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.



📥 Add Roles and Features Wizard П \times DESTINATION SERVER Select installation type No servers are selected Select the installation type. You can install roles and features on a running physical computer or virtual Before You Begin machine, or on an offline virtual hard disk (VHD). Installation Type O Role-based or feature-based installation Deployment Type 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 Х DESTINATION SERVER Before you begin RDS.RAMLAN.CA This wizard helps you install roles, role services, or features. You determine which roles, role services, or Before You Begin features to install based on the computing needs of your organization, such as sharing documents, or Installation Type hosting a website. Server Selection 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.

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Select deployment type

DESTINATION SERVER No servers are selected

Before You Begin Installation Type	Remote Desktop Services can be configured across multiple servers or on one server.
Deployment Type Deployment Scenario Role Services RD Connection Broker RD Web Access RD Virtualization Host Confirmation Completion	 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.
📥 Add Roles and Features Wizard	< Previous Next > Deploy Cancel — □ ×
Select deploymen	DESTINATION SERVER t scenario Standard deployment selected
Before You Begin	Remote Desktop Services can be configured to allow users to connect to virtual desktops, RemoteApp programs, and session-based desktops.
Deployment Type	○ Virtual machine-based desktop deployment
Deployment Scenario Role Services	Virtual machine-based desktop deployment allows users to connect to virtual desktop collections that include published RemoteApp programs and virtual desktops.
RD Connection Broker	Session-based desktop deployment Session - based desktop deployment
RD Web Access	published RemoteApp programs and session-based desktops.
Confirmation	
Completion	
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Confirmation



Review role serv	ices	DESTINATION SERVER Standard deployment selected
Before You Begin	The fo deploy	llowing Remote Desktop Services role services will be installed and configured for this ment.
Deployment Type Deployment Scenario	Q	Remote Desktop Connection Broker Remote Desktop Connection Broker connects or reconnects a client device to RemoteApp programs, session-based desktops, and virtual desktops.
Role Services RD Connection Broker RD Web Access	٢	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.
RD Session Host	E	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.

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📩 Add Roles and Features Wizard			-		×

Specify RD Connection Broker server

DESTINATION SERVER Standard deployment selected

Before You Begin	Select the servers from th	e server pool on whi	ich to install th	ne RD	Connection Broker role service.
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RD Connection Broker	Name	IP Address	Operating		RDS
RD Web Access	RDS.RAMLAN.CA	192.168.0.135			
RD Session Host					
Confirmation				►	
Completion					
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Specify RD Web Access server

DESTINATION SERVER Standard deployment selected

Before You Begin	Select a server from the server pool on which to install the RD Web Access role service.					
Installation Type	Install the RD Web Access role service on the RD Connection Broker server					
Deployment Type						
Deployment Scenario	Server Pool			Se	elected	
Role Services				(Computer	
RD Connection Broker	Filter:				A RAMIANICA (1)	
RD Web Access	Name	IP Address	Operating	F	RDS	
RD Session Host	RDS.RAMLAN.CA	192.168.0.135				
Confirmation						
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		< Pre	vious Ne	ext >	Deploy	Cancel
📥 Add Roles and Features Wizard					_	

Specify RD Session Host servers

Before You Begin

Installation Type

DESTINATION SERVER Standard deployment selected

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.

Deployment Type Deployment Scenario Role Services	Server Pool			Selected
RD Web Access	Name	IP Address	Operating	RDS
RD Session Host	RDS.RAMLAN.CA	192.168.0.135		
Confirmation Completion				
	1 Computer(s) found		1	1 Computer(s) selected
		< Pre	vious Nex	t > Deploy Cancel

Confirm selections

DESTINATION SERVER Standard deployment selected

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Installation Type	To complete the installation, you must on the remote computers, the local con	restart the RD Session Host nputer will be restarted.	servers. A	After installatio	n is complete
Deployment Type Deployment Scenario	RD Connection Broker (1 server	selected)			
Role Services	RD Web Access (1 server selecte	d)			
RD Web Access	RDS.RAMLAN.CA RD Session Host (1 server select	ed)			
RD Session Host Confirmation Completion	▲ The following servers may res	art after the role service is i	nstalled.		
	Restart the destination server autor	natically if required			
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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 > F	lings → HelpDesk Ag	ent		
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starting. Running this app mig	ht put your PC	at risk.		
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Publisher: Unknown publisher				
	R	un anyway	Don't run	
🚼 Horizon HelpDesk Agent		_		
Select Installation Folder				
The installer will install Horizon HelpDesk A	gent to the following	g folder.		
To install in this folder, click "Next". To ins	tall to a different fold	ler, enter it below or cli	ck "Browse".	
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📅 Horizon HelpDesk Agent		-	□ ×
Confirm Installation			
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Horizon HelpDesk Agent has been succe Click "Close" to exit.	essfully installed.		
	< Back	Close	Cancel

Click below icon from desktop shortcut



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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

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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 <a href="https://<localservername>:9443">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 :9443">https://clocalservername>:9443

It is time to start the install.

> WE	STERN (H:) → VMWare Horizon 8 2006 → Flings → Horizon Session Recording				
^	Name ^	Date modified	Туре	Size	
	Horizon Session Recording Documentation.pdf	<u>18-Jul-2020 1:07 AM</u>	Adobe Acrobat D	<u>473 KB</u>	
	Horizon Session Recording Documentation.pdf	<u>31-Aug-2020 9:42</u>	Adobe Acrobat D	<u>473 KB</u>	
	HorizonSessionRecordingAgent-2.1.10.exe	<u>18-Jul-2020 1:07 AM</u>	Application	<u>6,165 KB</u>	
	MorizonSessionRecordingServer-2.1.1.exe	<u>18-Jul-2020 1:07 AM</u>	Application	<u>56,542 KB</u>	
		:	**		
	Horizon Session Recording	J Server			
: [Setup requires 124 MB in: C:\Program Files\VMware\Session Recording Server\				
2	You must agree to the Licenses terms and conditio you can install Horizon Session Recording Server.	ns before			
ſ	✓ I agree to the License terms and conditions.				





Please wait while the Setup Wizard installs Horizon Session Recording Server. This may take several minutes.

Starti	ng	servi	ces

3	×				
WMware Horizon Session Recording Server					
The Horizon Session Recording Server has been successfully installed.					
Server URL: https://locahost:9443					
Default Username: Administrator					
Default Password: Recording123					
Finish					

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.

Morizon Session Recording × +					- 01 X
← → C ▲ Not secure dc:9443					☆ 😫 i
Horizon Session Recording	Dashboard Recordings			Q Search recordings	s by user Administrator ~
Server Name: DC Database Type: SQLite	Recording Location: C\Program File\VM Server\Recordings Storage Accessible: true	ware\Session Recording	Active Recordings: 0 Finished Recordings: 0	Recordings Today: 0.00 Bytes Total Recording data: 0.00 Bytes	
Recent Recordings:					C
Name:	T Resource:	T Location:	T Start: T Dur	ration: T Size: T	State: T
Q Search reco	rdings by user	Admini	istrator ~		
		Service S	Settings		
		Log Out			

Change Password for user: Administrator



Below are few settings available for configuration.

chefte bettings.	User Name	Description	Administrator	Built In
Recording Criteria:	Administrator	Local Administrator Account	true	true
Server Settings:	◯ Viewer	Local View Only Account	false	true
			ltems per page	10 → 1-2 of 2 Item
	CHANGE PASSWORD			
Authentication Settings: Client Settings:	Client Settings:			
Recording Criteria:	Enable Notifications:	Notify users when re	cording begins:	
Server Settings:	Notification Message:	Your session is being reco	orded in accordance with	security policies.
	Chunk Size:	5 The size of chunks uploaded to t	he server (in MB). (min 1, max	: 50).
	Upload Interval:	5 The frequency a session will uplo	ad chunks (in minutes). (min	5, max 60).
Authentication Settings: Client Settings:	Recording Criteria:	Record Local Session	s	
Server Settings:	Groups to Record:	Record Remote Sessi	ons (Through UAG or Se	curity Server)
	Group Name		SID	

Authentication Settings:	La sal Camuan Cattin sa	
Client Settings:	Local Server Settings:	
Recording Criteria:	Database Connection Type:	SOLite
Recording enteria.		This value can only be updated during a deployment modification.
Server Settings:		
	Database Connection String:	
		This value can only be updated during a deployment modification.
	o	
	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 may 50)
		The size of chains to be contented during contension (bo not ensingle this value directs instructed to do so). (min 1, max bo)
	Conversion wait time:	10
		The delay before conversion (Do not change this value unless instructed to do so). (min 1, max 30)
	Raw Files:	O Delete Raw Files
	Retention Settings:	14
		The Maximum duration a recording will be retained on the server (in days). (min 1, max 365).
	EDIT DEPLOTMENT	
_		
SAVE		

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

WE	WESTERN (H:) > VMWare Horizon 8 2006 > Flings > Horizon Session Recording					
<u>^</u>	Name	Date modified	Туре	Size		
	Horizon Session Recording Documentation.pdf	<u>18-Jul-2020 1:07 AM</u>	Adobe Acrobat D	<u>473 KB</u>		
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	HorizonSessionRecordingAgent-2.1.10.exe	<u>18-Jul-2020 1:07 AM</u>	Application	<u>6,165 KB</u>		
	HorizonSessionRecordingServer-2.1.1.exe	<u>18-Jul-2020 1:07 AM</u>	Application	<u>56,542 KB</u>		

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

Horizon Session	rizon Session Recording Agent Setup				
	Welcome to the Horizon Session Recording Agen Setup Wizard	t			
٢	Please wait while the Setup Wizard prepares to through the installation.	guide you			
	Evaluating launch conditions				
Horizon	Session Recording Agent	×			
	The VMware Horizon Agent is missing or an unsupport version is installed (7.9.0 or better is required).	ed			
	ОК				
	< Back Next >	Cancel			

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< Back Next > Car	Cancel
A United Section Recording Acoust Setur	
Profizon Session Recording Agent Setup	~
Server Details:	×
Please enter the Session Recording Server details and SSL Thumbprint	×
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Server Details	×
	×
Server Address: https://dc.ramlan.ca:9443	×
Server Address: https://dc.ramlan.ca:9443	×
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Server Address: https://dc.ramlan.ca:9443 Certificate Thumbprint:	×
Server Address: https://dc.ramlan.ca:9443 Certificate Thumbprint:	×
Server Address: https://dc.ramlan.ca:9443 Certificate Thumbprint:	×

Horizon Session Recording Agent Setup	\times
Ready to Install	
The Setup Wizard is ready to begin the Horizon Session Recording Agent installation	
	_
Click "Install" to begin the installation. If you want to review or change any of your installation settings, click "Back". Click "Cancel" to exit the wizard.	
< Back Install Cancel	
P Horizon Session Recording Agent Setup	\times
Completing the Uprison	
Session Recording Agent	
Setup Wizard	
Click the "Einish" butten to exit the Setup Wighted A reheat	. ie
recommended.	15
< Back Finish Cancel	

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

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

🔀 03 VMware-Horizon-Agent-x86 64-	8.0.0-16530789.exe	<u>18-Aug-2020 1:32 PM</u>	<u>Application</u>	<u>235,019 KB</u>
🕼 VMware Horizon Agent			\times	
vm ware [,]	Welcome to the Insta Horizon Agent	allation Wizard for VM	ware	
	The installation wizard will ins computer. To continue, click	stall VMware Horizon Agent or Next.	ı your	
v _{Mware} Horizon [∗]	Copyright © 1998-2020 VMv product is protected by U.S. intellectual property laws. VM more patents listed at http:/	vare, Inc. All rights reserved. and international copyright a 4ware products are covered l /www.vmware.com/go/paten	This nd by one or ts.	
Product version: 2006	< Back	Next >	Cancel	

ៅ VMware Horizon Agent			×
License Agreement Please read the following license agree	ment carefully.		
VMWARE END USER LICENSE A	GREEMENT		^
PLEASE NOTE THAT THE TERM AGREEMENT SHALL GOVERN Y REGARDLESS OF ANY TERMS T INSTALLATION OF THE SOFTW	S OF THIS END OUR USE OF TH THAT MAY APPH ARE.	USER LICENSE HE SOFTWARE EAR DURING TH	ie IE
IMPORTANT-READ CAREFULLY: USING THE SOFTWARE, YOU (T AGREE TO BE BOUND BY THE T AGREEMENT ("EULA"). IF YOU D	BY DOWNLOA HE INDIVIDUAL ERMS OF THIS O NOT AGREE	DING, INSTALLI OR LEGAL ENT END USER LIC TO THE TERMS	NG, OR ITY) ENSE GF THIS
• I accept the terms in the license agreer	ment		
○ I do not accept the terms in the license	agreement		
	< Back	Next >	Cancel

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

🖟 VMware Horizon Agent		×
Desktop 05 Configuration		
The following information is used to conf feature	igure the VMware Horizon D	Desktop
Select the mode for the VMware Horizon	Agent on this OS:	
RDS Mode This agent	will be configured in Desktop	o VDI Mode.
Desktop Mode		
	< Back Nex	t > Cancel

🖟 VMware Horizon Agent			×
Network protocol configuration Select the communication protocol			
Specify the protocol to be used to confi	gure this Horizon	Agent instance:	
IPv4 This agent will be c IPv6 all connections.	onfigured to choo	se the IPv4 protocol	for establishing
	< Back	Next >	Cancel

Here enable what is required according to your organization requirement.

🕼 VMware Horizon Agent	×
Custom Setup Select the program features you want install	led.
Click on an icon in the list below to change how	a feature is installed.
USB Redirection	Feature Description VMware Horizon Agent core functionality
Real-Time Audio-Video Client Drive Redirection VRealize Operations Desktop A Scanner Redirection X Smartcard Redirection	This feature requires 204MB on your hard drive.
< >> Install to:	
C:\Program Files\VMware\VMware View\Agent\	Change
Help Space	< Back Next > Cancel

🔀 VMware Horizon Agent		×
Ready to Install the Progr	am	
The wizard is ready to begin	installation.	
VMware Horizon Agent will b C:\Program Files\VMware\VM Click Install to begin the insta	e installed in: Iware View \Agent \ allation or Cancel to exit the wizard.	
還 VMware Horizon Agent	< Back Install	Cancel
vm ware [,]	Installer Completed	
	The installer has successfully installed VMware He Click Finish to exit the wizard.	orizon Agent.
vMware Horizon®		
	< Back Finish	Cancel

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	Туре	Size
Flings	<u>01-Sep-2020 10:41 AM</u>	<u>File folder</u>	
Others	<u>21-Aug-2020 9:52 AM</u>	<u>File folder</u>	
Pictures	<u>21-Aug-2020 9:43 AM</u>	<u>File folder</u>	
Videos	<u>03-Sep-2020 12:40 PM</u>	<u>File folder</u>	
🚺 01 VMware-Horizon-Connection-Server-x86 64-8.0.0-16592062.exe	<u>18-Aug-2020 1:29 PM</u>	Application	<u>310,518 KB</u>
o 2 VMware-viewcomposer-8.0.0-16455152.exe	<u>18-Aug-2020 1:33 PM</u>	Application	<u>47,035 KB</u>
o <u>03 VMware-Horizon-Agent-x86 64-8.0.0-16530789.exe</u>	<u>18-Aug-2020 1:32 PM</u>	Application	<u>235,019 KB</u>
🔀 04 VMware-Horizon-Agent-Direct-Connection-x86 64-8.0.0-16530789.exe	<u>18-Aug-2020 1:32 PM</u>	Application	<u>34,647 KB</u>
S 05 VMware-Horizon-Client-2006-8.0.0-16531419.exe	28-Aug-2020 9:46 AM	Application	<u>227,774 KB</u>



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