

VMWARE HORIZON VIEW LAB CONFIGURATION – Version 8.4.2111

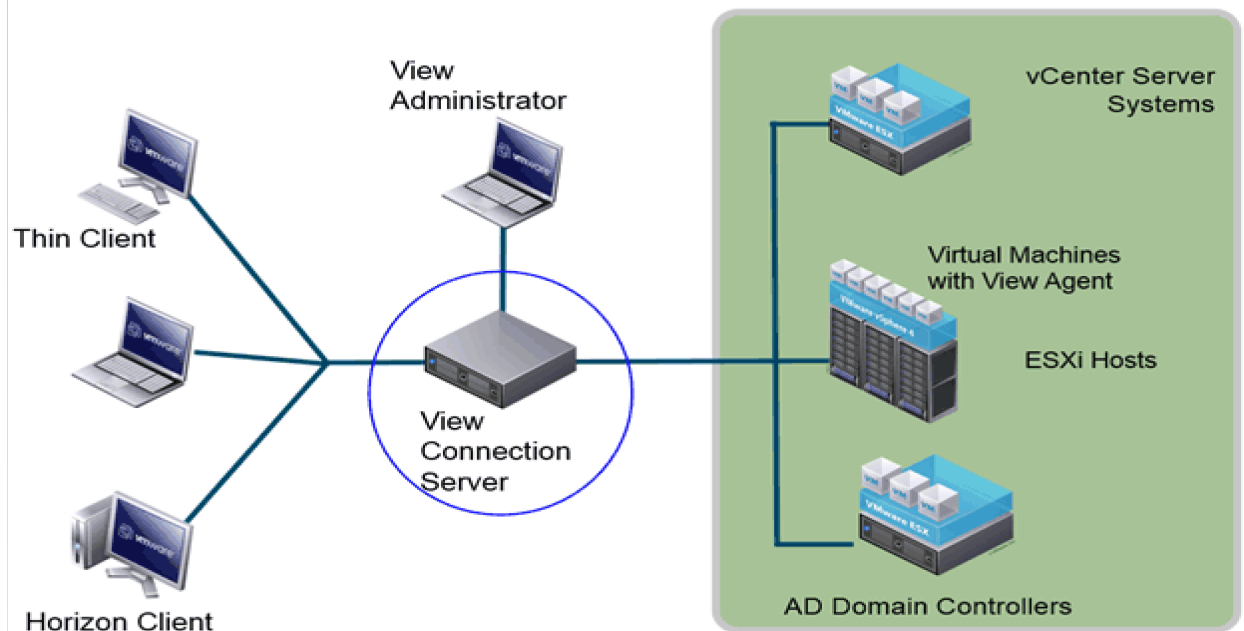
In this post, I am going to install and configure Horizon View Products. Will be covering the following:

1. Connection Server
2. Horizon Recording Server
3. Horizon Recording Agent
4. Horizon Agent
5. Horizon Client
6. Horizon Helpdesk Agent
7. Horizon OS Optimization Tool
8. Postgre SQL Database – [How to install PostgreSQL14 on Windows Server 2019 - INFOTECHRAM INC.](#)

My home lab will be:

1. Connection Server – VCS01.RAMLAN.CA
2. vCenter Servers – VCPD.RAMLAN.CA, VCDR.RAMLAN.CA
3. Remote Desktop Session Server – VRDS.RAMLAN.CA
4. Windows 10 Golden Image workstation for Desktop Pool & Instant Clone Pool
5. Windows 10 Workstaion for testing – WS-W10.RAMLAN.CA
6. Windows 11 Workstation for testing – WS-W11.RAMLAN.CA

Using Connection Server



This is my OU layout in ADUC

	Name	Type
▼ HORIZON	Horizon View	User
Instant Clone	HorizonAdmins	Security Group - Global
Linked Clone	HorizonUsers	Security Group - Global
> Non-Persistent Desktops	Instant Clone	Organizational Unit
Persistent Desktops	Linked Clone	Organizational Unit
Servers	Non-Persistent Desktops	Organizational Unit
View Templates	Persistent Desktops	Organizational Unit
ViewRDP	Servers	Organizational Unit
	View Templates	Organizational Unit
	ViewRDP	Organizational Unit

CONNECTION SERVER - Just completed creating a VM within vCenter. Installed all the updates and ready for Connection Server Install.

New Virtual Machine

✓ 1 Select a creation type
✓ 2 Select a name and folder
✓ 3 Select a compute resource
✓ 4 Select storage
✓ 5 Select compatibility
✓ 6 Select a guest OS
✓ 7 Customize hardware
8 Ready to complete

Ready to complete
Click Finish to start creation.

Virtual machine name	VCS01
Folder	AMERICA
Host	192.168.0.75
Datastore	GLOBAL [EMCDATASTORE] (Recommended) more recommendations
Guest OS name	Microsoft Windows Server 2022 (64-bit)
Virtualization Based Security	Disabled
CPUs	2
Memory	12 GB
NICs	1
NIC 1 network	Toronto-Mgmt (vDS-America)
NIC 1 type	VMXNET 3
SCSI controller 1	LSI Logic SAS

CANCEL BACK FINISH

VMware-Horizon-Connection-Server-x86_64-8.4.0-19067837 18-Jan-2022 4:34 AM Application 311,103 KB

VMware Horizon Connection Server

vmware

Welcome to the Installation Wizard for VMware Horizon Connection Server

The installation wizard will install VMware Horizon Connection Server on your computer. To continue, click Next.

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Product version: 2111

< Back Next > Cancel

Destination Folder

Click Next to install to this folder, or click Change to install to a different folder.



Install VMware Horizon Connection Server to:

C:\Program Files\VMware\VMware View\Server\

Change...

< Back

Next >

Cancel

Installation Options

Select the type of Horizon Connection Server instance you want to install.

Select the type of Horizon Connection Server instance you want to install.

Horizon Standard Server
Horizon Replica Server
Horizon Enrollment Server

☒ Install HTML Access

Perform a standard full install. This is used to install a standalone instance of Horizon Connection Server or the first instance of a group of servers.

Specify what IP protocol version shall be used to configure this Horizon Connection Server instance:

IPv4
IPv6

This server will be configured to choose the IPv4 protocol for establishing all connections.

< Back

Next >

Cancel

Firewall Configuration

Automatically configure the Windows Firewall to allow incoming TCP protocol connections.

In order for Horizon 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

< Back

Next >

Cancel

VMware Horizon Connection Server

✕

Initial Horizon Administrators

Specify the domain user or group for initial Horizon administration.

To login to Horizon 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 administrative rights.

The list of authorized administrator users and groups can be changed later in Horizon Administrator.

☐ Authorize the local Administrators group

☒ Authorize a specific domain user or domain group

(domainname\username, domainname\groupname or UPN format)

< Back

Next >

Cancel

VMware Horizon Connection Server

✕

Operational Data Collection

Please read the following carefully.

VMware may monitor and collect configuration, performance, usage, and consumption data relating to Customer's and its Users' use of the Software to facilitate the delivery and operation of the products and services (collectively, "Operational Data") as described in the VMware Privacy Notice <https://www.vmware.com/help/privacy.html>

< Back

Next >

Cancel

VMware Horizon Connection Server

✕

Ready to Install the Program

The wizard is ready to begin installation.

VMware Horizon Connection Server will be installed in:

C:\Program Files\VMware\VMware View\Server\

Please select where you will deploy the Horizon connection server. Select General if none of the other types apply. Note that you cannot change the deployment location of the connection server after the installation is completed.

General

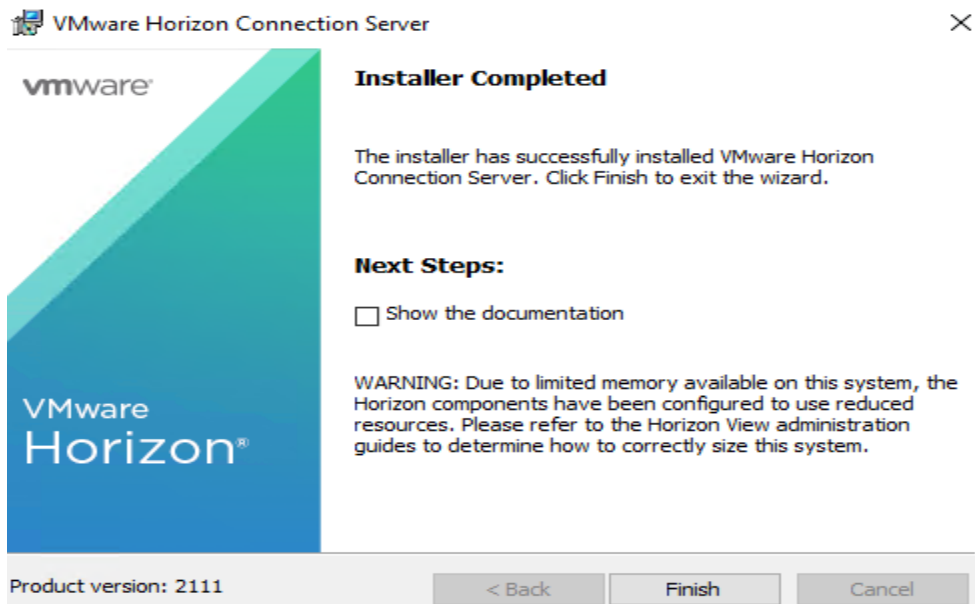
▼

Click Install to begin the installation or Cancel to exit the wizard.

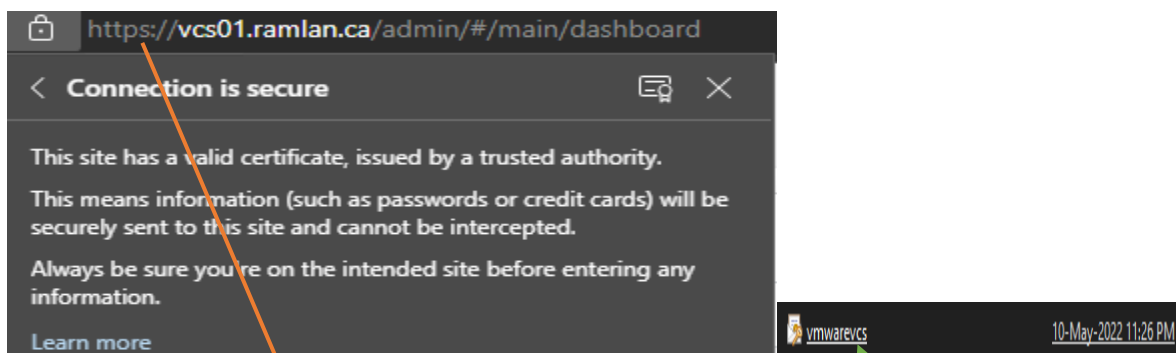
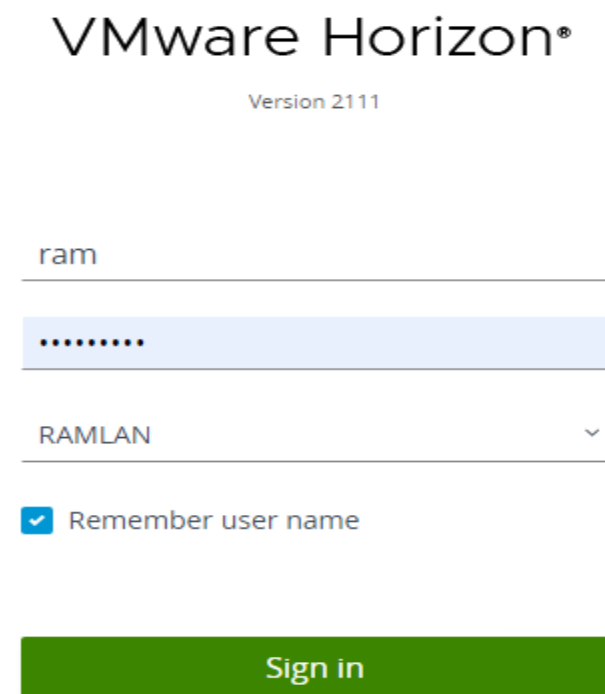
< Back

Install

Cancel



Open Horizon Administrator Console



I did use Let's Encrypt SSL certificate for this exercise. Did import the certificate prior to installing Connection Server.



VMware Horizon Administrator

8.4.0 build - 19067837

Version 2111

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Servers

vCenter Servers Gateways Connection Servers

Enable

Disable

Edit

Backup Now

Connection Server	Version	PCoIP Secure Gateway	State
<input checked="" type="radio"/> VCS01	8.4.0-19067837	Installed	Enabled

Connection Servers

Gateway Servers

Event Database

TrueSSO

View Services Status

View Sessions Detail



Status	Name	Version	Description	Services Status	Active Connections	CPU
<input type="radio"/> <input checked="" type="checkbox"/>	VCS01	8.4.0	No problem detected.	<input checked="" type="checkbox"/>	0	23%

vCenter Server – Settings – Servers

Add vCenter Server

1 vCenter Information

2 Storage

3 Ready to Complete

Asterisk (*) denotes required field

* Server address ⓘ

* User Name

* Password

Description

* Port

Deployment Type

General

Advanced Settings

Specify the concurrent operation limits. ⓘ

Cancel

Previous

Next

Add vCenter Server

✓ vCenter Information

2 Storage

3 Ready to Complete

Storage Settings

☒ Reclaim VM disk space

☒ Enable View Storage Accelerator

Default Host Cache Size MB

Cache must be between 100 MB and 32,768 MB.

Hosts

☒ Show All Hosts

Edit Cache Size

Host	Cache Size (MB)
● /AMERICA/host/TORONTO/192.168.0.75	Default

Rows per page 1 - 1 of 1 row(s)

Cancel

Previous

Next

Add vCenter Server

✓ vCenter Information

✓ Storage

3 Ready to Complete

vCenter Server	192.168.0.76
User Name	administrator@vsphere.local
Password	*****
Description	VCPD - Production Server
Server Port	443
Max Provision	20
Max Power	50
Max concurrent maintenance operations	12
Max Instant Clone Engine Provision	20
Enable View Storage Accelerator	Yes
Default host cache size (MB)	1,024
VM Disk Space Reclamation	Yes

Cancel

Previous

Submit

Domains - Settings – Domains – Instant Clone Engine Domain Accounts – Here you can add Domain Accounts

Domains

Instant Clone Engine Domain Accounts

Connection Server

Domain Bind

Add

Edit

Remove

	Domain	User
<input type="radio"/>	RAMLAN.CA	ram
<input type="radio"/>	RAMLAN.CA	administrator

Licensing and Usage

[Licensing](#) [Usage](#) [Customer Experience Program](#)

Edit License

License Key

License Expiration

Never

Desktop License

Enabled

Application Remoting License

Enabled

Instant Clone License

Enabled

Help Desk License

Enabled

Session Collaboration License

Enabled

Usage Model

Concurrent User

Global Settings – Settings – Global Settings – Here you can change timeout settings and others. I am not changing anything for Security Settings and Client Restriction Settings

Global Settings

[General Settings](#)

[Security Settings](#)

[Client Restriction Settings](#)

General Settings



Asterisk (*) denotes required field



* Horizon Console Session Timeout

3000

minutes ⓘ

* API Session Timeout

100

minutes ⓘ

* Forcibly Disconnect Users

After



600

minutes ⓘ

* Single Sign-On (SSO)

Enabled



ⓘ

Client-Dependent Settings

Clients that Support Applications

* Disconnect Applications and Discard SSO Credentials for Idle Users

Never



ⓘ

Other Clients

Cancel

OK

Registered Machines – Settings – Registered Machines – We will add RDS server later

Registered Machines

RDS Hosts Others

Edit

Remove

More ▾

Administrators – Settings – Administrators – Here you can add Administrators and Groups who will have access to VMWare Horizon Admin Console

Global Administrators View

Administrators and Groups

Role Privileges

Role Permissions

Access Groups

Add

Remove

Add Permissions

Remove Permissions

Name
RAMLAN.CA\HorizonAdmins

Role	Access Groups
Administrators	Root(/)

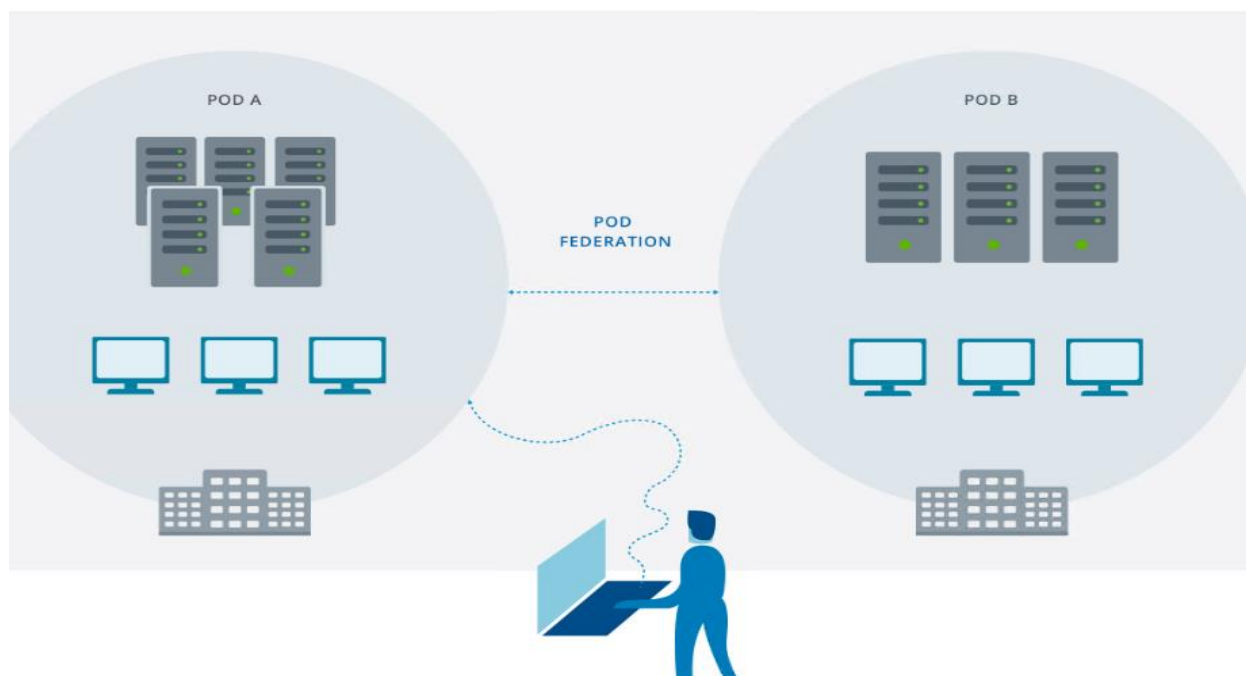
Cloud Pod Architecture – Settings – Cloud Pod – I don't have anything in the cloud to add. If you have go ahead and do it.

Cloud Pod Architecture

With Cloud Pod Architecture, you can link together multiple pods to create a single desktop and brokering environment called a pod federation. A pod federation can span multiple sites and data centers.

[Initialize the Cloud Pod Architecture feature](#)

[Join the pod federation](#)



Event Configuration – Settings – Event Configuration – For Event Configuration, I am going to use Postgre SQL. I already installed the software and created database called HorizonEvents. I don't have Syslog Server. So will ignore Syslog configuration for now.

If you need help on how to install and configure database – check this link - [How to install PostgreSQL14 on Windows Server 2019 - INFOTECHRAM INC.](#)

Event Configuration

Event Database

Edit

No database has been defined, events will not be recorded. Click 'Edit' to specify a database server.

Edit Event Database



* Database Server

dc.ramlan.ca

Database Type

PostgreSQL



* Port

5432

* Database Name

HorizonEvents

* User Name

postgres

* Password

* Confirm Password

Table Prefix

Cancel

OK

Global Policies – Settings – Global Policies – Not much to configure here.

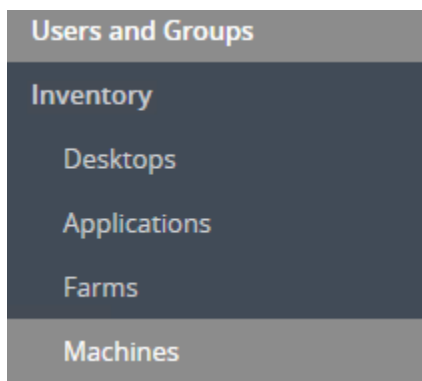
Global Policies

Edit Policies

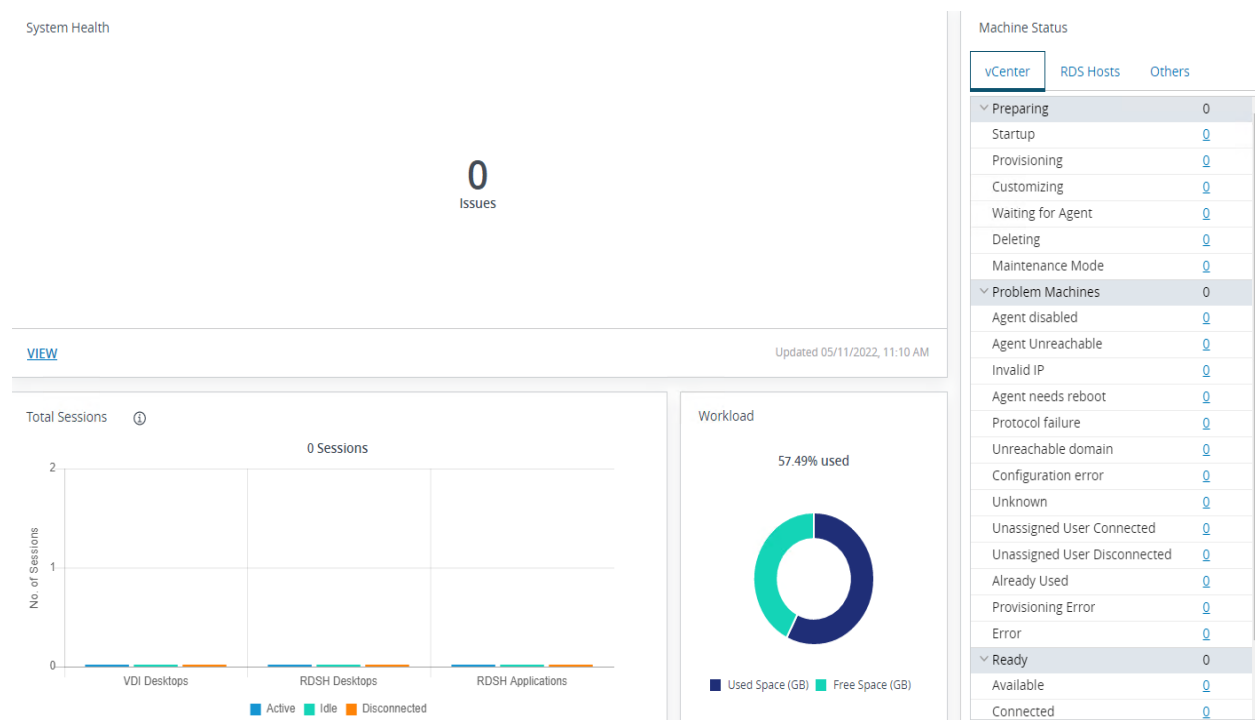
Name	Global Policy
Multimedia Redirection (MMR)	Deny
USB Access	Allow
PCoIP Hardware Acceleration	Allow - Medium priority

With this we have completed all the configuration under Settings Menu.

I will go over Users and Groups + Inventory later.



Monitor - Under Monitor there is not much to configure. Here you can see any issues or events as and when reported by Connection Server, vCenter, SQL and RDS Server.



HORIZON RECORDING SERVER & AGENT – I will be installing these 2 on a server running DC. It can be installed on any machine/workstation/server.

The VMware Horizon Recording feature allows administrators to record desktop and application sessions to monitor user behavior for Windows remote desktops and applications.

Administrators can observe a user's exact keystrokes, cursor and mouse activity, and user behavior in a recorded desktop or application session. Recording provides greater security and auditing for user behavior. It also helps with troubleshooting and reproducing issues the user experiences during a session. Administrators can play back, store, and audit the recordings.

Horizon Recording consists of the following components:

- **Horizon Recording Server:** Collects information about the session as well as raw recording data for storage and playback.
- **Horizon Recording Agent:** Records a user session, registers the session with the Horizon Recording Server, and uploads recording data.

Install the Horizon Recording Server

To use the VMware Horizon Recording feature, install the Horizon Recording Server component on a machine to collect information about the session as well as raw recording data for storage and playback.

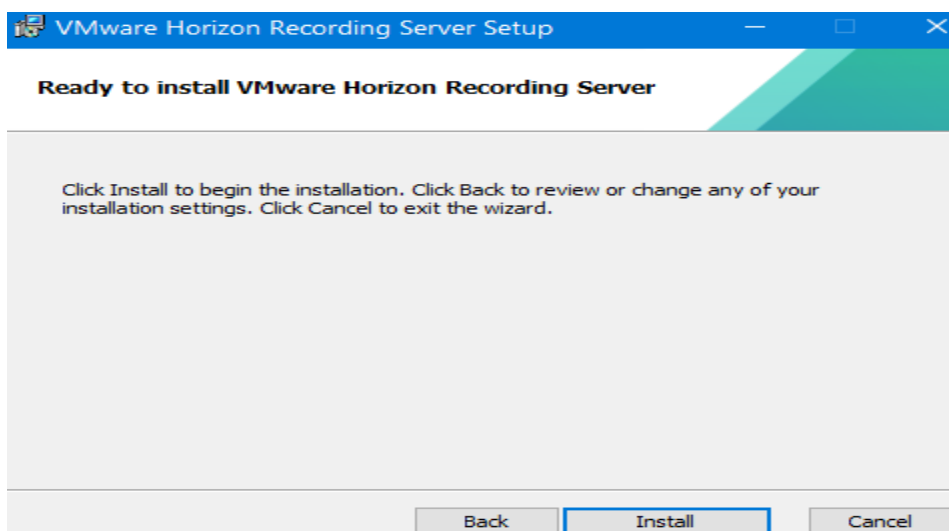
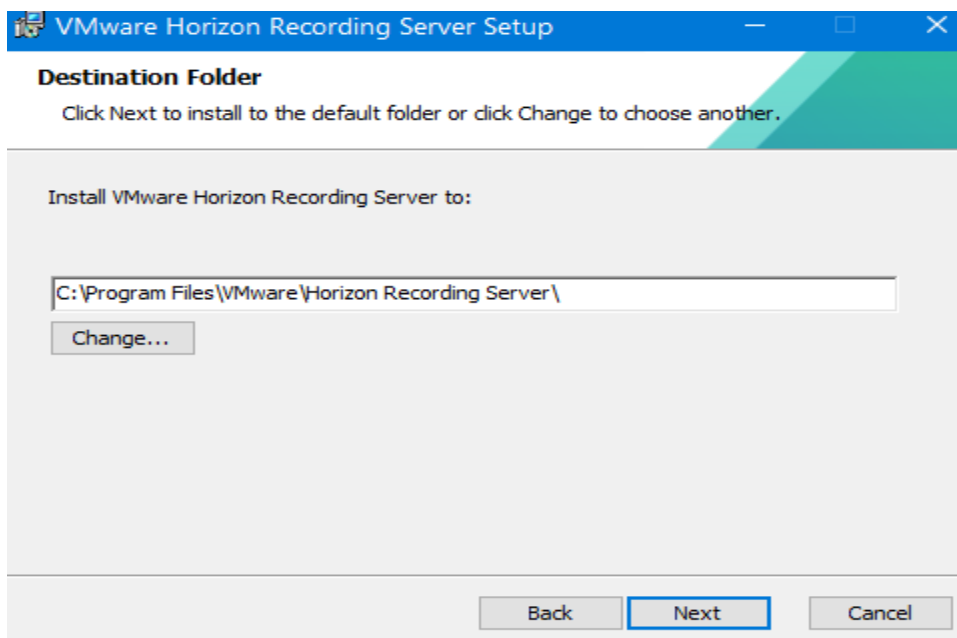
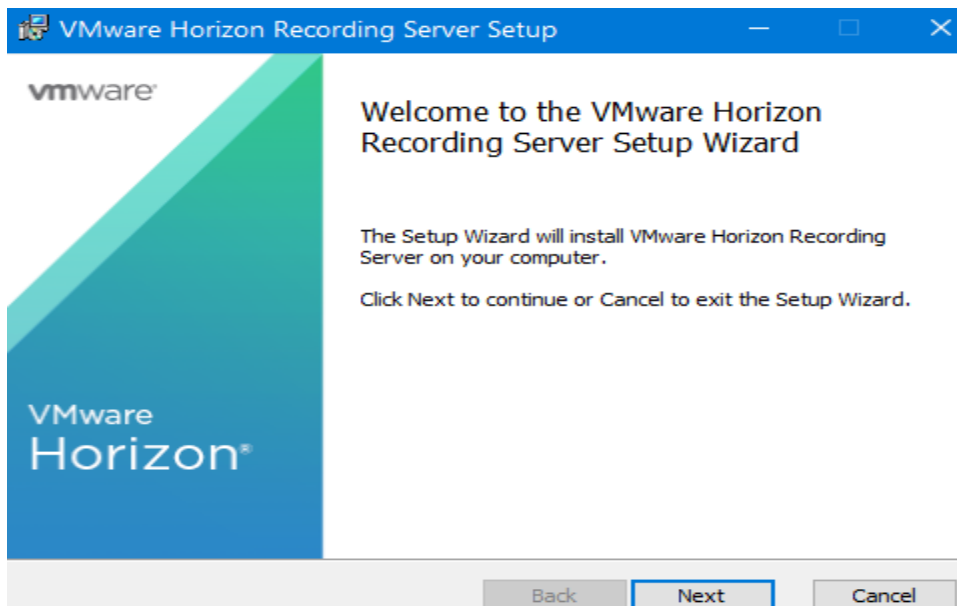
The Horizon Recording Server component consists of these items:

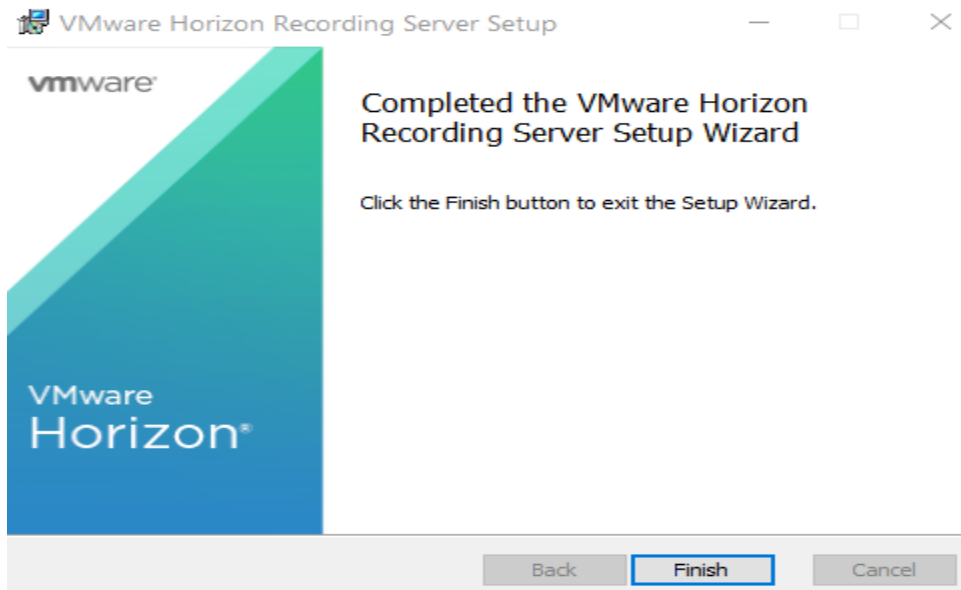
- A database for session information storage and configuration
- A Windows NTFS folder for recording storage
- A web service for collecting recording data, administration, and playback

You can deploy the Horizon Recording Server as a standalone setup where the server is installed on a machine that leverages a local SQLite database stored in the installation directory as `local.db`, and a local NTFS folder.

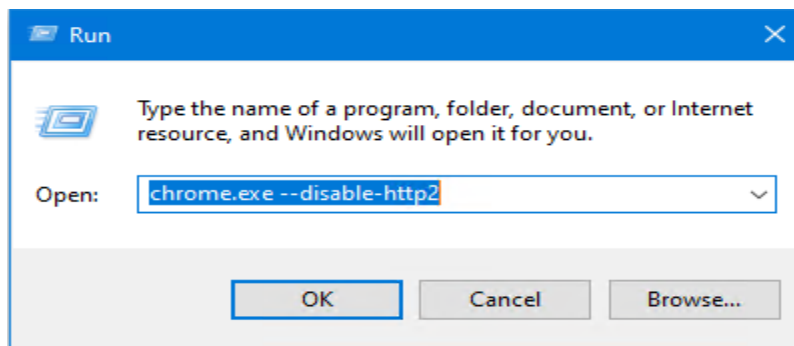
You can also deploy the Horizon Recording Server in a high available environment using multiple servers behind a load balancer, leveraging Microsoft SQL or PostgreSQL databases, as well as a shared NTFS folder on all servers for storing recording data. Load balancers configured with L4 load distribution are supported.

The Horizon Recording Server is built in .Net Core and requires a 64-bit Windows server operating system that is a member of the domain if you use group extraction. The server operating system must be Windows Server 2016 or later (64-bit).



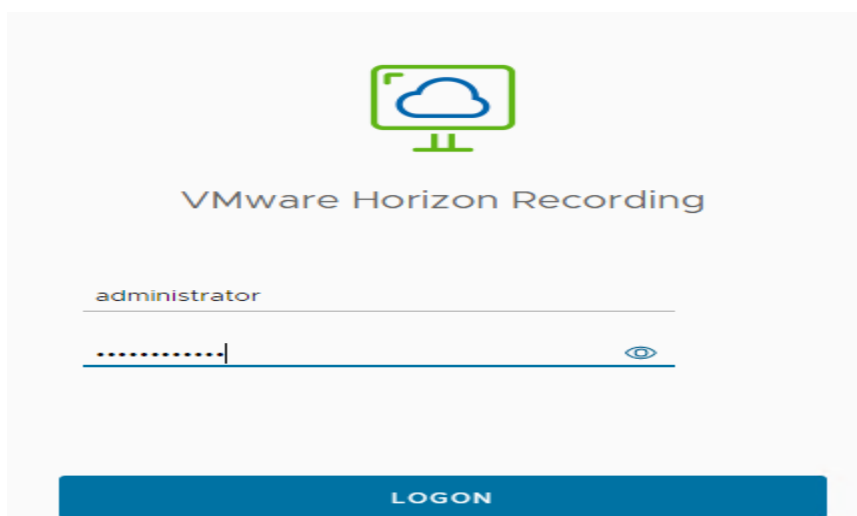


You can access Recording Server – <https://dc.ramlan.ca:9443> – If you get error in Chrome try this fix

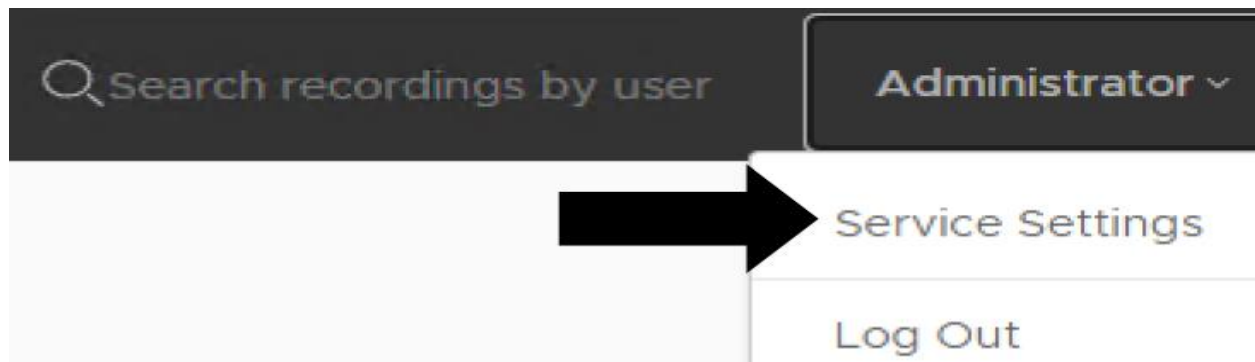


Username/Password: **administrator/Recording123**

The server is now available on <https://<localservername>:9443>



VMware Horizon Recording			
Dashboard Recordings Audit Trail			
Search recordings by user			
Server Name:	Recording Location:	Active Recordings:	Recordings Today:
DC	C:\Program Files\VM... Server\Recordings	0	0 Bytes
Database Type:	Storage Accessible:	Finished Recordings:	Total Recording data:
SQLite	True	0	0 Bytes



Authentication Settings:

Client Settings:

Recording Criteria:

Server Settings:

General LDAP Integration

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 c

CHANGE PASSWORD

Change Password for user: Administrator

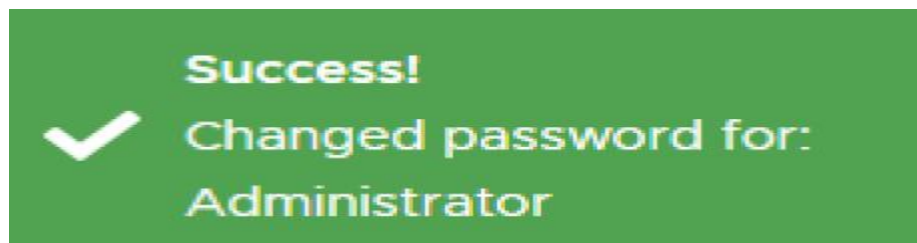
New Password:

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

Confirm Password:

CHANGE PASSWORD

CANCEL



Below are some of the settings you can change if needed.

Authentication Settings:

Client Settings:

Recording Criteria:

Server Settings:

General

LDAP Integration

Enable LDAP Integration:

☐

Client Settings:

Recording Criteria:

Server Settings:

Client Settings:

Notification Message:

Chunk Size:

Upload Interval:

Maximum Group Wait:

Your session is being recorded in accordance with security policies.

5

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

5

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

120

The duration the second recording agent will wait, in seconds for group memberships to be retrieved during the logon process.

Authentication Settings:

Client Settings:

Recording Criteria:

Server Settings:

Recording Criteria:

Session Types:

Groups to Record:

☐ Record Local Sessions

☒ Record Remote Sessions (Through UAG)

Group Name	SID
	

Items per page 10

ADD

REMOVE

Authentication Settings:

Client Settings:

Recording Criteria:

Server Settings:

Local Server Settings:

Database Connection Type:

Database Connection String:

Cluster Settings:

Recording Storage Folder:

Conversion Chunk Size:

Conversion wait time:

Raw Files:

Retention Settings:

Session Recordings:

Audit Trail:

SQLite

This value can only be updated during a deployment modification.

This value can only be updated during a deployment modification.

C:\Program Files\VMware\Horizon Recording Server\Recordings

This value can only be updated during a deployment modification.

10

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

10

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

☒ Delete Raw Files

14

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

30

The Maximum duration audit trail items will be maintained (in days). (min 7, max 365).

EDIT DEPLOYMENT

SAVE

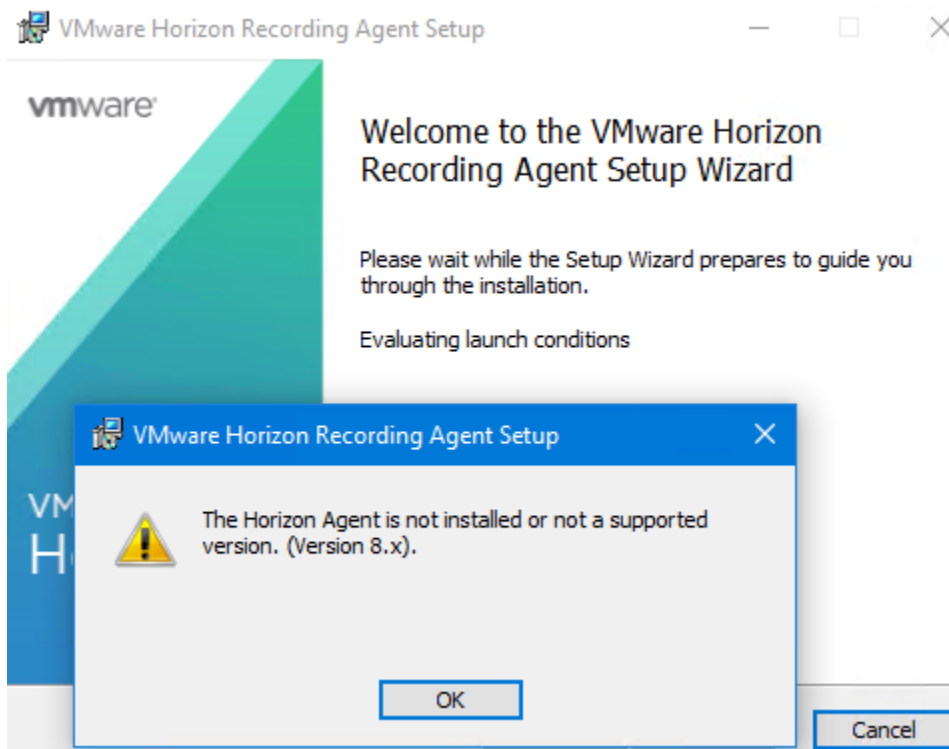
RECORDING AGENT – I will install Horizon Agent & Recording Agent on WS-W10 workstation. Later we will install the same on the golden image that will be used for instant clone/desktop pool.

To use the VMware Horizon Recording feature, install the Horizon Recording Agent component on all Horizon machines where you want to record sessions.

To install the Horizon Recording Agent, perform the following steps.

1. Download the `HorizonRecordingAgent.exe` file and copy it to a local folder.
2. Run the installer and follow the steps.
3. When prompted for the connection, provide the correct URL of the recording server in the format `https://<FQDN or IP address of recording server>:9443` along with the User Name and Password.
 - a. Select the **This machine is a template** check box if the machine is a parent VM and a pool will be created from it.
 - b. Click **Register**.
 - c. If the certificate of the server is untrusted, accept the thumbprint of the server when prompted.

You will get below error when you try to install Recording Agent. Install Horizon Agent first and then Recording Agent.



HORIZON AGENT:

VMware Horizon Agent

Welcome to the Installation Wizard for VMware Horizon Agent

The installation wizard will install VMware Horizon Agent on your computer. To continue, click Next.

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Product version: 2111.1

< Back Next > Cancel

VMware Horizon Agent

Network protocol configuration

Select the communication protocol

Specify the protocol to be used to configure this Horizon Agent instance:

IPv4
IPv6

This agent will be configured to choose the IPv4 protocol for establishing all connections.

< Back Next > Cancel

VMware Horizon Agent

Custom Setup

Select the program features you want installed.

Click on an icon in the list below to change how a feature is installed.

Feature	Installation Method
Core	Core
USB Redirection	X
VMware Virtualization Pack for : Real-Time Audio-Video	X
VMware Horizon Instant Clone	
Client Drive Redirection	
Horizon Monitoring Service Age	
Scanner Redirection	X

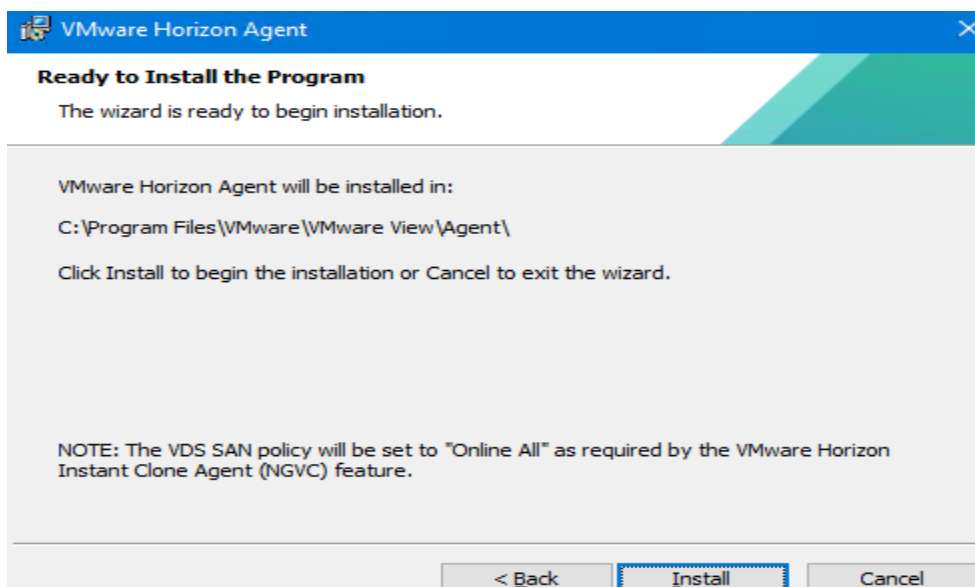
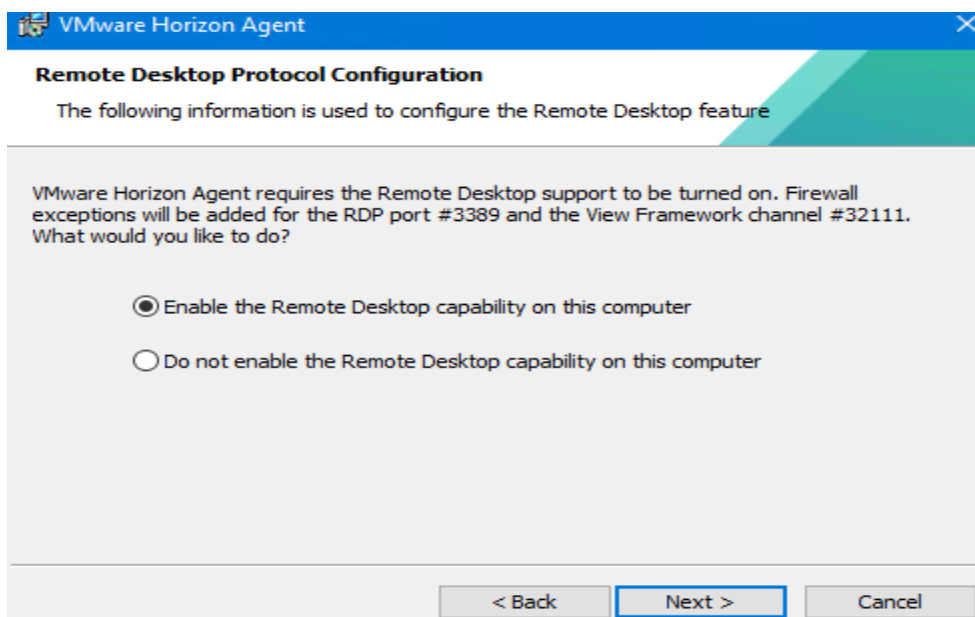
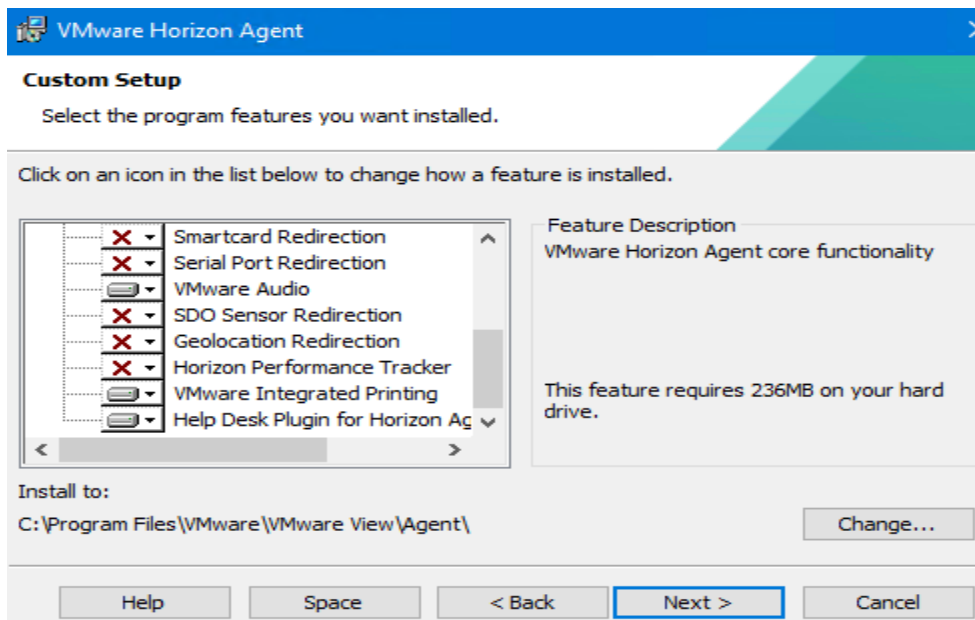
Feature Description
VMware Horizon Agent core functionality

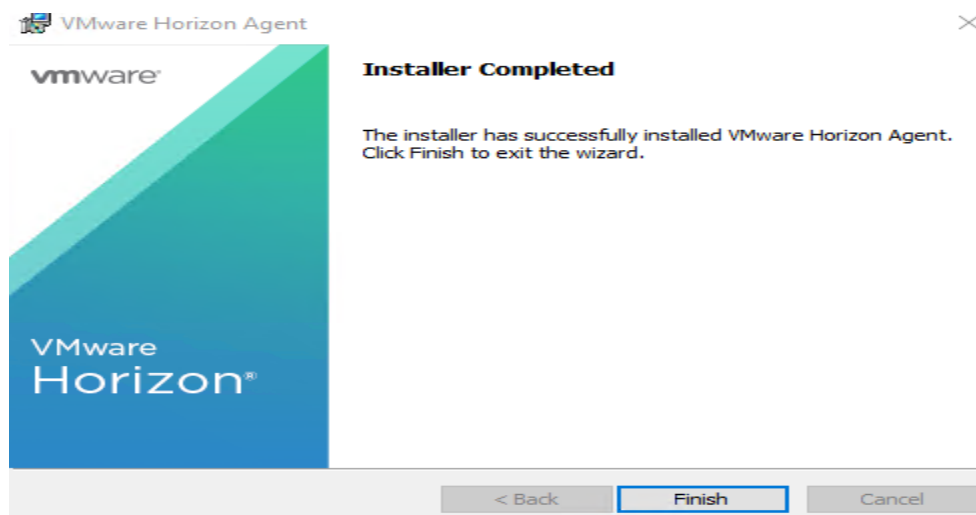
This feature requires 236MB on your hard drive.

Install to:
C:\Program Files\VMware\VMware View\Agent\

Change...

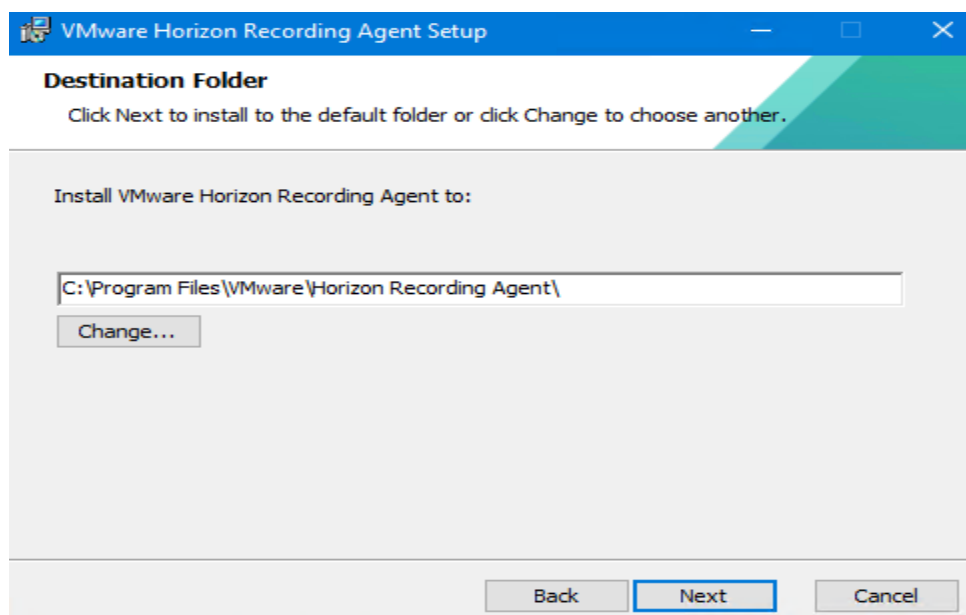
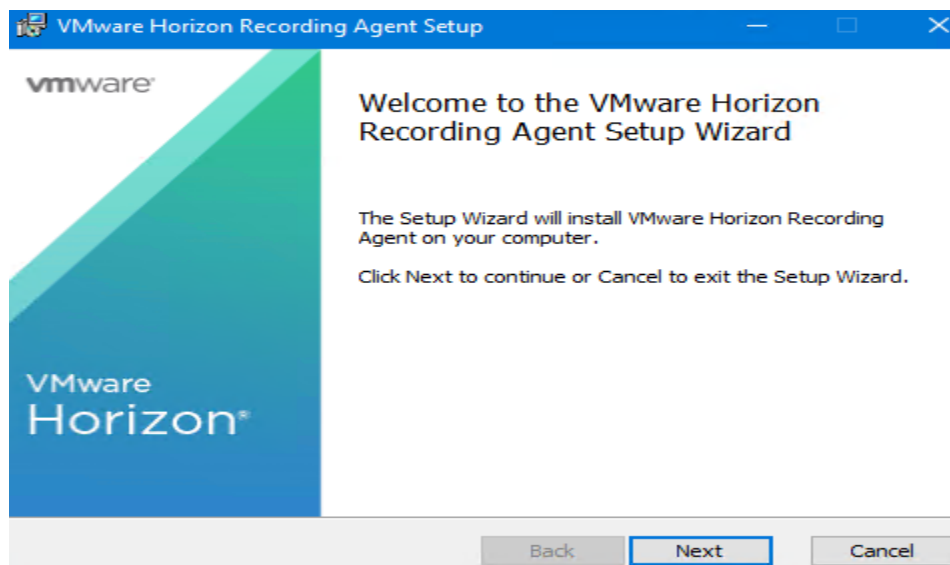
Help Space < Back Next > Cancel

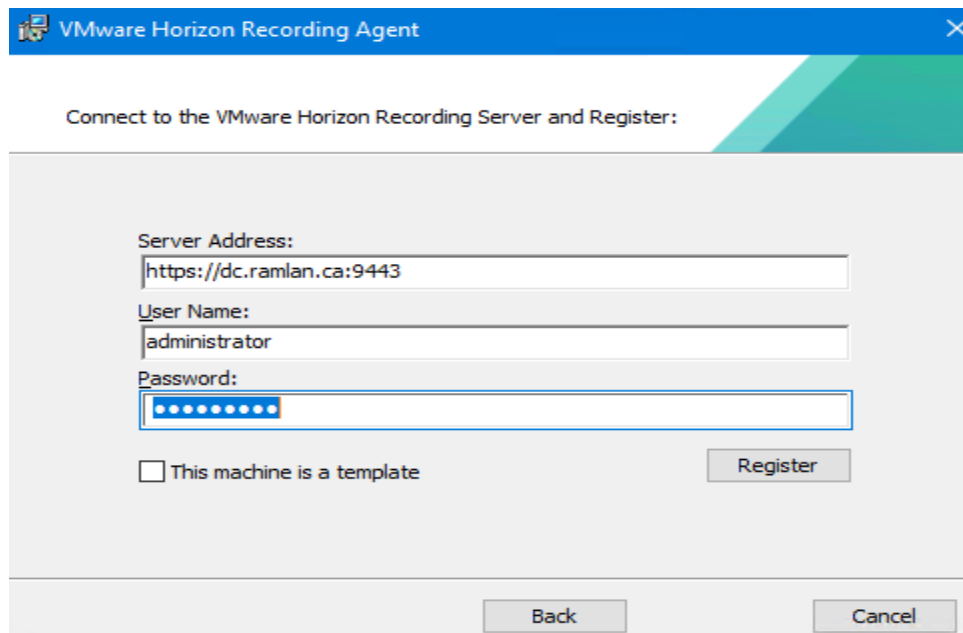




Restart the system.

RECORDING AGENT:





VMware Horizon Recording Agent

Connect to the VMware Horizon Recording Server and Register:

Server Address:

User Name:

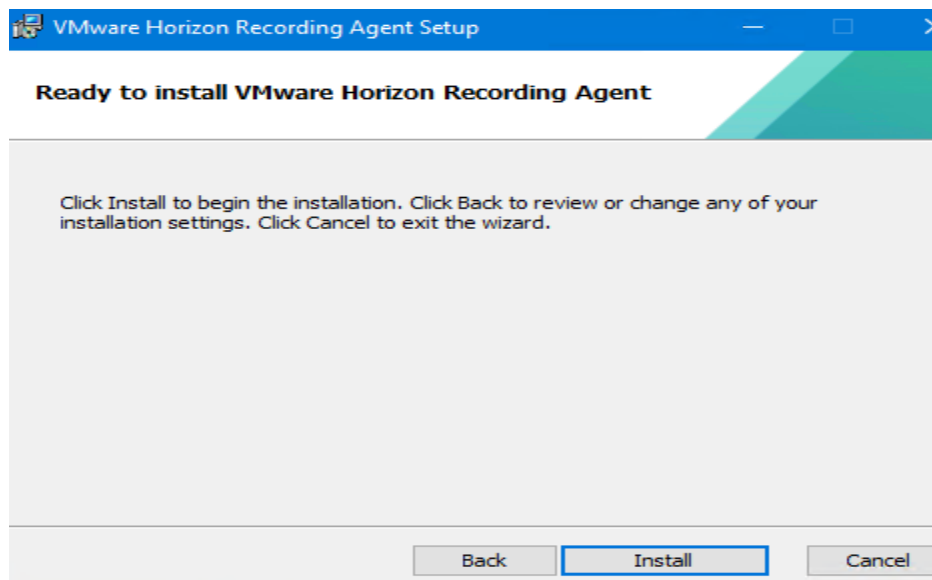
Password:

☐ This machine is a template

Register

Back Cancel

Click Register – Accept Certificate warning message

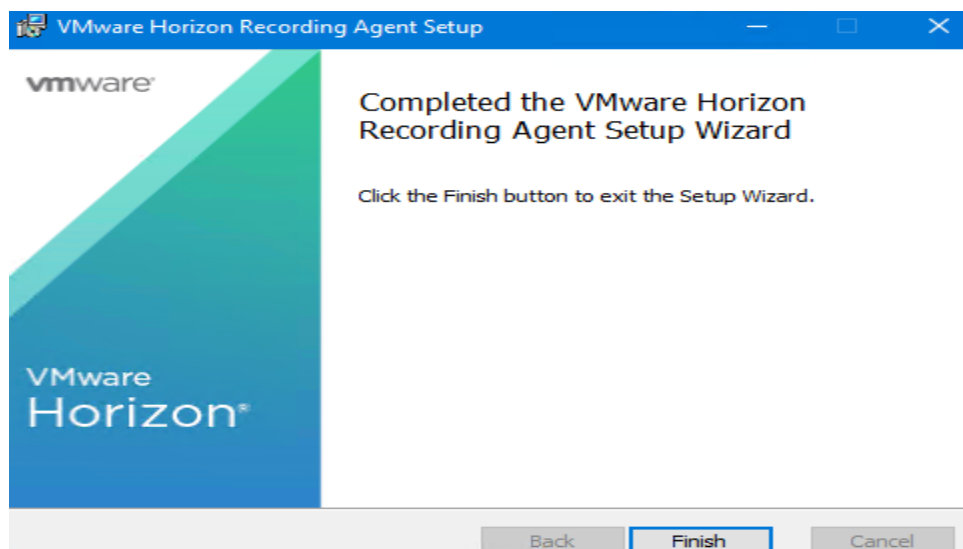


VMware Horizon Recording Agent Setup

Ready to install VMware Horizon Recording Agent

Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.

Back Install Cancel



VMware Horizon Recording Agent Setup

Completed the VMware Horizon Recording Agent Setup Wizard

Click the Finish button to exit the Setup Wizard.

vmware

VMware Horizon®

Back Finish Cancel

HORIZON CLIENT:



VMware Horizon®

Version 2111

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

Agree & Install

[Customize Installation](#)

Success!



Finish

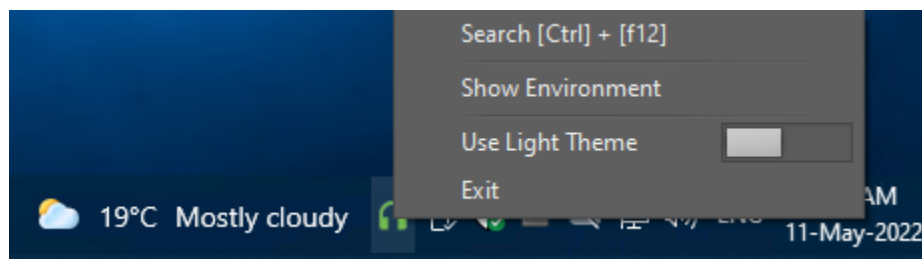
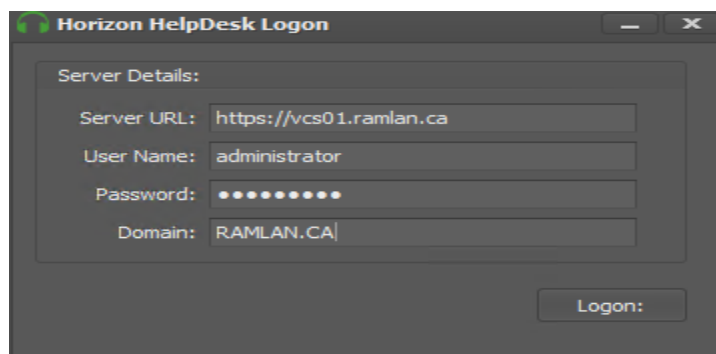
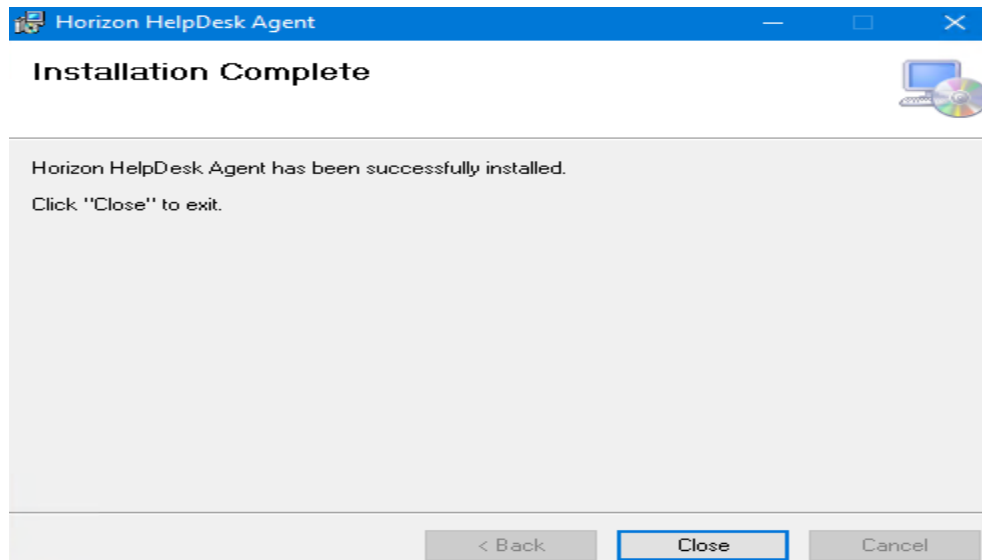
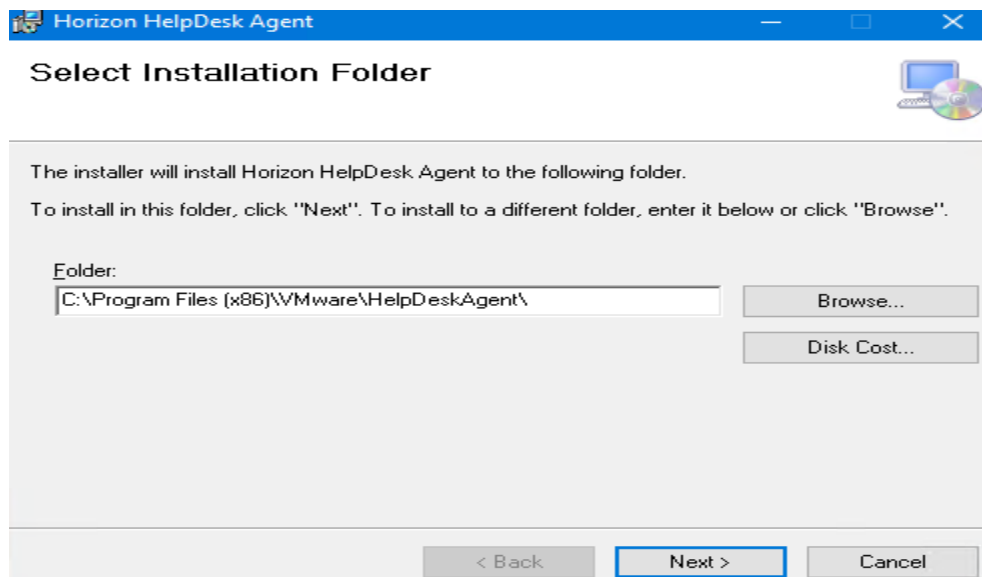


You must restart your system for the configuration changes made to VMware Horizon Client to take effect.

Restart Now

[Restart Later](#)

HORIZON HELPDESK AGENT:



Connection Servers:		vCenter:		Hosts:	Datastores:
Name:	Status:	Version:	Connections:	Certificate Health:	
VCS01	Ok	8.4.0 - 19067837	0	Valid	

Connection Servers:		vCenter:		Hosts:	Datastores:	Composer:
Name:	Status:	Version:	Connection:	Datastores:	Hosts:	Composer:
192.168.0.76	Enabled	7.0.3-19480866	Healthy	Healthy	Healthy	

Connection Servers:		vCenter:		Hosts:	Datastores:
Name:	Status:	Version:	Cluster Name:		
192.168.0.75	CONNECTED	7.0.3	TORONTO		

Connection Servers:		vCenter:		Hosts:	Datastores:
Name:	Host:	Accessible:	Type:	Free Space (%):	Path:
EMCDATASTORE	192.168.0.76	True	VMFS	75.1	/AMERICA/EMCDATASTORE
CISCODATASTORE	192.168.0.76	True	VMFS	79.77	/AMERICA/CISCODATASTORE
PLACEHOLDER	192.168.0.76	True	NFS	17.99	/AMERICA/PLACEHOLDER

With this we have completed all the required configuration for VMWare Horizon View.

GOLDEN IMAGE – This is what we will do for creating Golden Image (Windows 10 and Windows 11)

High-level Steps for our Golden VM

- [Download a supported Windows 10 Image](#)
- Install Windows 10 on our vCenter
- Choose Network card as VXNet3
- Enable CPU/vMemory Hot add
- Disconnect floppy drive
- Install VMware Tools
- Connect VM to Domain to get the dll files
- [Download the Fling here](#) and run OS optimizations
- Install View Agent
- Install Apps if any after OS optimizations
- Clean up temp files if any, empty recycle bin, turn off windows OS updates, browsing history
- Turn off Windows Updates
- Release IP
- Shutdown VM
- Snapshot VM

NEW VIRTUAL MACHINE:

New Virtual Machine

1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select a creation type

How would you like to create a virtual machine?

Create a new virtual machine

Deploy from template

Clone an existing virtual machine

Clone virtual machine to template

Clone template to template

Convert template to virtual machine

This option guides you through creating a new virtual machine. You will be able to customize processors, memory, network connections, and storage. You will need to install a guest operating system after creation.

CANCEL

BACK

NEXT

New Virtual Machine

✓ 1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select a name and folder

Specify a unique name and target location

Virtual machine name:

WIN10GOLDEN

Select a location for the virtual machine.

✓ VCDR.RAMLAN.CA

> ASIA

CANCEL

BACK

NEXT

New Virtual Machine

✓ 1 Select a creation type

✓ 2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select a compute resource

Select the destination compute resource for this operation

✓ ASIA

✓ BANGALORE

192.168.0.85

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select storage

Select the storage for the configuration and disk files

☐ Encrypt this virtual machine (Requires Key Management Server)

VM Storage Policy

Datastore Default

☒ Disable Storage DRS for this virtual machine

	Name	Storage Compatibility	Capacity	Provisioned	Free	Type	Cluster
<input type="radio"/>	EMCDATASTORE	--	999.75 GB	248.91 GB	750.84 GB	VMFS 6	
<input checked="" type="radio"/>	HPDATASTORE	--	1.64 TB	1,000.38 GB	1.51 TB	VMFS 6	

2 items

Compatibility

✓ Compatibility checks succeeded.

CANCEL

BACK

NEXT

1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select compatibility

Select compatibility for this virtual machine depending on the hosts in your environment

The host or cluster supports more than one VMware virtual machine version. Select a compatibility for the virtual machine.

Compatible with: ESXi 7.0 U2 and later ⓘ

This virtual machine uses hardware version 19, which provides the best performance and latest features available in ESXi 7.0 U2.

CANCEL

BACK

NEXT

1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Select a guest OS

Choose the guest OS that will be installed on the virtual machine

Identifying the guest operating system here allows the wizard to provide the appropriate defaults for the operating system installation.

Guest OS Family: Windows

Guest OS Version: Microsoft Windows 10 (64-bit)

☐ Enable Windows Virtualization Based Security ⓘ

CANCEL

BACK

NEXT

Compatibility: ESXi 7.0 U2 and later (VM version 19)

1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

New Network *

Asia-Mgmt

Status

☒ Connect At Power On

Adapter Type

VMXNET 3

DirectPath I/O

☒ Enable

Shares

Normal

50

Reservation

0

Mbit/s

Limit

Unlimited

Mbit/s

MAC Address

Automatic

New CD/DVD Drive *

Datastore ISO File

Status

☒ Connect At Power On

CD/DVD Media

[EMC]DATASTORE] ISO/e

BROWSE...

Device Mode

Passthrough CD-ROM

Virtual Device Node

New SATA Controller

SATA(0:0) New CD/DVD Drive

New USB Controller

USB 3.1

Video card *

Specify custom settings

CANCEL

BACK

NEXT

1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

General Options

VM Name: WIN10GOLDEN

VMware Remote Console Options

☐ Lock the guest operating system when the last remote user disconnects

Encryption

Expand for encryption settings

Power management

Expand for power management settings

VMware Tools

Expand for VMware Tools settings

Boot Options

Firmware

BIOS

Boot Delay

When powering on or resetting, delay boot order by

0

milliseconds

Force BIOS setup

☒ During the next boot, force entry into the BIOS setup screen

Failed Boot Recovery

☐ If the VM fails to find boot device, automatically retry after

10

seconds

Advanced

Expand for advanced settings

Fibre Channel NPIV

Expand for Fibre Channel NPIV settings

CANCEL

BACK

NEXT

1 Select a creation type

2 Select a name and folder

3 Select a compute resource

4 Select storage

5 Select compatibility

6 Select a guest OS

7 Customize hardware

8 Ready to complete

Virtual machine name	WIN10GOLDEN
Folder	ASIA
Host	192.168.0.85
Datastore	HPDATASTORE
Guest OS name	Microsoft Windows 10 (64-bit)
Virtualization Based Security	Disabled
CPUs	2
Memory	10 GB
NICs	1
NIC 1 network	Asia-Mgmt (vDS-Asia)
NIC 1 type	VMXNET 3
SCSI controller 1	LSI Logic SAS
Create hard disk 1	New virtual disk
Capacity	148 GB
Datastore	HPDATASTORE
Virtual device node	SCSI(0:0)

CANCEL

BACK

FINISH

Power on the VM

PhoenixBIOS Setup Utility				
Main	Advanced	Security	Boot	Exit
<p>System Time: [17:09:10] System Date: [05/11/2022]</p> <p>Legacy Diskette A: [Disabled] Legacy Diskette B: [Disabled]</p> <p>▶ Primary Master [None] ▶ Primary Slave [None] ▶ Secondary Master [None] ▶ Secondary Slave [None]</p> <p>▶ Keyboard Features</p> <p>System Memory: 640 KB Extended Memory: 11533312 KB Boot-time Diagnostic Screen: [Disabled]</p>			<p>Item Specific Help</p> <p><Tab>, <Shift-Tab>, or <Enter> selects field.</p>	
<p>F1 Help ↑↓ Select Item -/+ Change Values F9 Setup Defaults Esc Exit ↔ Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit</p>				

PhoenixBIOS Setup Utility			
Advanced			
<p>I/O Device Configuration</p> <p>Serial port A: [Disabled] Serial port B: [Disabled] Parallel port: [Disabled] Floppy disk controller: [Disabled]</p>			<p>Item Specific Help</p> <p>Configure parallel port using options:</p> <p>[Disabled] No configuration</p> <p>[Enabled] User configuration</p> <p>[Auto] BIOS or OS chooses configuration</p> <p>(OS Controlled) Displayed when controlled by OS</p>
<p>F1 Help ↑↓ Select Item -/+ Change Values F9 Setup Defaults Esc Exit ↔ Select Menu Enter Select ▶ Sub-Menu F10 Save and Exit</p>			

Setup Confirmation	
Save configuration changes and exit now?	
[Yes]	[No]




Operating system	Architecture	Date modified
Windows 10 Education	x64	3/3/2022
Windows 10 Education N	x64	3/3/2022
Windows 10 Enterprise	x64	3/3/2022
Windows 10 Enterprise N	x64	3/3/2022
Windows 10 Pro	x64	3/3/2022
Windows 10 Pro N	x64	3/3/2022
Windows 10 Pro Education	x64	3/3/2022

Description:
Windows 10 Enterprise

Next

Where do you want to install Windows?

Name	Total size	Free space	Type
 Drive 0 Unallocated Space	148.0 GB	148.0 GB	

 Refresh

 Delete

 Format

 New

 Load driver

 Extend

Next

Installing Windows

Status

 Copying Windows files

Getting files ready for installation (37%)

Installing features

Installing updates

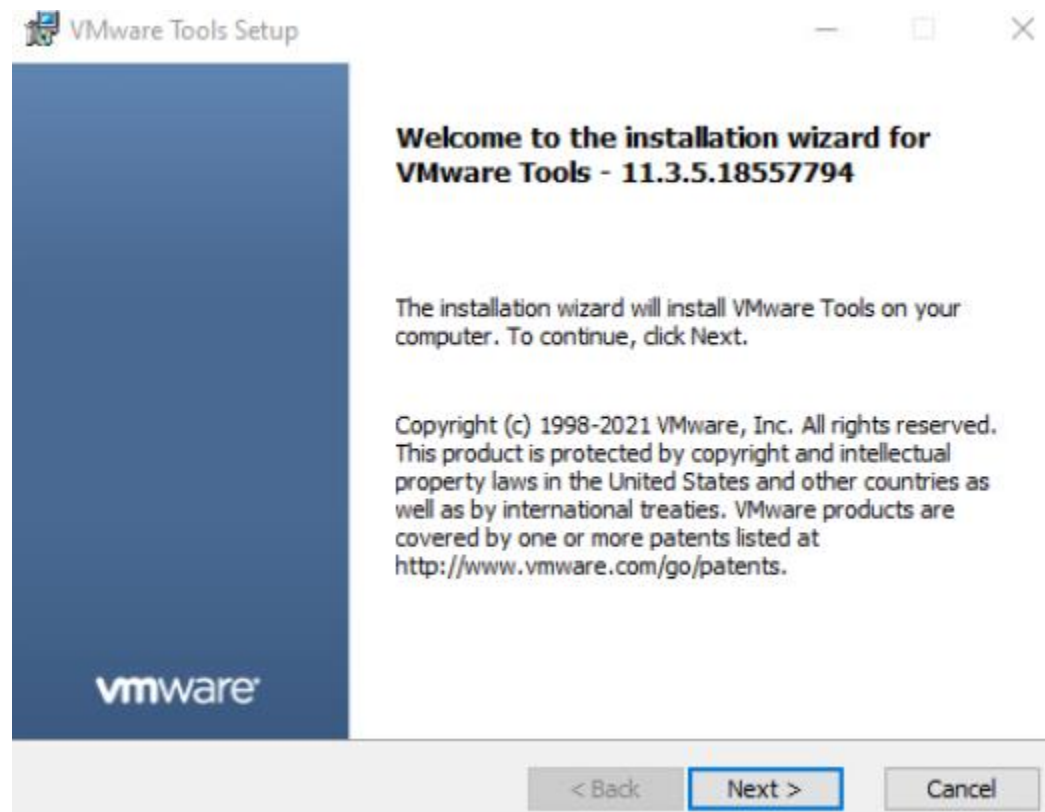
Finishing up

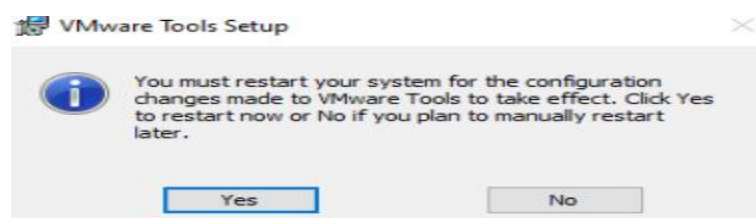
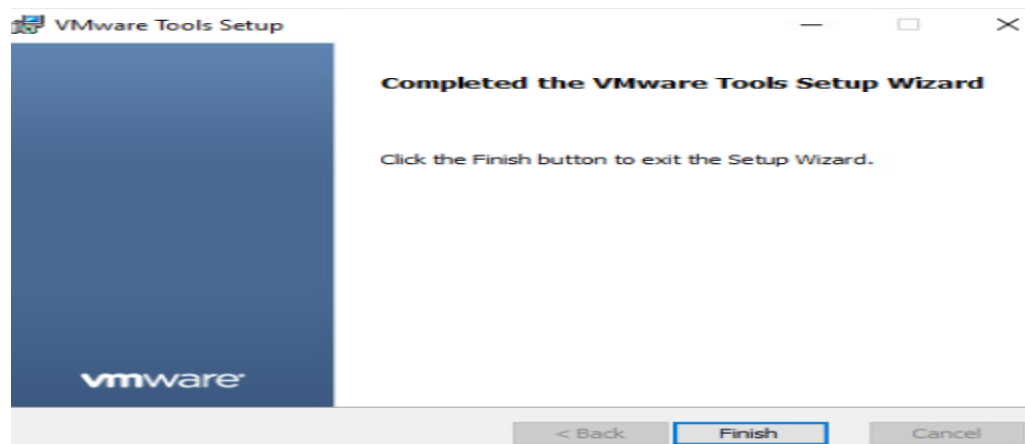
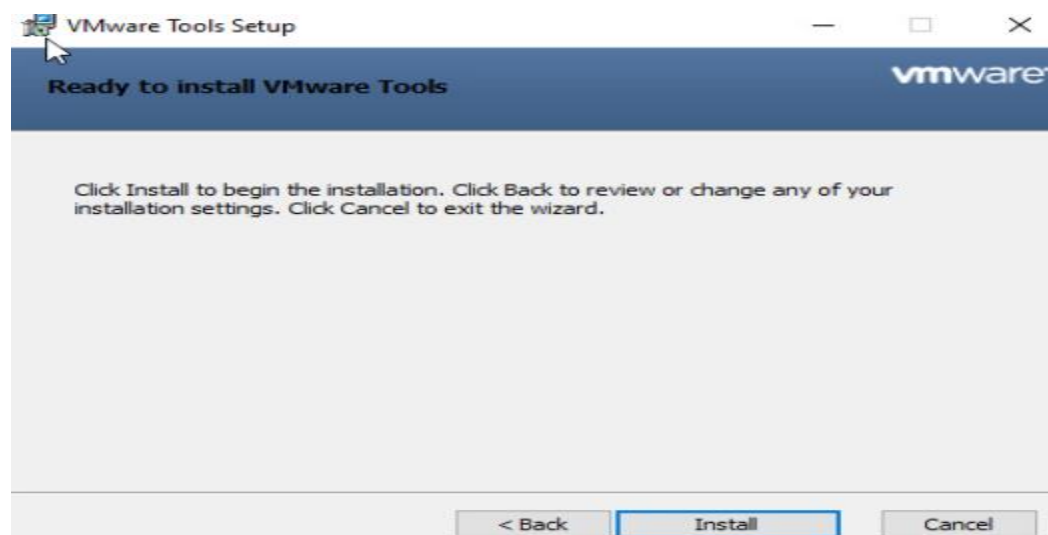
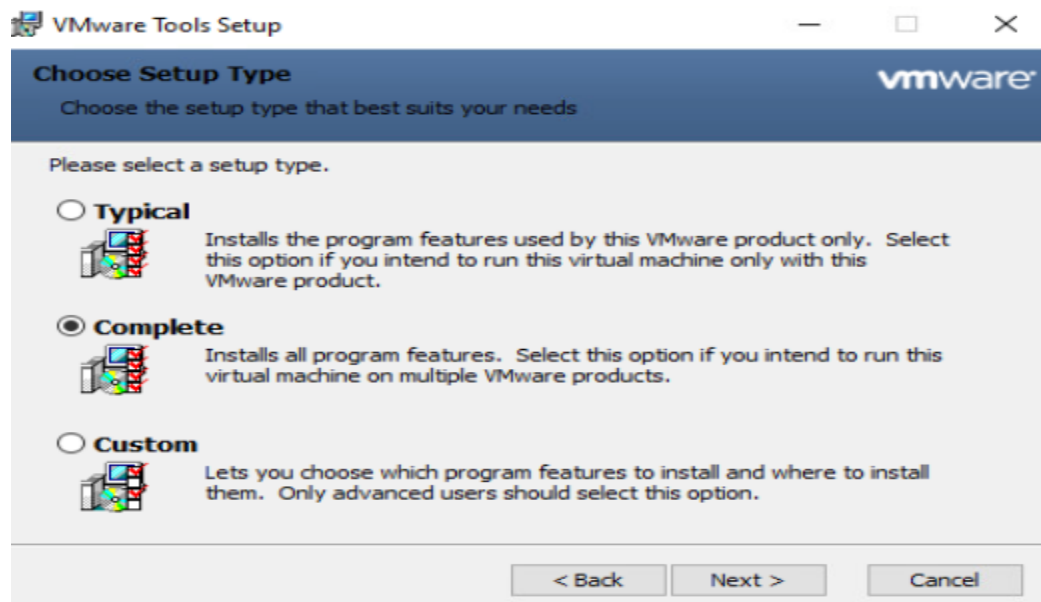
Windows needs to restart to continue

Restarting in 3 seconds

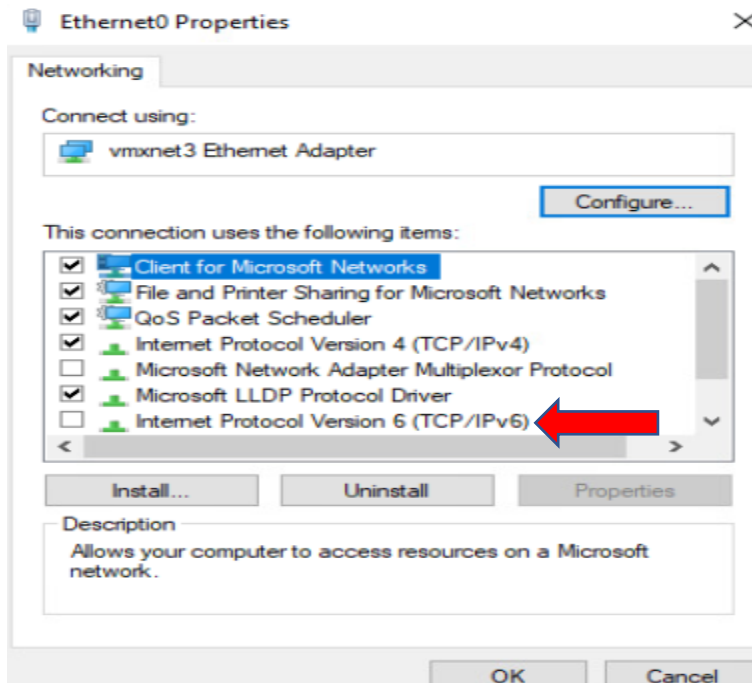
[Restart now](#)

INSTALL VMWARE TOOLS – I will start with VMWare tools first and then install all the windows updates and finally few applications like chrome, Firefox, office 2021, 7zip, WinRAR, Adobe Reader, Horizon Agent, Horizon Client, Horizon Recording Agent, VLC Player & Notepad.

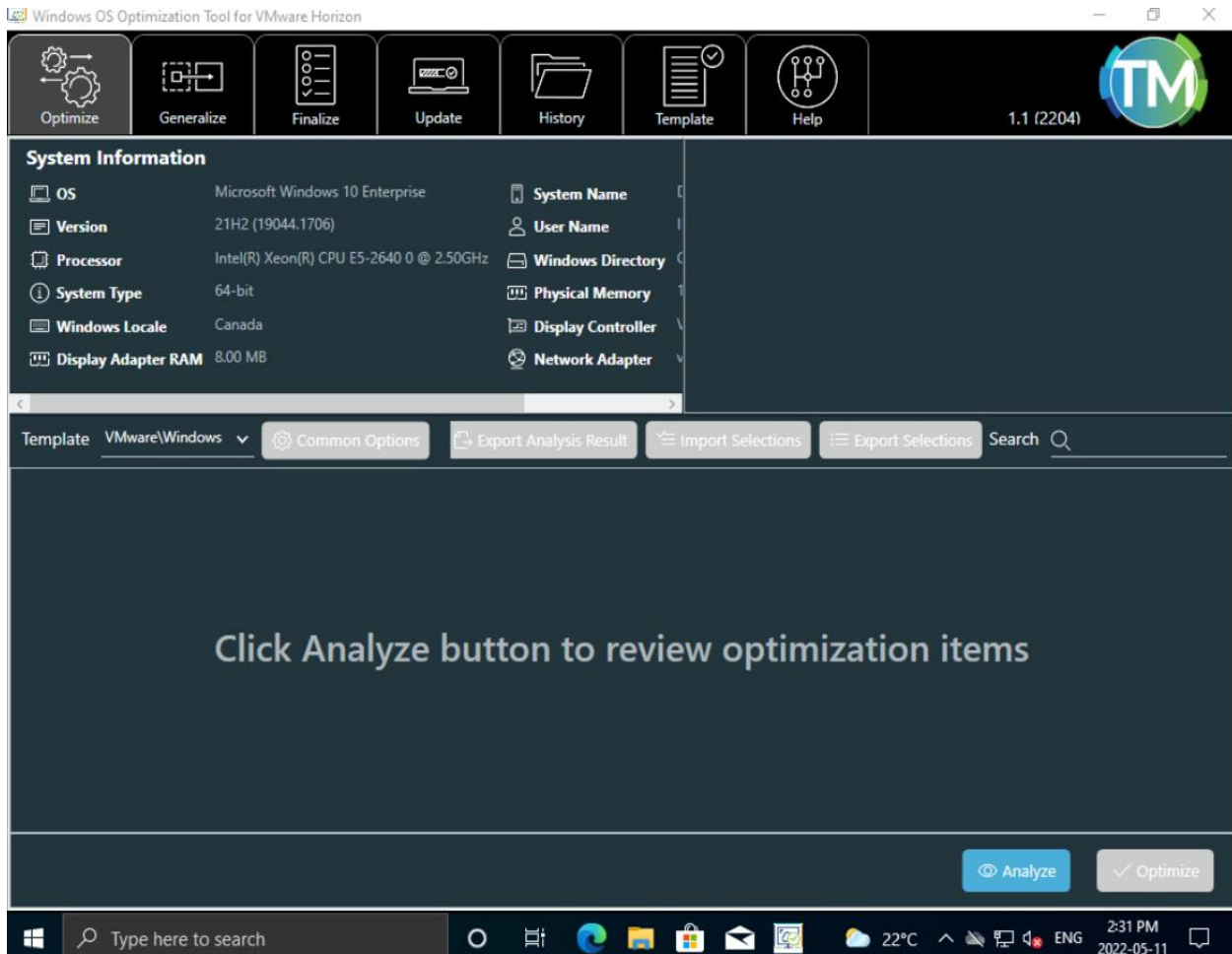




DISABLE IPV6:



HORIZON OS OPTIMIZATION TOOL – Now, I will install this tool to optimize the OS.



Optimize

Generalize

Finalize

Update

History

Template

Help

1.1 (2204)

TM

OS

Version

Processor

System Type

Windows Locale

Display Adapter RAM

Microsoft Windows 10 Enterprise

21H2 (19044.1706)

Intel(R) Xeon(R) CPU E5-2640 0 @ 2.50GHz

64-bit

Canada

8.00 MB

System Name

User Name

Windows Directory

Physical Memory

Display Controller

Network Adapter

Analysis Summary

600

400

200

0

436

422

14

Total

Recommended

Optional

Optimization Not Applied

Optimization Applied

Template

VMware\Windows

Common Options

Export Analysis Result

Import Selections

Export Selections

Search

Optimizations

Expected Value

✓ Modifications to Standard Image (518 items)

✓ Security (110 items)

> Defender Antivirus (18 items)

> Firewall (1 items)

> HVCI (7 items)

> Security Center (6 items)

> ✓ SmartScreen (5 items)

> ✓ Telemetry and Privacy (37 items)

Analyze

Optimize

Start

Type here to search

22°C

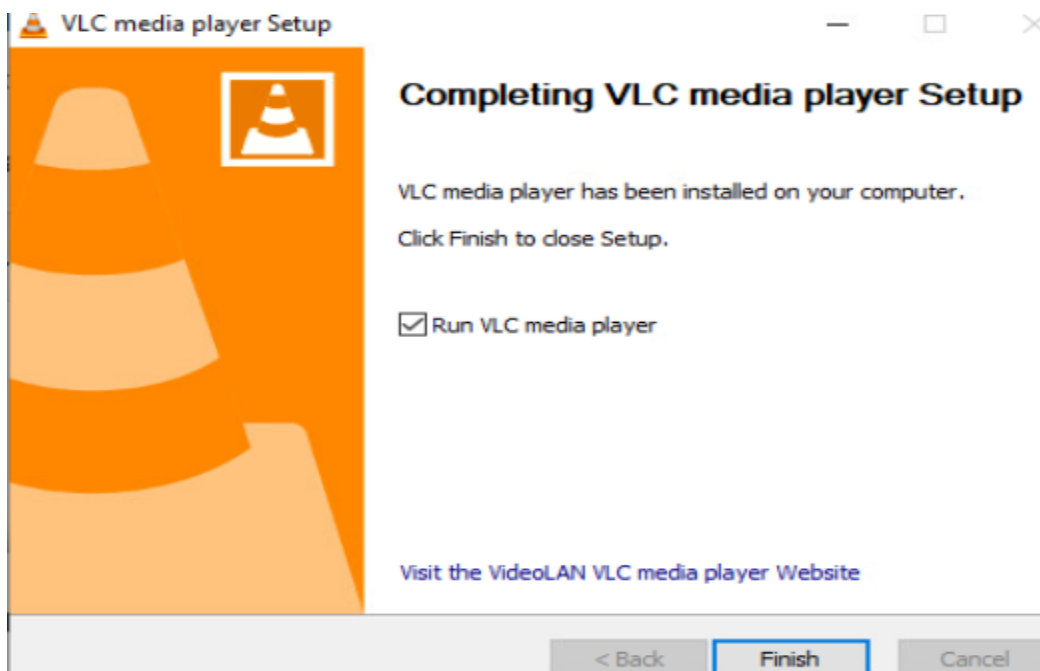
2:31 PM

2022-05-11

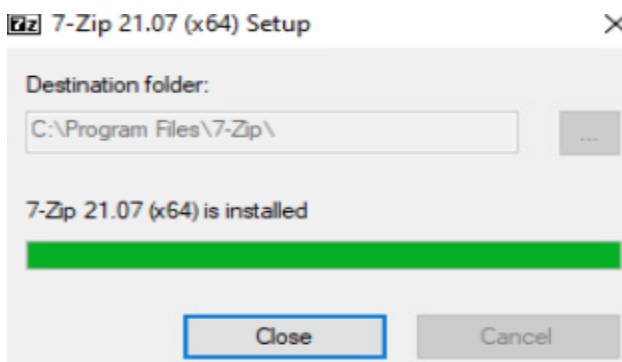
V Modifications to Standard Image (448 items)		
V Security (66 items)		
V SmartScreen (3 items)		
SUCCESS	⚠ Disable SmartScreen Filter for Store Apps - User Registry	
SUCCESS	⚠ Disable SmartScreen - Machine Policy	
SUCCESS	⚠ Prevent managing Edge SmartScreen Filter - HKLM Registry	
V Telemetry and Privacy (34 items)		
SUCCESS	⚠ Turn off handwriting personalization data sharing - Machine Policy	
SUCCESS	⚠ Turn off handwriting recognition error reporting - Machine Policy	
SUCCESS	⚠ Turn off the Windows Messenger Customer Experience Improvement Program - Machine Policy	
SUCCESS	⚠ Turn off Windows Customer Experience Improvement Program - Machine Policy	
SUCCESS	⚠ Turn off Windows Error Reporting - Machine Policy	
SUCCESS	⚠ Windows should ask for my feedback - HKCU Registry	
SUCCESS	⚠ Turn Off Find My Device - Machine Policy	
SUCCESS	⚠ Disable Windows Error Reporting - Service	
SUCCESS	⚠ Disable QueueReporting - Scheduled Task	
SUCCESS	⚠ Disable DmClient - Scheduled Task	
SUCCESS	⚠ Disable Send Windows Error Reports - Machine Policy	
SUCCESS	⚠ Disable Last Logon Info - Machine Policy	
SUCCESS	⚠ Disable Find My Device - HKLM Registry	
SUCCESS	⚠ Stop automatically sending memory dumps for OS-generated error reports - Machine Policy	
SUCCESS	⚠ Turn off the advertising ID - Machine Policy	
SUCCESS	⚠ Turn off Inventory Collector - Machine Policy	
SUCCESS	⚠ Turn off Let websites provide locally relevant content by accessing my language list - HKCU Registry	
SUCCESS	⚠ Turn off Let your apps automatically share and sync info with wireless devices that don't explicitly pair with y	
SUCCESS	⚠ Disable Use sign-in info to auto finish setting up device - Machine Policy	
SUCCESS	⚠ Disable Privacy Experience - Machine Policy	
SUCCESS	⚠ Disable Edge sending history - Machine Policy	
SUCCESS	⚠ Do not harvest contacts - HKCU Registry	
SUCCESS	⚠ Disable Text Collection - Machine Policy	
SUCCESS	⚠ Disable Ink Collection - Machine Policy	
SUCCESS	⚠ Disable sending a specific set of diagnostic data to Microsoft - Machine Policy	
SUCCESS	⚠ Do not show feedback notifications - Machine Policy	

SUCCESS	⚠ Disable Linguistic Collection - Machine Policy
SUCCESS	⚠ Turn off Automatically send memory dumps for OS-generated error reports - Machine Policy
SUCCESS	⚠ Disable Windows Error Reporting - Machine Policy
SUCCESS	⚠ Disable extended telemetry for the Books tab - Machine Policy
SUCCESS	⚠ Disable Microsoft Compatibility Telemetry - Scheduled Task
SUCCESS	⚠ Turn off Application Telemetry - Machine Policy
SUCCESS	⚠ Disable Telemetry Collection - Machine Policy
SUCCESS	⚠ Do not Accept Privacy Policy - HKCU Registry
▼ Windows Update (29 items)	
SUCCESS	⚠ Disable pre-release features or settings - Machine Policy
SUCCESS	⚠ Disable user control over Insider builds - Machine Policy
SUCCESS	⚠ Disable scanning for updates as user - Scheduled Task
SUCCESS	⚠ Disable scan For Updates - Scheduled Task
SUCCESS	⚠ Disable Install Service Smart Retry - Scheduled Task
SUCCESS	⚠ Disable Windows Update - Service
SUCCESS	⚠ Disable Automatic Update - Machine Policy
SUCCESS	⚠ Disable Windows Update scan access - Machine Policy
SUCCESS	⚠ Turn off access to all Windows Update features - Machine Policy

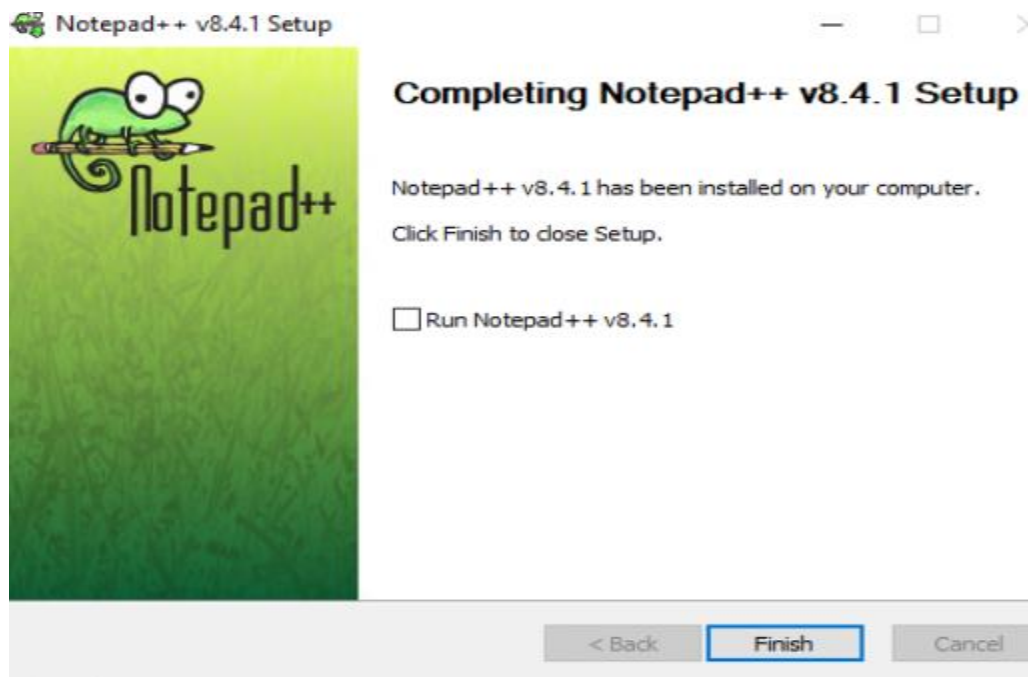
VLC Player



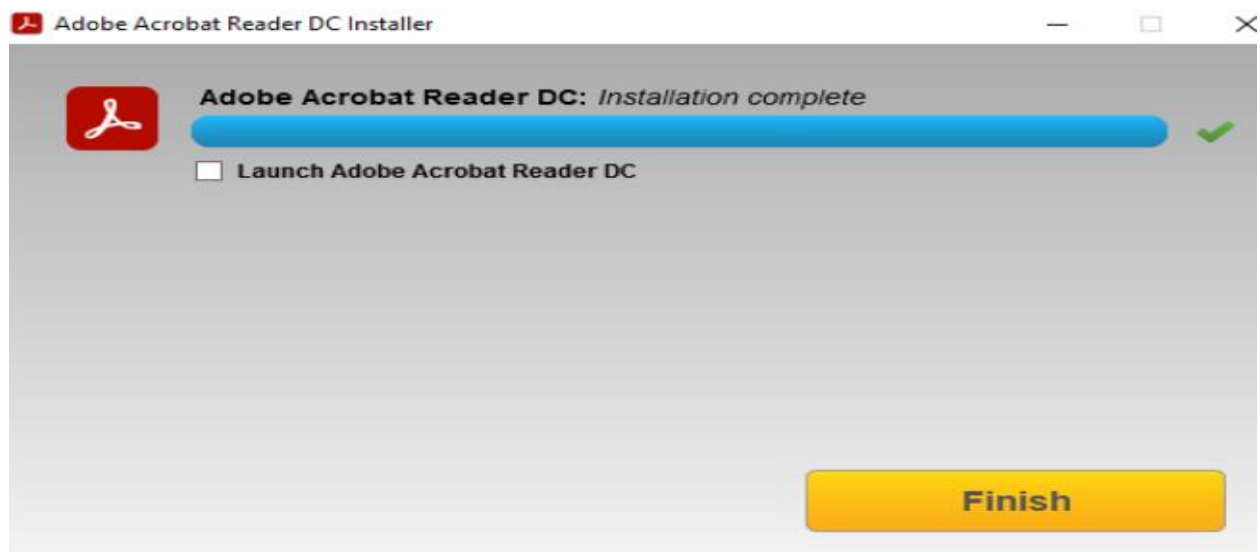
7Zip



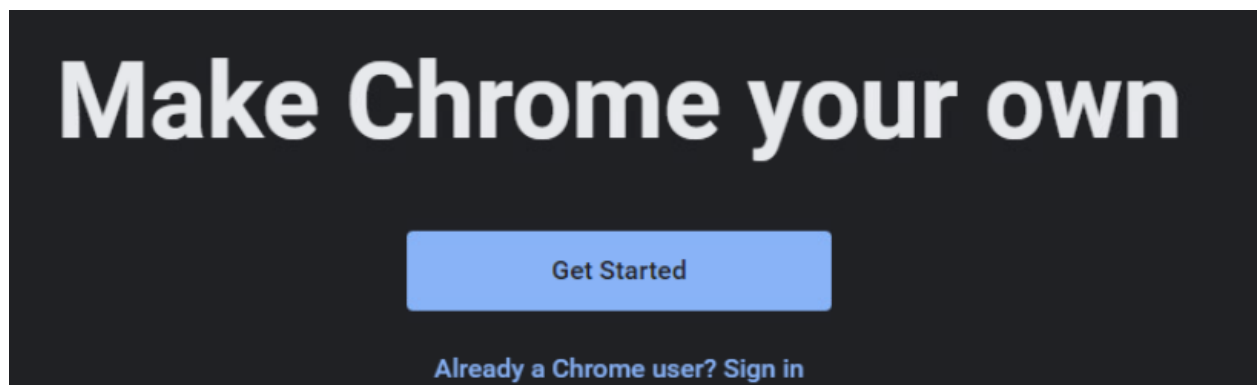
Notepad++



Adobe Reader DC

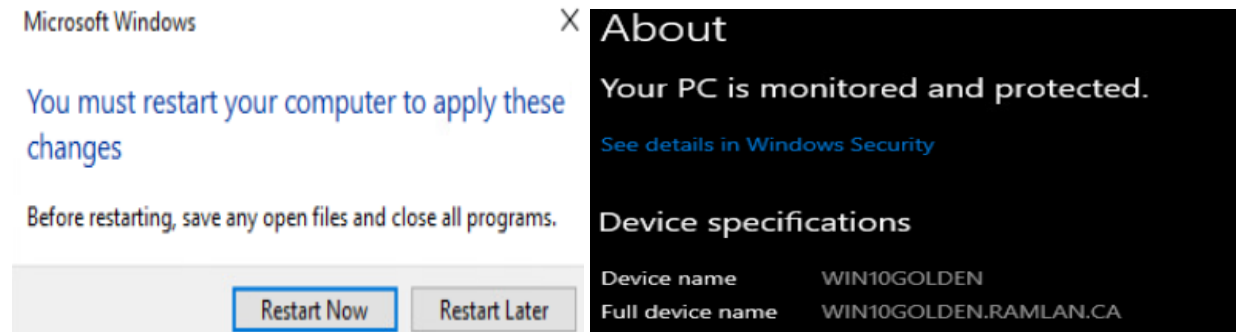


Google Chrome

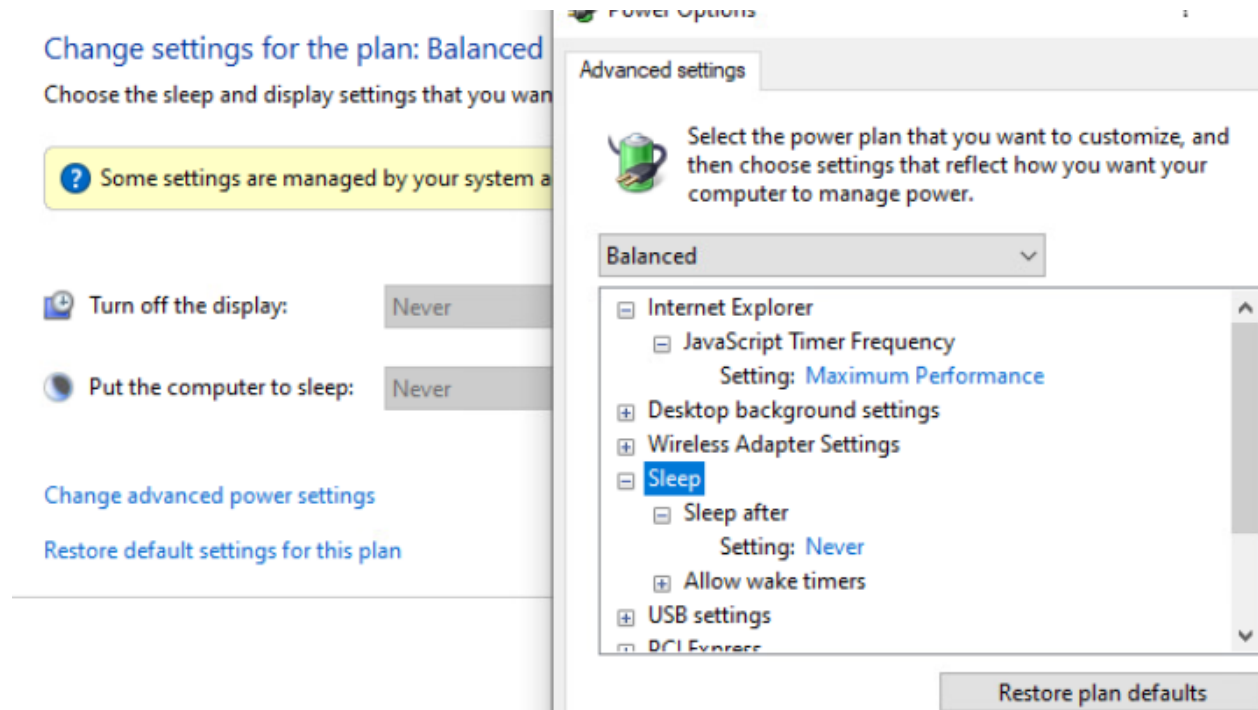


JOIN TO DOMAIN:

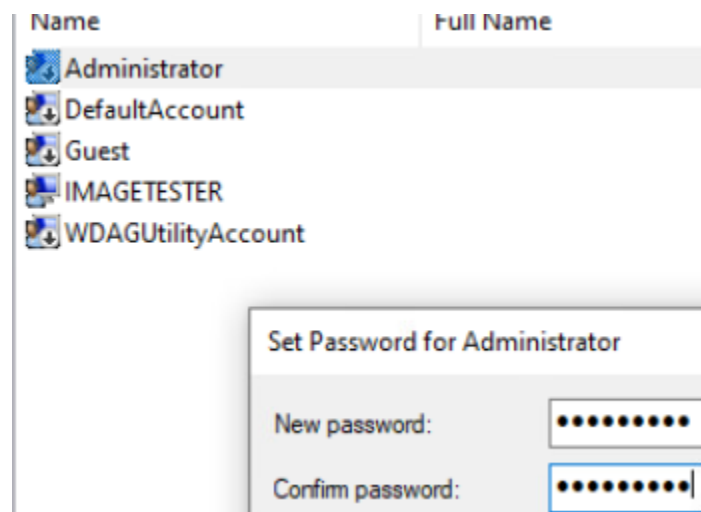
Now we can join the workstation to domain.



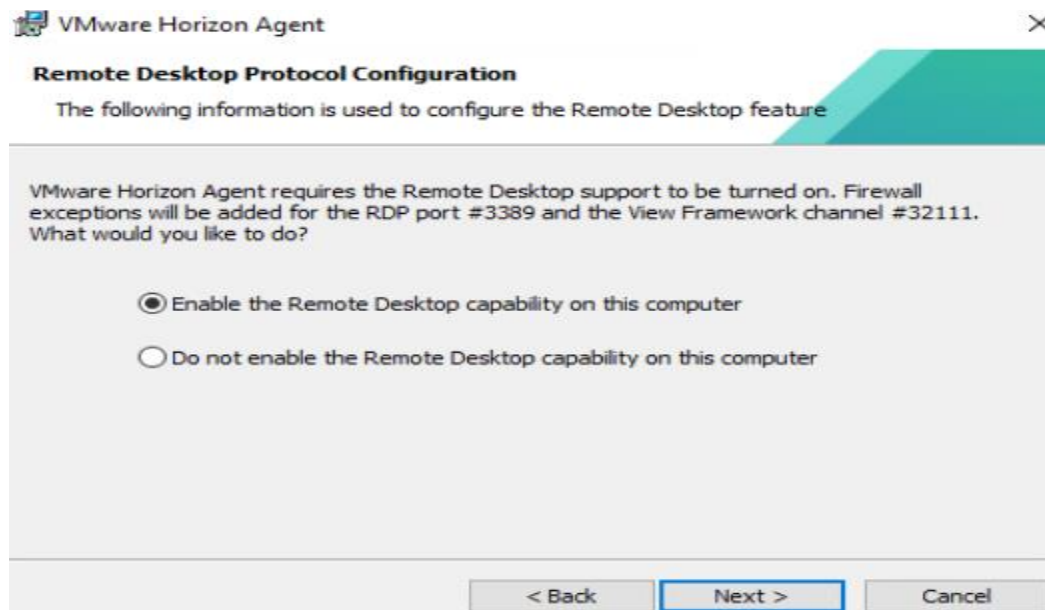
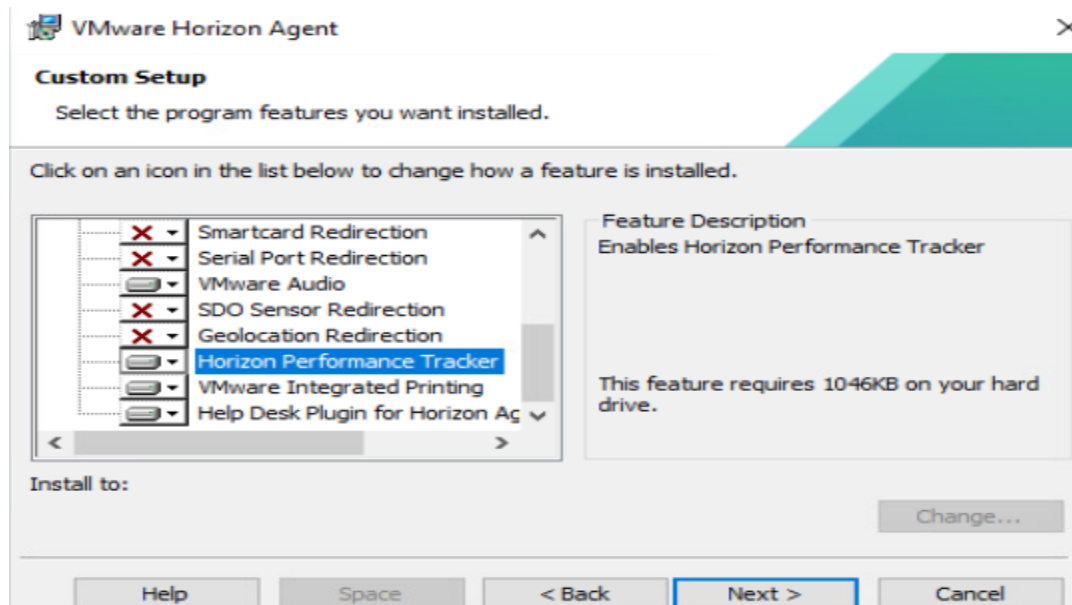
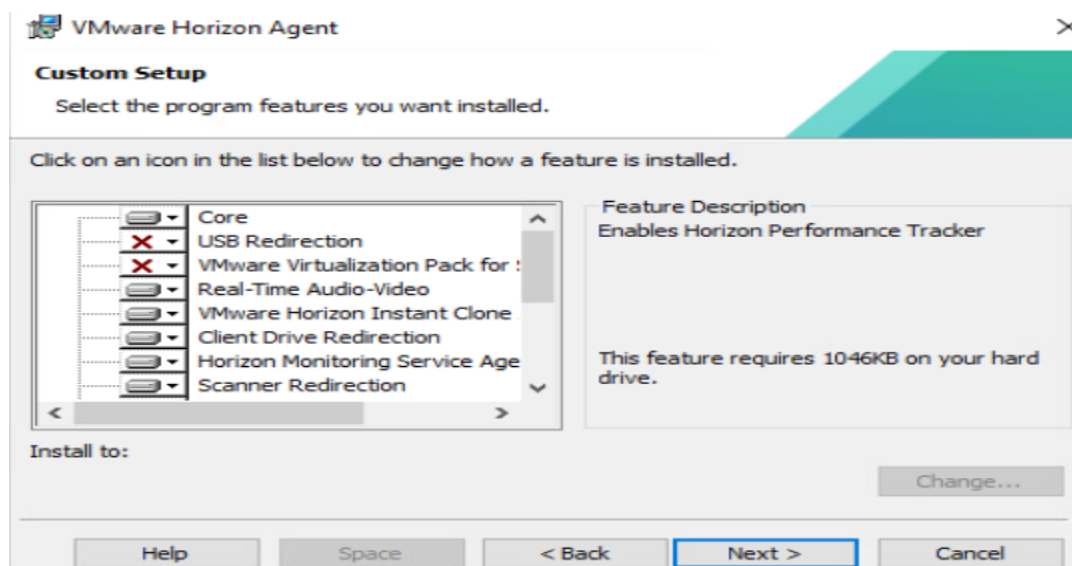
POWER SETTING:

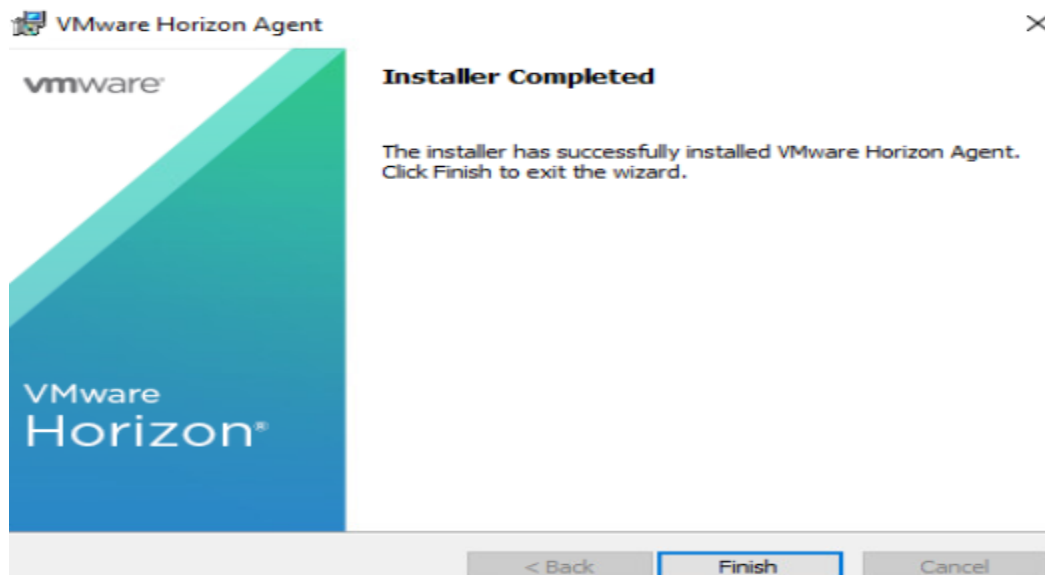


SET ADMIN PASSWORD:

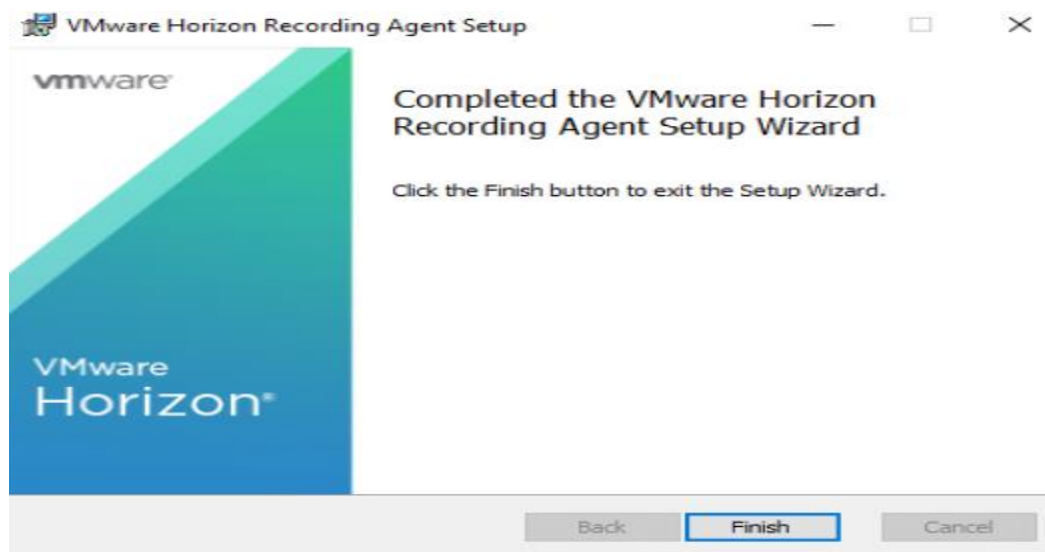


INSTALL HORIZON AGENT:





INSTALL HORIZON RECORDING AGENT:



CLEAR LOGS – I am using a batch file to clear all the logs.

This is a screenshot of a Windows command prompt window. The title bar shows 'C:\Windows\System32\cmd.exe'. On the left side, there is a blue vertical bar with a gear icon and the word 'logs' in white. The command prompt displays a list of log names to be cleared, each preceded by the word 'clearing'. The logs listed are: 'UIManager_Channel', 'Uac/Debug', 'VMware Horizon RX Audit', 'WINDOWS_KS_CHANNEL', 'WINDOWS_MFH264Enc_CHANNEL', 'WINDOWS_MP4SDECD_CHANNEL', 'WINDOWS_MSMPEG2ADec_CHANNEL', 'WINDOWS_MSMPEG2VDEC_CHANNEL', 'WINDOWS_VC1ENC_CHANNEL', 'WINDOWS_WMPHOTO_CHANNEL', 'WINDOWS_wmvdecod_CHANNEL', 'WMPSetup', 'WMPSyncEngine', 'Windows Networking Vpn Plugin Platform/Operational', 'Windows Networking Vpn Plugin Platform/OperationalVerbose', 'Windows PowerShell', and 'muxencode'. At the bottom of the window, it says 'Event Logs have been cleared! <press any key>'.

```
C:\Windows\System32\cmd.exe
clearing "UIManager_Channel"
clearing "Uac/Debug"
clearing "VMware Horizon RX Audit"
clearing "WINDOWS_KS_CHANNEL"
clearing "WINDOWS_MFH264Enc_CHANNEL"
clearing "WINDOWS_MP4SDECD_CHANNEL"
clearing "WINDOWS_MSMPEG2ADec_CHANNEL"
clearing "WINDOWS_MSMPEG2VDEC_CHANNEL"
clearing "WINDOWS_VC1ENC_CHANNEL"
clearing "WINDOWS_WMPHOTO_CHANNEL"
clearing "WINDOWS_wmvdecod_CHANNEL"
clearing "WMPSetup"
clearing "WMPSyncEngine"
clearing "Windows Networking Vpn Plugin Platform/Operational"
clearing "Windows Networking Vpn Plugin Platform/OperationalVerbose"
clearing "Windows PowerShell"
clearing "muxencode"

Event Logs have been cleared! <press any key>
```


RELEASE IP ADDRESS:

```
C:\> Command Prompt
Microsoft Windows [Version 10.0.19044.1706]
(c) Microsoft Corporation. All rights reserved.

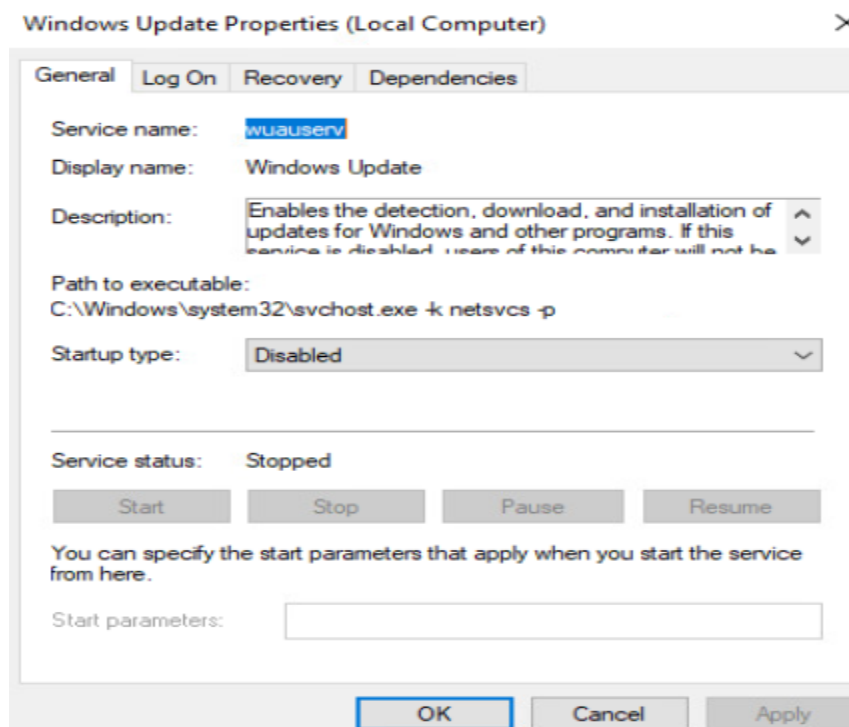
C:\Users\IMAGETESTER>ipconfig /release

Windows IP Configuration

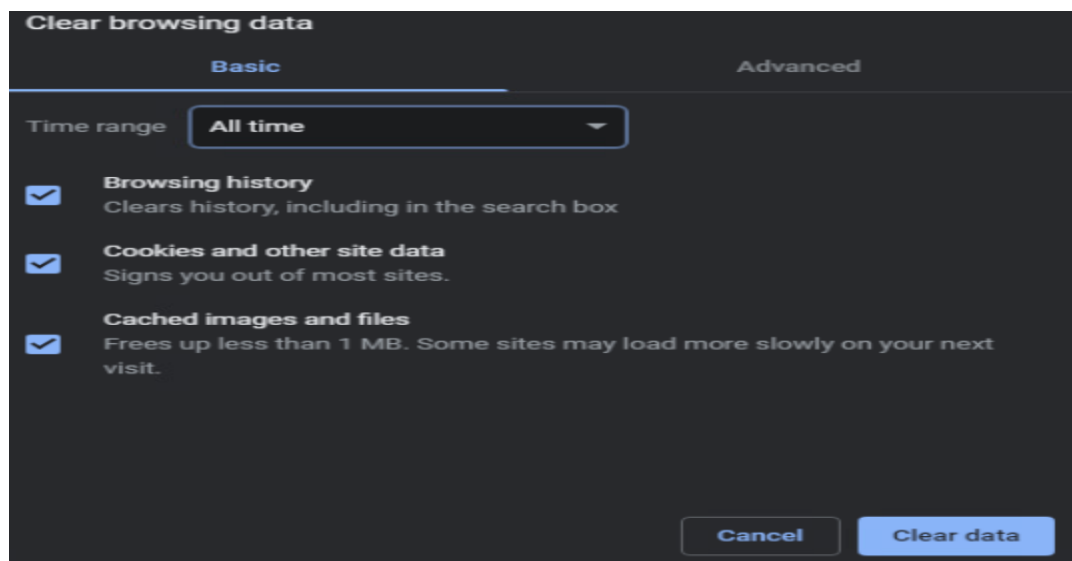
Ethernet adapter Ethernet0:

    Connection-specific DNS Suffix  . : 
    Default Gateway . . . . . : 
```

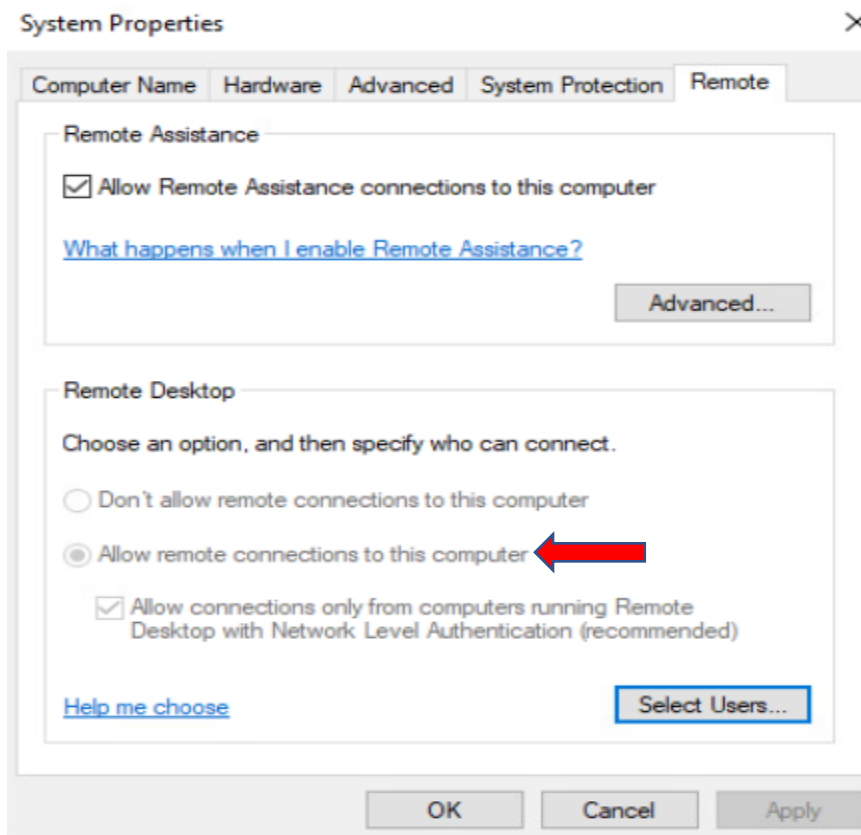
TURN OFF WINDOWS UPDATES:



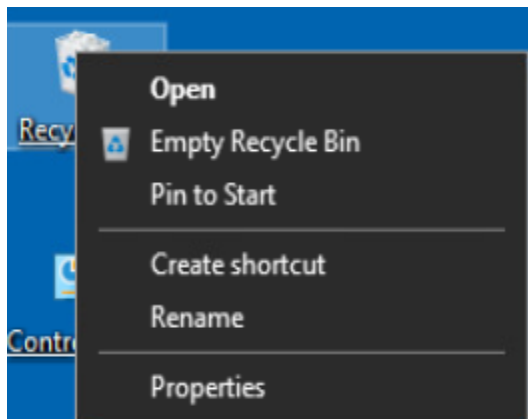
EMPTY BROWSER HISTORY:



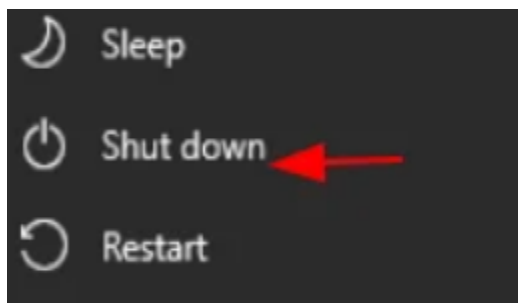
RDP Enabled:



EMPTY RECYCLE BIN:

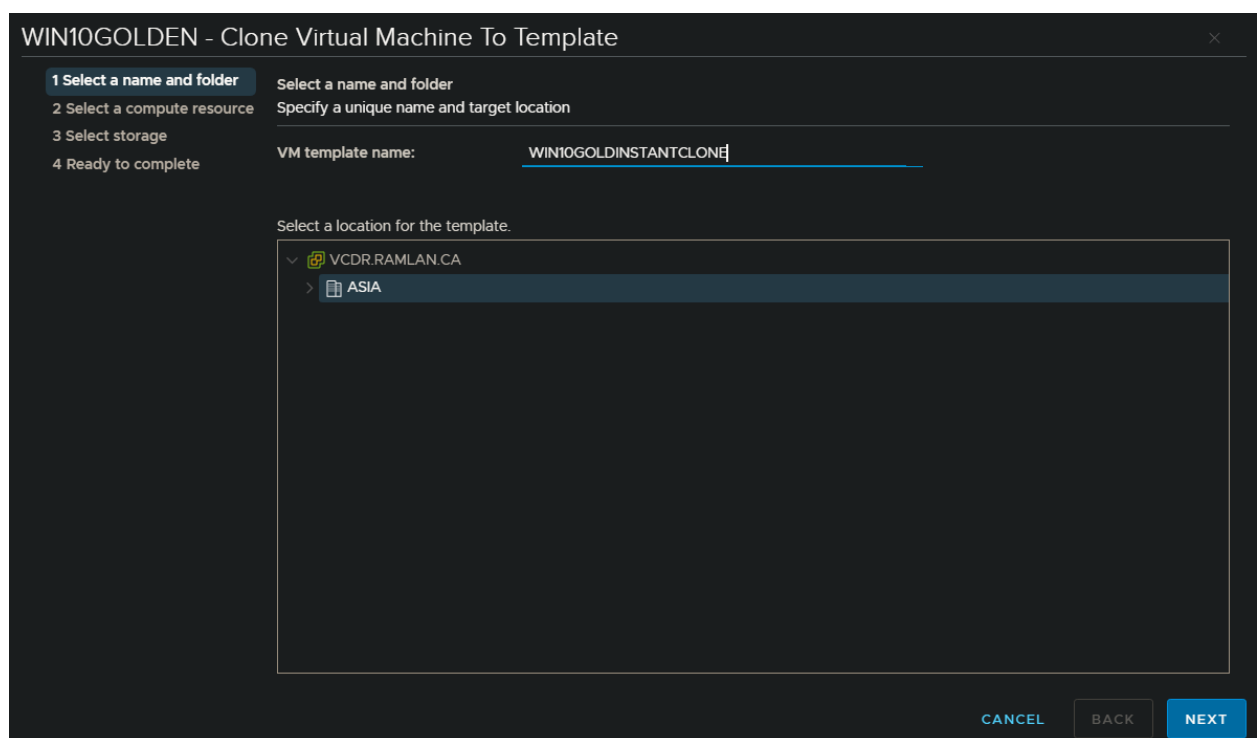
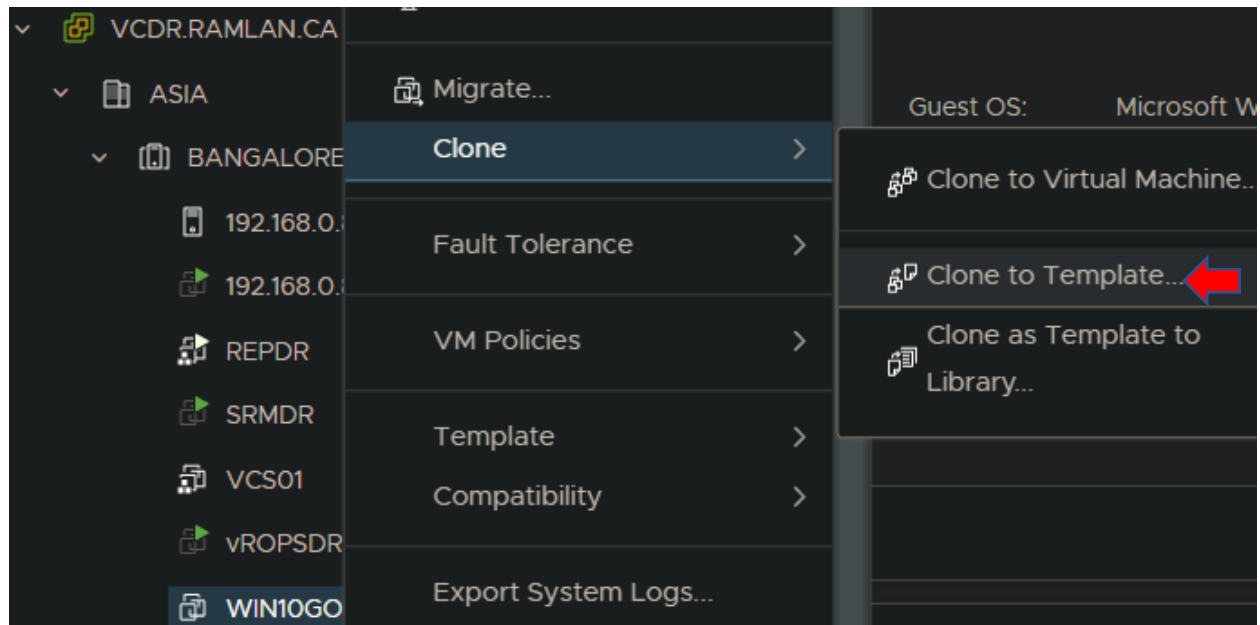


SHUTDOWN VM:



CLONE VM – GOLDEN IMAGE - We will now create a clone of this VM which then becomes a new VM with a new GUID, we will use this clone for our instant clones.

We will also create a snapshot of the base image which we are going to use for dedicated desktops (full-blown images).



WIN10GOLDEN - Clone Virtual Machine To Template

1 Select a name and folder

2 Select a compute resource

3 Select storage

4 Ready to complete

Select a compute resource

Select the destination compute resource for this operation

ASIA

BANGALORE

192.168.0.85

Compatibility

✓ Compatibility checks succeeded.

CANCELBACKNEXT

WIN10GOLDEN - Clone Virtual Machine To Template

1 Select a name and folder

2 Select a compute resource

3 Select storage

4 Ready to complete

Select storage

Select the storage for the configuration and disk files

BATCH CONFIGURE

CONFIGURE PER DISK

☐ Encrypt this virtual machine (Requires Key Management Server)

Select virtual disk format

Same format as source

VM Storage Policy

Keep existing VM storage policies

☐ Disable Storage DRS for this virtual machine

	Name	Storage Compatibility	Capacity	Provisioned	Free	Type	Cluster
<input type="radio"/>	EMCDATASTORE	--	999.75 GB	248.95 GB	750.8 GB	VMFS 6	
<input checked="" type="radio"/>	HPDATASTORE	--	1.64 TB	1.13 TB	1.47 TB	VMFS 6	

2 items

Compatibility

✓ Compatibility checks succeeded.

CANCELBACKNEXT

WIN10GOLDEN - Clone Virtual Machine To Template

1 Select a name and folder

2 Select a compute resource

3 Select storage

4 Ready to complete

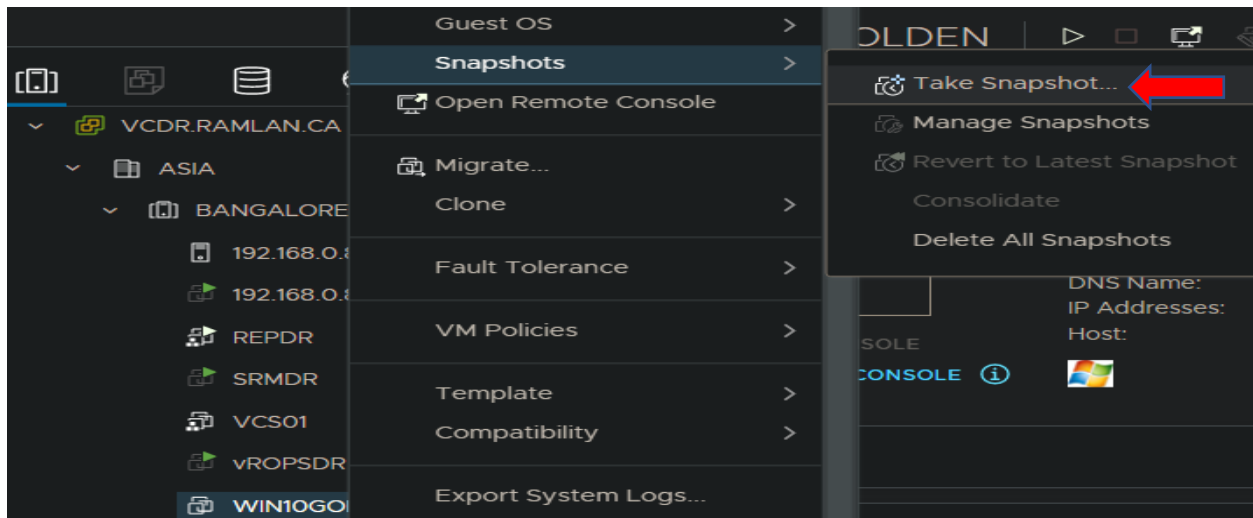
Ready to complete

Click Finish to start creation.

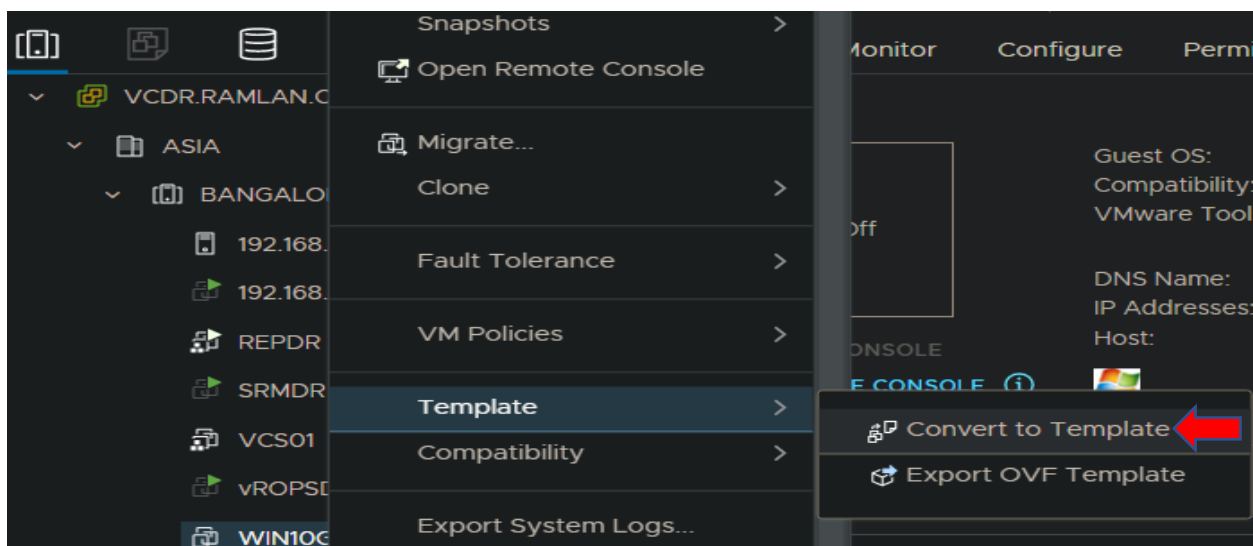
Source virtual machine	WIN10GOLDEN
Template name	WIN10GOLDINSTANTCLONE
Folder	ASIA
Host	192.168.0.85
Datastore	HPDATASTORE
Disk storage	Same format as source

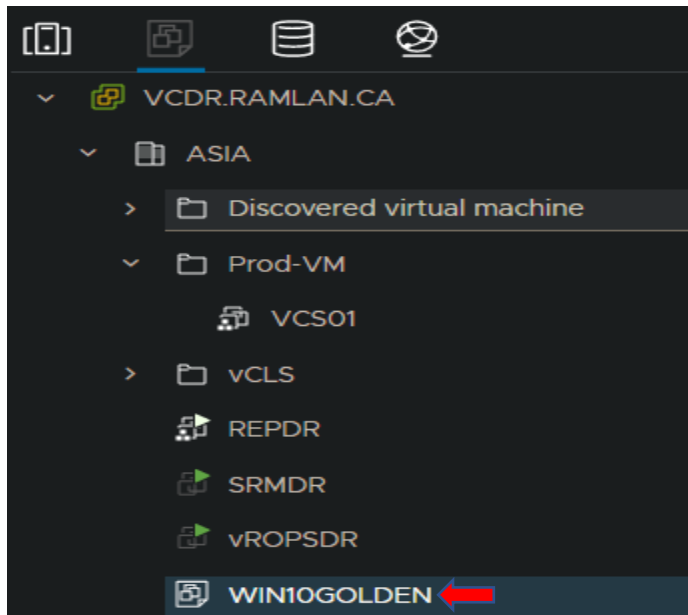
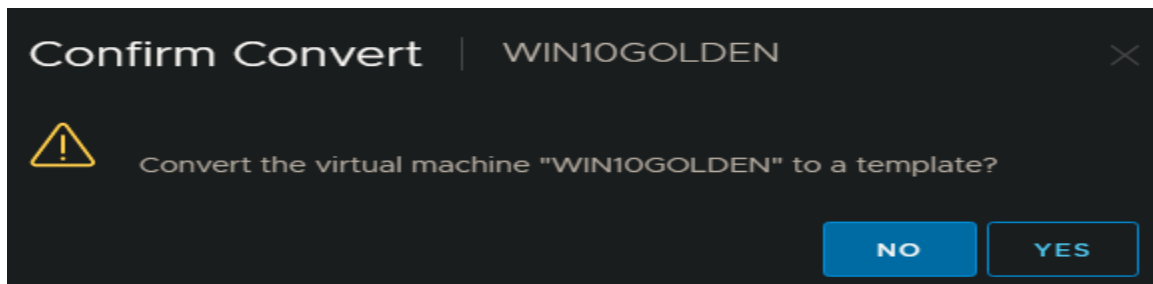
CANCELBACKFINISH

TAKE A SNAPSHOT:



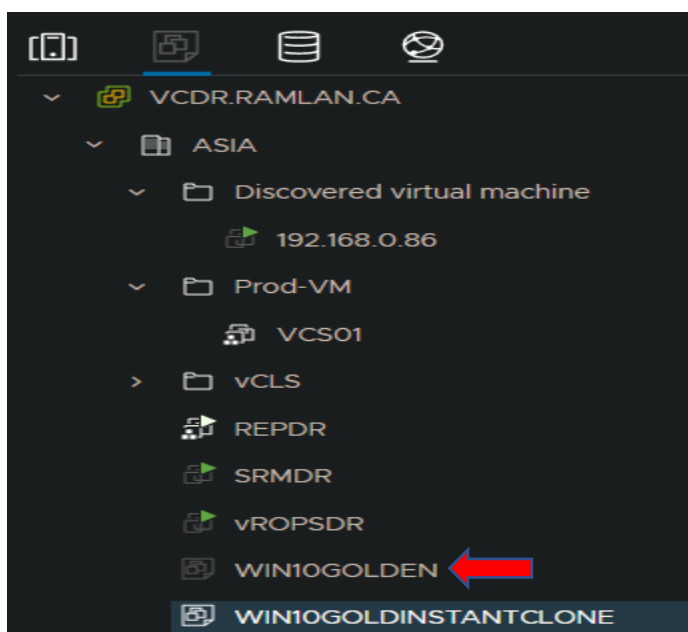
VM TEMPLATE:





DESKTOP POOL - Dedicated desktop pools contain desktops that are provisioned by the vCenter server from a master image. Dedicated desktops thus provisioned are allocated to a particular user and remains his own throughout the lifecycle of that VM.

We did create a golden image in one of our previous blogs, so we will now create a desktop for a user from the VM template we created. Because this is a full desktop, the VM provisioning from View will look the same as doing a full clone of a VM.



Desktop Pools

[Add](#)[Edit](#)[Duplicate](#)[Delete](#)[Entitlements](#) ▾[Status](#) ▾[Access Groups](#) ▾[View Unentitled](#) ▾

Add Pool

1 Type

2 vCenter Server

3 User Assignment

4 Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

☒ Automated Desktop Pool ⓘ

☐ Manual Desktop Pool ⓘ

☐ RDS Desktop Pool ⓘ

Cancel

Previous

Next

Add Pool

✓ Type

2 vCenter Server

3 User Assignment

4 Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

☐ Instant Clone ⓘ

☒ Full Virtual Machines ⓘ

vCenter Server
<input checked="" type="radio"/> 192.168.0.76

Rows per page 20 ▾ 1 - 1 of 1 row(s)

Description

VCPD - Production Server

Cancel

Previous

Next

Add Pool

✓ Type

✓ vCenter Server

3 User Assignment

4 Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

Floating ⓘ

☒ Dedicated ⓘ

☒ Enable Automatic Assignment

☐ Enable Multi-User Assignment ⓘ

Automatic assignment is not supported for multi-user assignment pools.

Cancel

Previous

Next

Add Pool

✓ Type

✓ vCenter Server

✓ User Assignment

4 Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

Storage Policy Management ⓘ

☐ Use VMware Virtual SAN

☐ Do not use VMware Virtual SAN

⚠ Virtual SAN is not available because no Virtual SAN datastores are configured.

Cancel

Previous

Next

Add Pool - WIN10_Dedicated_Full

✓ Type

✓ vCenter Server

✓ User Assignment

✓ Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

Asterisk (*) denotes required field

* ID ⓘ

WIN10_Dedicated_Full

Display Name ⓘ

Win 10 Desktop

Access Group ⓘ

/

Description

Cancel

Previous

Next

Add Pool - WIN10_Dedicated_Full

Type

vCenter Server

User Assignment

Storage Optimization

Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

Asterisk (*) denotes required field

Basic

☒ Enable Provisioning ⓘ

☒ Stop Provisioning on Error

Virtual Machine Naming ⓘ

☐ Specify Names Manually

0 names entered Enter Names


☐ Start machines in maintenance mode

Unassigned Machines Kept Powered On

1

☒ Use a Naming Pattern ⓘ

* Naming Pattern

Win10-Desk-{n} 

Provision Machines

☐ Machines on Demand

Min Number of Machines 1

Add Pool - WIN10_Dedicated_Full

Type

vCenter Server

User Assignment

Storage Optimization

Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

Unassigned machines kept powered on

1

☒ Use a Naming Pattern ⓘ

* Naming Pattern

Win10-Desk-{n}

Provision Machines


☐ Machines on Demand

Min Number of Machines 1

☒ All Machines Up-Front

Desktop Pool Sizing

* Maximum Machines

2 

* Spare (Powered On) Machines

1

Virtual Device

☐ Add vTPM Device to VMs ⓘ


Cancel Previous Next

Select template

Select a template from which to deploy virtual machines for this pool. Only templates with a supported OS can be selected.

Filter 

Template	Path
<input checked="" type="radio"/> WIN10GOLDEN	/ASIA/vm/WIN10GOLDEN
<input type="radio"/> WIN10GOLDINSTANTCLONE	/ASIA/vm/WIN10GOLDINSTANTCLONE

 Rows per page 20 1 - 2 of 2 rows

Submit Cancel

×



Cancel

×



Cancel

×

Cancel

×

Individual Datastore

✓ 1

☐

Select all Pages

20

1 - 2 of 2 rows

Cancel

Add Pool - WIN10_Dedicated_Full

✓ Type

✓ vCenter Server

✓ User Assignment

✓ Storage Optimization

✓ Desktop Pool Identification

✓ Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

Virtual Machine Template

* Template
/ASIA/vm/WIN10GOLDEN Browse

Virtual Machine Location

* VM Folder Location
/ASIA/vm/Prod-VM Browse

Resource Settings

* Host or Cluster
/ASIA/host/BANGALORE Browse

* Resource Pool
/ASIA/host/BANGALORE/Resources Browse

* Datastores
1 selected Browse

Cancel Previous Next

State

Enabled

Connection Server Restrictions

None

Browse

Category Folder

None

Browse

Client Restrictions ☐ Enabled

Session Types

Desktop



Remote Machine Power Policy

Take no power action



Log Off After Disconnect

Immediately

Add Pool - WIN10_Dedicated_Full

✓ Type

✓ vCenter Server

✓ User Assignment

✓ Storage Optimization

✓ Desktop Pool Identification

✓ Provisioning Settings

✓ vCenter Settings

8 Desktop Pool Settings

Connection Server Restrictions

None Browse

Category Folder

None Browse

Client Restrictions ☐ Enabled

Session Types

Desktop ⓘ

Remote Machine Power Policy

Take no power action ⓘ

Log Off After Disconnect

Immediately

Allow Users to Restart Machines

No

☐ Show Assigned Machine Name ⓘ

☐ Show Machine Alias Name ⓘ

Cancel Previous Next

Remote Display Protocol

Default Display Protocol

VMware Blast

Allow Users to Choose Protocol

Yes

3D Renderer

Disabled

VRAM Size

96

MB

More VRAM can improve 3D performance.

Maximum number of monitors

2

Might require power cycle of related virtual machines. ⓘ

Maximum Resolution of Any One Monitor

1920x1200

Add Pool - WIN10_Dedicated_Full

✓ Desktop Pool Identification

✓ Provisioning Settings

✓ vCenter Settings

✓ Desktop Pool Settings

9 Remote Display Settings

10 Advanced Storage Options

11 Guest Customization

12 Ready to Complete

Default Display Protocol

VMware Blast

Allow Users to Choose Protocol

Yes

3D Renderer

Disabled ⓘ

VRAM Size

96

MB

More VRAM can improve 3D performance.

Maximum number of monitors

2 ⓘ

Might require power cycle of related virtual machines. ⓘ

Maximum Resolution of Any One Monitor

1920x1200 ⓘ

Might require power cycle of related virtual machines. ⓘ

Allow Session Collaboration

☒ Enabled ⓘ

Requires VMware Blast Protocol.

Cancel

Previous

Next

Add Pool - WIN10_Dedicated_Full

✓ Desktop Pool Identification

✓ Provisioning Settings

✓ vCenter Settings

✓ Desktop Pool Settings

✓ Remote Display Settings

10 Advanced Storage Options

11 Guest Customization

12 Ready to Complete

The following features are recommended based on your resource selection. Options that are not supported by the selected hardware are disabled.

☒ Use View Storage Accelerator

Regenerate Storage Accelerator After

7

Days

Blackout Times

Storage accelerator regeneration and VM disk space reclamation do not occur during blackout times. The same blackout policy applies to both operations.

Add

Edit

Delete

Day	Time
No records available.	

Rows per page 20 0 rows

Cancel

Previous

Next

Add Pool - WIN10_Dedicated_Full

Desktop Pool Identification

Provisioning Settings

vCenter Settings

Desktop Pool Settings

Remote Display Settings

Advanced Storage Options

11 Guest Customization


12 Ready to Complete

☐ None - Customization will be done manually

☐ Do not Power on Virtual Machines After Creation

☒ Use this customization specification

☐ Allow Reuse of Existing Computer Accounts ⓘ

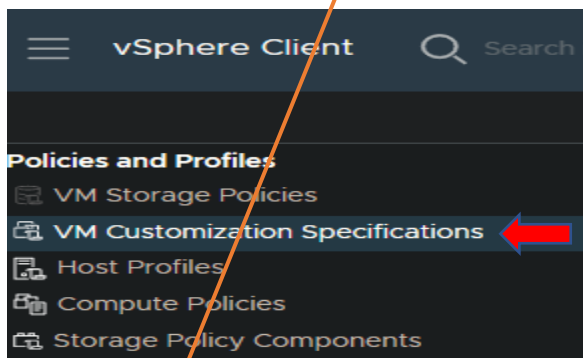


Name	Guest OS	Description
HorizonWin10	Windows	

Rows per page: 20 1 - 1 of 1 row(s)

Cancel Previous Next

I used this customization for the above. You can create one from vCenter -



HorizonWin10 - Editing

Name and target OS

Registration information

Computer name	Name	HorizonWin10
Windows license	Target guest OS	Windows
Administrator password	OS options	Generate new security ID
Time zone	Registration info	Owner name: Administrator Organization: RAMLAN INC.
Commands to run once	Computer name	Use Virtual Machine name
Network	Product key	No product key specified
Workgroup or domain	Administrator access	Do not log in automatically as Administrator
Ready to complete	Time zone	(UTC-05:00) Eastern Time (US & Canada)
	Network type	Standard
	Windows Server domain	RAMLAN.CA Username: administrator



☐ Entitle Users After Adding Pool

Type Automated Desktop Pool

User Assignment Dedicated Assignment

Assign on First Login Yes

Enable Multi-User Assignment No

vCenter Server 192.168.0.86

Unique ID WIN10_Dedicated_Full

Description -

Display Name Win 10 Desktop

Access Group /

Desktop Pool State Enabled

Session Types Desktop

Show Assigned Machine Name Disabled

Show Machine Alias Name Disabled

Client Restrictions Disabled

Remote Machine Power Policy Take no power action

Log Off After Disconnect Immediately

Connection Server Restrictions None

Category Folder None

Allow Users to Restart Machines No

Default Display Protocol VMware Blast

Allow Users to Choose Protocol Yes

3D Renderer Disabled

VRAM Size	96.00 MB
Maximum number of monitors	2
Maximum Resolution of Any One Monitor	1920x1200
Allow Session Collaboration	Enabled
Enable Provisioning	Yes
Stop Provisioning on Error	Yes
VM Naming Pattern	Win10-Desk-{n}
Provision All Machines Up-Front	No
Maximum Machines	2
Spare (Powered On) Machines	1
Add vTPM Device to VMs	No
Template	/ASIA/vm/WIN10GOLDEN

Add Pool - WIN10_Dedicated_Full

✓ Desktop Pool Identification	Template	/ASIA/vm/WIN10GOLDEN
✓ Provisioning Settings	VM Folder Location	/ASIA/vm/Prod-VM
✓ vCenter Settings	Host or Cluster	/ASIA/host/BANGALORE
✓ Desktop Pool Settings	Resource Pool	/ASIA/host/BANGALORE/Resources
✓ Remote Display Settings	Datastores	/ASIA/host/BANGALORE/HPDATASTORE
✓ Advanced Storage Options	Use VMware Virtual SAN	No
✓ Guest Customization	Guest Customization	HorizonWin10
12 Ready to Complete	Do not Power on Virtual Machines After Creation	No
	Use View Storage Accelerator	Yes
	Regenerate Storage Accelerator After	7 days
	View Storage Accelerator Blackouts	-
	Transparent Page Sharing Scope	Virtual Machine

Now the Desktop Pool is created, provisioning, customizing and it is available for use.

Desktop Pools

Add

Edit

Duplicate

Delete

Entitlements

Status


Access Groups

View Unentitled

Access Group

All

Filter

<input type="checkbox"/>	ID	Display Name	Type	Source	User Assignment	vCenter Server	Entitled
<input type="checkbox"/>	 WIN10 Dedicated Full	Win 10 Desktop	Automated Desktop Pool	vCenter	Dedicated Assignment	192.168.0.86	0

Machines

vCenter

RDS Hosts

Others

Restart Desktop

Reset Virtual Machine

Recover

Rebuild

Remove

More Commands

Machine

All

Access Group

All

Filter

Machine Name	Connected User	Assigned User	Machine Alias	Host	Agent Version	Datastore	Status
					Unknown		Provisioning

Machines

vCenter

RDS Hosts

Others

Restart Desktop

Reset Virtual Machine

Recover

Rebuild

Remove

More Commands

Machine

All

Access Group

All

Filter

Machine Name	Connected User	Assigned User	Machine Alias	Host	Agent Version	Datastore	Status
				192.168.0.85	Unknown	2 ...	Customizing

Machines

vCenter

RDS Hosts

Others

Restart Desktop

Reset Virtual Machine

Recover

Rebuild

Remove

More Commands

Machine

All

Access Group

All

Filter

Machine Name	Connected User	Assigned User	Machine Alias	Host	Agent Version	Datastore	Status
Win10-Desk-1.ramlan.ca				192.168.0.85	8.4.0-19066669	2 ...	Available

On the Connection Server – Events will give you the status what is going on as detailed below.

Events

Maximum Events

2000

☐ Time in UTC

☐ Retrieve Event Objects

Updated 05/12/2022, 10:45 AM

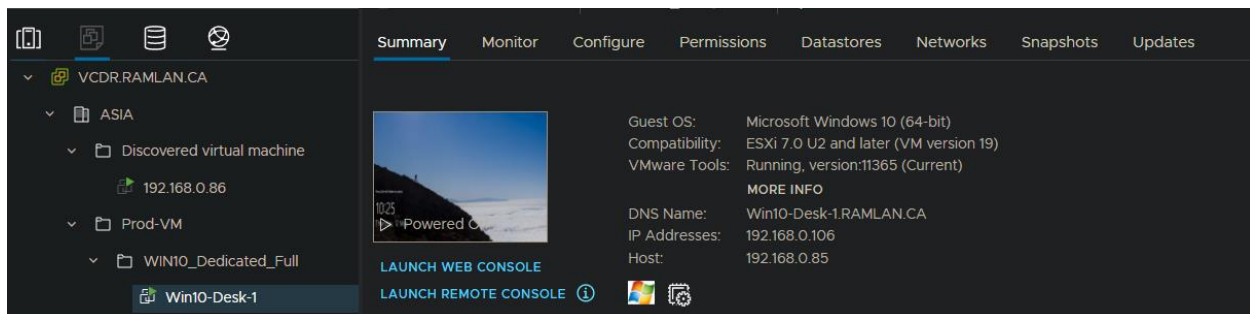
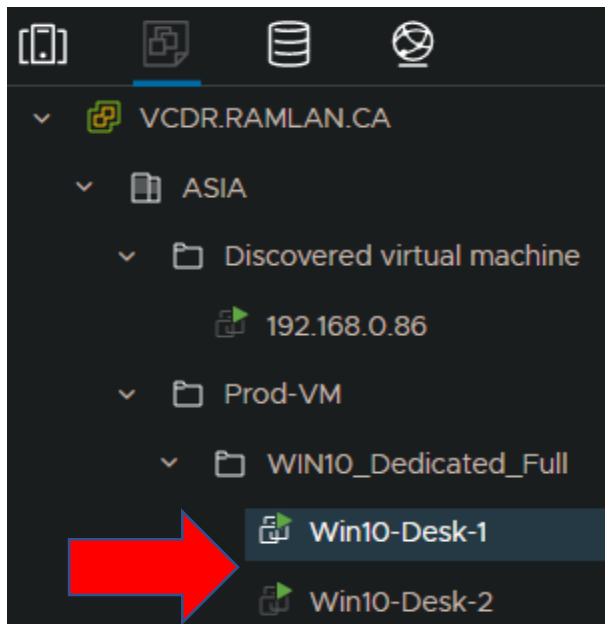
Filters

TimePeriod: Last 2 days

Clear All

User	Severity	Time	Module	Source	Message
	Info	05/12/2022, 10:41 AM	Connection Server	VCS01.RAMLAN.CA	Successfully configured video settings for Machine VM Win10-Desk-2 in Pool WIN10-Dedicated-Full
	Info	05/12/2022, 10:41 AM	Connection Server	VCS01.RAMLAN.CA	Successfully configured page sharing settings for Machine VM Win10-Desk-2 in Pool WIN10-Dedicated-Full
	Info	05/12/2022, 10:41 AM	Connection Server	VCS01.RAMLAN.CA	Successfully configured ScreenDMA config option for VM Win10-Desk-2 in Pool WIN10-Dedicated-Full
RAMLAN\Inoor	Info	05/12/2022, 10:40 AM	Agent	Win10-Desk-1.RAMLAN.CA	User RAMLAN\Inoor has logged in to a new session on machine Win10-Desk-1
RAMLAN\Inoor	Info	05/12/2022, 10:39 AM	Agent	Win10-Desk-1.RAMLAN.CA	The agent running on machine Win10-Desk-1 has accepted an allocated session for user RAMLAN\Inoor
RAMLAN\Inoor	Info	05/12/2022, 10:38 AM	Connection Server	VCS01.RAMLAN.CA	User RAMLAN\Inoor requested Pool win10_dedicated_full, allocated machine Win10-Desk-1
RAMLAN\Inoor	Info	05/12/2022, 10:38 AM	Connection Server	VCS01.RAMLAN.CA	User RAMLAN\Inoor requested Pool win10_dedicated_full
RAMLAN\Inoor	Audit success	05/12/2022, 10:38 AM	Connection Server	VCS01.RAMLAN.CA	User RAMLAN\Inoor has logged in
RAMLAN\CA\ram	Audit success	05/12/2022, 10:33 AM	Vlsi	VCS01.RAMLAN.CA	RAMLAN\CA\ram entitled RAMLAN\CA\Inoor to desktop Win 10 Desktop
RAMLAN\CA\ram	Audit success	05/12/2022, 10:31 AM	Vlsi	VCS01.RAMLAN.CA	RAMLAN\CA\ram entitled RAMLAN\CA\Domain Users to desktop Win 10 Desktop
RAMLAN\CA\ram	Audit success	05/12/2022, 10:29 AM	Vlsi	VCS01.RAMLAN.CA	RAMLAN\CA\ram unentitled RAMLAN\CA\Domain Users from desktop Win 10 Desktop
	Warning	05/12/2022, 10:28 AM	Connection Server	VCS01.RAMLAN.CA	Broker VCS01.RAMLAN.CA has been detected as being configured with a small amount of free space
RAMLAN\CA\ram	Audit success	05/12/2022, 10:28 AM	Vlsi	VCS01.RAMLAN.CA	RAMLAN\CA\ram entitled RAMLAN\CA\Domain Users to desktop Win 10 Desktop
	Info	05/12/2022, 10:26 AM	Agent	Win10-Desk-1.RAMLAN.CA	Machine Win10-Desk-1 has been successfully reconfigured
	Info	05/12/2022, 10:24 AM	Agent	Win10-Desk-1.RAMLAN.CA	The agent running on machine Win10-Desk-1 has contacted the connection server
	Info	05/12/2022, 10:14 AM	Connection Server	VCS01.RAMLAN.CA	Successfully configured video settings for Machine VM Win10-Desk-1 in Pool WIN10-Dedicated-Full

You can see the desktops are visible in vCenter.



ASSIGNING USERS TO DESKTOP POOL - Our desktops are ready but for users to connect to the desktop, we will need to grant them permissions. Select the Desktop Pools – Click Entitlements – Add Entitlements.

Desktop Pools

Buttons: Add, Edit, Duplicate, Delete, Entitlements (selected), Status, Access Groups, View Unentitled

Access Group: All

Dropdown menu for Entitlements: Add Entitlements, Remove Entitlements

ID	Display Name	Type	Source	User Assignment	vCenter Server
WIN10_Dedicated_Full	Win 10 Desktop	Automated Desktop Pool	vCenter	Dedicated Assignment	192.168.0.86

Add Entitlements

Add new users and groups who can use the selected pool(s).

Buttons: Add, Remove

×

Cancel OK

×

Cancel OK

ID	Display Name	Type	Source	User Assignment	vCenter Server	Entitled
WIN10_Dedicated_Full	Win 10 Desktop	Automated Desktop Pool	vCenter	Dedicated Assignment	192.168.0.86	2

ACCESSING VDI DESKTOP BY USERS - In order to access the VDI Desktop, users can log in through Edge or Chrome or Firefox browser or via horizon client from their laptop and type in connection server.


VMware Horizon HTML Access

HTML access is via VMware's Blast protocol.

<https://vcs01.ramlan.ca>


I am going to access above URL from another laptop using the browser and see what happens.


← → ↻ 🔒 https://vcs01.ramlan.ca



VMware Horizon


You can connect to your desktop and applications by using the VMware Horizon Client or through the browser.

The VMware Horizon Client offers better performance and features.


Install VMware Horizon Client





VMware Horizon HTML Access
☐ Check here to skip this screen and always use HTML Access.


VMware Horizon

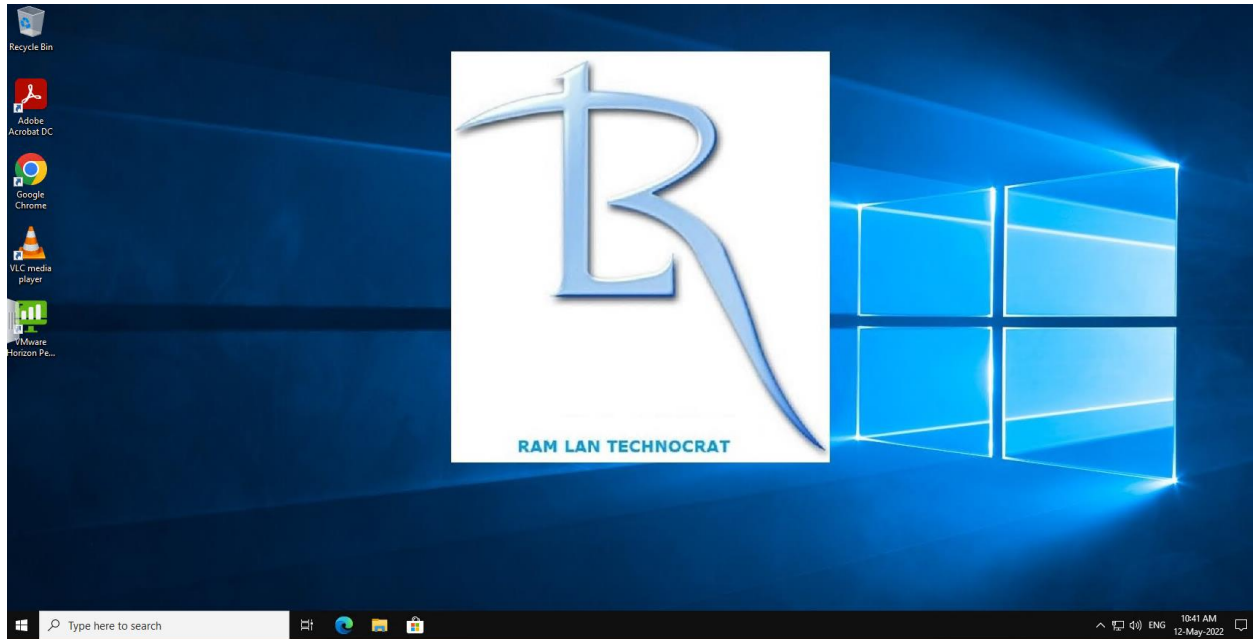
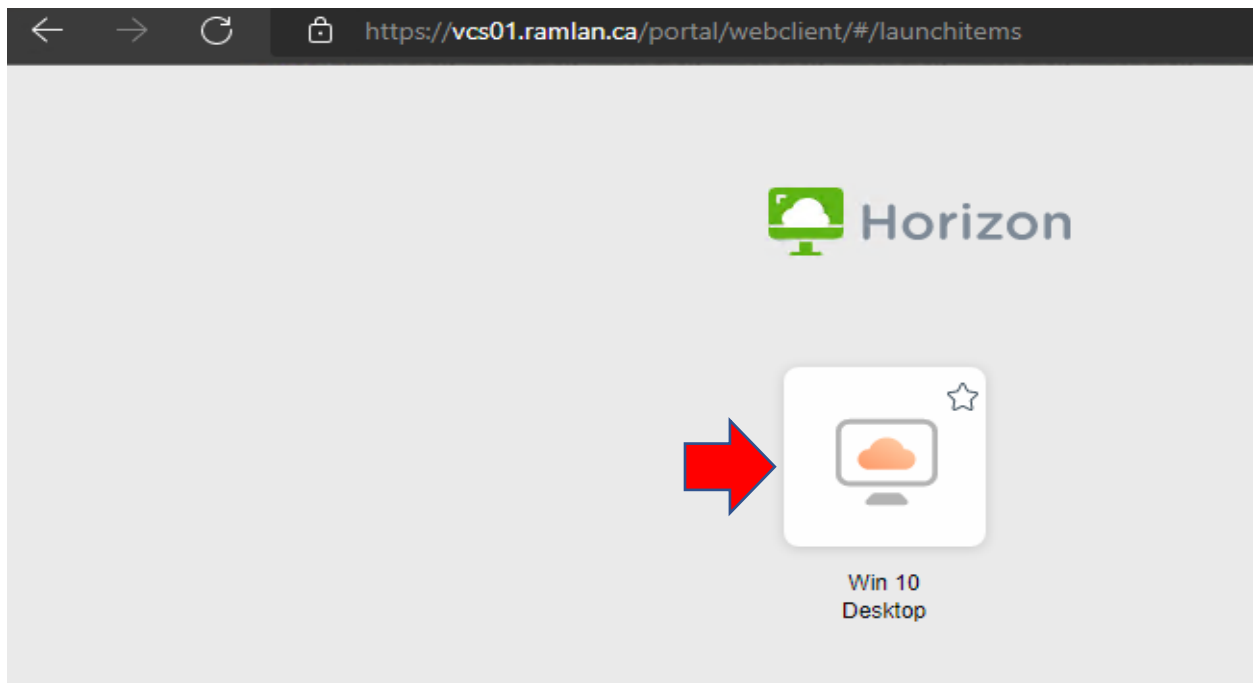
Login

Cancel


VMware Horizon

WELCOME TO INFOTECHRAM INC VDI INFRASTRUCTURE

Accept



About

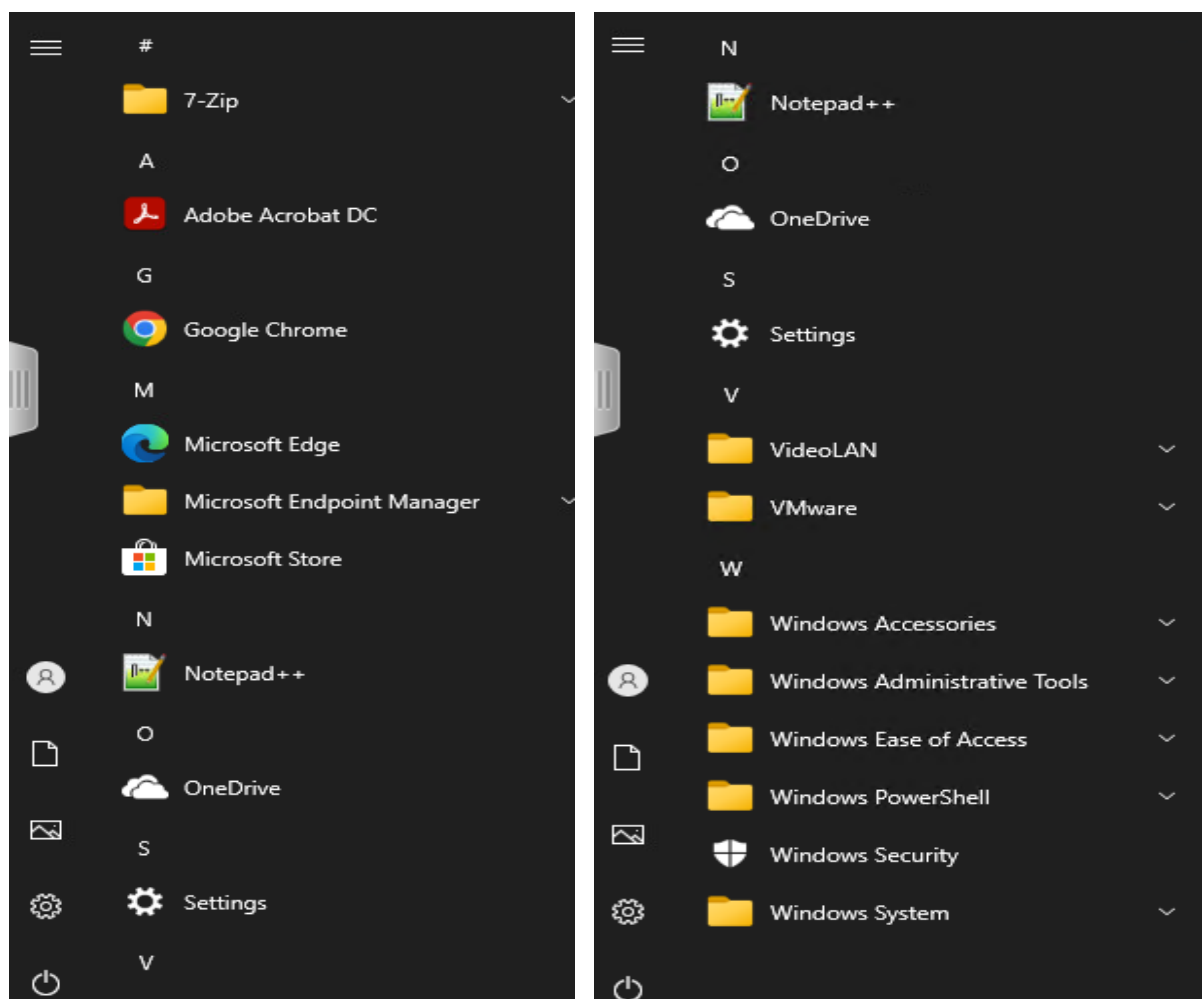
Your PC is monitored and protected.

[See details in Windows Security](#)

Device specifications

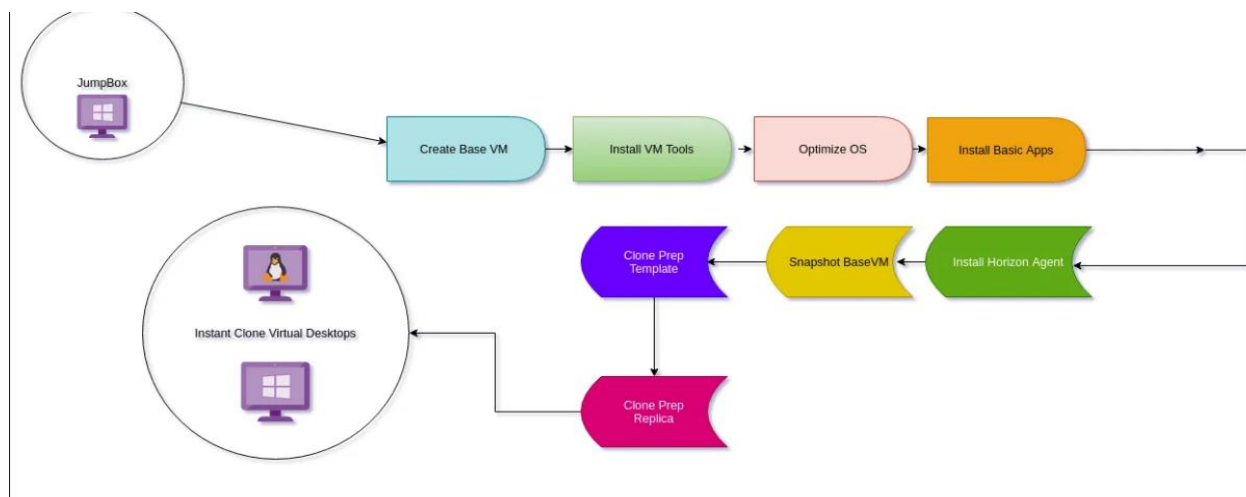
Device name  Win10-Desk-1
Full device name  Win10-Desk-1.RAMLAN.CA

All the applications we installed on the golden image are available for the users.



FLOATING DESKTOP POOL USING INSTANT CLONE - Instant Clone provisions in few minutes using the VMware fork technology. Comparing itself to the old Linked Clones in old Horizon versions, the typical issues with Boot Storms are eliminated as instant clones are always live and ready for use.

We did create a golden template in one of our previous blogs, so we will now create a desktop for a user from the VM template we created. Instant Clones can be deployed either as a floating desktop or as a dedicated desktop.



Prerequisites of Instant Clone

- An Instant Clone Domain Account
- VMotion, VMware High Availability, and vSphere Distributed Resource Scheduler (DRS) are not supported
- Solid-State Disks (SSDs) or NVme to be used for Instant Clones
- If you have a cluster of two or more ESXi hosts with local datastores, select the local datastore from each of the hosts in the cluster. Instant clone creation fails otherwise.

Advantages of Instant Clone

- Instant Clone uses VMware fork technology which provisions VM in minutes.
- Load on vCenter is less
- No need to recomposing or refresh operations for Instant Clones

Create Instant Clone Domain Accounts – Login to Connection Server – Inventory – Domains – Instant Clone Domain Accounts – Add

Domains

Instant Clone Engine Domain Accounts

Connection Server

Domain Bind

Add

Edit

Remove

Domains

Instant Clone Engine Domain Accounts

Connection Server

Domain Bind

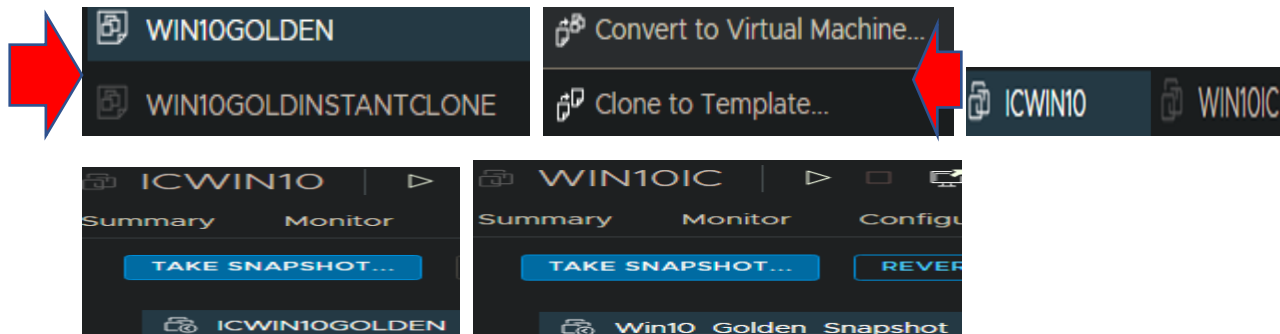
Add

Edit

Remove

	Domain	User
<input type="radio"/>	RAMLAN.CA	ram
<input type="radio"/>	RAMLAN.CA	administrator

When, I started creating Desktop Instant Pool – I had issue to select the golden image for Instant Clone. So, I selected Golden Image – Clone to Template and then Convert to VM. I named it as WIN10IC and as a backup did another one as well ICWIN10. Then took a snapshot of each and named it accordingly.



Now, I can select either one for this exercise.

Add Pool - Instant-Clone-Win10

Type

vCenter Server

3 User Assignment

4 Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

9 Remote Display Settings

☒ Automated Desktop Pool ⓘ

☐ Manual Desktop Pool ⓘ

☐ RDS Desktop Pool ⓘ

Cancel

Previous

Next

Add Pool - Instant-Clone-Win10

Type

vCenter Server

3 User Assignment

4 Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

9 Remote Display Settings

☒ Instant Clone ⓘ

☐ Full Virtual Machines ⓘ

vCenter Server
192.168.0.86

Rows per page 20 1 - 1 of 1 row(s)

Description
VCDR - Recovery Server

Cancel

Previous

Next

Add Pool - Instant-Clone-Win10

Type

vCenter Server

3 User Assignment

4 Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

9 Remote Display Settings

☒ Floating ⓘ

☐ Dedicated ⓘ

☒ Enable Automatic Assignment

☐ Enable Multi-User Assignment ⓘ
Automatic assignment is not supported for multi-user assignment pools.

Cancel

Previous

Next

Add Pool - Instant-Clone-Win10

Type

vCenter Server

User Assignment

4 Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

9 Remote Display Settings

Storage Policy Management ⓘ

☐ Use VMware Virtual SAN

☐ Do not use VMware Virtual SAN

⚠ Virtual SAN is not available because no Virtual SAN datastores are configured.

☐ Use Separate Datastores for Replica and OS Disks

Cancel

Previous

Next

Add Pool - Instant-Clone-Win10

Type

vCenter Server

User Assignment

Storage Optimization

5 Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

9 Remote Display Settings

Asterisk (*) denotes required field

* ID ⓘ

Instant-Clone-Win10

Display Name ⓘ

WIN10-IC-Floating-Desktop

Access Group ⓘ

/

Description

Cancel

Previous

Next

Asterisk (*) denotes required field

Basic ⓘ

- ☒ Enable Provisioning ⓘ
- ☒ Stop Provisioning on Error

Virtual Machine Naming ⓘ

☐ Specify Names Manually

0 names entered

Enter Names

☒ Use a Naming Pattern ⓘ

* Naming Pattern

Win10-ICD-{n}

Provision Machines

☐ Machines on Demand

Min Number of Machines

1

☒ All Machines Up-Front

Add Pool - Instant-Clone-Win10

Type

vCenter Server

User Assignment

Storage Optimization

Desktop Pool Identification

6 Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

9 Remote Display Settings

0 names entered

Enter Names

Use a Naming Pattern ⓘ

* Naming Pattern

Win10-ICD-{n}

Provision Machines

Machines on Demand

Min Number of Machines1

All Machines Up-Front

Desktop Pool Sizing

* Maximum Machines

5

* Spare (Powered On) Machines

1

Virtual Device

Add vTPM Device to VMs ⓘ

Cancel

Previous

Next

Select Golden Image

Select the virtual machines to be used as the golden image for this desktop pool.

☐ Show All Golden Images ⓘ

Operating SystemAll▼

Filter

↻

Name	Path
<input checked="" type="radio"/> ICWIN10	/ASIA/vm/ICWIN10
<input type="radio"/> WIN10IC	/ASIA/vm/WIN10IC

Rows per page20▼

1 - 2 of 2 rows

Submit

Cancel

Select Default Image

Golden Image in vCenter /ASIA/vm/ICWIN10

The Carbon Black scan percentage reflects the value at the time the snapshot was taken. Before cloning the snapshot, run the Carbon Black scan in the golden image to the recommended 100%.

Snapshot Details

↻

Snapshot	Time Created	Carbon Black Scan (% Complete)	Description	Path
<input checked="" type="radio"/> ICWIN10GOLDEN	05/12/2022, 12:07 PM			/ICWIN10

Rows per page20▼

1 - 1 of 1 row(s)

SVGA settings for Instant Clone Pool (Inherited from Golden Image)

Number of Monitors	VRAM Size	Resolution	3D Renderer
1	8.00 MB	1600x1200	Disabled

Submit

Cancel

VM Folder Location

X

Select the folder to store the VM.

- ☐ Show All Folders ⓘ
- ASIA
 - Discovered virtual machine
 - Prod-VM
 - vCLS

Submit

Cancel

Select Cluster

X

Select a cluster on which to run the virtual machines created for this Desktop.

- ASIA
- BANGALORE

Submit

Cancel

Resource Pool

X

Select a resource pool to use for this Desktop Pool.

- BANGALORE

Submit

Cancel

Select Instant Clone Datastores

X

Select the instant clone datastores to use for this desktop pool. Only datastores that can be used by the selected host or cluster can be selected.

<input type="checkbox"/>	Datastore	Capacity (GB)	Free Space (GB)	FS Type	Drive Type	Storage Overcommit
<input type="checkbox"/>	EMCDATASTORE	999.75	750.56	VMFS6	Non-SSD	
<input checked="" type="checkbox"/>	HPDATASTORE	1,676	1,380.21	VMFS6	Non-SSD	Unbounded

☒ 1 ☐ Select all Pages Rows per page: 20 1 - 2 of 2 rows

Data Type	Selected Free Space (GB)	Min Recommended (GB)	50% Utilization (GB)	Max Recommended (GB)
Instant clones	1,380.21	396	716	1,086

Rows per page: 20 1 - 1 of 1 row(s)

Submit

Cancel



Warning



You have selected a local datastore for your instant clone pool. Please note the following.

1. If you are deploying instant clones on a single ESXi host with local datastore, you must configure a cluster containing that single ESXi host. If you have a cluster of two or more ESXi hosts with local datastores, select the local datastore from each of the hosts in the cluster. Instant clone creation fails otherwise.
2. VMotion, VMWare High Availability, and vSphere Distributed Resource Scheduler (DRS) are not supported.
3. We recommend that you use direct Solid-State Disks (SSDs). Local spinning-disk drives may not have the throughput required by instant clones.

Cancel

OK

Default Image

Asterisk (*) denotes required field

* Golden Image in vCenter

/ASIA/vm/ICWIN10

Browse

* Snapshot

/ICWIN10GOLDEN

Browse

Virtual Machine Location

* VM Folder Location

/ASIA/vm/Prod-VM

Browse

Resource Settings

* Cluster

/ASIA/host/BANGALORE

Browse

* Resource Pool

/ASIA/host/BANGALORE/Resources

Browse

Add Pool - Instant-Clone-Win10

✓ Type

✓ vCenter Server

✓ User Assignment

✓ Storage Optimization

✓ Desktop Pool Identification

✓ Provisioning Settings

7 vCenter Settings

8 Desktop Pool Settings

9 Remote Display Settings

/ASIA/vm/ICWIN10

Browse

* Snapshot

/ICWIN10GOLDEN

Browse

Virtual Machine Location

* VM Folder Location

/ASIA/vm/Prod-VM

Browse

Resource Settings

* Cluster

/ASIA/host/BANGALORE

Browse

* Resource Pool

/ASIA/host/BANGALORE/Resources

Browse

* Datastores

1 selected

Browse

Network

Golden Image network selected

Browse

Cancel

Previous

Next

Add Pool - Instant-Clone-Win10

Type

vCenter Server

User Assignment

Storage Optimization

Desktop Pool Identification

Provisioning Settings

vCenter Settings

8 Desktop Pool Settings

9 Remote Display Settings

State

Enabled

Connection Server Restrictions

None [Browse](#)

Category Folder

None [Browse](#)

Client Restrictions ☐ Enabled

Session Types

Desktop ⓘ

Log Off After Disconnect

Immediately

Allow Users to Restart Machines

No

Allow Separate Desktop Sessions from Different Client Devices

No ⓘ

Cancel

Previous

Next

Add Pool - Instant-Clone-Win10

Storage Optimization

Desktop Pool Identification

Provisioning Settings

vCenter Settings

Desktop Pool Settings

9 Remote Display Settings

10 Guest Customization

11 Ready to Complete

Remote Display Protocol

Default Display Protocol

VMware Blast

Allow Users to Choose Protocol

Yes

3D Renderer

Manage using vSphere Client ⓘ

Allow Session Collaboration ☐ Enabled ⓘ

Requires VMware Blast Protocol.

Cancel

Previous

Next

Asterisk (*) denotes required field

Domain

RAMLAN.CA(ram)

* AD Container

CN=Computers

Find

Browse

☐ Allow Reuse of Existing Computer Accounts ⓘ

☐ Use ClonePrep

Power-Off Script Name

ⓘ

Power-Off Script Parameters

Example: p1 p2 p3

Post-Synchronization Script Name

ⓘ

Post-Synchronization Script Parameters

Add Pool - Instant-Clone-Win10

✓ Storage Optimization

✓ Desktop Pool Identification

✓ Provisioning Settings

✓ vCenter Settings

✓ Desktop Pool Settings

✓ Remote Display Settings

10 Guest Customization

11 Ready to Complete

☐ Allow Reuse of Existing Computer Accounts ⓘ

☐ Use ClonePrep

Power-Off Script Name ⓘ

Power-Off Script Parameters

Example: p1 p2 p3

Post-Synchronization Script Name ⓘ

Post-Synchronization Script Parameters

Example: p1 p2 p3

☒ Use a customization specification (SysPrep)

Name	Guest OS	Description
HorizonWin10	Windows	

Cancel

Previous

Next

HorizonWin10 - Editing

Name and target OS

Registration information

Computer name

Windows license

Administrator password

Time zone

Commands to run once

Network

Workgroup or domain

Ready to complete

Name	HorizonWin10
Target guest OS	Windows
OS options	Generate new security ID
Registration info	Owner name: Administrator Organization: RAMLAN INC.
Computer name	Use Virtual Machine name
Product key	No product key specified
Administrator access	Do not log in automatically as Administrator
Time zone	(UTC-05:00) Eastern Time (US & Canada)
Network type	Standard
Windows Server domain	RAMLAN.CA Username: administrator

☐ Entitle Users After Adding Pool

Type

Automated Desktop Pool

User Assignment

Floating Assignment

vCenter Server

192.168.0.86

Unique ID

Instant-Clone-Win10

Description

-

Display Name

WIN10-IC-Floating-Desktop

Access Group

/

Desktop Pool State

Enabled

Session Types

Desktop

Client Restrictions

Disabled

Log Off After Disconnect	Immediately
Connection Server Restrictions	None
Category Folder	None
Allow Users to Restart Machines	No
Allow Separate Desktop Sessions from Different Client Devices	No
Default Display Protocol	VMware Blast
Allow Users to Choose Protocol	Yes
3D Renderer	Manage using vSphere Client
VRAM Size	8.00 MB
Maximum number of monitors	1
Maximum Resolution of Any One Monitor	1600x1200
Allow Session Collaboration	Disabled

Enable Provisioning	Yes
Stop Provisioning on Error	Yes
VM Naming Pattern	Win10-ICD-{n}
Provision All Machines Up-Front	Yes
Maximum Machines	5
Spare (Powered On) Machines	1
Add vTPM Device to VMs	No
Default Image	ICWIN10 - ICWIN10GOLDEN
VM Folder Location	/ASIA/vm/Prod-VM
Host or Cluster	/ASIA/host/BANGALORE
Resource Pool	/ASIA/host/BANGALORE/Resources

Add Pool - Instant-Clone-Win10

<div> <div>✓</div> <div>Storage Optimization</div> </div> <div> <div>✓</div> <div>Desktop Pool Identification</div> </div> <div> <div>✓</div> <div>Provisioning Settings</div> </div> <div> <div>✓</div> <div>vCenter Settings</div> </div> <div> <div>✓</div> <div>Desktop Pool Settings</div> </div> <div> <div>✓</div> <div>Remote Display Settings</div> </div> <div> <div>✓</div> <div>Guest Customization</div> </div> <div> <div>11</div> <div>Ready to Complete</div> </div>	<table> <tr> <td>Add vTPM Device to VMs</td> <td>No</td> </tr> <tr> <td>Default Image</td> <td>ICWIN10 - ICWIN10GOLDEN</td> </tr> <tr> <td>VM Folder Location</td> <td>/ASIA/vm/Prod-VM</td> </tr> <tr> <td>Host or Cluster</td> <td>/ASIA/host/BANGALORE</td> </tr> <tr> <td>Resource Pool</td> <td>/ASIA/host/BANGALORE/Resources</td> </tr> <tr> <td>Datastores</td> <td>/ASIA/host/BANGALORE/HPDATASTORE (Storage Overcommit Unbounded)</td> </tr> <tr> <td>Use VMware Virtual SAN</td> <td>No</td> </tr> <tr> <td>Networks</td> <td>Golden Image network selected</td> </tr> <tr> <td>Domain</td> <td>RAMLAN.CA</td> </tr> <tr> <td>AD Container</td> <td>CN=Computers</td> </tr> <tr> <td>Guest Customization</td> <td>Use a customization specification (SysPrep)</td> </tr> <tr> <td>Customization Specification</td> <td>HorizonWin10</td> </tr> </table>	Add vTPM Device to VMs	No	Default Image	ICWIN10 - ICWIN10GOLDEN	VM Folder Location	/ASIA/vm/Prod-VM	Host or Cluster	/ASIA/host/BANGALORE	Resource Pool	/ASIA/host/BANGALORE/Resources	Datastores	/ASIA/host/BANGALORE/HPDATASTORE (Storage Overcommit Unbounded)	Use VMware Virtual SAN	No	Networks	Golden Image network selected	Domain	RAMLAN.CA	AD Container	CN=Computers	Guest Customization	Use a customization specification (SysPrep)	Customization Specification	HorizonWin10
Add vTPM Device to VMs	No																								
Default Image	ICWIN10 - ICWIN10GOLDEN																								
VM Folder Location	/ASIA/vm/Prod-VM																								
Host or Cluster	/ASIA/host/BANGALORE																								
Resource Pool	/ASIA/host/BANGALORE/Resources																								
Datastores	/ASIA/host/BANGALORE/HPDATASTORE (Storage Overcommit Unbounded)																								
Use VMware Virtual SAN	No																								
Networks	Golden Image network selected																								
Domain	RAMLAN.CA																								
AD Container	CN=Computers																								
Guest Customization	Use a customization specification (SysPrep)																								
Customization Specification	HorizonWin10																								

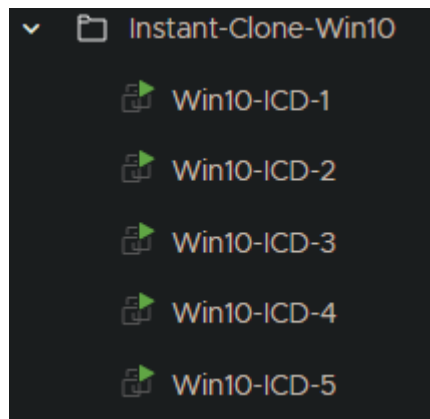
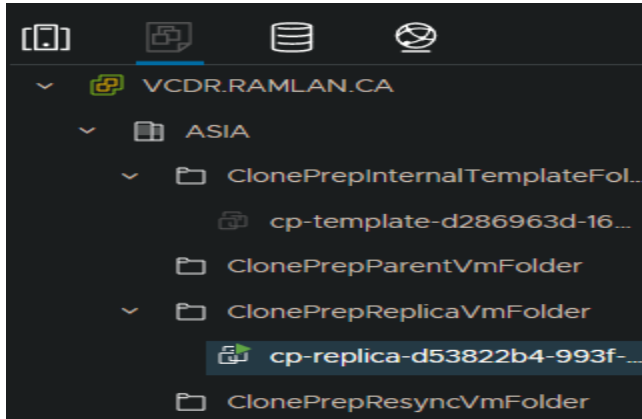
Desktop Pools

[Add](#) [Edit](#) [Duplicate](#) [Delete](#) [Entitlements](#) [Status](#) [Access Groups](#) [View Unentitled](#)

Access Group [All](#)

[Filter](#)

<input type="checkbox"/>	ID	Display Name	Type	Source	User Assignment	vCenter Server
<input type="checkbox"/>	WIN10_Dedicated_Full	Win 10 Desktop	Automated Desktop Pool	vCenter	Dedicated Assignment	192.168.0.86
<input type="checkbox"/>	Instant-Clone-Win10	WIN10-IC-Floating-Desktop	Automated Desktop Pool	vCenter (instant clone)	Floating Assignment	192.168.0.86



ClonePrepInternalTemplateFolder

- **cp-template-xxxx:** This is the template VM that is used to create your Instant Clones which is created from our master image.

ClonePrepParentVmFolder

- **cp-parent-xxxx:** The number of these VMs should match the number of hosts in your cluster. Each ESXi server will have 1 of these powered on and in memory to create the Instant Clone VMs.

ClonePrepReplicaVmFolder

- **cp-replica-xxxx:** This VM is used to create the cp-parent VMs. It is used to provision additional co-parent VMs.

ClonePrepResyncVmFolder

- If you want to update/modify the Clones with a new image it will create a VM in here for staging.

Machines

[vCenter](#)

[RDS Hosts](#)

[Others](#)

[Restart Desktop](#)

[Reset Virtual Machine](#)

[Recover](#)

Machine [All](#)

<input type="checkbox"/>	Machine	Desktop Pool
<input type="checkbox"/>	Win10-ICD-4	Instant-Clone-Win10
<input type="checkbox"/>	Win10-ICD-1	Instant-Clone-Win10
<input type="checkbox"/>	Win10-ICD-5	Instant-Clone-Win10
<input type="checkbox"/>	Win10-ICD-2	Instant-Clone-Win10
<input type="checkbox"/>	Win10-ICD-3	Instant-Clone-Win10

Now all the Instant Clone Pool machines are available for use.

Instant-Clone-Win10

SummaryMachinesMachines (Instant Clone Details)SessionsEntitlementsEventsTasksPoliciesPolicy Overrides

Restart DesktopReset Virtual MachineRecoverRemoveMore Commands

Filter

<input type="checkbox"/>	Machine	Connected User	Assigned User	Machine Alias	Image	Pending Image	Last Compose	Task	Status
<input type="checkbox"/>	Win10-ICD-4		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:24:29 PM	None	Available
<input type="checkbox"/>	Win10-ICD-1		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:24:30 PM	None	Available
<input type="checkbox"/>	Win10-ICD-5		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:24:29 PM	None	Available
<input type="checkbox"/>	Win10-ICD-2		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:24:29 PM	None	Available
<input type="checkbox"/>	Win10-ICD-3		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:24:29 PM	None	Available

ASSIGN TO USERS – DESKTOP INSTANT CLONE POOL – Now we can assign to users.

Desktop Pools

AddEditDuplicateDeleteEntitlementsStatusAccess GroupsView Unentitled

Access GroupAll

<input type="checkbox"/>	ID	Display Name	Type	Source
<input checked="" type="checkbox"/>	Instant-Clone-Win10	WIN10-IC-Floating-Desktop	Automated Desktop Pool	vCenter (instant clone)

Add Entitlements

Add new users and groups who can use the selected pool(s).

AddRemove

<input type="checkbox"/>	Name	Domain	Email
<input type="checkbox"/>	Domain Users	RAMLAN.CA	

Desktop Pools

AddEditDuplicateDeleteEntitlementsStatusAccess GroupsView Unentitled

Access GroupAllFilter

<input type="checkbox"/>	ID	Display Name	Type	Source	User Assignment	vCenter Server	Entitled
<input type="checkbox"/>	Instant-Clone-Win10	WIN10-IC-Floating-Desktop	Automated Desktop Pool	vCenter (instant clone)	Floating Assignment	192.168.0.86	1


ACCESSING VDI DESKTOP INSTANT CLONE POOL MACHINES - In order to access the VDI Desktop, users can log in through Edge or Chrome or Firefox browser or via horizon client from their laptop and type in connection server.

VMware Horizon HTML Access


HTML access is via VMware's Blast protocol.

<https://vcs01.ramlan.ca>

I am going to access above URL from another laptop using the browser and see what happens.



VMware Horizon




VMware Horizon


You can connect to your desktop and applications by using the VMware Horizon Client or through the browser.

The VMware Horizon Client offers better performance and features.

WELCOME TO INFOTECHRAM INC VDI INFRASTRUCTURE




Install VMware Horizon Client



VMware Horizon HTML Access

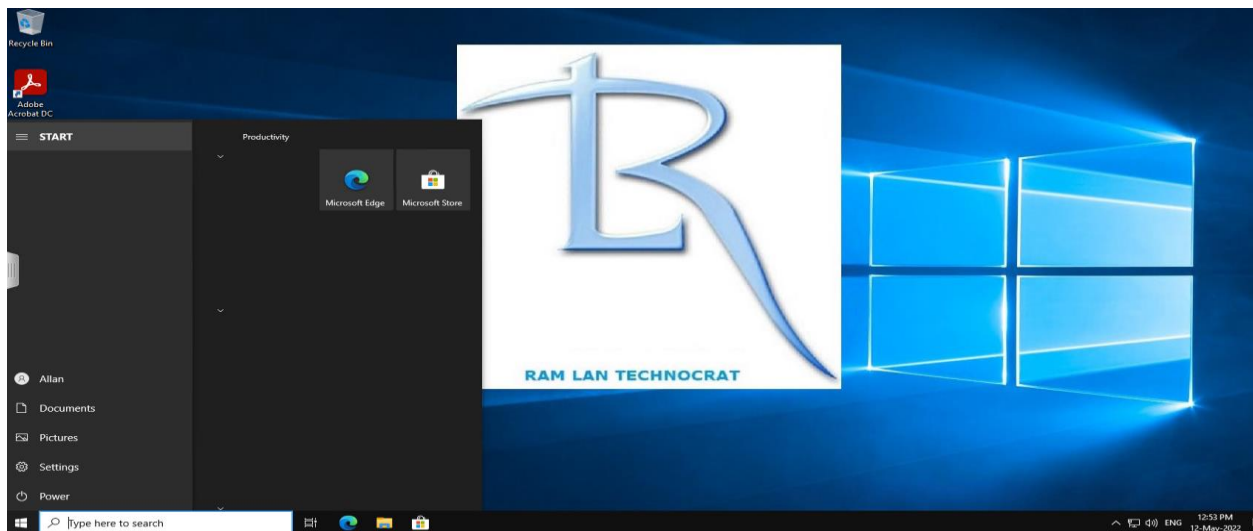
☐ Check here to skip this screen and always use HTML Access.

Accept



VMware Horizon

Login



Events

Maximum Events ☐ Time in UTC ☐ Retrieve Event Objects

Updated 05/12/2022, 12:55

Filters

[Clear All](#)

	Severity	Time	Module	Source	Message
	Info	05/12/2022, 12:54 PM	Agent	Win10-ICD-4.RAMLAN.CA	The agent running on machine Win10-ICD-4 has shut down, this machine will be unavailable
llan	Info	05/12/2022, 12:53 PM	Agent	Win10-ICD-4.RAMLAN.CA	User RAMLAN\allan has logged off machine Win10-ICD-4
llan	Info	05/12/2022, 12:51 PM	Agent	Win10-ICD-4.RAMLAN.CA	User RAMLAN\allan has logged in to a new session on machine Win10-ICD-4

Machines

[vCenter](#) [RDS Hosts](#) [Others](#)

[Restart Desktop](#) [Reset Virtual Machine](#) [Recover](#) [Rebuild](#) [Remove](#) [More Commands](#)

Machine

Access Group

<input type="checkbox"/>	Machine	Desktop Pool	DNS Name	Connected User	Assigned User
<input type="checkbox"/>	Win10-Desk-2	WIN10_Dedicated_Full	win10-desk-2.ramlan.ca		
<input type="checkbox"/>	Win10-ICD-4	Instant-Clone-Win10	win10-icd-4.ramlan.ca		N/A

If you see above screen shot it is not assigned to any user. When user Allan used WIN10-ICD-4 for a brief moment the use was able to use the system. Once the user logged off – it is back to the pool for any other user to use it. That is the advantage of Floating Pool. Any user can use the system as long as they are available.

When user log off from Instant Clone Pool desktop it is back to its original state. Any changes made to the system by the user are not saved.



You can get granular details from Desktop Pool for each of them. Click Instant-Clone-Win10

Cluster=VCS01

Desktop Pools

AddEditDuplicateDeleteEntitlementsStatusAccess GroupsView Unentitled

Access GroupAll

<input type="checkbox"/>	ID	Display Name	Type	Source	User Assignment
<input type="checkbox"/>	 Instant-Clone-Win10	WIN10-IC-Floating-Desktop	Automated Desktop Pool	vCenter (instant clone)	Floating Assignment
<input type="checkbox"/>	 WIN10_Dedicated_Full	Win 10 Desktop	Automated Desktop Pool	vCenter	Dedicated Assignment

Instant-Clone-Win10

SummaryMachinesMachines (Instant Clone Details)SessionsEntitlementsEventsTasksPoliciesPolicy Overrides

EditDelete Desktop PoolEntitlementsStatusMaintain

General

Unique ID	Type	User Assignment
Instant-Clone-Win10	Automated Desktop Pool	Floating Assignment
Machine Source	Display Name	Access Group
vCenter (instant clone)	WIN10-IC-Floating-Desktop	/
State	Client Restrictions	Provisioning
Enabled	Disabled	Enabled
Entitled Users and Groups	Machines	
1	5	

Machine Status

Available
5

Pool Settings

Maximum Machines	Spare (Powered On) Machines	Allow Separate Desktop Sessions from Different Client Devices
5	1	No
Add vTPM Device to VMs	Stop Provisioning on Error	VM Naming Pattern
No ⓘ	Yes	WIN10-ICD-(n)
Connection Server Restrictions	Category Folder	Remote Machine Power Policy
None	None	Always Powered On ⓘ
Delete or Refresh Machine on Logoff	Session Types	Log Off After Disconnect
Delete ⓘ	Desktop	Immediately
Allow Users to Restart Machines	Default Display Protocol	Allow Users to Choose Protocol
No	VMware Blast	Yes
Maximum Resolution of Any One Monitor	Allow Session Collaboration	3D Renderer
Unknown	Disabled	Manage using vSphere Client

vCenter Server

Server Name	View Storage Accelerator	Transparent Page Sharing Scope
192.168.0.86	Enabled	Virtual Machine
Disk	Refresh	Guest Customization
OS Disks	7 day(s)	SysPrep
Allow Reuse of Existing Computer Accounts	AD Relative Distinguished Name	
No	CN=Computers	
Default Image	Snapshot	State
Golden Image in vCenter	ICWIN10GOLDEN ...	Published ⓘ
VM folder	Resource Pool	Host or Cluster
Instant-Clone-Win10 ...	Resources ...	BANGALORE ...
Secondary Image		
None		

Storage

Free Space	Capacity	Use VMware Virtual SAN
1,303.92 GB	1,676 GB	No

Instant-Clone-Win10

Summary

Machines

Machines (Instant Clone Details)

Sessions

Entitlements

Events

Tasks

Policies

Policy Overrides

Restart Desktop

Reset Virtual Machine

Recover

Remove

More Commands

Filter

<input type="checkbox"/>	Machine	DNS Name	Connected User	Assigned User	Machine Alias	Host	Agent Version	Datastore
<input type="checkbox"/>	Win10-ICD-4	win10-icd-4.ramlan.ca		N/A	N/A	192.168.0.85	8.4.0-19066669	2 ...
<input type="checkbox"/>	Win10-ICD-1	win10-icd-1.ramlan.ca		N/A	N/A	192.168.0.85	8.4.0-19066669	2 ...
<input type="checkbox"/>	Win10-ICD-5	win10-icd-5.ramlan.ca		N/A	N/A	192.168.0.85	8.4.0-19066669	2 ...
<input type="checkbox"/>	Win10-ICD-2	win10-icd-2.ramlan.ca		N/A	N/A	192.168.0.85	8.4.0-19066669	2 ...
<input type="checkbox"/>	Win10-ICD-3	win10-icd-3.ramlan.ca		N/A	N/A	192.168.0.85	8.4.0-19066669	2 ...

Instant-Clone-Win10

Summary

Machines

Machines (Instant Clone Details)

Sessions

Entitlements

Events

Tasks

Policies

Policy Overrides

Restart Desktop

Reset Virtual Machine

Recover

Remove

More Commands

Filter

<input type="checkbox"/>	Machine	Connected User	Assigned User	Machine Alias	Image	Pending Image	Last Compose	Task	Status
<input type="checkbox"/>	Win10-ICD-4		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:54:15 PM	None	Available
<input type="checkbox"/>	Win10-ICD-1		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:24:30 PM	None	Available
<input type="checkbox"/>	Win10-ICD-5		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:24:29 PM	None	Available
<input type="checkbox"/>	Win10-ICD-2		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:48:27 PM	None	Available
<input type="checkbox"/>	Win10-ICD-3		N/A	N/A	/ASIA/vm/ICWIN10 - /ICWIN10GOLDEN		May 12, 2022, 12:24:29 PM	None	Available

Instant-Clone-Win10

Summary

Machines

Machines (Instant Clone Details)

Sessions

Entitlements

Events

Tasks

Policies

Policy Overrides

Sessions

All

Disconnect Session

Logoff Session

Restart Desktop

Reset Virtual Machine

Send Message

Filter

<input type="checkbox"/>	User	Type	DNS Name	Client ID	Client Version
--------------------------	------	------	----------	-----------	----------------

Instant-Clone-Win10

Summary

Machines

Machines (Instant Clone Details)

Sessions

Entitlements

Events

Tasks

Policies

Policy Overrides

Add Entitlements

Remove Entitlements

<input type="checkbox"/>	Name	Sessions
<input type="checkbox"/>	Domain Users/RAMLAN.CA	

Instant-Clone-Win10

Summary

Machines

Machines (Instant Clone Details)

Sessions

Entitlements

Events

Tasks

Policies

Policy Overrides

Maximum Events

2000

☐ Time in UTC

☐ Retrieve Event Objects

Updated 05/12/2022, 1:10 PM

Filters

TimePeriod: Last 1 day

Clear All

User	Severity	Time	Module	Source	Message
	Info	05/12/2022, 12:57 PM	Agent	Win10-ICD-4.RAMLAN.CA	The agent running on machine Win10-ICD-4 has contacted the connection server and
	Info	05/12/2022, 12:54 PM	Agent	Win10-ICD-4.RAMLAN.CA	The agent running on machine Win10-ICD-4 has shut down, this machine will be una
RAMLAN\allan	Info	05/12/2022, 12:53 PM	Agent	Win10-ICD-4.RAMLAN.CA	User RAMLAN\allan has logged off machine Win10-ICD-4
RAMLAN\allan	Info	05/12/2022, 12:51 PM	Agent	Win10-ICD-4.RAMLAN.CA	User RAMLAN\allan has logged in to a new session on machine Win10-ICD-4
	Info	05/12/2022, 12:51 PM	Agent	Win10-ICD-2.RAMLAN.CA	The agent running on machine Win10-ICD-2 has contacted the connection server and
RAMLAN\allan	Info	05/12/2022, 12:51 PM	Agent	Win10-ICD-4.RAMLAN.CA	The agent running on machine Win10-ICD-4 has accepted an allocated session for us
RAMLAN\allan	Info	05/12/2022, 12:50 PM	Connection Server	VCS01.RAMLAN.CA	User RAMLAN\allan requested Pool instant-clone-win10, allocated machine Win10-IC
RAMLAN\allan	Info	05/12/2022, 12:50 PM	Connection Server	VCS01.RAMLAN.CA	User RAMLAN\allan requested Pool instant-clone-win10
	Info	05/12/2022, 12:48 PM	Agent	Win10-ICD-2.RAMLAN.CA	The agent running on machine Win10-ICD-2 has shut down, this machine will be una
RAMLAN\noor	Info	05/12/2022, 12:48 PM	Agent	Win10-ICD-2.RAMLAN.CA	User RAMLAN\noor has logged off machine Win10-ICD-2
RAMLAN\noor	Info	05/12/2022, 12:47 PM	Agent	Win10-ICD-2.RAMLAN.CA	User RAMLAN\noor has logged in to a new session on machine Win10-ICD-2
RAMLAN\noor	Info	05/12/2022, 12:46 PM	Agent	Win10-ICD-2.RAMLAN.CA	The agent running on machine Win10-ICD-2 has accepted an allocated session for us
RAMLAN\noor	Info	05/12/2022, 12:45 PM	Connection Server	VCS01.RAMLAN.CA	User RAMLAN\noor requested Pool instant-clone-win10, allocated machine Win10-IC
RAMLAN\noor	Info	05/12/2022, 12:45 PM	Connection Server	VCS01.RAMLAN.CA	User RAMLAN\noor requested Pool instant-clone-win10

Instant-Clone-Win10

SummaryMachinesMachines (Instant Clone Details)SessionsEntitlementsEventsTasksPoliciesPolicy Overrides

Cancel TaskPause TaskResume Task

Type	Description	Start Time	Remaining
------	-------------	------------	-----------

Instant-Clone-Win10

SummaryMachinesMachines (Instant Clone Details)SessionsEntitlementsEventsTasksPoliciesPolicy Overrides

Edit Policies

Name	Global Policy	Desktop Pool Policy	Applied Policy
Multimedia Redirection (MMR)	Deny	Inherit	Deny
USB Access	Allow	Inherit	Allow
PCoIP Hardware Acceleration	Allow - Medium priority	Inherit	Allow - Medium priority

Instant-Clone-Win10

SummaryMachinesMachines (Instant Clone Details)SessionsEntitlementsEventsTasksPoliciesPolicy Overrides

Add UserEditRemove

User

You can get granular details from Desktop Pool for each of them. Click Win10_Dedicated_Full

Instant-Clone-Win10

Desktop Pools

AddEditDuplicateDeleteEntitlementsStatusAccess GroupsView Unentitled

Access GroupAll

ID	Display Name	Type	Source	User Assignment
Instant-Clone-Win10	WIN10-IC-Floating-Desktop	Automated Desktop Pool	vCenter (instant clone)	Floating Assignment
WIN10_Dedicated_Full	Win 10 Desktop	Automated Desktop Pool	vCenter	Dedicated Assignment

WIN10_Dedicated_Full

SummaryMachinesSessionsEntitlementsEventsPoliciesPolicy Overrides

EditDelete Desktop PoolEntitlementsStatus

General

Unique ID
WIN10_Dedicated_Full

Enable Automatic Assignment
Yes

Access Group
/

Provisioning
Enabled

Type
Automated Desktop Pool

Machine Source
vCenter

State
Enabled

Entitled Users and Groups
2

User Assignment
Dedicated Assignment

Display Name
Win 10 Desktop

Client Restrictions
Disabled

Machines
2

Machine Status

Available
2

Pool Settings

Maximum Machines
2

Stop Provisioning on Error
Yes

Spare (Powered On) Machines
1

VM Naming Pattern
Win10-Desk-{n}

Add vTPM Device to VMs
No

Connection Server Restrictions
None

Category Folder None	Remote Machine Power Policy Take no power action	Session Types Desktop
Log Off After Disconnect Immediately	Allow Users to Restart Machines No	Default Display Protocol VMware Blast
Allow Users to Choose Protocol Yes	Maximum number of monitors 2	Maximum Resolution of Any One Monitor 1920x1200
Allow Session Collaboration Enabled	3D Renderer Disabled	Show Assigned Machine Name Disabled
Show Machine Alias Name Disabled		

vCenter Server

Server Name 192.168.0.86	VM folder WIN10_Dedicated_Full ...	Host or Cluster BANGALORE ...
Resource Pool Resources ...	View Storage Accelerator Enabled	Transparent Page Sharing Scope Virtual Machine
Disk OS Disks	Refresh 7 day(s)	Blackout Periods Not Set
Guest Customization SysPrep	Allow Reuse of Existing Computer Accounts No	Customization Specification HorizonWin10
Do not Power on Virtual Machines After Creation Disabled	Template WIN10GOLDEN ...	

Storage

Free Space 1,303.77 GB	Capacity 1,676 GB	Use VMware Virtual SAN No
Datastore UPPERDATASTORE ...		

WIN10_Dedicated_Full

Summary

Machines

Sessions

Entitlements

Events

Policies

Policy Overrides

Restart Desktop

Reset Virtual Machine

Rebuild

Remove

More Commands

Filter

<input type="checkbox"/>	Machine	DNS Name	Connected User	Assigned User	Machine Alias	Host	Agent Version	Datastore
<input type="checkbox"/>	Win10-Desk-2	win10-desk-2.ramlan.ca				192.168.0.85	8.4.0-19066669	2 ...
<input type="checkbox"/>	Win10-Desk-1	win10-desk-1.ramlan.ca		RAMLAN.CA\noor		192.168.0.85	8.4.0-19066669	2 ...

WIN10_Dedicated_Full

Summary	Machines	Sessions	Entitlements	Events	Policies	Policy Overrides
Sessions	All					
Disconnect Session	Logoff Session	Restart Desktop	Reset Virtual Machine	Send Message		
<input type="checkbox"/>	User	Type	DNS Name	Client ID		

WIN10_Dedicated_Full

Summary	Machines	Sessions	Entitlements	Events	Policies	Policy Overrides
Add Entitlements	Remove Entitlements					
<input type="checkbox"/>	Name	Sessions				
<input type="checkbox"/>	noor@RAMLAN.CA (Noor)					
<input type="checkbox"/>	Domain Users/ARAMLAN.CA					

WIN10_Dedicated_Full

Summary Machines Sessions Entitlements **Events** Policies Policy Overrides

Maximum Events ☐ Time in UTC ☐ Retrieve Event Objects

Updated 05/12/2022, 1:14 PM

Filters TimePeriod: Last 1 day

[Clear All](#) [Filter](#) [Refresh](#) [Download](#)

User	Severity	Time	Module	Source	Message
RAMLAN\noor	Info	05/12/2022, 10:53 AM	Agent	Win10-Desk-1.RAMLAN.CA	User RAMLAN\noor has logged off machine Win10-Desk-1
	Info	05/12/2022, 10:53 AM	Agent	Win10-Desk-2.RAMLAN.CA	Machine Win10-Desk-2 has been successfully reconfigured
	Info	05/12/2022, 10:51 AM	Agent	Win10-Desk-2.RAMLAN.CA	The agent running on machine Win10-Desk-2 has contacted the connection server.
	Info	05/12/2022, 10:41 AM	Connection Server	VC501.RAMLAN.CA	Successfully configured page sharing settings for Machine VM Win10-Desk-2 in Pool WIN10-Dedicated-Full
	Info	05/12/2022, 10:41 AM	Connection Server	VC501.RAMLAN.CA	Successfully configured video settings for Machine VM Win10-Desk-2 in Pool WIN10-Dedicated-Full
	Info	05/12/2022, 10:41 AM	Connection Server	VC501.RAMLAN.CA	Successfully configured ScreenDMA config option for VM Win10-Desk-2 in Pool WIN10-Dedicated-Full

WIN10_Dedicated_Full

Summary Machines Sessions Entitlements Events **Policies** Policy Overrides

Edit Policies

Name	Global Policy	Desktop Pool Policy	Applied Policy
Multimedia Redirection (MMR)	Deny	Inherit	Deny
USB Access	Allow	Inherit	Allow
PCoIP Hardware Acceleration	Allow - Medium priority	Inherit	Allow - Medium priority

WIN10_Dedicated_Full

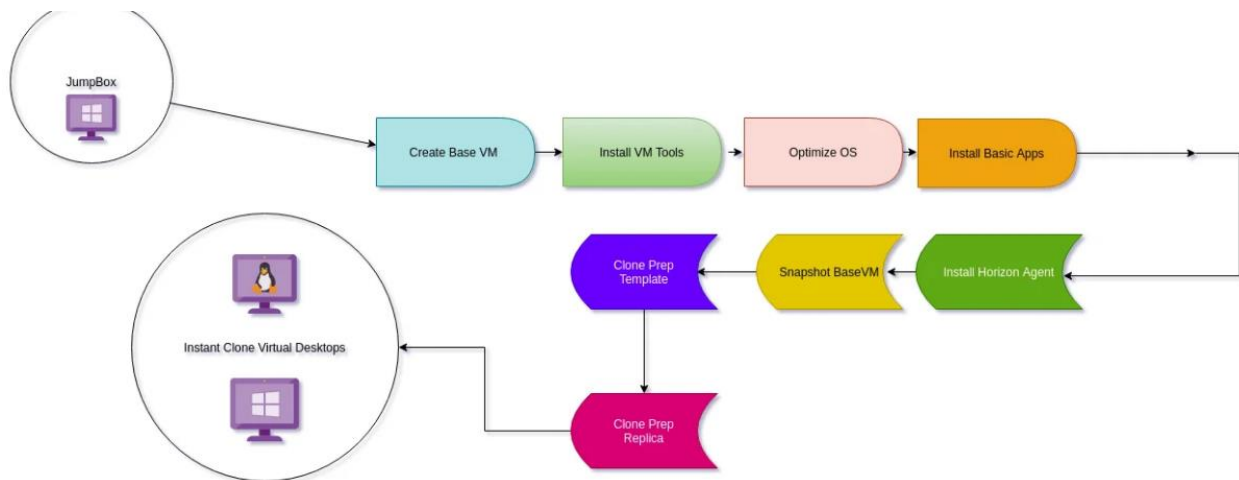
Summary Machines Sessions Entitlements Events Policies **Policy Overrides**

Add User Edit Remove

User

PUSH NEW APPLICATION TO INSTANT CLONE DESKTOP POOL - We will use the Push Image feature on the Instant clone desktop pool so as to upgrade/modify our existing instant clone desktop pool.

We will install FileZilla & Office 2021 onto our master image and then use the push feature on Instant clone to modify all our live VM's.



Modify Instant Clone Image – Go to Desktop Pool – Select Instant-Clone-Win10 and click Edit

Desktop Pools

[Add](#) [Edit](#) [Duplicate](#) [Delete](#) [Entitlements](#) [Status](#) [Access Groups](#) [View Untitled](#)

Access Group [All](#)

<input type="checkbox"/>	ID	Display Name	Type	Source	User Assignment
<input checked="" type="checkbox"/>	Instant-Clone-Win10	WIN10-IC-Floating-Desktop	Automated Desktop Pool	vCenter (instant clone)	Floating Assignment

Make a note of these settings

Edit Pool - Instant-Clone-Win10

[General](#)

[Desktop Pool Settings](#)

[Provisioning Settings](#)

[vCenter Settings](#)

Changing the vCenter settings affects newly created virtual machines only. The new settings do not affect machines.



Default Image

Asterisk (*) denotes required field

* Golden Image in vCenter

/ASIA/vm/ICWIN10  

* Snapshot

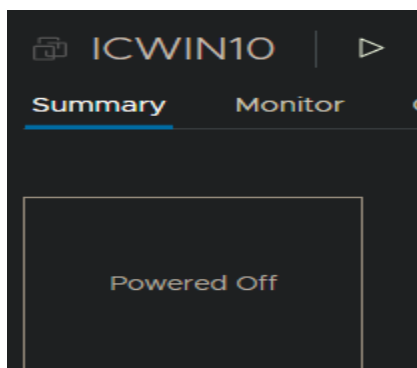
/ICWIN10GOLDEN  

Virtual Machine Location

* VM Folder Location

/ASIA/vm/Prod-VM/Instant-Clone-Win10 

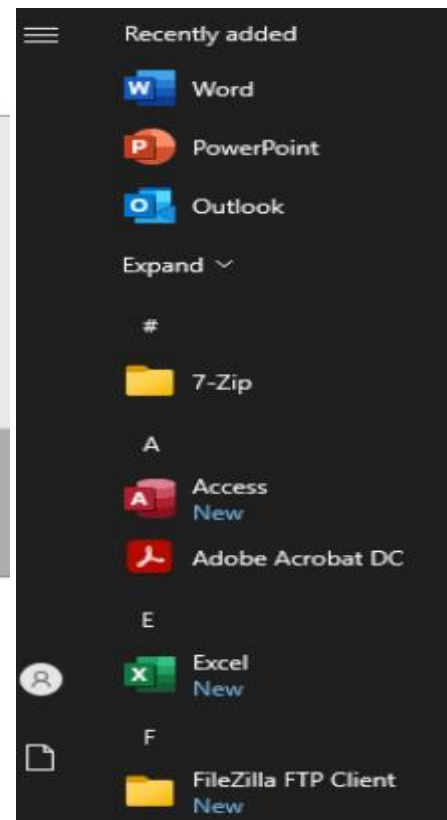
Now go to vCenter and Power On ICWIN10 VM and install the apps.



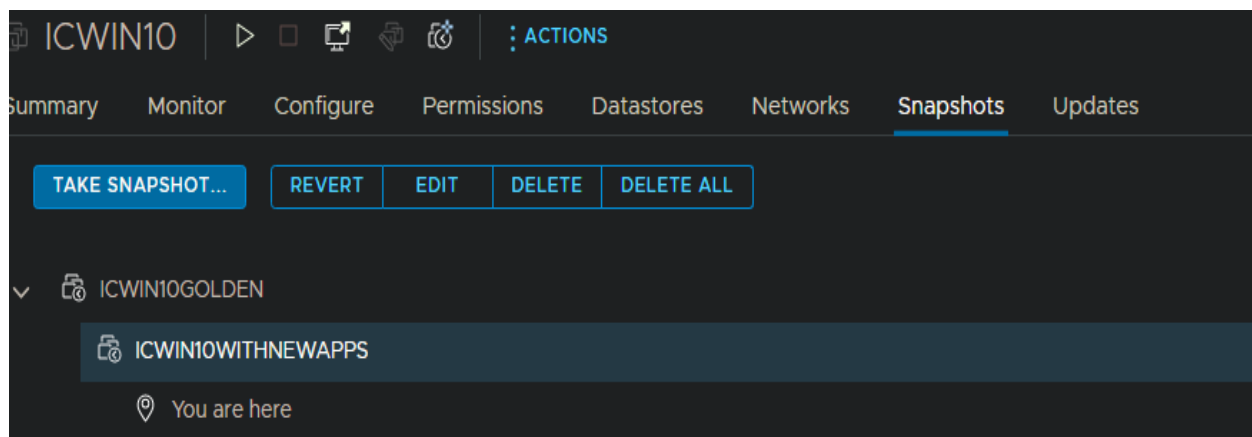


You're all set! Office is installed now
Click Start to view your apps.

Close



Shutdown the VM and take a new snapshot



Go to Desktop Pools – Click Instant-Clone-Win10 – Maintain - Schedule

Desktop Pools

Add Edit Duplicate

Access Group All

<input type="checkbox"/>	ID
<input type="checkbox"/>	Instant-Clone-Win10

Instant-Clone-Win10

Summary Machines Machines (Instant Clone Details) Sessions

Edit

Delete Desktop Pool

Entitlements ▾

Status ▾

Maintain ▾

Schedule Push Image

1 Image

2 Schedule

3 Ready to Complete

Image

Select the snapshot that will be used as the image. This snapshot can be on the current golden image or a different one.

The machines created in this desktop pool will use the information in the image as their baseline system configuration.

Golden Image in vCenter

/ASIA/vm/ICWIN10

Change

Snapshot

The Carbon Black scan percentage reflects the value at the time the snapshot was taken. Before cloning the snapshot, run the Carbon Black scan in the golden image to the recommended 100%.

Snapshot Details

Snapshot	Time Created	Carbon Black Scan (% Complete)	Description
<input type="radio"/> ICWIN10GOLDEN	05/12/2022, 12:07 PM		
<input checked="" type="radio"/> ICWIN10WITHNEWAPPS	05/12/2022, 1:45 PM		Installed FileZilla and O...

NextCancel

Schedule Push Image

Image

2 Schedule

3 Ready to Complete

☒ Schedule image push

Specify when you want this task to start

Start at

2022-05-12

14

:

46

Web browser local time

☐ Publish Secondary Image

Publishes a secondary image to use on the pool. This image can selectively be applied to the machines below or later through the pool's Machines > More Commands > Apply image. Use Promote Secondary image under Maintain when ready to upgrade this to the Default image on the pool.

☐ Push to specific machines

☐ Wait for users to log off

Wait for connected users to disconnect before the task starts. The task starts immediately on machines without active sessions.

☒ Force users to log off

Users will be forced to log off when the system is ready to operate on their virtual machines. Before being forcibly logged off, users may have a grace period in which to save their work (Global Settings).

☒ Stop at first error ⓘ

The warning and grace period can be edited in global settings.

BackNextCancel

Schedule Push Image

Image

Schedule

3 Ready to Complete

Ready to Complete

Review the options and click Finish

Forced logoff global settings:

Logoff Message

Logoff Time

Affected Virtual Machines	5
Start Time	05/12/2022, 1:55 PM
User Logoff	Force users to log off
Stop at first error	Yes
Golden Image in vCenter	/ASIA/vm/ICWIN10
Snapshot	/ICWIN10GOLDEN/ICWIN10WITHNEWAPPS

Add vTPM Device to VMs

No

Show Details

BackFinishCancel

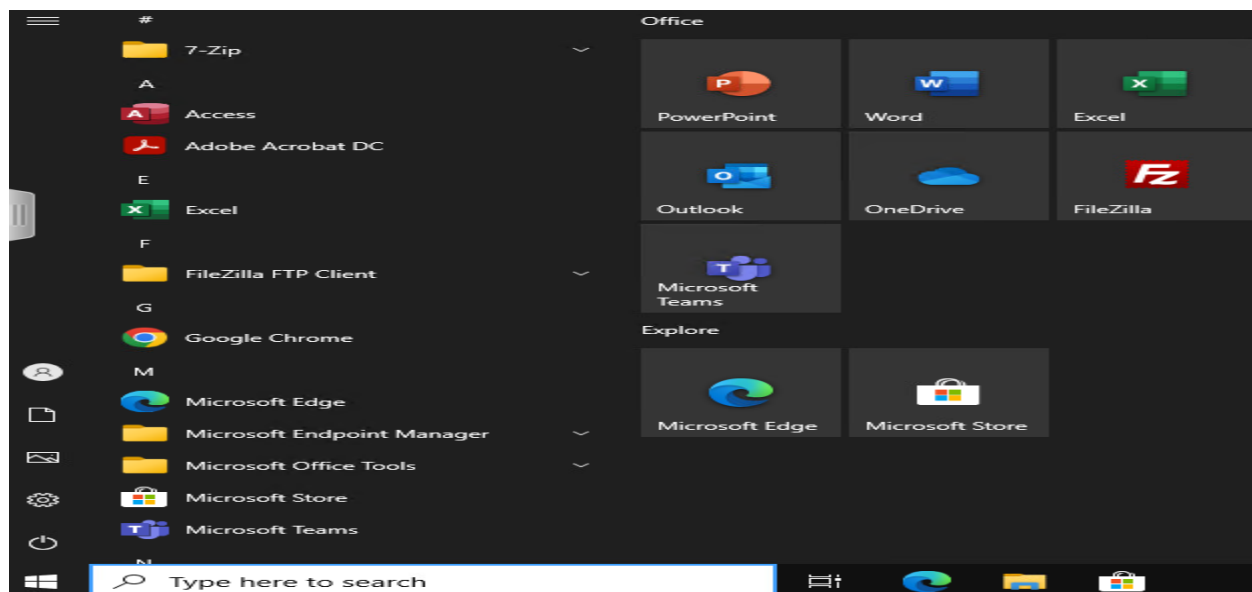
You should start seeing changes in these folders

The screenshot shows the vCenter console interface. On the left, the folder structure is expanded to 'ASIA', showing several VM folders. Two red arrows point to 'cp-template-d286963d-16...' and 'cp-replica-d53822b4-993f-...'. The main panel displays the 'Summary' tab for a VM, showing it is 'Powered Off'. Below this, there are links for 'LAUNCH WEB CONSOLE' and 'LAUNCH REMOTE CONSOLE'. The 'VM Hardware' section is expanded, showing the 'Related Objects' and 'Cluster' (BANGALORE). At the bottom, the 'Recent Tasks' table is visible, showing a list of tasks and their status.

Task Name	Target	Status	Details	Initiator
Clone virtual machine	cp-template-6bc54...	39%	Copying Virtual Machine files	VSPHERE.LOCAL\Administrator
Create virtual machine s...	cp-template-6bc54...	Completed		VSPHERE.LOCAL\Administrator
Power On virtual machine	cp-template-6bc54...	Completed		VSPHERE.LOCAL\Administrator
Clone virtual machine	ICWIN10	Completed	Generating nvram specifica...	VSPHERE.LOCAL\Administrator
Create virtual machine s...	ICWIN10	Completed		VSPHERE.LOCAL\Administrator

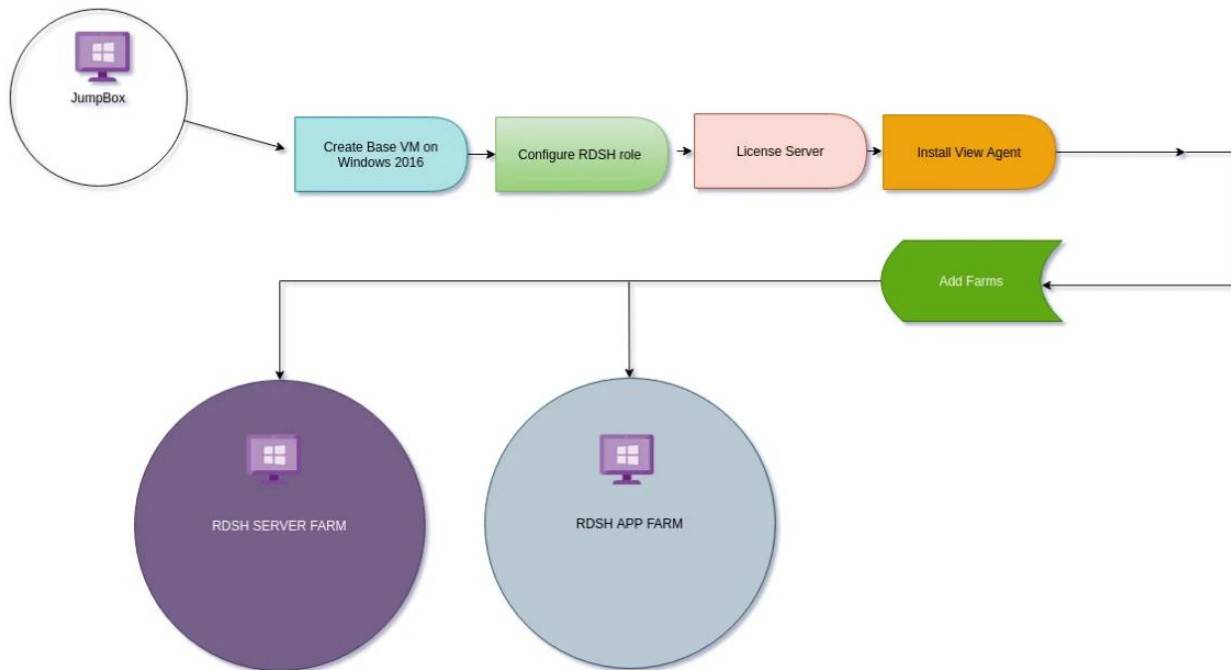
Task Name	Target	Status
Power On virtual machine	Win10-ICD-3	Completed
Power On virtual machine	Win10-ICD-5	Completed
Power On virtual machine	Win10-ICD-2	Completed
Create virtual machine s...	Win10-ICD-5	Completed
Create virtual machine s...	Win10-ICD-3	Completed
Create virtual machine s...	Win10-ICD-2	Completed
Reconfigure virtual mach...	Win10-ICD-5	Completed
Reconfigure virtual mach...	Win10-ICD-3	Completed
Reconfigure virtual mach...	Win10-ICD-2	Completed
Power On virtual machine	Win10-ICD-1	Completed
Create virtual machine s...	Win10-ICD-1	Completed
Reconfigure virtual mach...	Win10-ICD-1	Completed
Delete virtual machine	cp-template-d2869...	Completed
Delete virtual machine	cp-replica-d53822b...	Completed
Power On virtual machine	Win10-ICD-4	Completed
Power On virtual machine	Win10-ICD-1	Completed
Power On virtual machine	Win10-ICD-5	Completed
Reconfigure virtual mach...	Win10-ICD-4	Completed

Now login to one of the VID floating desktops and see the changes. This is how you can update your golden image with whatever you need in the future.



REMOTE DESKTOP SERVICE HOST - RDSH is a role in Microsoft Remote Desktop Services (RDS) with which a server can host applications and desktop sessions for remote access by users. RDSH can offer organizations cost savings. A full operating system does not have to be deployed for each user.

I will be using just a Single RDSH Server for this exercise. Created a VM and patched. 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

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 Session 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.

i 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: <input type="text"/>		
Name	IP Address	Operating
VRDS.RAMLAN.CA	192.168.0.91	

1 Computer(s) found

Selected

Computer
▲ RAMLAN.CA (1)
VRDS

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
VRDS.RAMLAN.CA	192.168.0.91	

1 Computer(s) found

Selected

Computer
RAMLAN.CA (1) VRDS

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
VRDS.RAMLAN.CA	192.168.0.91	

1 Computer(s) found

Selected

Computer
RAMLAN.CA (1) VRDS

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)

VRDS.RAMLAN.CA

RD Web Access (1 server selected)

VRDS.RAMLAN.CA

RD Session Host (1 server selected)

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

VRDS.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		
VRDS.RAMLAN.CA	<div></div>	Succeeded
RD Web Access role service		
VRDS.RAMLAN.CA	<div></div>	Succeeded
RD Session Host role service		
VRDS.RAMLAN.CA	<div></div>	Succeeded

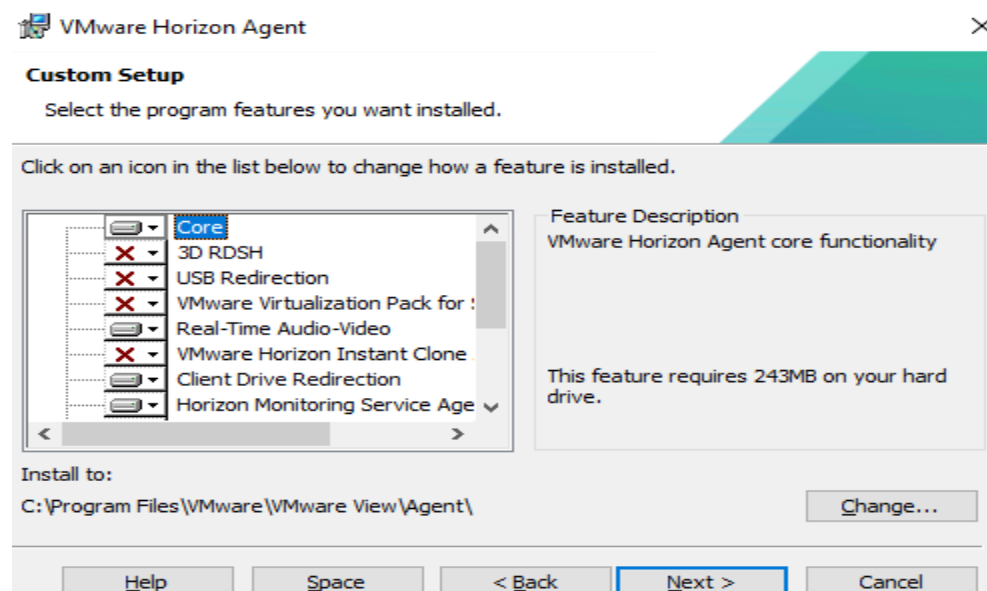
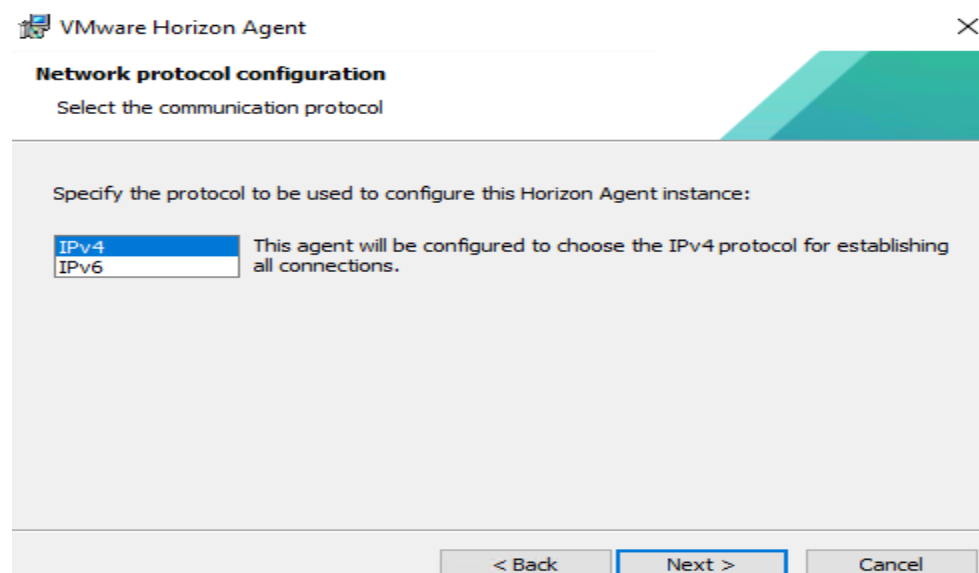
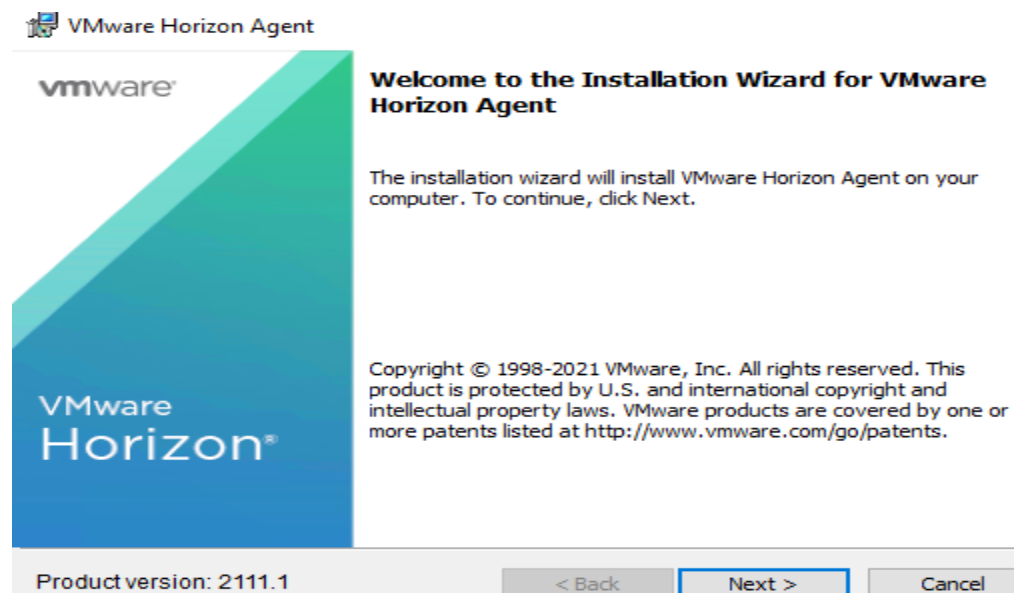
< Previous

Next >

Close

Cancel

HORIZON VIEW AGENT – Will install Agent and restart the server.



VMware Horizon Agent

Register with Horizon Connection Server

Enter the Horizon Connection Server that this machine will connect to.

Enter the server name of a Horizon Connection Server (standard or replica instance) and administrator login credentials to register this machine with the Horizon Connection Server.

(hostname or IP address)

Authentication: ☐ Authenticate as the currently logged on user
☒ Specify administrator credentials

Username: (Domain\User)

Password:

< Back Next > Cancel

VMware Horizon Agent

Ready to Install the Program

The wizard is ready to begin installation.

VMware Horizon Agent will be installed in:
C:\Program Files\VMware\VMware View\Agent\

Click Install to begin the installation or Cancel to exit the wizard.

< Back **Install** Cancel

VMware Horizon Agent

Installer Completed

The installer has successfully installed VMware Horizon Agent. Click Finish to exit the wizard.

VMware Horizon®

< Back **Finish** Cancel

I will install a number of applications on the RDS server, if we have to configure application pool later.

Organize ▾				
Name	Publisher	Installed On	Size	Version
7-Zip 21.07 (x64)	Igor Pavlov	12-May-20...	5.31 MB	21.07
Adobe Acrobat Reader DC	Adobe Systems Incorporated	12-May-20...	421 MB	22.001.20117
FileZilla Client 3.59.0	Tim Kosse	12-May-20...	41.0 MB	3.59.0
FileZilla FTP Client	FileZilla Project	12-May-20...	37.9 MB	3.50.0.0
Google Chrome	Google LLC	12-May-20...	83.0 MB	101.0.4951.67
Microsoft Edge	Microsoft Corporation	10-May-20...		101.0.1210.39
Microsoft Office LTSC Professional Plus 2021 - en-us	Microsoft Corporation	12-May-20...		16.0.14332.20145
Microsoft Office LTSC Professional Plus 2021 - fa-pr...	Microsoft Corporation	12-May-20...		16.0.14332.20145
Microsoft OneDrive	Microsoft Corporation	12-May-20...	152 MB	21.030.0211.0002
Microsoft Visual C++ 2015-2019 Redistributable (x64)...	Microsoft Corporation	12-May-20...	20.1 MB	14.29.30133.0
Microsoft Visual C++ 2015-2019 Redistributable (x86)...	Microsoft Corporation	12-May-20...	17.9 MB	14.29.30133.0
Mozilla Firefox (x64 en-CA)	Mozilla	12-May-20...	207 MB	100.0
Mozilla Maintenance Service	Mozilla	12-May-20...	314 KB	100.0
Notepad++ (64-bit x64)	Notepad++ Team	12-May-20...	13.4 MB	8.4.1
Teams Machine-Wide Installer	Microsoft Corporation	12-May-20...	116 MB	1.4.0.19572
VLC media player	VideoLAN	12-May-20...		3.0.17.4
VMware Horizon Agent	VMware, Inc.	12-May-20...	277 MB	8.4.0
VMware Tools	VMware, Inc.	28-Apr-2022	128 MB	11.3.5.18557794

RDSH Horizon View Configuration – Now we can complete the configuration on Connection Server.

Desktop Pools

Add

Edit

Duplicate

Add Pool

1 Type

- ☐ Automated Desktop Pool ⓘ
- ☐ Manual Desktop Pool ⓘ
- ☒ RDS Desktop Pool ⓘ

2 Desktop Pool Identification

3 Desktop Pool Settings

4 Select RDS Farms

5 Ready to Complete

Cancel

Previous

Next

Add Pool - RDSH_Server

✓ Type

2 Desktop Pool Identification

3 Desktop Pool Settings

4 Select RDS Farms

5 Ready to Complete

Asterisk (*) denotes required field

* ID ⓘ

RDSH_Server

Display Name ⓘ

VRDS

Description

Single RDSH Server for use with Connection Server

Cancel

Previous

Next

Add Pool - RDSH_Server

✓ Type

✓ Desktop Pool Identification

3 Desktop Pool Settings

4 Select RDS Farms

5 Ready to Complete

State

Enabled

Connection Server Restrictions

None [Browse](#)

Category Folder

None [Browse](#)

Client Restrictions ☐ Enabled

Allow Separate Desktop Sessions from Different Client Devices

No

Cancel

Previous

Next

Add Pool - RDSH_Server

✓ Type

✓ Desktop Pool Identification

✓ Desktop Pool Settings

4 Select RDS Farms

5 Identification and Settings

6 Load Balancing Settings

7 Select RDS Hosts

8 Ready to Complete

- ☒ Create a new RDS farm
- ☐ Select an RDS farm for this desktop pool

Filter

Farm ID	Description	RDS Hosts	Max Number of Connections	St
No records available.				
Rows per page 20 0 rows				

Cancel

Previous

Next

Asterisk (*) denotes required field

* ID

RDSH-Server-Farms

Description

Access Group

/

Farm Settings

Default Display Protocol ⓘ

VMware Blast

Allow Users to Choose Protocol

Yes

Pre-launch Session Timeout (Applications Only) ⓘ

After 10 minutes

Add Pool - RDSH_Server

✓ Type

✓ Desktop Pool Identification

✓ Desktop Pool Settings

✓ Select RDS Farms

5 Identification and Settings

6 Load Balancing Settings

7 Select RDS Hosts

8 Ready to Complete

Default Display Protocol ⓘ

VMware Blast

Allow Users to Choose Protocol

Yes

Pre-launch Session Timeout (Applications Only) ⓘ

After 10 minutes

Empty Session Timeout (Applications Only) ⓘ

After 1 minutes

When Timeout Occurs

Disconnect

Logoff Disconnected Sessions

Never

☐ Bypass Session Timeout ⓘ

Allow Session Collaboration ☐ Enabled ⓘ

Requires VMware Blast Protocol.

Cancel Previous Next

Add Pool - RDSH_Server

✓ Type

✓ Desktop Pool Identification

✓ Desktop Pool Settings

✓ Select RDS Farms

✓ Identification and Settings

6 Load Balancing Settings

7 Select RDS Hosts

8 Ready to Complete

Use Custom Script ☐ Enabled ⓘ

Include Session Count ☒ Enabled ⓘ

Asterisk (*) denotes required field

* CPU Usage Threshold

85 ⓘ

* Memory Usage Threshold

80 ⓘ

* Disk Queue Length Threshold

0 ⓘ

* Disk Read Latency Threshold

0 ⓘ

* Disk Write Latency Threshold

0 ⓘ

* Connecting Session Threshold

0 ⓘ

* Load Index Threshold

Cancel Previous Next

Add Pool - RDSH_Server

Type

Desktop Pool Identification

Desktop Pool Settings

Select RDS Farms

Identification and Settings

Load Balancing Settings

7 Select RDS Hosts

8 Ready to Complete

Select RDS hosts to add to the farm RDSH-Server-Farms

Filter

<input checked="" type="checkbox"/>	DNS Name	Type	Max Number of Connections	Status
<input checked="" type="checkbox"/>	vrds.ramlan.ca	Windows Server 2016 or above	150	Available

☒ 1

☐ ☐ ☐

☒ Deselect all Pages

Rows per page: 20 1 - 1 of 1 row(s)

Cancel

Previous

Next

Add Pool - RDSH_Server

Type

Desktop Pool Identification

Desktop Pool Settings

Select RDS Farms

Identification and Settings

Load Balancing Settings

Select RDS Hosts

8 Ready to Complete

☐ Entitle Users After Adding Pool

TypeRDS Desktop Pool

Unique IDRDSH_Server

DescriptionSingle RDSH Server for use with Connection Server

Display NameVRDS

Desktop Pool StateEnabled

Client RestrictionsDisabled

Connection Server RestrictionsNone

Category FolderNone

Allow Separate Desktop Sessions from Different Client DevicesNo

RDS FarmRDSH-Server-Farms

Cancel

Previous

Submit

Desktop Pools

Add

Edit

Duplicate

Delete




Entitlements

Status

Access Groups

View Untitled

Access Group All

<input type="checkbox"/>	ID	Display Name	Type	Source	User Assignment
<input type="checkbox"/>	 Instant-Clone-Win10	WIN10-IC-Floating-Desktop	Automated Desktop Pool	vCenter (instant clone)	Floating Assignment
<input type="checkbox"/>	 WIN10 Dedicated Full	Win 10 Desktop	Automated Desktop Pool	vCenter	Dedicated Assignment
<input type="checkbox"/>	 RDSH_Server	VRDS	RDS Desktop Pool	vCenter (instant clone)	Dedicated Assignment

Farms

[Add](#) [Edit](#) [Delete](#) [More Commands](#) [Access Group](#)

Access Group [All](#)

<input type="checkbox"/>	ID	Type	Source	RDS Hosts
<input type="checkbox"/>	RDSH-Server-Farms	Manual	vCenter	1

Entitlements – Now we can add users that can use RDSH Farm

Desktop Pools

[Add](#) [Edit](#) [Duplicate](#) [Delete](#) [Entitlements](#) [Status](#) [Access](#)

Access Group [All](#)

[Add Entitlements](#)
[Remove Entitlements](#)

<input type="checkbox"/>	ID	Display Name	Type
<input type="checkbox"/>	Instant-Clone-Win10	WIN10-IC-Floating-Desktop	Automated Desktop P
<input checked="" type="checkbox"/>	RDSH Server	VRDS	RDS Desktop Pool

Add Entitlements

Add new users and groups who can use the selected pool(s).

[Add](#) [Remove](#)

Find User or Group

Type ☒ Users ☒ Groups

Domain [Entire Directory](#)

Name/User Name [Starts with](#) [domain users](#)

Description [Starts with](#)

[Find](#)

<input checked="" type="checkbox"/>	Name	User Name	Email	Description	In Folder
<input checked="" type="checkbox"/>	Domain Users	Domain Users/RAMLAN...		All domain users	RAMLAN.CA/User

Add Entitlements

Add new users and groups who can use the selected pool(s).

AddRemove

<input type="checkbox"/>	Name	Domain	Email
<input type="checkbox"/>	Domain Users	RAMLAN.CA	

RDSH_Server

SummarySessionsEntitlementsEvents

EditDelete Desktop PoolEntitlementsStatus

General

Unique ID RDSH_Server	Type RDS Desktop Pool	Machine Source Remote Desktop Services
Display Name VRDS	Access Group /	State Enabled
Client Restrictions Disabled	Sessions 1	Entitled Users and Groups 1
Description Single RDSH Server for use with Connection Server		

Pool Settings

Allow Separate Desktop Sessions from Different Client Devices No	Connection Server Restrictions None	Category Folder None
Maximum Resolution of Any One Monitor Unknown		

RDS Farm

ID RDSH-Server-Farms	Application Pools 0	Number of RDS Hosts in the Farm 1
---	------------------------	--------------------------------------

RDSH_Server

SummarySessionsEntitlementsEvents

SessionsAll

Disconnect SessionLogoff SessionRestart DesktopReset Virtual MachineSend MessageFilter

<input type="checkbox"/>	User	Type	DNS Name	Client ID	Client Version
<input type="checkbox"/>	RAMLAN.CA\Administrator	Desktop	vrds.ramlan.ca		

RDSH_Server

SummarySessionsEntitlementsEvents

Add EntitlementsRemove Entitlements

<input type="checkbox"/>	Name	Sessions
<input type="checkbox"/>	Domain Users/RAMLAN.CA	✓

RDSH_Server

SummarySessionsEntitlementsEvents

Maximum Events2000Time in UTCRetrieve Event ObjectsUpdated 05/12/2022, 3:42 PM

FiltersTimePeriod: Last 1 dayClear All

User	Severity	Time	Module	Source	Message
RAMLAN.CA\ram	Audit success	05/12/2022, 3:41 PM	Visi	VCS01.RAMLAN.CA	RAMLAN.CA\ram entitled RAMLAN.CA\Domain Users to desktop VRDS
	Info	05/12/2022, 3:38 PM	Agent	VRDS.RAMLAN.CA	Machine vrds.ramlan.ca has been successfully reconfigured
	Info	05/12/2022, 3:38 PM	Agent	VRDS.RAMLAN.CA	The agent running on machine vrds.ramlan.ca has shut down, this machine will be unavailable
RAMLAN.CA\ram	Audit success	05/12/2022, 3:38 PM	Visi	VCS01.RAMLAN.CA	RAMLAN.CA\ram added Pool rdsh_server

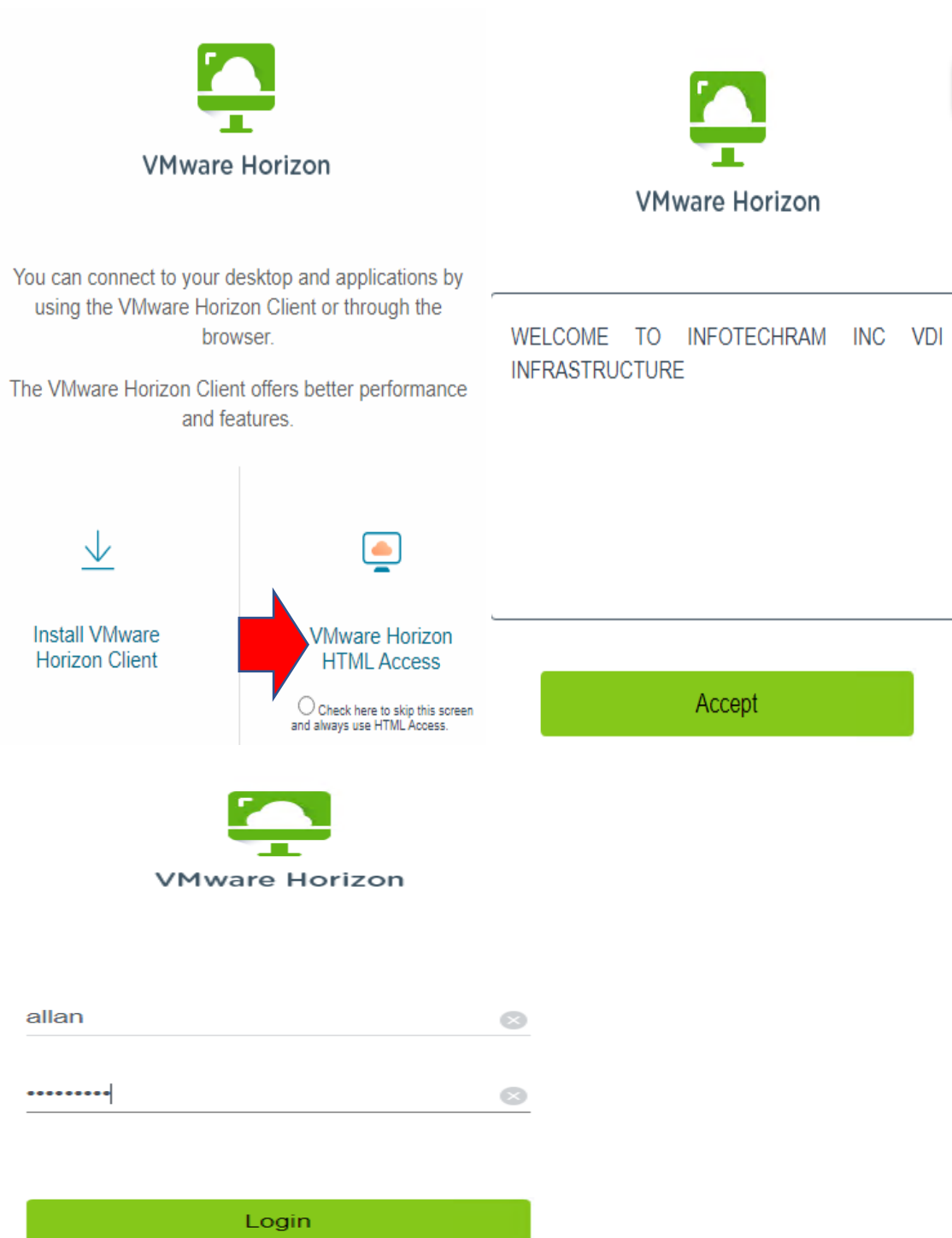
ACCESSING VDI DESKTOP - In order to access the VDI Desktop, users can log in through Edge or Chrome or Firefox browser or via horizon client from their laptop and type in connection server.

VMware Horizon HTML Access

HTML access is via VMware's Blast protocol.

<https://vcs01.ramlan.ca>

I am going to access above URL from another laptop using the browser and see what happens.



VMware Horizon

VMware Horizon

You can connect to your desktop and applications by using the VMware Horizon Client or through the browser.

The VMware Horizon Client offers better performance and features.

WELCOME TO INFOTECHRAM INC VDI INFRASTRUCTURE

Install VMware Horizon Client

VMware Horizon HTML Access

☐ Check here to skip this screen and always use HTML Access.

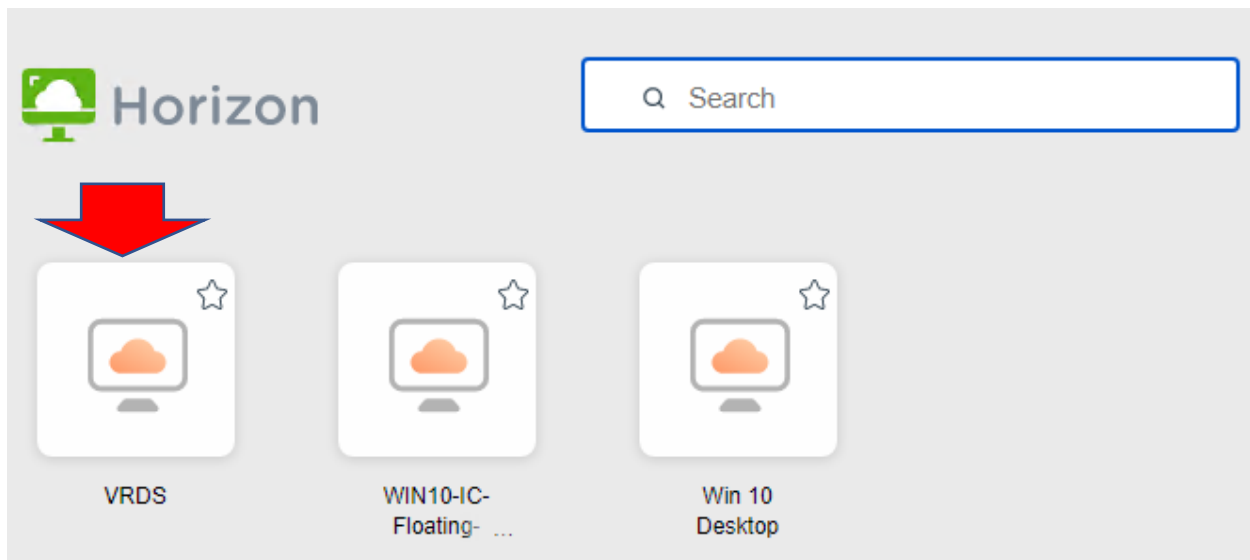
Accept

VMware Horizon

allan

.....

Login



If you want to just publish the applications so users can use through Connection Server that is also possible. I will describe the steps below.

On the RDSH Server, I did install a number of applications which, I will use for publishing.

Application Pools

Add ▼
Edit
Duplicate
Delete
Entitlements ▼
Application Icon ▼
More ▼

Add Manually
Add from Installed Applications ▼

<input type="checkbox"/>	ID	Display Name	Pool or Farm	Version
--------------------------	----	--------------	--------------	---------

Add Application Pool

1 Select Applications
2 Edit Applications

<input checked="" type="checkbox"/>	Word	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Wor...
<input type="checkbox"/>	Windows Administrative Tools	C:\Users\Default\AppData\Roaming\Microsoft\Windows\Start M...
<input checked="" type="checkbox"/>	Command Prompt	C:\Users\Default\AppData\Roaming\Microsoft\Windows\Start M...
<input type="checkbox"/>	Windows PowerShell (x86)	C:\Users\Default\AppData\Roaming\Microsoft\Windows\Start M...
<input checked="" type="checkbox"/>	Windows PowerShell	C:\Users\Default\AppData\Roaming\Microsoft\Windows\Start M...
<input type="checkbox"/>	Internet Explorer	C:\Program Files\Internet Explorer\iexplore.exe
<input type="checkbox"/>	Internet Explorer	C:\Program Files (x86)\Internet Explorer\iexplore.exe

☒ 20 ☐ Select all Pages Rows per page 20 41 - 60 of 60 rows K < 3 / 3 > X

☐ Pre-Launch

Connection Server Restrictions
None

Category Folder
None

☐ Client Restrictions

☒ Entitle Users After Adding Pool

Multi-Session Mode ⓘ
Disabled ▼

Edit the ID and display name for selected applications.

ID	Display Name	Path
7-Zip_File_Manager	7-Zip	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\7-Zip\7-Zip File Manager.Ink
Access	Access	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Access.Ink
Calculator	Calculator	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Accessories\Calculator.Ink
Notepad	Notepad	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Accessories\Notepad.Ink
Paint	Paint	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Accessories\Paint.Ink
Snipping_Tool	Snipping Tool	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Accessories\Snipping Tool.Ink
Acrobat_Reader_DC	Acrobat Reader DC	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Acrobat Reader DC.Ink
Excel	Excel	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Excel.Ink
FileZilla_FTP_Client	FileZilla	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\FileZilla\FileZilla FTP Client.Ink
Firefox	Firefox	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Firefox.Ink
Google_Chrome	Chrome	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Google Chrome.Ink
Microsoft_Edge	Edge	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft Edge.Ink
Notepad-1	Notepad++	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Notepad++.Ink
OneNote	OneNote	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\OneNote.Ink
Outlook	Outlook	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Outlook.Ink
PowerPoint	PowerPoint	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\PowerPoint.Ink
VLC_media_player	VLC	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\VideoLAN\VLC media player.Ink
Word	Word	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Word.Ink
Command_Prompt	Command Prompt	C:\Users\Default\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\System Tools\Command Prompt.Ink

Add Application Pool

✓ Select Applications

2 Edit Applications

Google_Chrome	Chrome	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Google Chrome.Ink
Microsoft_Edge	Edge	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Microsoft Edge.Ink
Notepad-1	Notepad++	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Notepad++.Ink
OneNote	OneNote	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\OneNote.Ink
Outlook	Outlook	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Outlook.Ink
PowerPoint	PowerPoint	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\PowerPoint.Ink
VLC_media_player	VLC	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\VideoLAN\VLC media player.Ink
Word	Word	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\Word.Ink
Command_Prompt	Command Prompt	C:\Users\Default\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\System Tools\Command Prompt.Ink
Windows_PowerShell	Windows PowerShell	C:\Users\Default\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Windows PowerShell\Windows PowerShell.Ink

Cancel

Previous

Submit

Add Entitlements

Add new users and groups who can use the selected pool(s).

Add

Remove

Add Entitlements

Add new users and groups who can use the selected pool(s).

Add

Remove

<input type="checkbox"/>	Name	Domain	Email
<input type="checkbox"/>	Domain Users	RAMLAN.CA	

Select all Pages

Rows per page201 - 1 of 1 row(s)

Cancel

OK

Just an example for an application

7-Zip_File_Manager

[Summary](#) [Entitlements](#) [Events](#)

Edit

Delete

Entitlements ▾

More ▾

General

ID	7-Zip_File_Manager	Display Name	7-Zip	Access Group	/
Pool or Farm	RDSH-Server-Farms	Version	21.07	State	Enabled
Publisher	Igor Pavlov	Start Folder		Parameters	
Entitled Users and Groups	1	Anti-Affinity Patterns		Anti-Affinity Count	
Pre-Launch	Disabled	Multi-Session Mode	Disabled	Connection Server Restrictions	None
Client Restrictions	Disabled	Category Folder	None	Path	C:\ProgramData\Microsoft\Windows\Start Menu\Programs\7-Zip\7-Zip File Manager.lnk

7-Zip_File_Manager

[Summary](#) [Entitlements](#) [Events](#)

Add Entitlements

Remove Entitlements

☐ Name

☐ Domain Users/RAMLAN.CA

7-Zip_File_Manager

[Summary](#) [Entitlements](#) [Events](#)

Maximum Events

2000 ▾

☐ Time in UTC ☐ Retrieve Event Objects ⓘ Updated 05/12/2022, 4:19 PM

Filters

TimePeriod: Last 1 day

[Clear All](#)

User	Severity	Time	Module	Source	Message
RAMLAN.CA\ram	Audit success	05/12/2022, 4:18 PM	Vlsi	VCS01.RAMLAN.CA	RAMLAN.CA\ram entitled RAMLAN.CA\Domain Users to application 7-Zip
RAMLAN.CA\ram	Audit success	05/12/2022, 4:17 PM	Vlsi	VCS01.RAMLAN.CA	RAMLAN.CA\ram unentitled RAMLAN.CA\Domain Users from application 7-Zip

Now let me login as user through the browser and see what application shows up

<https://vcs01.ramlan.ca>

VMware Horizon

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VMware Horizon HTML Access
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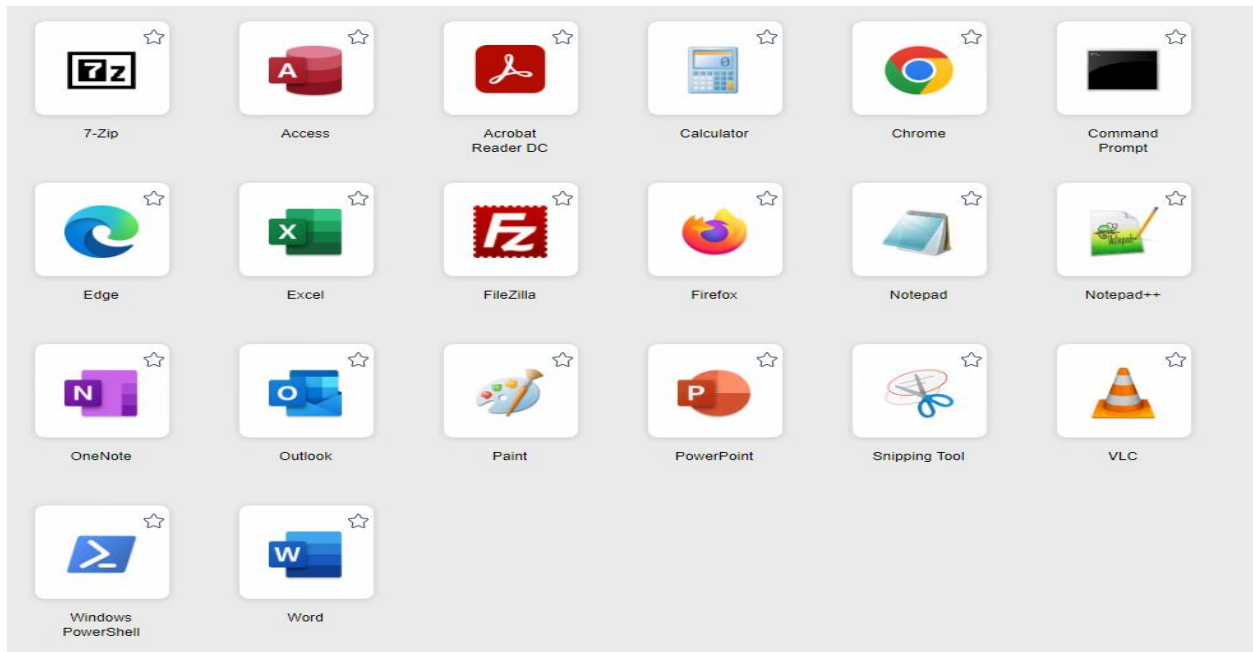
WELCOME TO INFOTECHRAM INC VDI INFRASTRUCTURE

allan

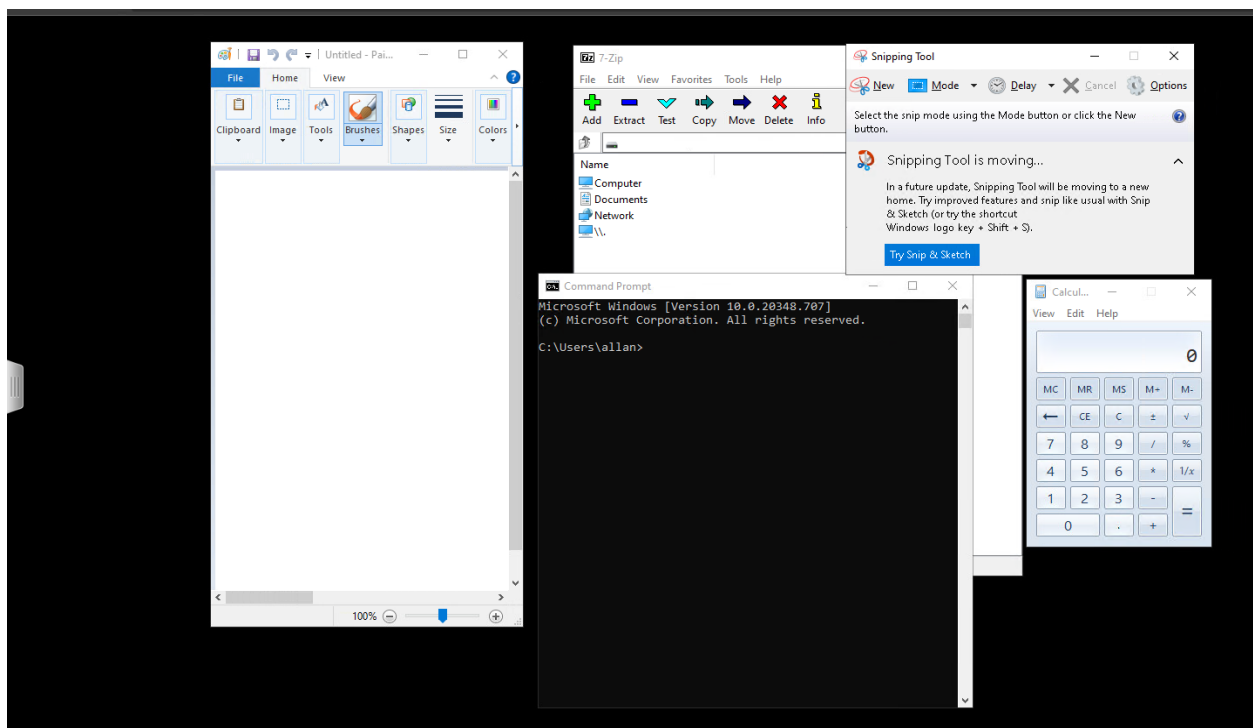
.....

Accept

Login



I was able to open multiple applications as well. You can publish any application that is installed on the RDSH Server.

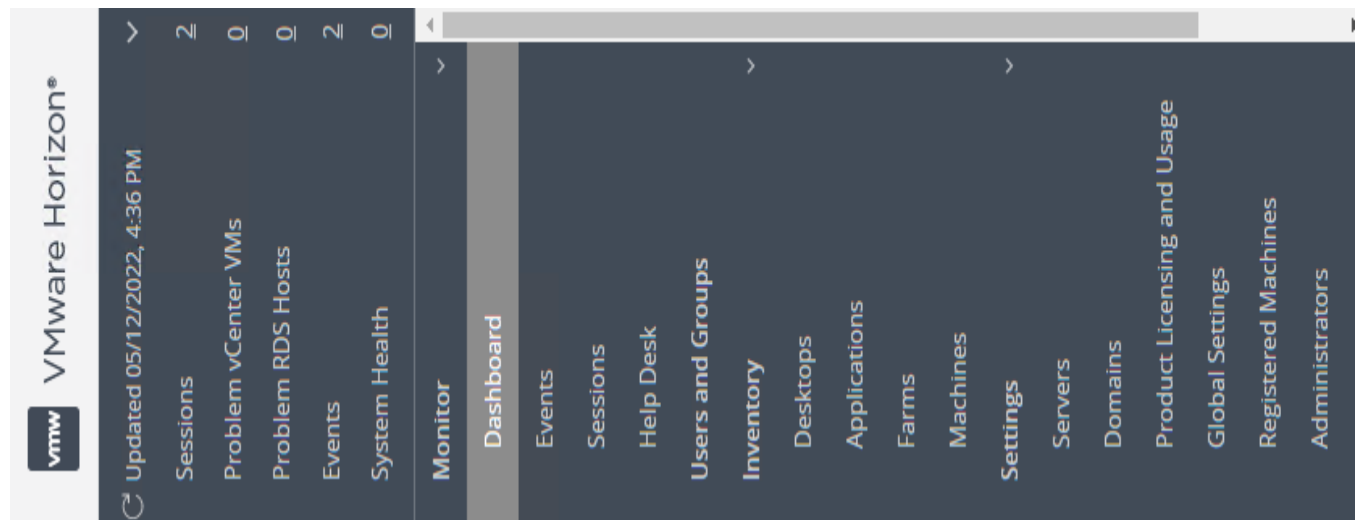
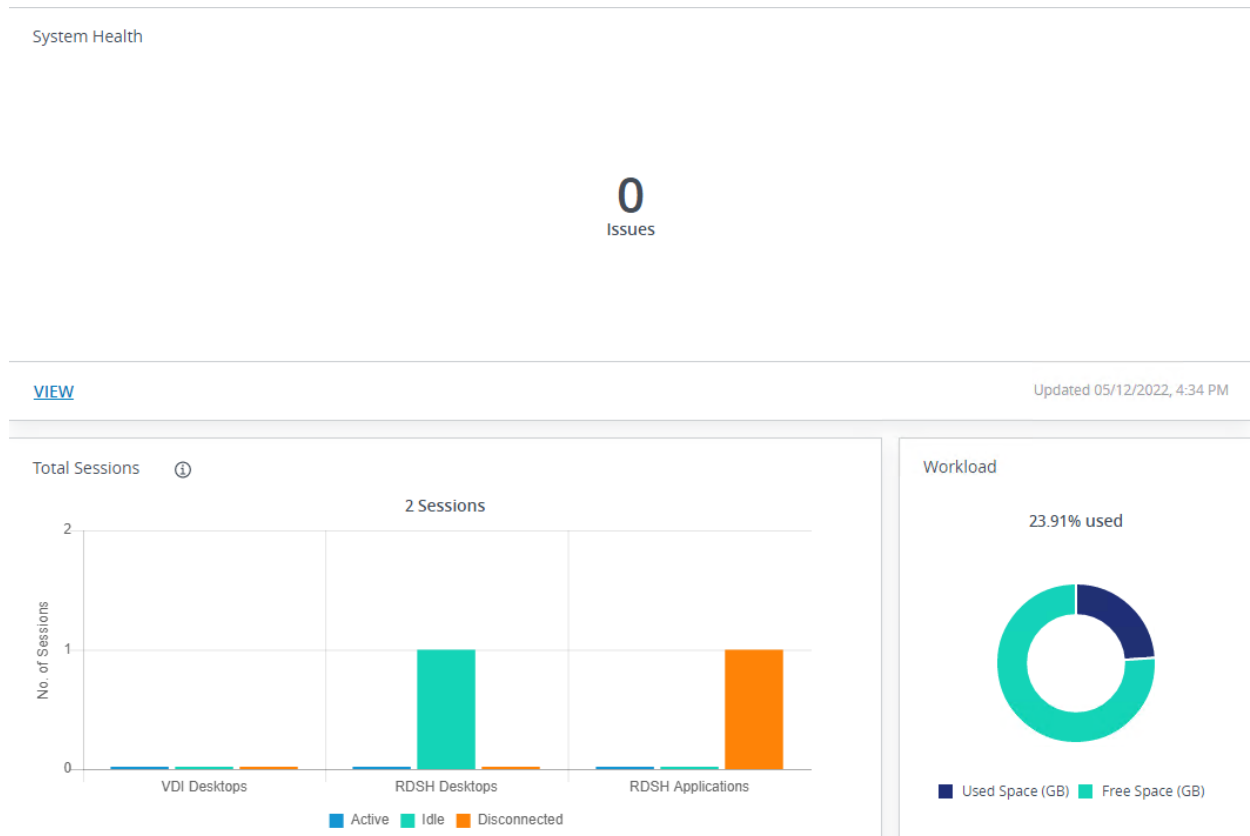


With this, I have completed everything for VMWare Horizon View 2111.

Thanks

Ram

12th May 2022



WIN10_Dedicated_Full
Win 10 Desktop
Win10-Desk-{n}
Instant-Clone-Win10
WIN10-IC-Floating-Desktop
Win10-ICD-{n}