

# Installing vCenter Server Appliance

In this post, I will be installing vCenter Server Appliance using Windows Server 2019 virtual machine. Now we will mount the ISO and start vCenter Server 7 Appliance install.

Please note this...

There are many enhancement and features available with the latest vSphere 7.0 version and there are three important information you should know before upgrading or installing vCenter 7.0

- **Removal of External Platform Services Controller**

To deploy or upgrading vCenter Server in vSphere 7.0 requires the use of vCenter Server appliance only With vCenter Server 7.0 all Platform Services Controller (PSC) services, preserving the functionality and workflows, including authentication, certificate management, and licensing. And no longer necessary nor possible to deploy and use an external Platform Services Controller with vCenter 7.0. All PSC services have been consolidated into vCenter Server, and deployment and administration have been simplified.

- **Removal of vCenter Server for Windows Support**

In vSphere 7.0, vCenter Server for Windows has been removed and support is not available

- **Deprecation of Image-Based Backup and Restore Support for vCenter Server**

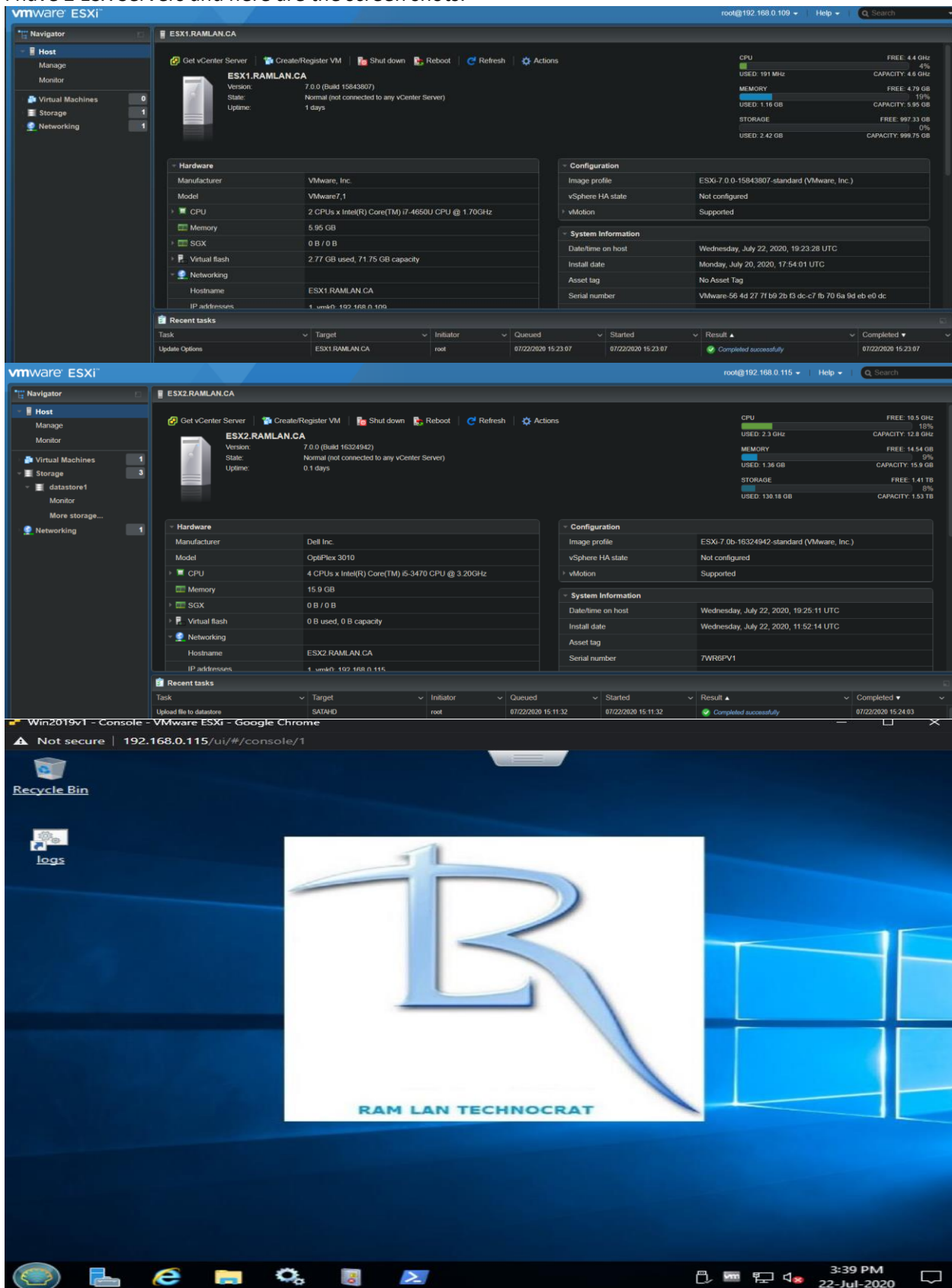
Image-based backup and restore for vCenter Server is deprecated in vCenter Server 7.0 and will not be supported in a future vSphere release

## vCenter Server 7.0

The vCenter Server Appliance is a preconfigured virtual machine that is optimized for running vCenter Server and the associated services. Center Server provides a centralized platform for management, operation, resource provisioning, and performance evaluation of virtual machines and hosts.


The vCenter Server group of services contains vCenter Server, vSphere Client, vSphere Auto Deploy, and vSphere ESXi Dump Collector. The vCenter Server appliance also contains the VMware vSphere Lifecycle Manager Extension service and the VMware vCenter Lifecycle Manager.




I have 2 ESX Servers and here are the screen shots.






















Before we start vCenter install, I created these entries on the DNS

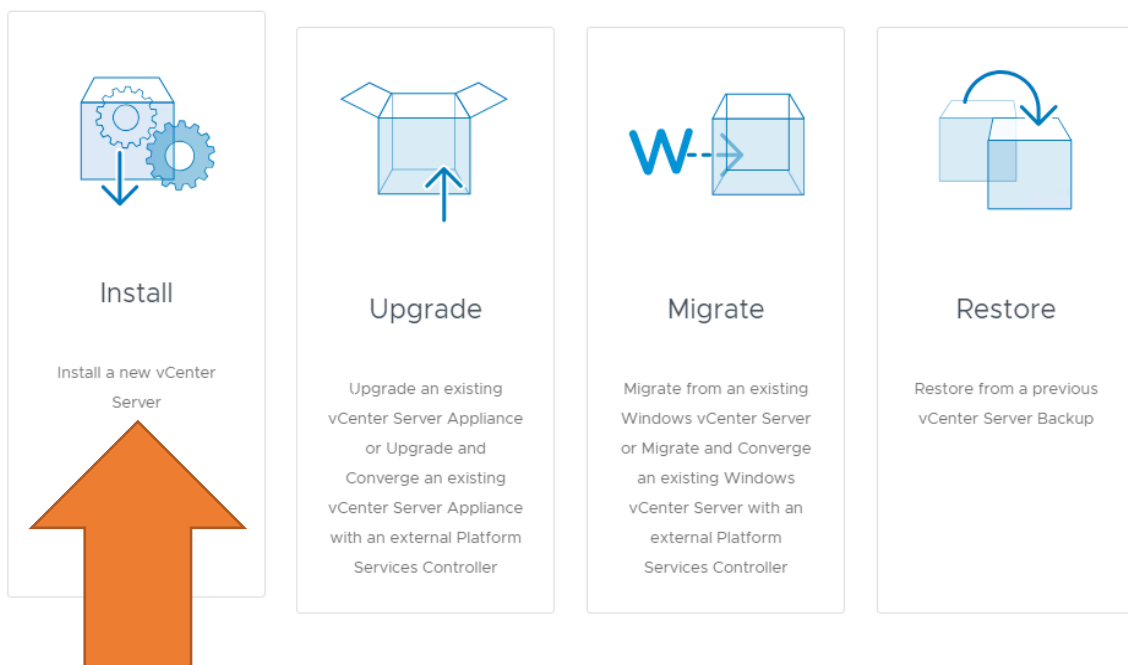
ESX1	Host (A)		static
ESX2	Host (A)		static
VC	Host (A)		22-Jul-2020 3:00:00 PM
VCENTER	Host (A)		static

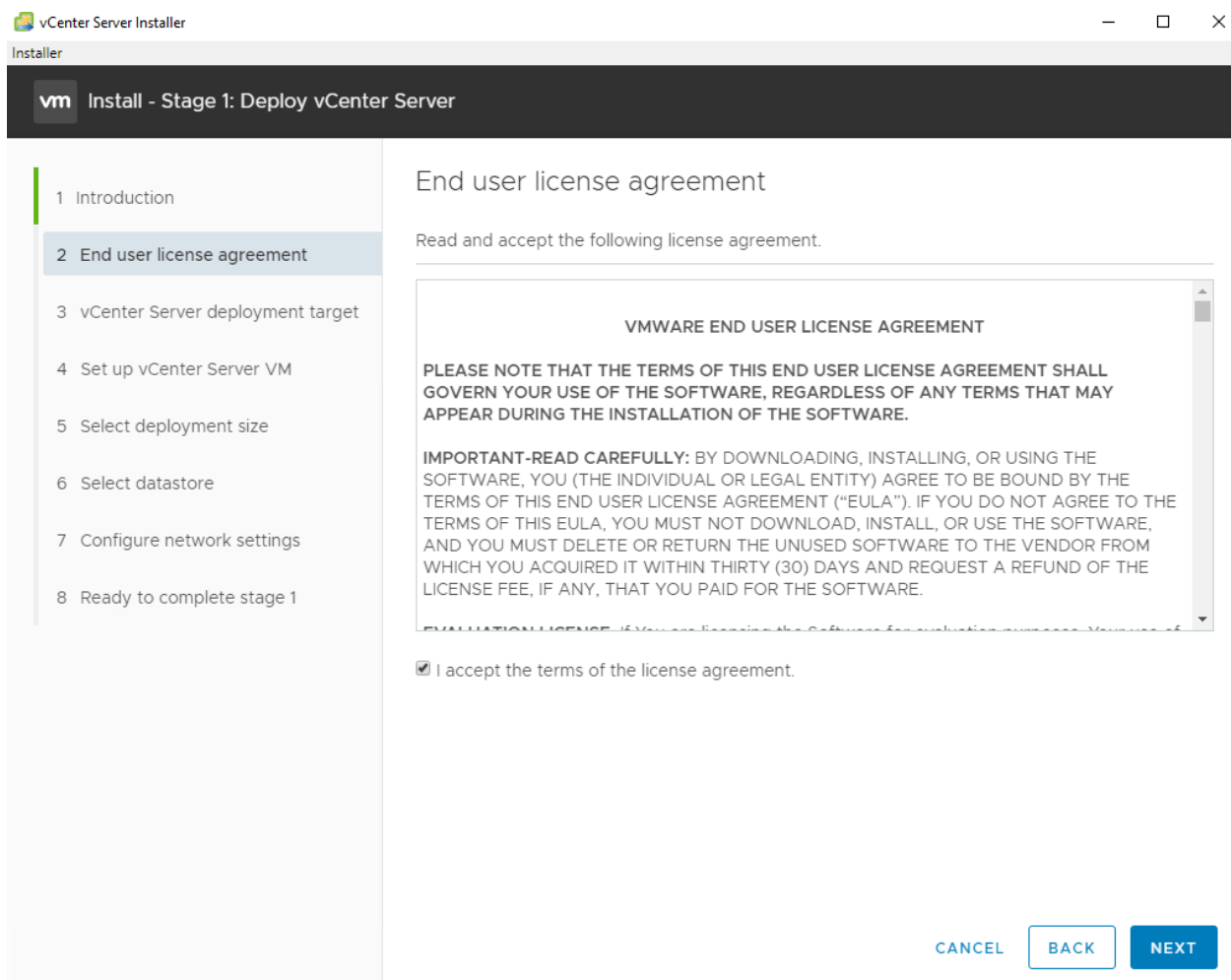
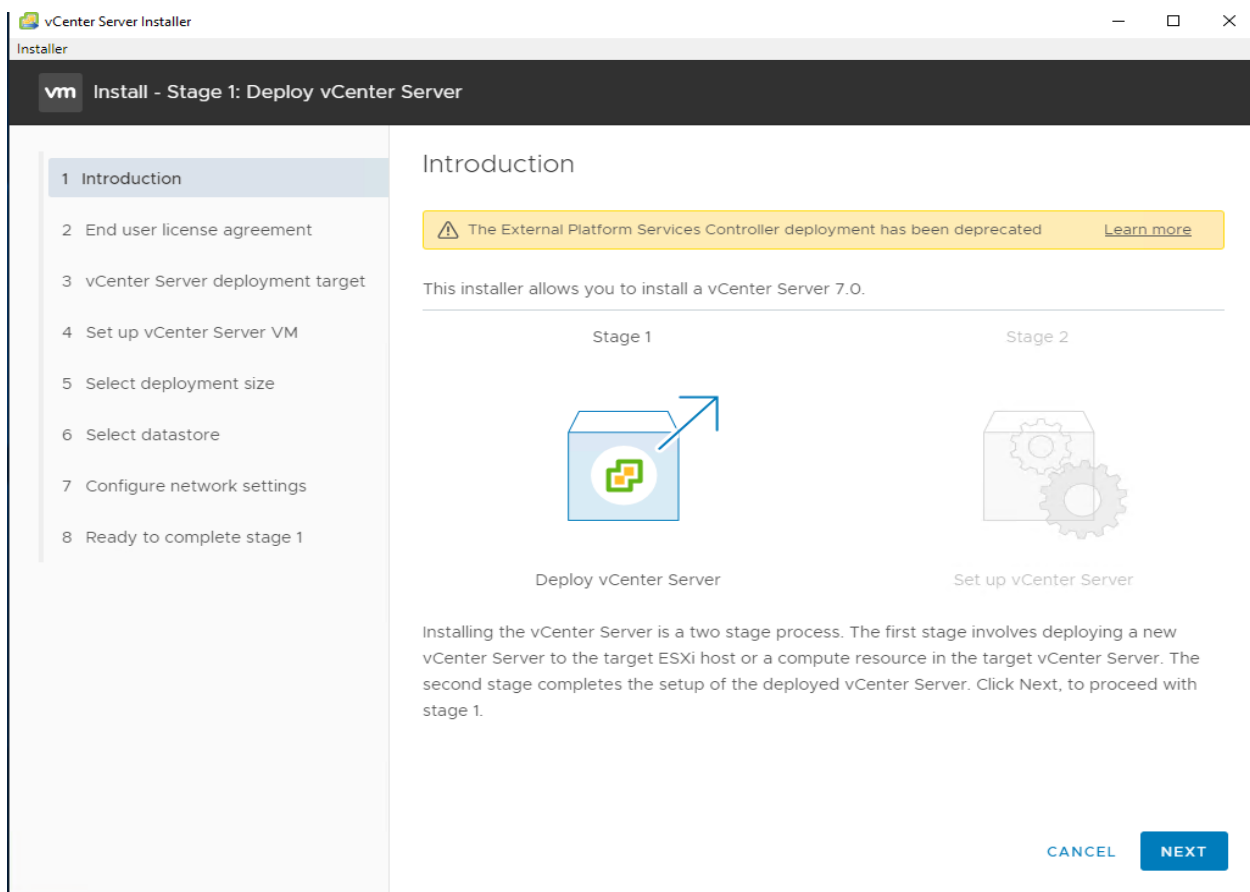
Name	Date modified	Type	Size
 <a href="#">VMware-VCSA-all-7.0.0-16386292</a>	22-Jul-2020 8:25 AM	Disc Image File	7,048,130 KB

Name
 VMware-VCSA-all-7.0.0-16386292
 New Text Document
 Mount

**PLEASE NOTE THIS IS VCSA AND NOT Vcenter for Windows**

Name	Date modified	Type	Size
 <a href="#">locales</a>	11-Jun-2020 6:50 ...	File folder	
 <a href="#">resources</a>	11-Jun-2020 6:50 ...	File folder	
 <a href="#">swiftshader</a>	11-Jun-2020 6:50 ...	File folder	
 <a href="#">chrome_100_percent.pak</a>	04-May-2020 4:51 ...	PAK File	164 KB
 <a href="#">chrome_200_percent.pak</a>	04-May-2020 4:51 ...	PAK File	244 KB
 <a href="#">d3dcompiler_47.dll</a>	04-May-2020 4:51 ...	Application extens...	3,573 KB
 <a href="#">ffmpeg.dll</a>	04-May-2020 4:52 ...	Application extens...	1,959 KB
 <a href="#">icudtl.dat</a>	04-May-2020 4:51 ...	DAT File	9,982 KB
 <a href="#">installer</a>	04-May-2020 4:52 ...	Application	77,985 KB
 <a href="#">libEGL.dll</a>	04-May-2020 4:52 ...	Application extens...	105 KB
 <a href="#">libGLESv2.dll</a>	04-May-2020 4:52 ...	Application extens...	4,228 KB
 <a href="#">LICENSE</a>	04-May-2020 4:51 ...	File	2 KB
 <a href="#">LICENSES.chromium</a>	04-May-2020 4:51 ...	HTML Document	1,948 KB
 <a href="#">natives_blob.bin</a>	04-May-2020 4:51 ...	BIN File	123 KB
 <a href="#">osmesa.dll</a>	04-May-2020 4:52 ...	Application extens...	2,626 KB
 <a href="#">resources.pak</a>	04-May-2020 4:51 ...	PAK File	8,517 KB
 <a href="#">snapshot_blob.bin</a>	04-May-2020 4:51 ...	BIN File	1,187 KB
 <a href="#">v8_context_snapshot.bin</a>	04-May-2020 4:51 ...	BIN File	1,487 KB
 <a href="#">version</a>	04-May-2020 4:51 ...	File	1 KB





vCenter Server Installer

Installer

vm Install - Stage 1: Deploy vCenter Server

1 Introduction

2 End user license agreement

3 vCenter Server deployment target

4 Set up vCenter Server VM

5 Select deployment size

6 Select datastore

7 Configure network settings

8 Ready to complete stage 1

vCenter Server deployment target

Specify the vCenter Server deployment target settings. The target is the ESXi host or vCenter Server instance on which the vCenter Server will be deployed.

ESXi host or vCenter Server name

ESX2.RAMLAN.CA

HTTPS port

443

User name

root

Password

.....

CANCEL

BACK

NEXT

## Certificate Warning

If an untrusted SSL certificate is installed on ESX2.RAMLAN.CA, secure communication cannot be guaranteed. Depending on your security policy, this issue might not represent a security concern.

The SHA1 thumbprint of the certificate is:

DC:14:F0:AA:B1:32:30:B6:A7:DF:20:C0:37:C4:E3:76:50:59:14:DA

To accept and continue, click Yes

NO

YES

vCenter Server Installer

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Set up vCenter Server VM

Specify the VM settings for the vCenter Server to be deployed.

VM name

VCENTER

Set root password

.....

Confirm root password

.....

CANCEL

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vCenter Server Installer

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Select deployment size

Select the deployment size for this vCenter Server.

For more information on deployment sizes, refer to the vSphere 7.0 documentation.

Deployment size

Tiny

Storage size

Default

Resources required for different deployment sizes

Deployment Size	vCPUs	Memory (GB)	Storage (GB)	Hosts (up to)	VMs (up to)
Tiny	2	12	415	10	100
Small	4	19	480	100	1000
Medium	8	28	700	400	4000
Large	16	37	1065	1000	10000
X-Large	24	56	1805	2000	35000

CANCEL

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vm

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Select datastore

Select the storage location for this vCenter Server

☒ Install on an existing datastore accessible from the target host

☒ Show only compatible datastores

Name	Type	Capacity	Free	Provisioned	Thin Provisioning
Datastore5	VMFS-6	999.75 GB	997.33 GB	2.42 GB	Supported
datastore1	VMFS-6	104.75 GB	103.34 GB	1.41 GB	Supported
SATAHD	VMFS-6	465.5 GB	339.15 GB	126.35 GB	Supported

3 items

☒ Enable Thin Disk Mode ⓘ

☐ Install on a new vSAN cluster containing the target host ⓘ

CANCEL

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vm

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Configure network settings

Configure network settings for this vCenter Server

Network

VM Network ⓘ

IP version

IPv4

IP assignment

static

FQDN

VCENTER.RAMLAN.CA ⓘ

IP address

192.168.0.117

Subnet mask or prefix length

255.255.255.0 ⓘ

Default gateway

192.168.0.1

DNS servers

192.168.0.2

Common Ports

HTTP

80

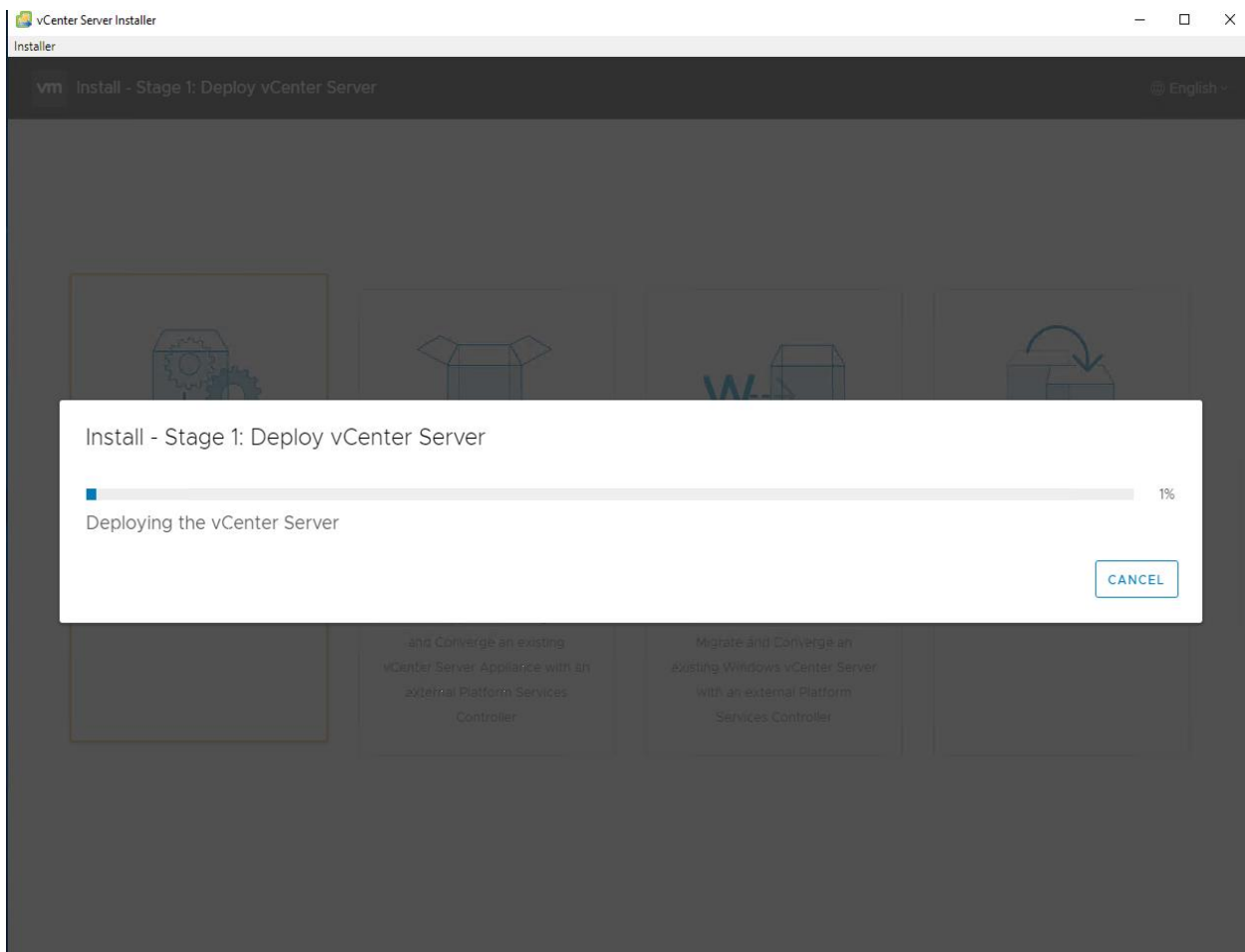
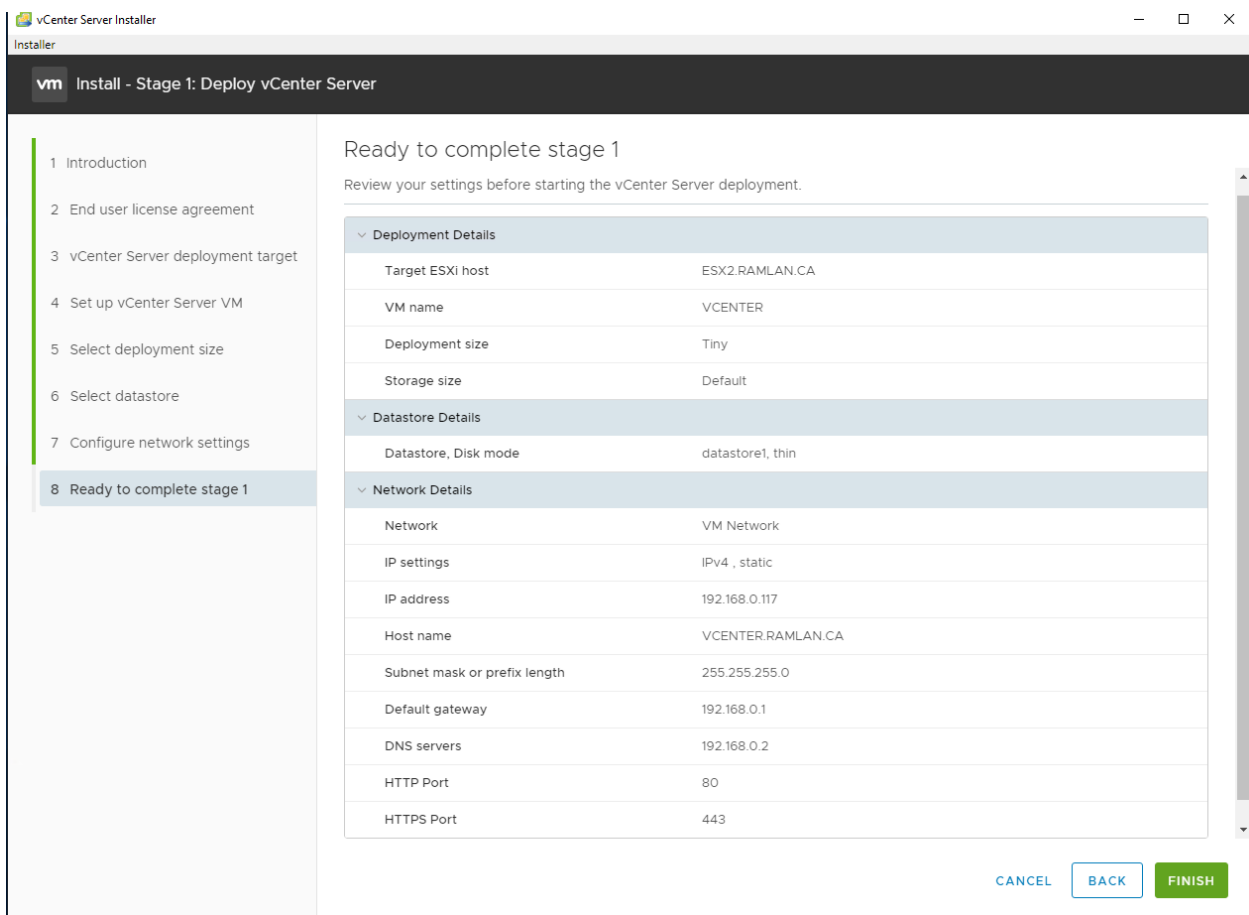
HTTPS

443

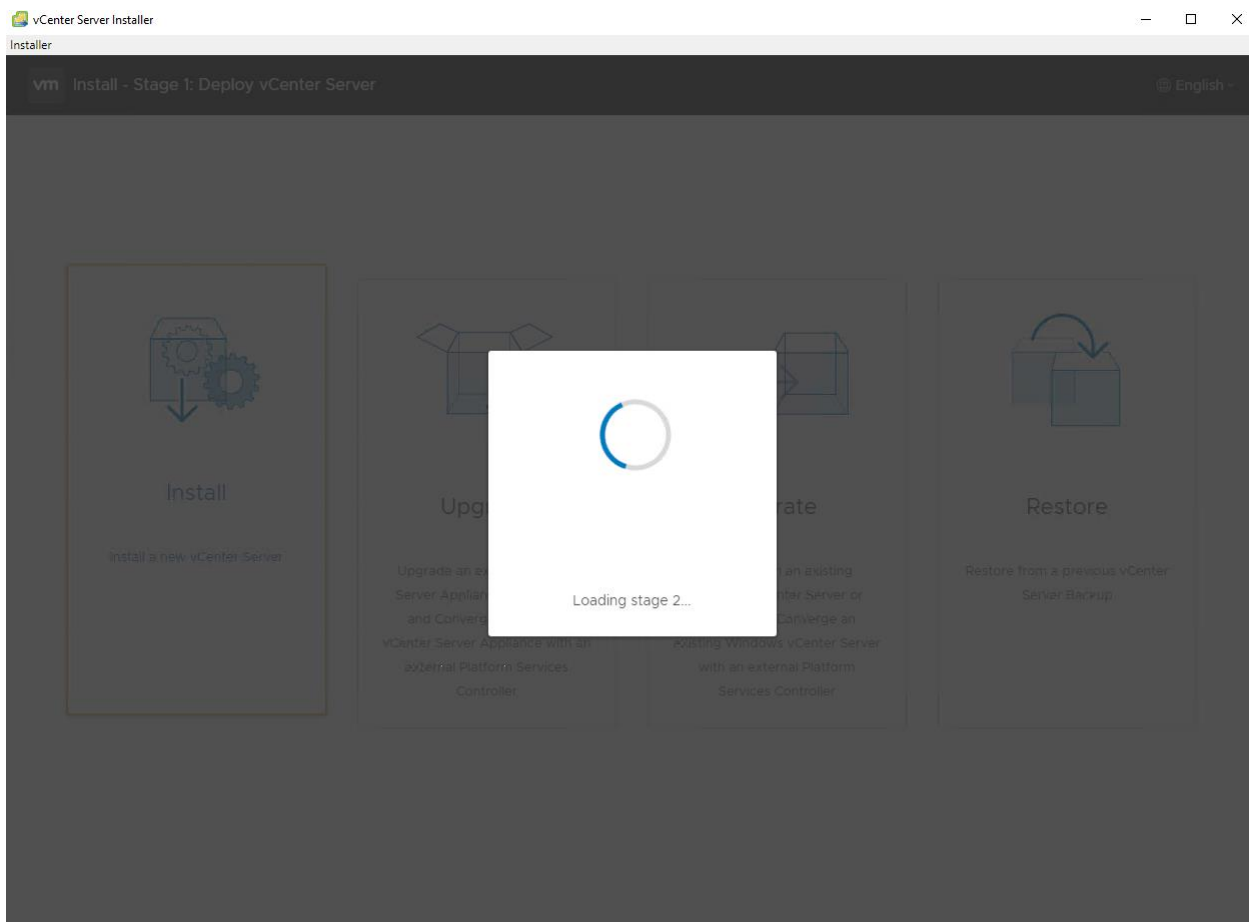
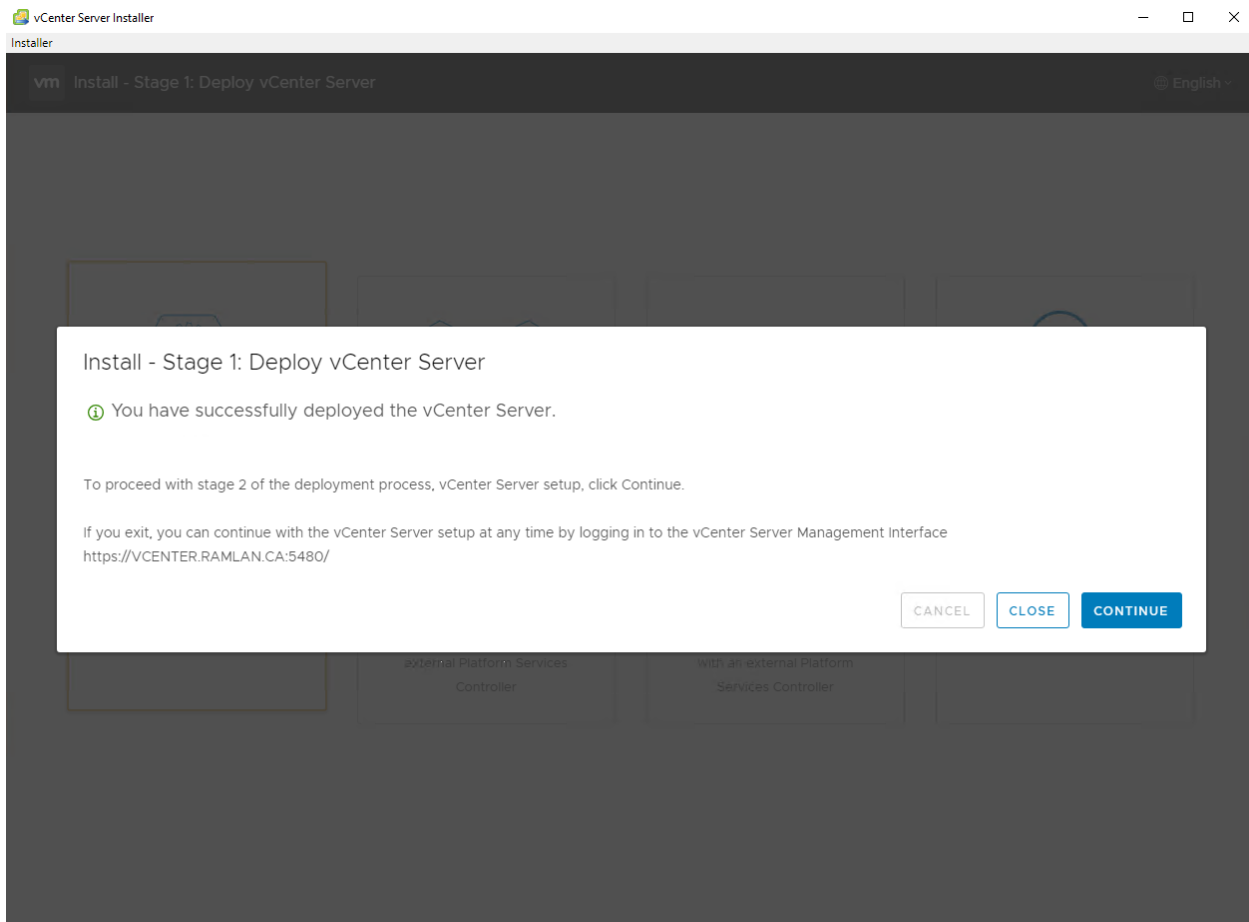
CANCEL

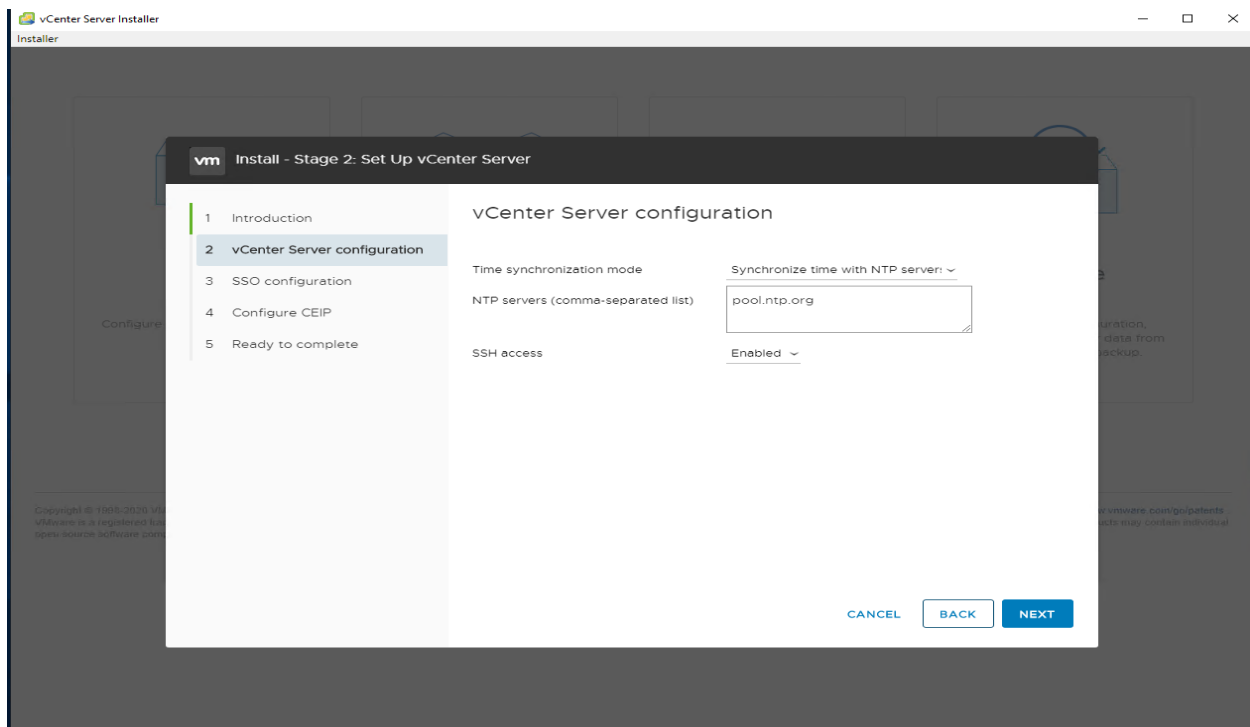
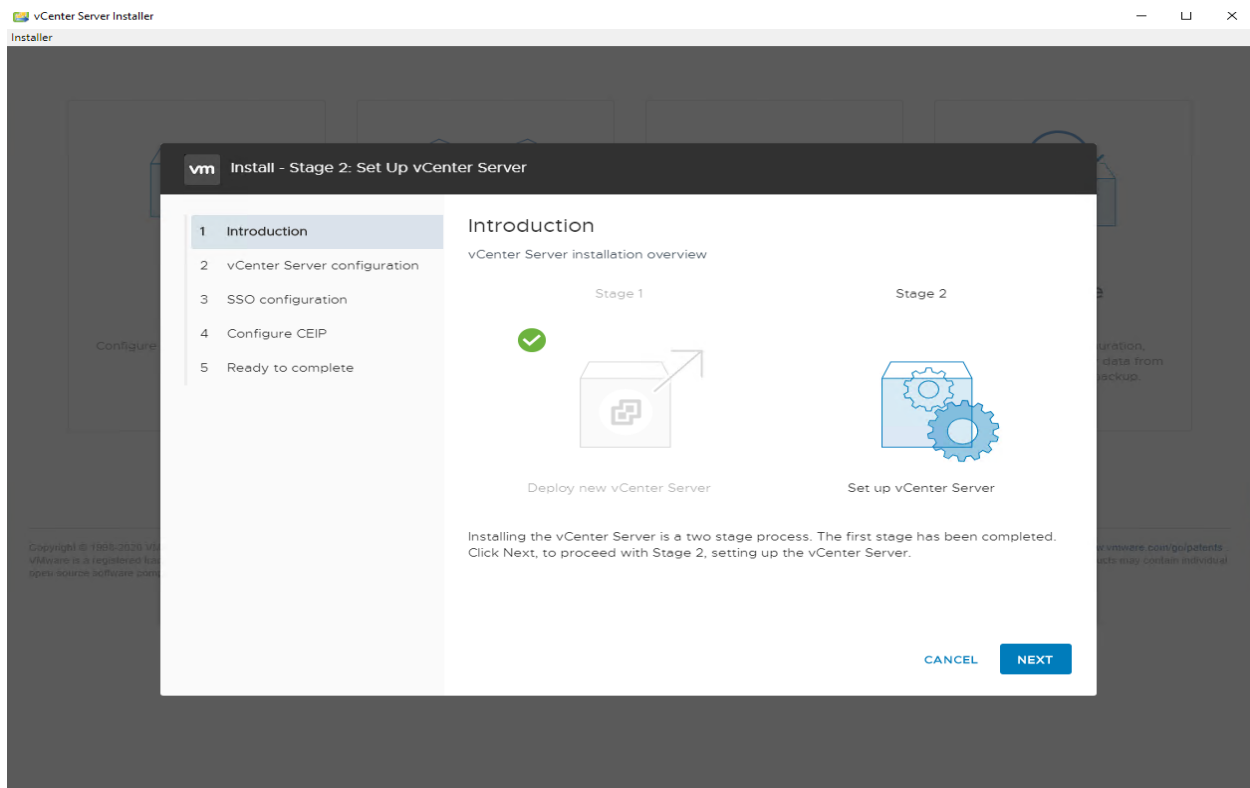
BACK

NEXT









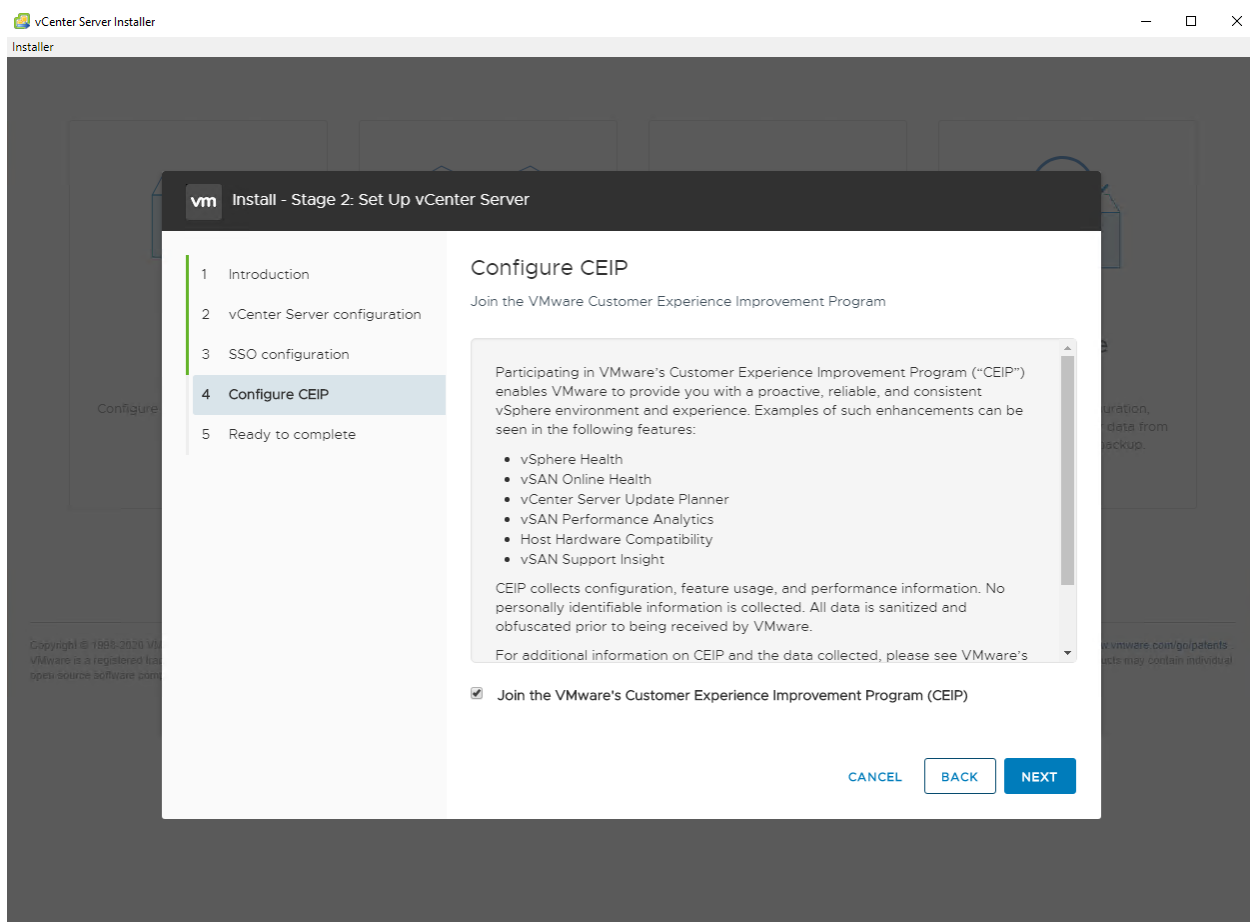
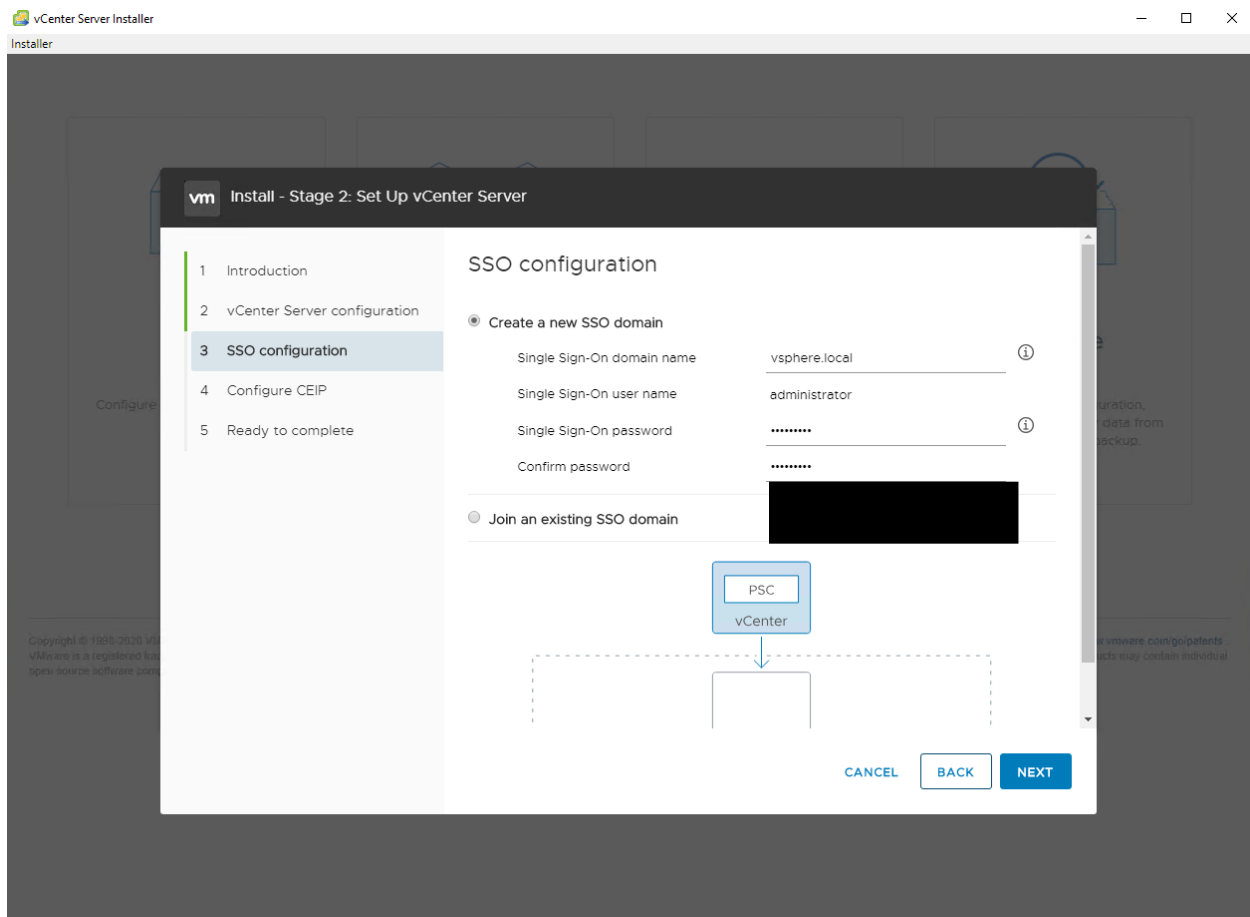
## IP Address change warning!

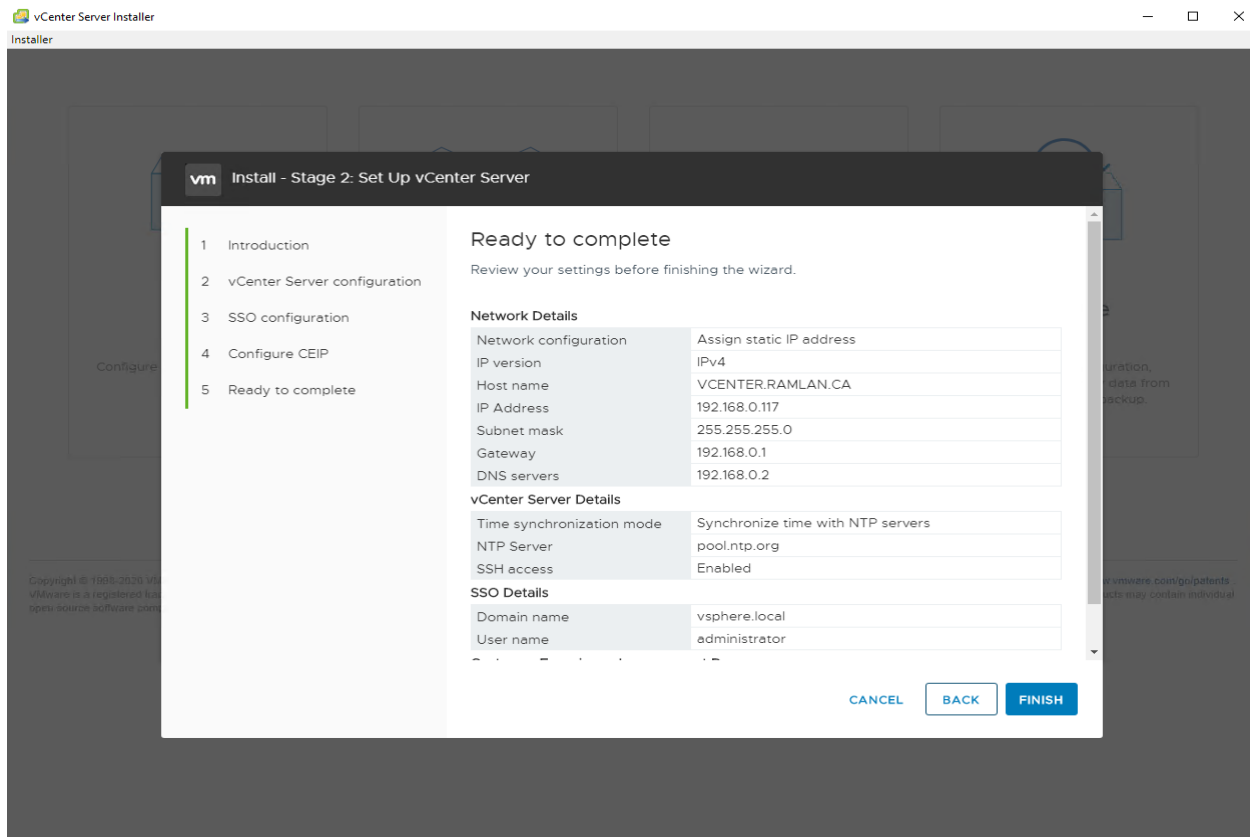


You are about to modify the IP address for this vCenter Server. You might lose connectivity for a few minutes. Also, you might be redirected to the following URL: <https://192.168.0.117:5480>

CANCEL

OK





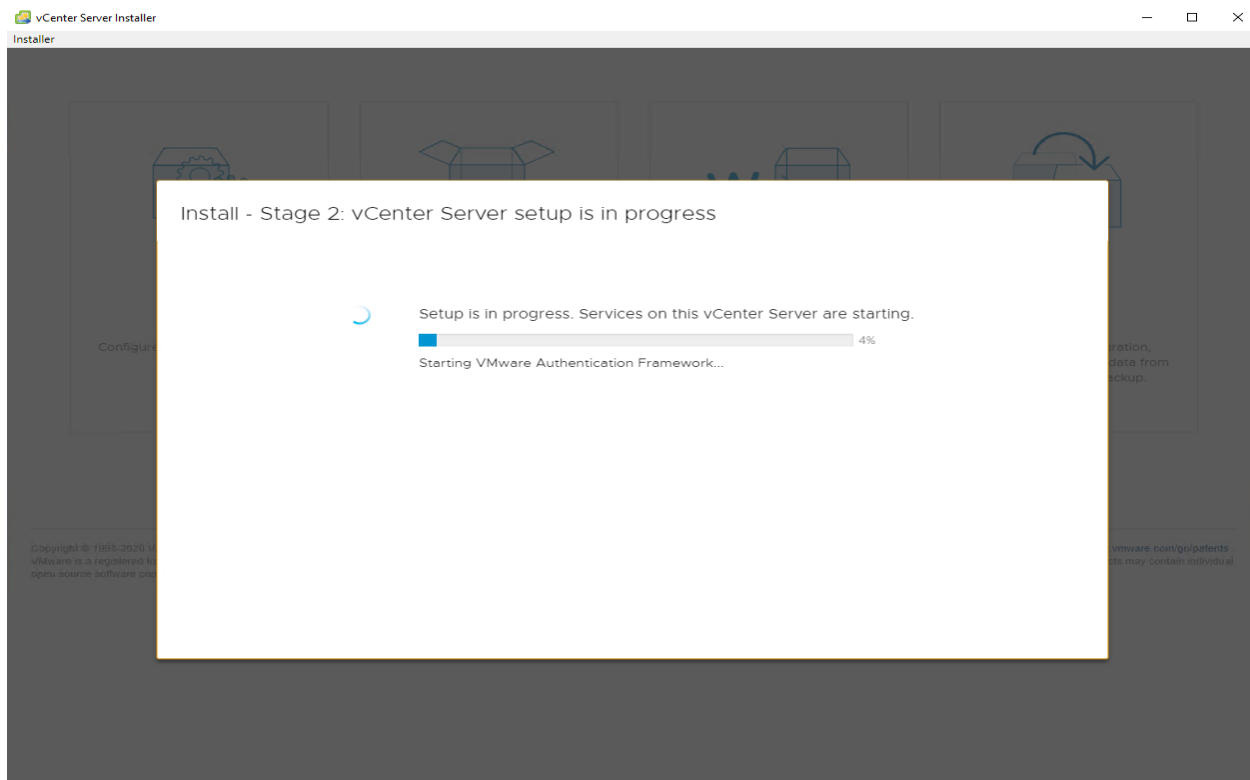
## Warning

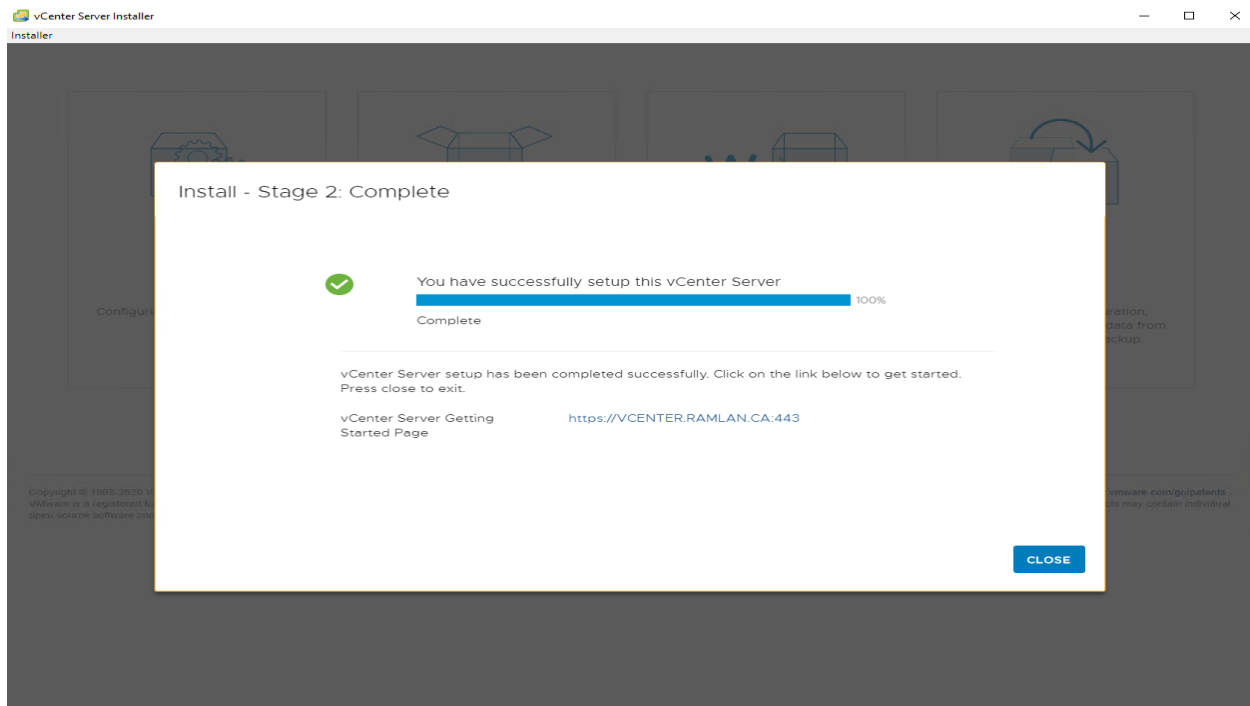


You will not be able to pause or stop the install from completing once its started. Click OK to continue, or Cancel to stop the install.

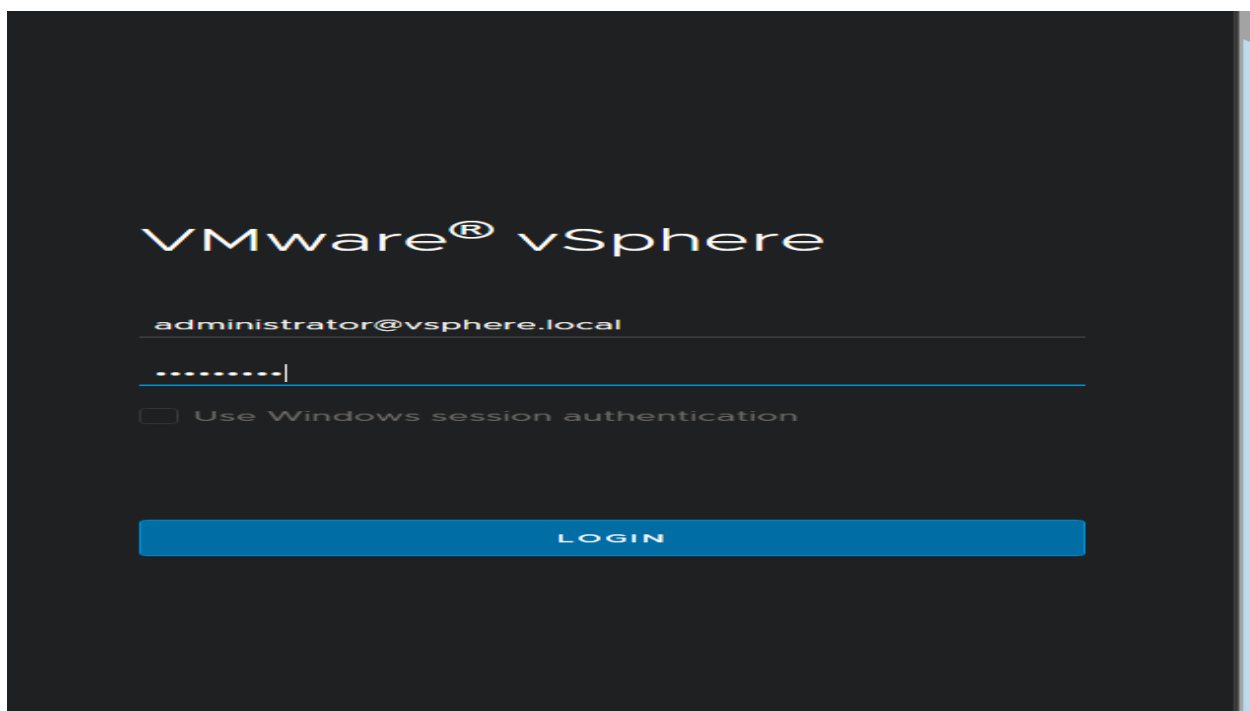
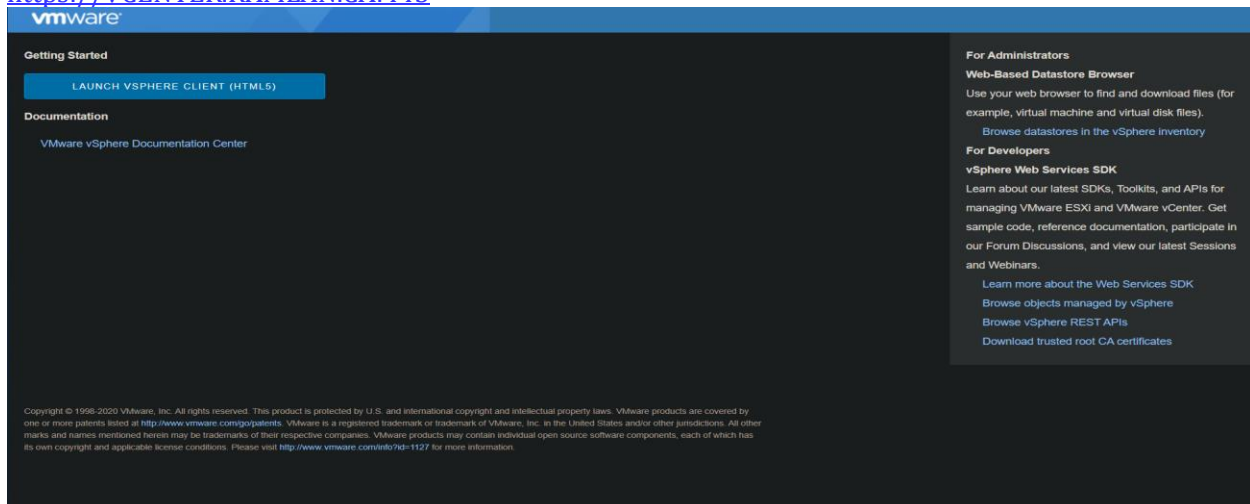
CANCEL

OK





<https://VCENTER.RAMLAN.CA:443>



vm vSphere Client Menu Search in all environments Administrator@VSPHERE.LOCAL

VCENTER.RAMLAN.CA ACTIONS

Summary Monitor Configure Permissions Datacenters Hosts & Clusters VMs Datastores Networks Linked vCenter Server Systems

Version: 7.0.0  
Build: 16386335  
Last Updated: Jul 22, 2020, 5:25 PM  
Last File-Based Backup: Not scheduled

CPU: Free: 0 Hz  
Used: 0 Hz Capacity: 0 Hz  
Memory: Free: 0 B  
Used: 0 B Capacity: 0 B  
Storage: Free: 0 B  
Used: 0 B Capacity: 0 B

Clusters: 0  
Hosts: 0  
Virtual Machines: 0

Custom Attributes

Attribute	Value
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Health Status

Overall Health: Good

APPLIANCE MANAGEMENT

vCenter HA

Mode

Recent Tasks Alarms

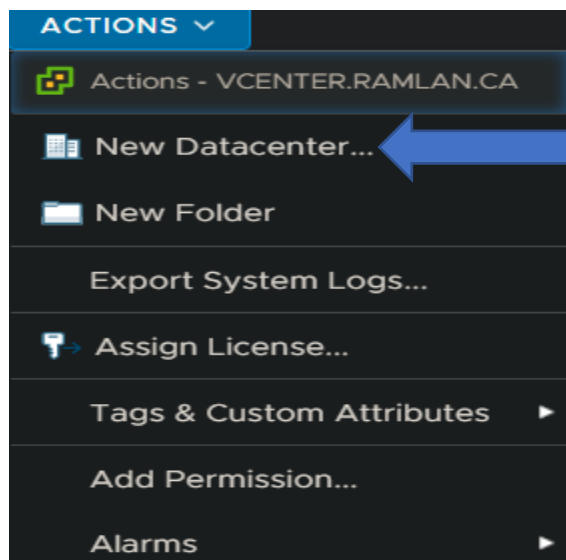
Task Name	Target	Status	Details	Initiator	Queued For	Start Time	Completion Time	Server
Deploy plug-in	VCENTER.RAMLAN.CA	Completed	VMware Lifecycle Manager	VSPHERE.LOCAL/vsph...	173 ms	07/22/2020, 5:30:12 PM	07/22/2020, 5:30:14 PM	VCENTER.RAMLAN.CA

vm vSphere Client Menu Search in all environments

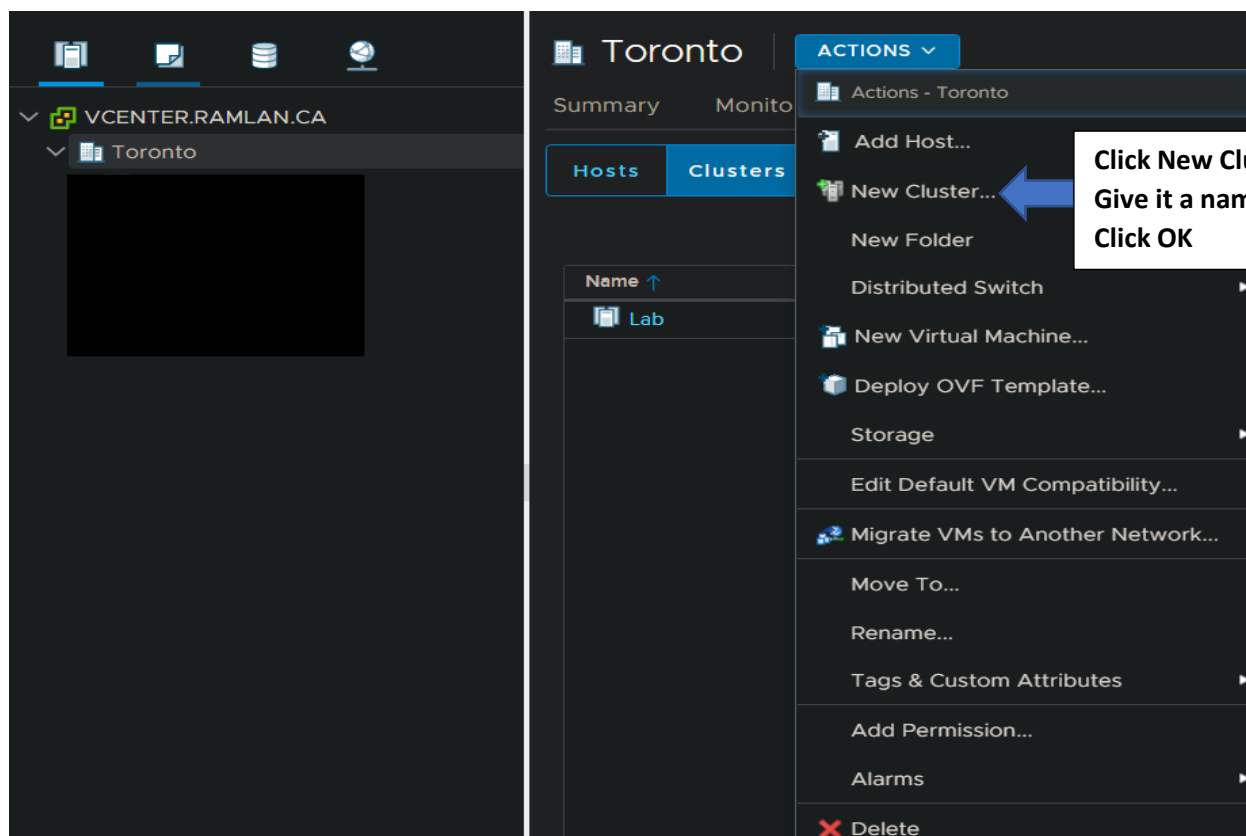
VCENTER.RAMLAN.CA

- Home ctrl + alt + home
- Shortcuts ctrl + alt + 1
  - Hosts and Clusters ctrl + alt + 2
  - VMs and Templates ctrl + alt + 3
  - Storage ctrl + alt + 4
  - Networking ctrl + alt + 5
  - Content Libraries ctrl + alt + 6
  - Workload Management ctrl + alt + 7
  - Global Inventory Lists ctrl + alt + 8
- Policies and Profiles
- Auto Deploy
- Hybrid Cloud Services
- Developer Center
- Administration
  - Tasks
  - Events
  - Tags & Custom Attributes
  - Lifecycle Manager
- DRaaS
- vRealize Operations

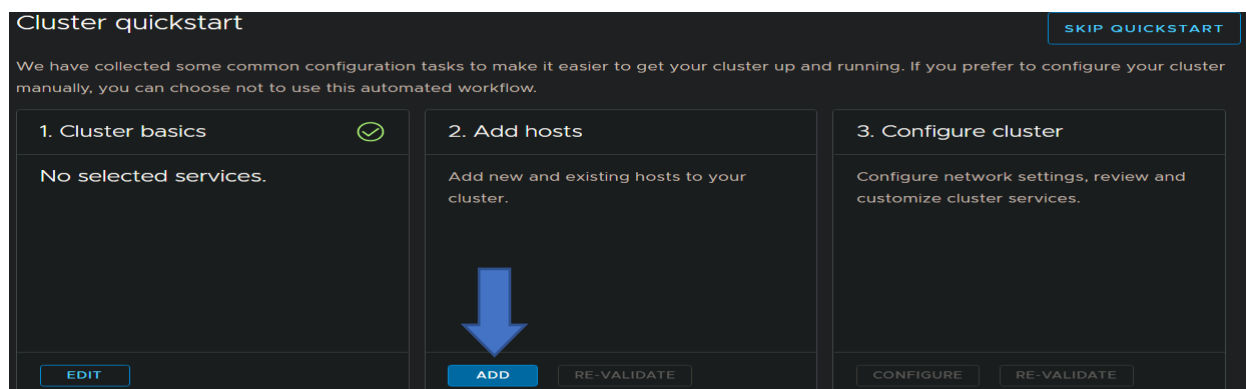
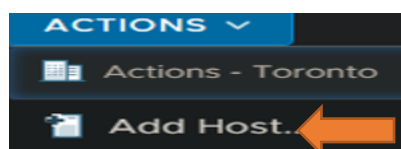
Recent Tasks Alarms



Click New Datacenter – Give it a name – Click OK



Click New Cluster  
Give it a name –  
Click OK



Add hosts

1 Add hosts

2 Host summary

3 Ready to complete

Add new and existing hosts to your cluster

New hosts (2)Existing hosts (0 from 0)

☒ Use the same credentials for all hosts

ESX1.RAMLAN.CAroot.....

ESX2.RAMLAN.CAroot.....

IP address or FQDNUsernamePassword

CANCEL

NEXT

Security Alert

The certificates on 2 hosts could not be verified. The SHA1 thumbprints of the certificates are listed below. To continue connecting, manually verify these certificates and accept the thumbprints below.

☒ Hostname / IP AddressSHA1 Thumbprint

☒ ESX1.RAMLAN.CA99:50:09:A5:9B:B5:60:E5:B0:2B:D1:E9:AF:84:A4:89:E3:FB:0A:43

☒ ESX2.RAMLAN.CADC:14:F0:AA:B1:32:30:B6:A7:DF:20:C0:37:C4:E3:76:50:59:14:DA

☒ 2

CANCEL

OK

Add hosts

1 Add hosts

2 Host summary

3 Ready to complete

Host summary

1 host has warnings.

Hostname / IP AddressESX VersionModel

> ESX1.RAMLAN.CA7.0.0VMware, Inc. VMware7,1

> ESX2.RAMLAN.CA7.0.0Dell Inc. OptiPlex 3010

CANCEL

BACK

NEXT

Add hosts

1 Add hosts

2 Host summary

3 Ready to complete

Host summary

1 host has warnings.

Hostname / IP AddressESX VersionModel

> ESX1.RAMLAN.CA7.0.0VMware, Inc. VMware7,1

> ESX2.RAMLAN.CA7.0.0Dell Inc. OptiPlex 3010

This host has 2 powered on VMs.

CurrentvCenterPowered OnVMs

-Win2019v1VCENTER

NetworksDatastores

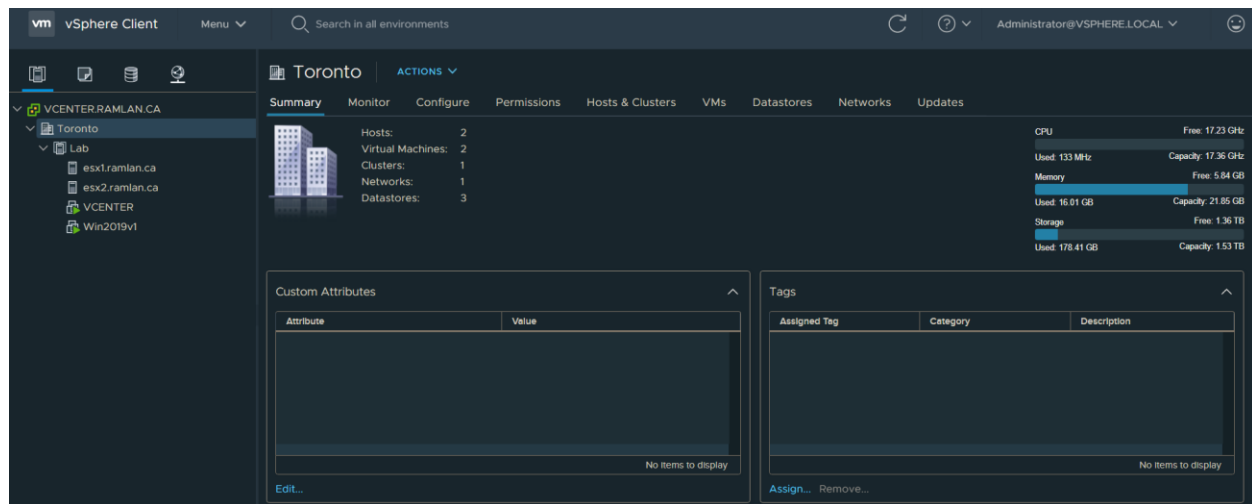
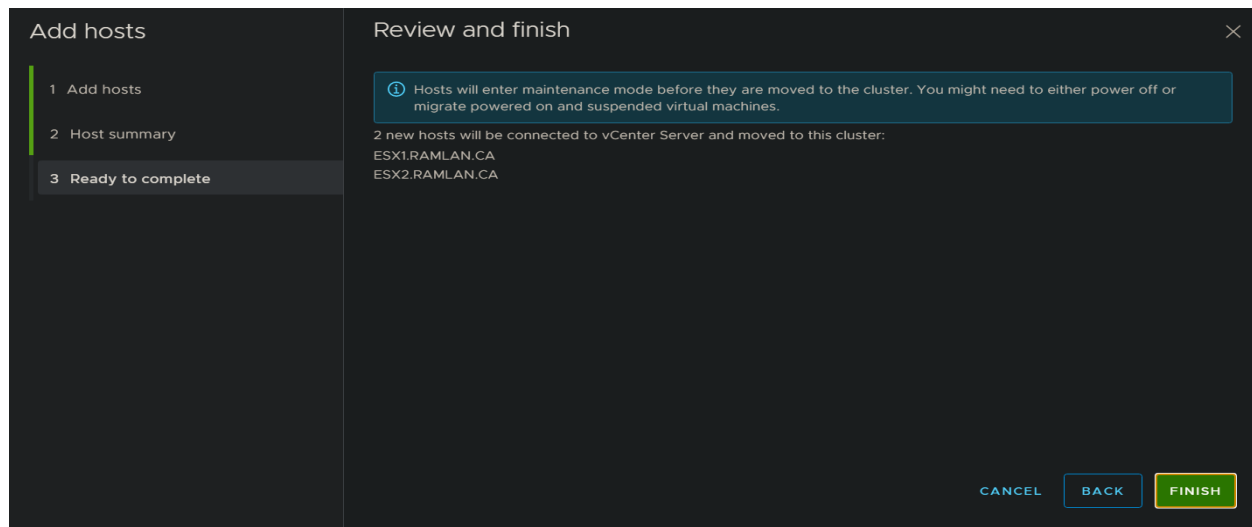
VM NetworkSATAHD datastore1Datastore5

CANCEL

BACK

NEXT





We have completed vCenter Server 7 Appliance installation. I will write another blog on various configuration, we can complete on the vCenter Server 7 Appliance later.

Thanks

**Ram Lan**  
**22<sup>nd</sup> July 2020**