Certificate presented by the server is untrusted to the local machine. The Session Recording Agent will fail to upload recordings or pull configuration from the server. If the certificate is untrusted but you wish to force a connection, please enter the certificate thumbprint in the above dialog.

This thumbprint can be entered manually here:
HKEY_LOCAL_MACHINE\Software\VMware, Inc.\VMware Blast\SessionRecordingAgent
> TrustedThumbprints

< Back

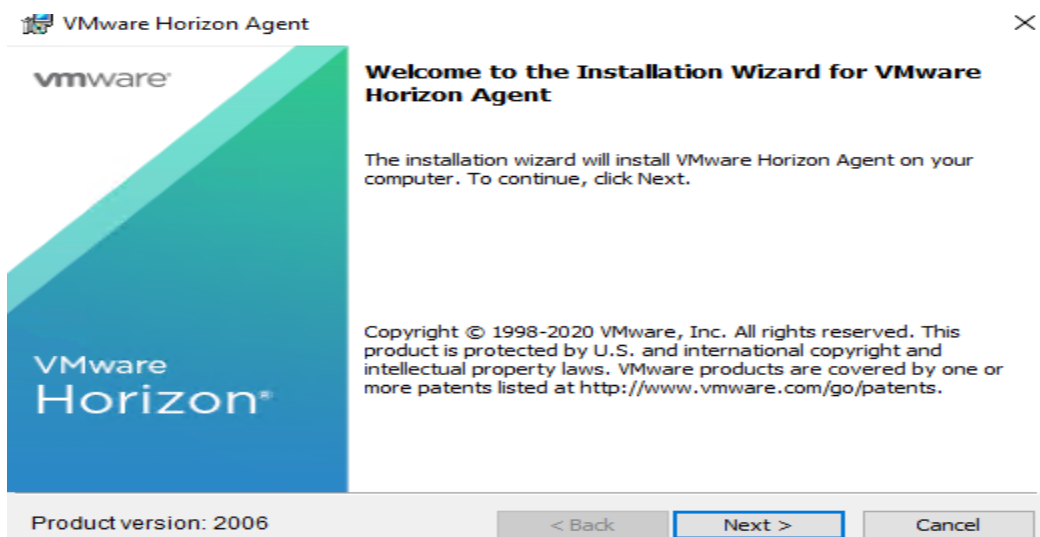
Next >

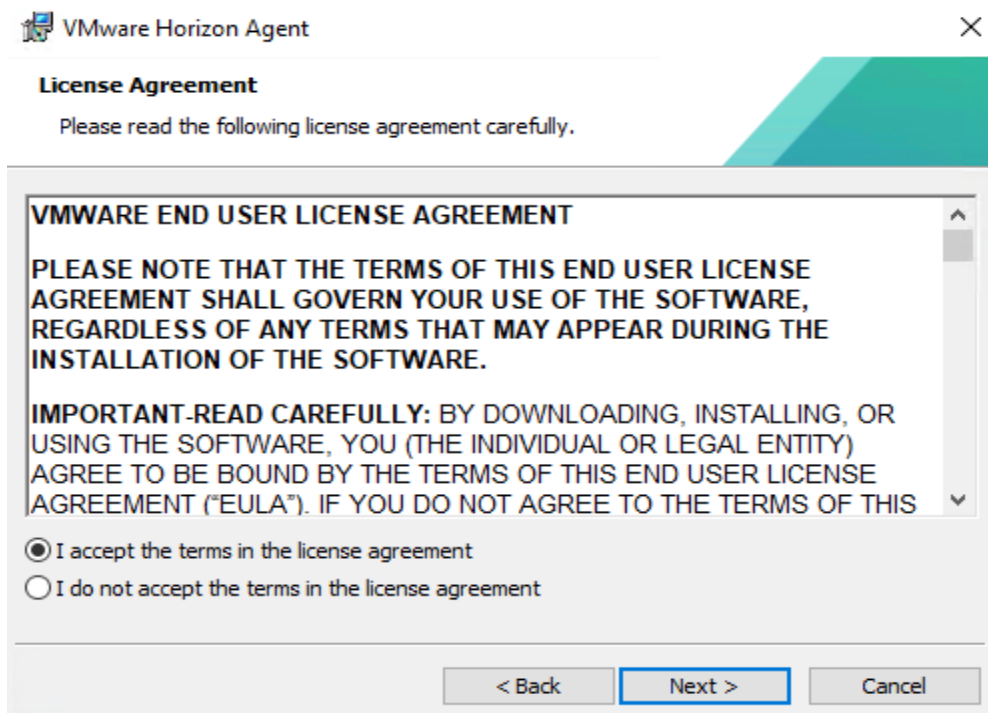
Cancel



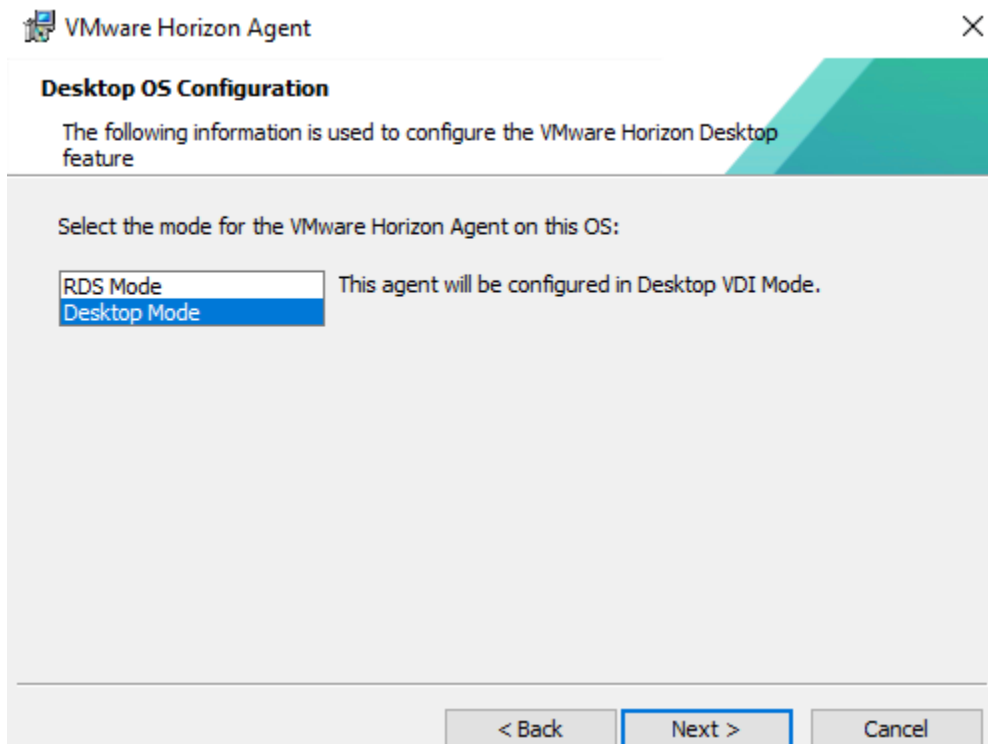
With this we have completed Recording Server and Agent install. This can be used later for recording remote session.

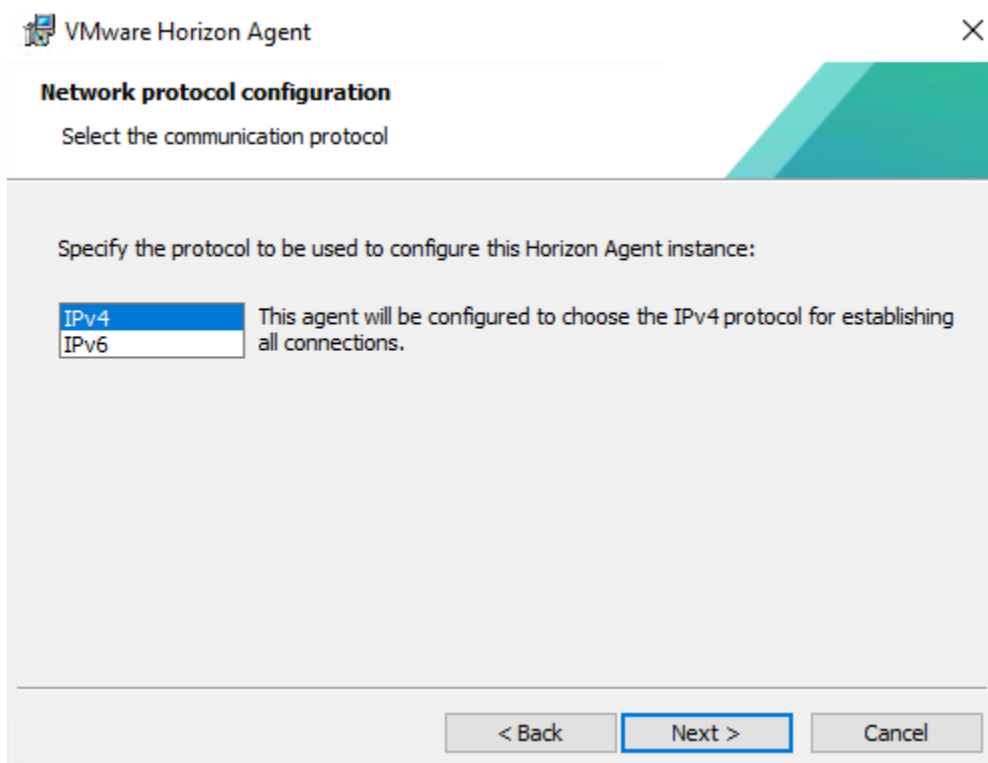
VMWare Horizon Agent 8 – You should install this on workstation running Win 10. I have created a VM on ESXi host.



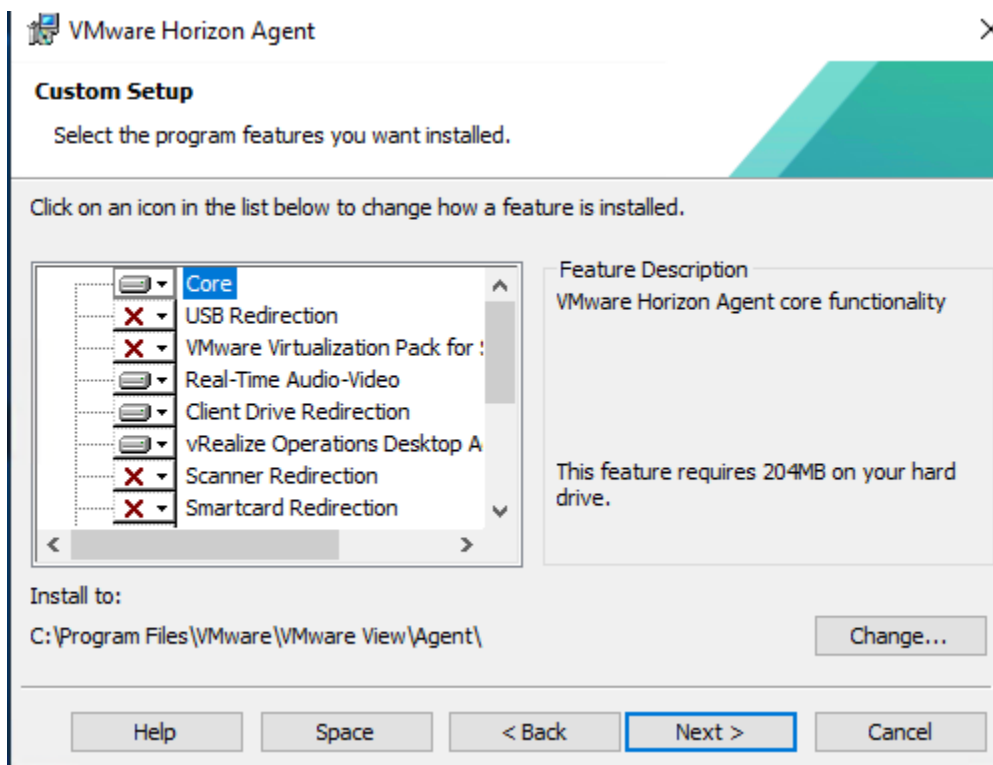


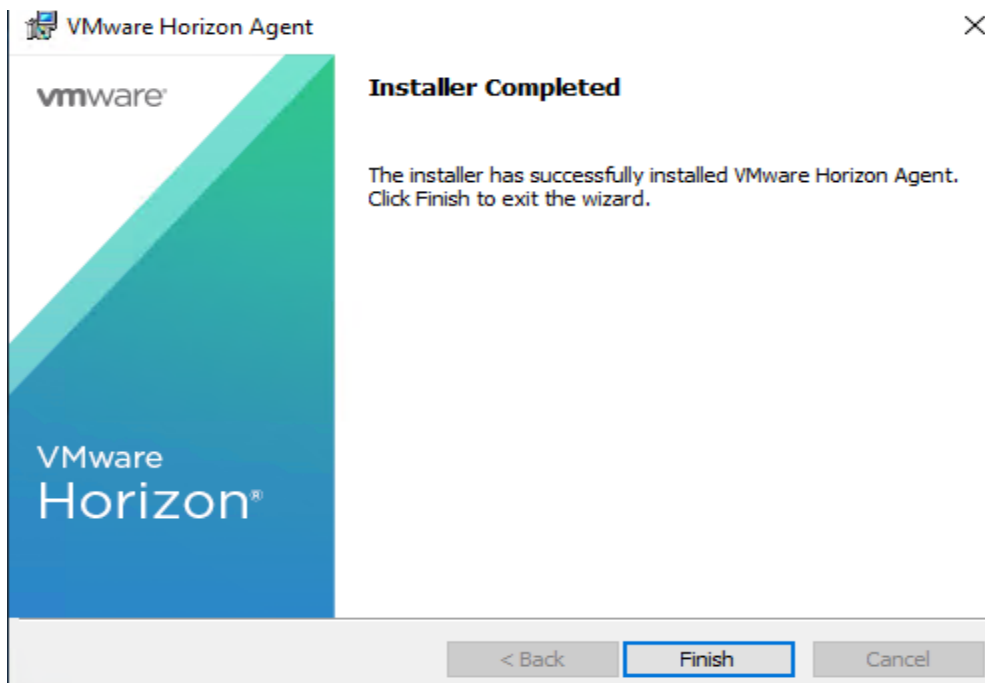
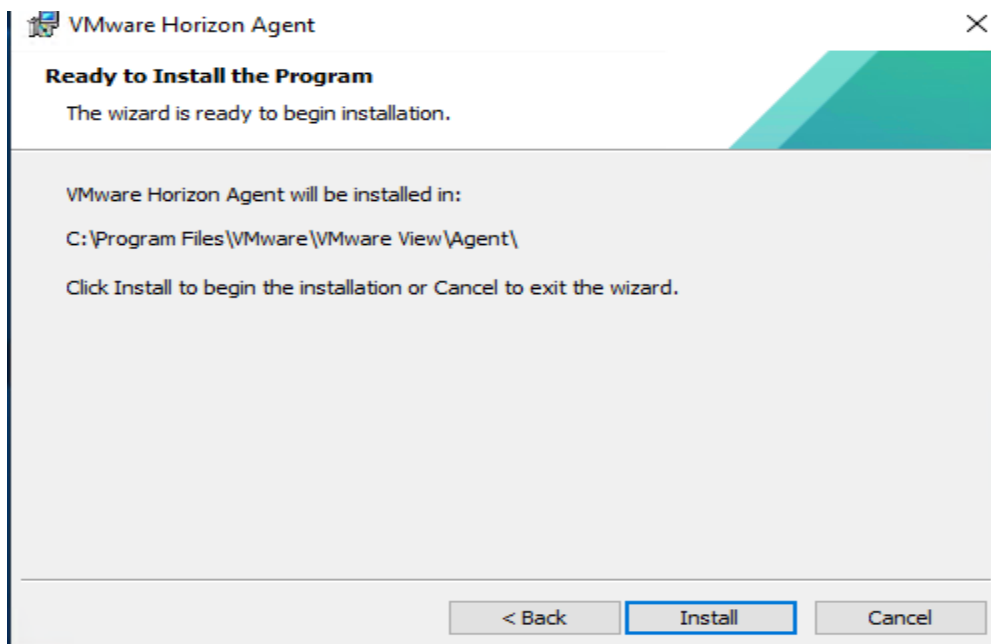
Here you have to option to select RDS or Desktop mode. All depends on what kind of infrastructure you have within your organization.





Here enable what is required according to your organization requirement.





VMWARE HORIZON CLIENT:

You can install Horizon Client on the workstation but it is not a required install. I am just going to install to complete all the application that can be used later when required.

Name	Date modified	Type	Size
Flings	01-Sep-2020 10:41 AM	File folder	
Others	21-Aug-2020 9:52 AM	File folder	
Pictures	21-Aug-2020 9:43 AM	File folder	
Videos	03-Sep-2020 12:40 PM	File folder	
01 VMware-Horizon-Connection-Server-x86 64-8.0.0-16592062.exe	18-Aug-2020 1:29 PM	Application	310,518 KB
02 VMware-viewcomposer-8.0.0-16455152.exe	18-Aug-2020 1:33 PM	Application	47,035 KB
03 VMware-Horizon-Agent-x86 64-8.0.0-16530789.exe	18-Aug-2020 1:32 PM	Application	235,019 KB
04 VMware-Horizon-Agent-Direct-Connection-x86 64-8.0.0-16530789.exe	18-Aug-2020 1:32 PM	Application	34,647 KB
05 VMware-Horizon-Client-2006-8.0.0-16531419.exe	28-Aug-2020 9:46 AM	Application	227,774 KB



VMware Horizon®

Version 2006

You must agree to the [Privacy Agreement](#) and [License Terms](#) before you can install the product

Agree & Install

[Customize Installation](#)

Success!



Finish

Now we have completed all the required install. In Part 4, I will cover Instant and Standard Clone deployment.

Thanks

Ram Lan

7th Sep 2020