

# **vCenter 6.5 to 7.0 Upgradation**

# vCenter 6.5 to 7.0 Upgrade

← → ↕ ↑ DVD Drive (K:) VMware VCSA > vcsa-ui-installer > win32

Name	Date modified	Type	Size
locales	4/28/2022 6:30 PM	File folder	
resources	4/28/2022 6:30 PM	File folder	
swiftshader	4/28/2022 6:30 PM	File folder	
chrome_100_percent.pak	10/20/2021 6:23 PM	PAK File	139 KB
chrome_200_percent.pak	10/20/2021 6:23 PM	PAK File	203 KB
d3dcompiler_47.dll	10/20/2021 6:23 PM	Application extension	3,628 KB
ffmpeg.dll	10/20/2021 6:23 PM	Application extension	2,545 KB
icudtl.dat	10/20/2021 6:23 PM	DAT File	10,170 KB
<b>installer.exe</b>	10/20/2021 6:23 PM	Application	114,884 KB
libEGL.dll	10/20/2021 6:23 PM	Application extension	363 KB
libGLESv2.dll	10/20/2021 6:23 PM	Application extension	6,779 KB
LICENSE	10/20/2021 6:23 PM	File	2 KB
LICENSES.chromium.html	10/20/2021 6:23 PM	HTML Document	5,245 KB
resources.pak	10/20/2021 6:23 PM	PAK File	4,968 KB
snapshot_blob.bin	10/20/2021 6:23 PM	BIN File	48 KB
v8_context_snapshot.bin	10/20/2021 6:23 PM	BIN File	162 KB
version	10/20/2021 6:23 PM	File	1 KB

GUI installation path / file

# vCenter 6.5 to 7.0 Upgrade

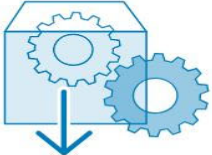
vCenter Server Installer

Installer

vmw vCenter Server 7.0 Installer

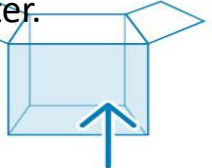
English

Select upgrade to prepare for the existing vCenter.



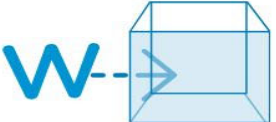
### Install

Install a new vCenter Server



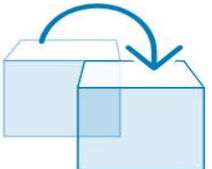
### Upgrade

Upgrade an existing vCenter Server Appliance or Upgrade and Converge an existing vCenter Server Appliance with an external Platform Services Controller



### Migrate

Migrate from an existing Windows vCenter Server or Migrate and Converge an existing Windows vCenter Server with an external Platform Services Controller



### Restore

Restore from a previous vCenter Server Backup

# vCenter 6.5 to 7.0 Upgrade


vCenter Server Installer

Installer

**vmw** Upgrade - Stage 1: Deploy vCenter Server


- 1 Introduction
- 2 End user license agreement
- 3 Connect to source appliance
- 4 vCenter Server deployment target
- 5 Set up target vCenter Server VM
- 6 Select deployment size
- 7 Select datastore
- 8 Configure network settings
- 9 Ready to complete stage 1

## Introduction

 vCenter Server with an external Platform Services Controller will be converged to a vCenter Server with an embedded Platform Services Controller. [Learn more](#)


This installer allows you to upgrade vCenter Server Appliance to 7.0.

Stage 1



Deploy vCenter Server

Stage 2



Upgrade source appliance

Upgrading the appliance is a two stage process. The first stage involves deploying a new vCenter Server to the target ESXi host or a compute resource in the target vCenter Server. The

[CANCEL](#) [NEXT](#)

# vCenter 6.5 to 7.0 Upgrade

vCenter Server Installer



Installer

## vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
- 2 End user license agreement**
- 3 Connect to source appliance
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- 6 Select deployment size
- 7 Select datastore
- 8 Configure network settings
- 9 Ready to complete stage 1

### End user license agreement

Read and accept the following license agreement.

**VMWARE END USER LICENSE AGREEMENT**

*Last updated: 03 May 2021*

**THE TERMS OF THIS END USER LICENSE AGREEMENT (“EULA”) GOVERN YOUR USE OF THE SOFTWARE, REGARDLESS OF ANY TERMS THAT MAY APPEAR DURING THE INSTALLATION OF THE SOFTWARE.**

BY DOWNLOADING, DEPLOYING, OR USING THE SOFTWARE, YOU AGREE TO BE BOUND BY THE TERMS OF THIS EULA. IF YOU DO NOT AGREE TO THE TERMS OF THIS EULA, YOU MUST NOT DOWNLOAD, DEPLOY, OR USE THE SOFTWARE, AND YOU MUST DELETE OR

I accept the terms of the license agreement.

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade



## vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
- 2 End user license agreement
- 3 Connect to source appliance**
- 4 vCenter Server deployment target
- 5 Set up target vCenter Server VM
- 6 Select deployment size
- 7 Select datastore
- 8 Configure network settings
- 9 Ready to complete stage 1

### Connect to source appliance

Provide the details for the source vCenter Server Appliance that you want to upgrade

#### Source appliance

vCenter Server Appliance



Appliance HTTPS port

443

CONNECT TO SOURCE

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

## vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
- 2 End user license agreement
- 3 Connect to source appliance**
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- 5 Set up target vCenter Server VM
- 6 Select deployment size
- 7 Select datastore
- 8 Configure network settings
- 9 Ready to complete stage 1

### Connect to source appliance

SSO User name	administrator@vsphere.local	<span>(i)</span>
SSO Password	.....	
Appliance (OS) root password	.....	

### ESXi host or vCenter Server that manages the source appliance

ESXi host or vCenter Server name	<input type="text" value=""/>	<span>(i)</span>
HTTPS port	443	
User name	administrator@vsphere.local	
Password	.....	

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

- 1 Introduction
- 2 End user license agreement
- 3 Connect to source appliance
- 4 vCenter Server deployment target
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- 7 Select datastore
- 8 Configure network settings
- 9 Ready to complete stage 1

## Certificate Warning

If an untrusted SSL certificate is installed on [redacted] or [redacted] secure communication cannot be guaranteed. Depending on your security policy, this issue might not represent a security concern.

The SHA1 thumbprints of the certificates are:

D9:63:57:43:0C:3A:45:6B:0F:68:2D:F1:F8:10:49:2F:61:5F:43:B8

and

D9:63:57:43:0C:3A:45:6B:0F:68:2D:F1:F8:10:49:2F:61:5F:43:B8

To accept and continue, click Yes

NO

YES

CANCEL

BACK

NEXT



# vCenter 6.5 to 7.0 Upgrade

## vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
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- 9 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	<input type="text" value=""/>	
HTTPS port	<input type="text" value="443"/>	
User name	<input type="text" value="administrator@vsphere.local"/>	
Password	<input type="password" value="....."/>	

CANCEL

BACK



NEXT

**vmw** Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
- 2 End user license agreement
- 3 Connect to source appliance
- 4 vCenter Server deployment target
- 5 Select folder**
- 6 Select compute resource
- 7 Set up target vCenter Server VM
- 8 Select deployment size
- 9 Select datastore
- 10 Configure network settings
- 11 Ready to complete stage 1

## Select folder

Select a datacenter or VM folder to create the vCenter Server VM in

- ▼  [Redacted]
- ▼  IN Datacenters
  - 📁 Discovered virtual machine

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

vCenter Server Installer  
Installer



vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
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- 8 Configure network settings
- 9 Ready to complete stage 1

## vCenter Server deployment target

### Certificate Warning

If an untrusted SSL certificate is installed on  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:

D9:63:57:43:0C:3A:45:6B:0F:68:2D:F1:F8:10:49:2F:61:5F:43:B8

To accept and continue, click Yes

NO

YES

CANCEL

BACK

NEXT

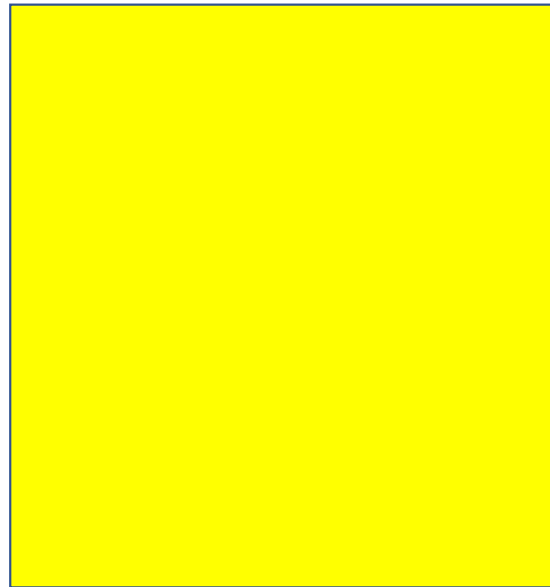
# vCenter 6.5 to 7.0 Upgrade

- 1 Introduction
- 2 End user license agreement
- 3 Connect to source appliance
- 4 vCenter Server deployment target
- 5 Select folder
- 6 Select compute resource**
- 7 Set up target vCenter Server VM
- 8 Select deployment size
- 9 Select datastore
- 10 Configure network settings
- 11 Ready to complete stage 1

## Select compute resource

Select the compute resource to deploy the vCenter Server

∨  IN Datacenters



Select the host from the Datacenter to install the new vCenter

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
- 2 End user license agreement
- 3 Connect to source appliance
- 4 vCenter Server deployment target
- 5 Select folder
- 6 Select compute resource
- 7 Set up target vCenter Server VM**
- 8 Select deployment size
- 9 Select datastore
- 10 Configure network settings
- 11 Ready to complete stage 1

## Set up target vCenter Server VM

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

VM name



Set root password

.....



Confirm root password

.....

You need to provide a new VM name which should not conflict the existing vCenter name in the VMware

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

## vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
- 2 End user license agreement
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- 7 Set up target vCenter Server VM
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- 9 Select datastore
- 10 Configure network settings
- 11 Ready to complete stage 1

### Select deployment size

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

Deployment size  ⓘ

Storage size  ⓘ

Select vCenter deployment size according to your requirement

Resources required for different deployment sizes

Deployment Size	vCPUs	Memory (GB)	Storage (GB)	Hosts (up to)	VMs (up to)
Source machine	--	--	536	18	405
Tiny	2	12	579	10	100
Small	4	19	694	100	1000
Medium	8	28	908	400	4000
Large	16	37	1358	1000	10000
X-Large	24	56	2283	2000	35000

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

## vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
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- 3 Connect to source appliance
- 4 vCenter Server deployment target
- 5 Select folder
- 6 Select compute resource
- 7 Set up target vCenter Server VM
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- 9 Select datastore
- 10 Configure network settings**
- 11 Ready to complete stage 1

### Configure network settings

Configure network settings for this vCenter Server

Network  ⓘ

#### Temporary network settings

IP version

IP assignment

Temporary IP address

**Give temporary IP address for the vCenter upgrade**

Subnet mask or prefix length  ⓘ

Default gateway

DNS servers

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

## vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
- 2 End user license agreement
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- 5 Select folder
- 6 Select compute resource
- 7 Set up target vCenter Server VM
- 8 Select deployment size
- 9 Select datastore
- 10 Configure network settings
- 11 Ready to complete stage 1

### Ready to complete stage 1

▼ Deployment Details	
Source vCSA	
Target vCenter Server	
VM name	
Deployment size	Medium
Storage size	Default
▼ Datacenter Details	
Datacenter	IN Datacenters
Compute resource	
▼ Datastore Details	
Datastore , Disk mode	
▼ Network Details	

Host name where the new vCenter to be deployed

Datastore where the new vCenter need to be installed

CANCEL

BACK

FINISH



# vCenter 6.5 to 7.0 Upgrade

## vmw Upgrade - Stage 1: Deploy vCenter Server

- 1 Introduction
- 2 End user license agreement
- 3 Connect to source appliance
- 4 vCenter Server deployment target
- 5 Select folder
- 6 Select compute resource
- 7 Set up target vCenter Server VM
- 8 Select deployment size
- 9 Select datastore
- 10 Configure network settings
- 11 Ready to complete stage 1**

### Ready to complete stage 1

Datacenter	IN Datacenters
Compute resource	<input type="text"/>
▼ Datastore Details	
Datastore , Disk mode	<input type="text"/>
▼ Network Details	
Network	VLAN-35
IP settings	IPv4 , static
IP address	<input type="text"/>
Subnet mask or prefix length	24
Default gateway	<input type="text"/>
DNS servers	<input type="text"/>

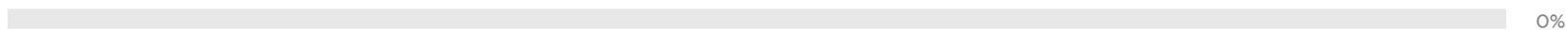
CANCEL

BACK

FINISH

# vCenter 6.5 to 7.0 Upgrade

## Upgrade - Stage 1: Deploy vCenter Server



Initializing...

CANCEL

Install a new vCenter Server

Upgrade an existing vCenter Server Appliance or Upgrade and Converge an existing vCenter Server Appliance with an external Platform Services Controller

Migrate from an existing Windows vCenter Server or Migrate and Converge an existing Windows vCenter Server with an external Platform Services Controller

Restore from a previous vCenter Server Backup

# vCenter 6.5 to 7.0 Upgrade

## Upgrade - Stage 1: Deploy vCenter Server



Waiting for RPM installation to start. This may take several minutes...

CANCEL

CLOSE

Install a new vCenter Server

Upgrade an existing vCenter  
Server Appliance or Upgrade and  
Converge an existing vCenter  
Server Appliance with an external  
Platform Services Controller

Migrate from an existing Windows  
vCenter Server or Migrate and  
Converge an existing Windows  
vCenter Server with an external  
Platform Services Controller

Restore from a previous vCenter  
Server Backup

# vCenter 6.5 to 7.0 Upgrade

## Upgrade - Stage 1: Deploy vCenter Server

 You have successfully deployed the vCenter Server.

To proceed with stage 2 of the deployment process, vCenter Server setup, click Continue.

If you exit, you can continue with the vCenter Server setup at any time by logging in to the vCenter Server Management Interface [https://\[redacted\]:5480/](https://[redacted]:5480/)

CANCEL

CLOSE

CONTINUE

Converge an existing vCenter  
Server Appliance with an external  
Platform Services Controller

Converge an existing Windows  
vCenter Server with an external  
Platform Services Controller

# vCenter 6.5 to 7.0 Upgrade



## Upgrade Wizard

- 1 Introduction
- 2 Connect to source vCenter Server
- 3 Select upgrade data
- 4 Configure CEIP
- 5 Ready to complete

## Introduction

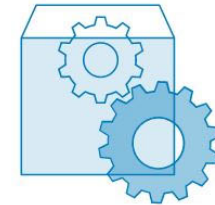
This installer allows you to upgrade vCenter Server Appliance to 7.0.

Stage 1



Deploy new vCenter Server

Stage 2



Upgrade source vCenter Server

Upgrading the appliance is a two stage process. The first stage involves deploying a new vCenter Server to the target ESXi host or a compute resource in the target vCenter Server. The second stage completes the upgrade process by copying data from the source appliance to the deployed vCenter Server. Make sure you have backed up all data on the source appliance before starting with the

CANCEL

NEXT

# vCenter 6.5 to 7.0 Upgrade

## Upgrade Wizard

1 Introduction

2 **Connect to source vCenter Server**

3 Select upgrade data

4 Configure CEIP

5 Ready to complete

### Connect to source vCenter Server

Provide the details for the source vCenter Server Appliance (6.5 or 6.7) that you want to upgrade.

Source vCenter Server

Appliance FQDN or IP address ⓘ in001vc0002.tp.tpnet.intra

HTTPS port

Single Sign-On username ⓘ .local

Single Sign-On password ⓘ

Appliance (OS) root password ..... ⓘ



ESXi host or vCenter Server that manages the source vCenter Server

ESXi host or vCenter Server name ⓘ IN001VC0002.tp.tpnet.intra

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

vCenter Server Installer  
Installer



vmw Upgrade - Stage 2: vCenter Server

Upgrade Wizard

Connect to source vCenter Server

1 Introduction

2 Connect to source vCenter Server


3 Select upgrade data

4 Configure CEIP

5 Ready to complete

## Pre-upgrade check result

 Error Unexpected error 87 during certificate pre-check.  
Resolution Please contact support

 Error The vCenter Server Appliance FQDN [REDACTED] does not match the certificate in VMware Endpoint Certificate Store (VECS): Certificate DNS names: "" Certificate CN: "" Certificate addresses: ""  
Resolution Verify that the certificate in VMware Endpoint Certificate Store (VECS) is valid and that it points to the vCenter Server Appliance FQDN.

We got error while upgrading the vCenter due to existing vCenter Certificate does not match the "CN" which is different from FQDN

CLOSE

LOGS

CANCEL

BACK

NEXT

## vCenter 6.5 to 7.0 Upgrade



cer-blog.txt

- **Troubleshooting the Certificate issue by downloading the Isdoctor from vmware site.** <https://kb.vmware.com/s/article/80469>

login as: root

Pre-authentication banner message from server:

```
|  
| VMware vCenter Server Appliance 6.5.0.37000  
|  
| Type: vCenter Server with an embedded Platform Services Controller  
|
```

End of banner message from server

root@vCenterhostname's password:

Connected to service

- \* List APIs: "help api list"
- \* List Plugins: "help pi list"
- \* Launch BASH: "shell"

Command> shell.set --enable True

Command> shell

Shell access is granted to root

root@vCenterhostname [ ~ ]#

root@vCenterhostname [ ~ ]# chsh -s /bin/bash root

root@vCenterhostname [ ~ ]# timed out waiting for input: auto-logout



## vCenter 6.5 to 7.0 Upgrade

Command> shell

Shell access is granted to root

```
root@vCenterhostname [ ~ ]# for store in $(/usr/lib/vmware-vmafd/bin/vecs-cli store list | grep -v TRUSTED_ROOT_CRLS);  
do echo "[*] Store : " $store; /usr/lib/vmware-vmafd/bin/vecs-cli entry list --store $store --text | grep -ie "Alias" -ie "Not  
After";done;
```

```
[*] Store : MACHINE_SSL_CERT
```

```
Alias : __MACHINE_CERT
```

```
Not After : May 27 11:31:34 2024 GMT
```

```
[*] Store : TRUSTED_ROOTS
```

```
Alias : 1e5cfe1db942387e184adb94a4576fa2d5fbed44
```

```
Not After : Jun 17 16:26:00 2030 GMT
```

```
[*] Store : machine
```

```
Alias : machine
```

```
Not After : May 27 11:30:42 2024 GMT
```

```
[*] Store : vsphere-webclient
```

```
Alias : vsphere-webclient
```

```
Not After : May 27 11:30:44 2024 GMT
```

```
[*] Store : vpxd
```

```
Alias : vpxd
```

```
Not After : May 27 11:30:45 2024 GMT
```

```
[*] Store : vpxd-extension
```

```
Alias : vpxd-extension
```

```
Not After : May 27 11:30:46 2024 GMT
```

## vCenter 6.5 to 7.0 Upgrade

[\*] Store : SMS

Alias : sms\_self\_signed

Not After : Jun 22 16:30:34 2030 GMT

Alias : https://hostname.FQDN:9080/version.xml

Not After : Jan 22 12:26:40 2026 GMT

[\*] Store : BACKUP\_STORE\_H5C

Alias : bkpmachine

Not After : Jun 22 16:16:58 2022 GMT

Alias : bkpvsphere-webclient

Not After : Jun 22 16:16:58 2022 GMT

Alias : bkpvpxd

Not After : Jun 22 16:16:59 2022 GMT

Alias : bkpvpxd-extension

Not After : Jun 22 16:16:59 2022 GMT

Alias : bkp\_\_MACHINE\_CERT

Not After : Jun 23 04:26:00 2022 GMT

[\*] Store : BACKUP\_STORE

```
root@vCenterhostname [ ~ ]# cd /
```

```
root@vCenterhostname [ ~ ]# cd /
```

```
root@vCenterhostname [ / ]# hostname
```

```
vCenterhostname.FQDN
```

```
root@vCenterhostname [ / ]# less /etc/hosts
```

```
root@vCenterhostname [ / ]# /usr/lib/vmware-vmafd/bin/vmafd-cli get-pnid --server-name localhost
```

```
vCenterhostname.FQDN
```

```
root@vCenterhostname [ / ]#
```

## vCenter 6.5 to 7.0 Upgrade

```
root@vCenterhostname [ / ]# ifconfig -a
eth0  Link encap:Ethernet HWaddr 00:50:56:b5:13:f9
      inet addr:IP Address Bcast:subnet35.255 Mask:255.255.255.0
      UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
      RX packets:167463045 errors:0 dropped:54443 overruns:0 frame:0
      TX packets:129681686 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1000
      RX bytes:139180539573 (139.1 GB) TX bytes:358942022689 (358.9 GB)

lo    Link encap:Local Loopback
      inet addr:127.0.0.1 Mask:255.0.0.0
      UP LOOPBACK RUNNING MTU:65536 Metric:1
      RX packets:288264638 errors:0 dropped:0 overruns:0 frame:0
      TX packets:288264638 errors:0 dropped:0 overruns:0 carrier:0
      collisions:0 txqueuelen:1
      RX bytes:417970857553 (417.9 GB) TX bytes:417970857553 (417.9 GB)

root@vCenterhostname [ / ]# root@vCenterhostname [ / ]# ls
bin  etc  lib64  mnt  proc  sbin  sys  usr
boot home lost+found opt  root  srv   tftpboot  var
dev  lib  media  pam.py  run  storage  tmp   vasesecurity
root@vCenterhostname [ / ]# cd root
```

## vCenter 6.5 to 7.0 Upgrade

```
root@vCenterhostname [ ~ ]# ls
lsdoctor.zip
vmware-psc-client_backup_16-Dec-21-09-17-45
vmware-stsd_backup_16-Dec-21-09-17-45
vmware-sts-idmd_backup_16-Dec-21-09-17-45
root@vCenterhostname [ ~ ]# unzip lsdoctor.zip
Archive:  lsdoctor.zip
dfb17bd7f66da322f032febce52ffee5463a4298
  creating: lsdoctor-master/
  inflating: lsdoctor-master/CHANGELOG
  inflating: lsdoctor-master/README
  inflating: lsdoctor-master/config_log.ini
  creating: lsdoctor-master/lib/
  inflating: lsdoctor-master/lib/__init__.py
  inflating: lsdoctor-master/lib/lsreport.py
  inflating: lsdoctor-master/lib/lstool_parse.py
  inflating: lsdoctor-master/lib/lstool_scan.py
  inflating: lsdoctor-master/lib/pscha.py
  inflating: lsdoctor-master/lib/rebuild.py
  inflating: lsdoctor-master/lib/solutionusers.py
  inflating: lsdoctor-master/lib/stale.py
  inflating: lsdoctor-master/lib/trust.py
  inflating: lsdoctor-master/lib/utils.py
  inflating: lsdoctor-master/lsdoctor.py
```

## vCenter 6.5 to 7.0 Upgrade

```
root@vCenterhostname [ ~ ]# ls
lsdoctor-master
lsdoctor.zipvmware-psc-client_backup_16-Dec-21-09-17-45
vmware-stsd_backup_16-Dec-21-09-17-45
vmware-sts-idmd_backup_16-Dec-21-09-17-45
root@vCenterhostname [ ~ ]# cd lsdoctor-master/
root@vCenterhostname [ ~/lsdoctor-master ]# ls
CHANGELOG config_log.ini lib lsdoctor.py README templates
root@vCenterhostname [ ~/lsdoctor-master ]# python lsdoctor.py -t
```

WARNING: This script makes permanent changes. Before running, please take \*OFFLINE\* snapshots of all VC's and PSC's at the SAME TIME. Failure to do so can result in PSC or VC inconsistencies. Logs can be found here: `/var/log/vmware/lsdoctor`

2022-06-10T09:56:41 INFO main: You are checking for and fixing SSL trust mismatches in the local SSO site. NOTE: Please run this script one PSC or VC per SSO site.

Have you taken offline (PSCs and VCs powered down at the same time) snapshots of all nodes in the SSO domain or supported backups?[y/n]y

## vCenter 6.5 to 7.0 Upgrade

Provide password for administrator@vsphere.local:

2022-06-10T09:56:54 INFO \_\_init\_\_: Retrieved services from SSO site: IOC-vCenter

2022-06-10T09:56:54 INFO findAndFix: Checking services for trust mismatches...

2022-06-10T09:56:54 INFO findAndFix: Attempting to reregister d4a20bd2-2dc0-454f-ab0a-509db722c593 for vCenterhostname.FQDN

2022-06-10T09:56:54 INFO findAndFix: Attempting to reregister ioc-vcenter:c9f51e5c-b7c3-4467-939d-fa57bacf312e for vCenterhostname.FQDN

2022-06-10T09:56:55 INFO findAndFix: Attempting to reregister ioc-vcenter:e6a9b365-8bb5-42d0-8470-937b889f6223 for vCenterhostname.FQDN

2022-06-10T09:56:55 INFO findAndFix: Attempting to reregister ioc-vcenter:ae4266e8-3000-4a17-a777-c9af87b61ba6 for vCenterhostname.FQDN

2022-06-10T09:56:55 INFO findAndFix: We found 4 mismatch(s) and fixed them :)

2022-06-10T09:56:55 INFO main: Please restart services on all PSC's and VC's when you're done.

root@vCenterhostname [ ~/lsdoctor-master ]# python lsdoctor.py -s

WARNING: This script makes permanent changes. Before running, please take \*OFFLINE\* snapshots of all VC's and PSC's at the SAME TIME. Failure to do so can result in PSC or VC inconsistencies.

Logs can be found here: /var/log/vmware/lsdoctor

2022-06-10T09:57:42 INFO main: You are running a check on this node for stale 5.x data. NOTE: Please run this script on all VC's or PSC's in the SSO domain to be thorough.

Have you taken offline (PSCs and VCs powered down at the same time) snapshots of all nodes in the SSO domain or supported backups?[y/n]y

## vCenter 6.5 to 7.0 Upgrade

Provide password for administrator@vsphere.local:

2022-06-10T09:57:50 INFO \_\_init\_\_: Retrieved services for machine with hostname: vCenterhostname.FQDN

2022-06-10T09:57:50 INFO checkStale: Checking for logbrowser or 5.x vsphere client services...

2022-06-10T09:57:50 INFO checkStale: PASSED: logbrowser service not found.

2022-06-10T09:57:50 INFO checkStale: PASSED: 5.x webclient service not found.

2022-06-10T09:57:50 INFO checkStale: PASSED: 5.x vcenter service not found.

2022-06-10T09:57:50 INFO backup\_machine: Exporting MACHINE\_SSL\_CERT cert and key

2022-06-10T09:57:50 INFO checkLegacy: Checking for STS\_INTERNAL\_SSL\_CERT...

2022-06-10T09:57:50 INFO backup\_machine: Exporting MACHINE\_SSL\_CERT cert and key

2022-06-10T09:57:50 INFO check\_sts\_internal: Checking for STS\_INTERNAL\_SSL\_CERT...

2022-06-10T09:57:50 INFO checkLegacy: No STS\_INTERNAL\_SSL\_CERT store found.

2022-06-10T09:57:50 INFO checkLegacy: Checking for 7444 in legacy services...

2022-06-10T09:57:50 INFO checkLegacy: PASSED: Port 7444 not found in registrations.

2022-06-10T09:57:50 INFO main: Please restart services on all PSC's and VC's when you're done.

root@vCenterhostname [ ~/lsdoctor-master ]# service-control --stop --all

Perform stop operation. vmon\_profile=ALL, svc\_names=None, include\_coreossvcs=True, include\_leafossvcs=True

2022-06-10T09:59:04.741Z Service vmware-vmon does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T09:59:04.741Z Running command: ['/sbin/service', u'vmware-vmon', 'stop']

2022-06-10T10:01:07.317Z Done running command

2022-06-10T10:01:07.317Z Successfully stopped service vmware-vmon

Successfully stopped vmon services. Profile ALL.

## vCenter 6.5 to 7.0 Upgrade

2022-06-10T10:01:07.322Z Service vmware-psc-client does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:01:07.322Z Running command: ['/sbin/service', u'vmware-psc-client', 'status']

2022-06-10T10:01:07.351Z Done running command

Successfully stopped service vmware-psc-client

2022-06-10T10:01:08.467Z Service vmdnsd does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:01:08.467Z Running command: ['/sbin/service', u'vmdnsd', 'status']

2022-06-10T10:01:08.497Z Done running command

Successfully stopped service vmdnsd

2022-06-10T10:01:08.601Z Service vmware-std does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:01:08.601Z Running command: ['/sbin/service', u'vmware-std', 'status']

2022-06-10T10:01:08.632Z Done running command

Successfully stopped service vmware-std

2022-06-10T10:01:09.792Z Service vmware-sts-idmd does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:01:09.792Z Running command: ['/sbin/service', u'vmware-sts-idmd', 'status']

2022-06-10T10:01:09.823Z Done running command

Successfully stopped service vmware-sts-idmd



## vCenter 6.5 to 7.0 Upgrade

```
2022-06-10T10:01:10.886Z Service vmcad does not seem to be registered with vMon. If this is unexpected please make sure
your service config is a valid json. Also check vmon logs for warnings.
2022-06-10T10:01:10.886Z Running command: ['/sbin/service', u'vmcad', 'status']
2022-06-10T10:01:10.914Z Done running command
Successfully stopped service vmcad
2022-06-10T10:01:10.998Z Service vmdird does not seem to be registered with vMon. If this is unexpected please make sure
your service config is a valid json. Also check vmon logs for warnings.
2022-06-10T10:01:10.999Z Running command: ['/sbin/service', u'vmdird', 'status']
2022-06-10T10:01:11.026Z Done running command
Successfully stopped service vmdird
2022-06-10T10:01:11.143Z Service vmafdd does not seem to be registered with vMon. If this is unexpected please make sure
your service config is a valid json. Also check vmon logs for warnings.
2022-06-10T10:01:11.143Z Running command: ['/sbin/service', u'vmafdd', 'status']
2022-06-10T10:01:11.170Z Done running command
Successfully stopped service vmafdd
2022-06-10T10:01:11.276Z Service lwsmd does not seem to be registered with vMon. If this is unexpected please make sure
your service config is a valid json. Also check vmon logs for warnings.
2022-06-10T10:01:11.277Z Running command: ['/sbin/service', u'lwsmd', 'status']
2022-06-10T10:01:11.316Z Done running command
Successfully stopped service lwsmd
root@vCenterhostname [ ~/lsdoctor-master ]#
```

## vCenter 6.5 to 7.0 Upgrade

```
root@vCenterhostname [ ~/lsdoctor-master ]# service-control --start --all
```

```
Perform start operation. vmon_profile=ALL, svc_names=None, include_coreossvcs=True, include_leafossvcs=True
```

```
2022-06-10T10:02:06.007Z Running command: ['/usr/bin/systemctl', 'is-enabled', u'lwsmd']
```

```
2022-06-10T10:02:06.011Z Done running command
```

```
2022-06-10T10:02:06.014Z Service lwsmd does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.
```

```
2022-06-10T10:02:06.014Z Running command: ['/sbin/service', u'lwsmd', 'status']
```

```
2022-06-10T10:02:06.042Z Done running command
```

```
2022-06-10T10:02:06.045Z Running command: ['/usr/bin/systemctl', 'daemon-reload']
```

```
2022-06-10T10:02:06.164Z Done running command
```

```
2022-06-10T10:02:06.164Z Running command: ['/usr/bin/systemctl', 'set-property', u'lwsmd.service', 'MemoryAccounting=true', 'CPUAccounting=true', 'BlockIOAccounting=true']
```

```
2022-06-10T10:02:06.170Z Done running command
```

```
Successfully started service lwsmd
```

```
2022-06-10T10:02:06.470Z Running command: ['/usr/bin/systemctl', 'is-enabled', u'vmafdd']
```

```
2022-06-10T10:02:06.477Z Done running command
```

```
2022-06-10T10:02:06.481Z Service vmafdd does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.
```

```
2022-06-10T10:02:06.481Z Running command: ['/sbin/service', u'vmafdd', 'status']
```

```
2022-06-10T10:02:06.511Z Done running command
```

```
2022-06-10T10:02:06.514Z Running command: ['/usr/bin/systemctl', 'daemon-reload']
```

```
2022-06-10T10:02:06.602Z Done running command
```

```
2022-06-10T10:02:06.602Z Running command: ['/usr/bin/systemctl', 'set-property', u'vmafdd.service', 'MemoryAccounting=true', 'CPUAccounting=true', 'BlockIOAccounting=true']
```

```
2022-06-10T10:02:06.607Z Done running command
```

## vCenter 6.5 to 7.0 Upgrade

Successfully started service vmafdd

2022-06-10T10:02:07.396Z Running command: ['/usr/bin/systemctl', 'is-enabled', u'vmdird']

2022-06-10T10:02:07.402Z Done running command

2022-06-10T10:02:07.405Z Service vmdird does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:02:07.405Z Running command: ['/sbin/service', u'vmdird', 'status']

2022-06-10T10:02:07.431Z Done running command

2022-06-10T10:02:07.435Z Running command: ['/usr/bin/systemctl', 'daemon-reload']

2022-06-10T10:02:07.526Z Done running command

2022-06-10T10:02:07.526Z Running command: ['/usr/bin/systemctl', 'set-property', u'vmdird.service', 'MemoryAccounting=true', 'CPUAccounting=true', 'BlockIOAccounting=true']

2022-06-10T10:02:07.530Z Done running command

Successfully started service vmdird2022-06-10T10:02:09.864Z Running command: ['/usr/bin/systemctl', 'is-enabled', u'vmcad']

2022-06-10T10:02:09.883Z Done running command

2022-06-10T10:02:09.887Z Service vmcad does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:02:09.887Z Running command: ['/sbin/service', u'vmcad', 'status']

2022-06-10T10:02:09.920Z Done running command

2022-06-10T10:02:09.924Z Running command: ['/usr/bin/systemctl', 'daemon-reload']

2022-06-10T10:02:10.006Z Done running command

2022-06-10T10:02:10.006Z Running command: ['/usr/bin/systemctl', 'set-property', u'vmcad.service', 'MemoryAccounting=true', 'CPUAccounting=true', 'BlockIOAccounting=true']

2022-06-10T10:02:10.011Z Done running command

Successfully started service vmcad

## vCenter 6.5 to 7.0 Upgrade

2022-06-10T10:02:11.398Z Running command: ['/usr/bin/systemctl', 'is-enabled', u'vmware-sts-idmd']

2022-06-10T10:02:11.429Z Done running command

2022-06-10T10:02:11.434Z Service vmware-sts-idmd does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:02:11.434Z Running command: ['/sbin/service', u'vmware-sts-idmd', 'status']

2022-06-10T10:02:11.465Z Done running command

2022-06-10T10:02:11.469Z Running command: ['/usr/bin/systemctl', 'daemon-reload']

2022-06-10T10:02:11.564Z Done running command

2022-06-10T10:02:11.564Z Running command: ['/usr/bin/systemctl', 'set-property', u'vmware-sts-idmd.service', 'MemoryAccounting=true', 'CPUAccounting=true', 'BlockIOAccounting=true']

2022-06-10T10:02:11.569Z Done running command

Successfully started service vmware-sts-idmd

2022-06-10T10:02:23.862Z Running command: ['/usr/bin/systemctl', 'is-enabled', u'vmware-std']

2022-06-10T10:02:23.869Z Done running command

2022-06-10T10:02:23.874Z Service vmware-std does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:02:23.874Z Running command: ['/sbin/service', u'vmware-std', 'status']

2022-06-10T10:02:23.908Z Done running command

2022-06-10T10:02:23.912Z Running command: ['/usr/bin/systemctl', 'daemon-reload']

2022-06-10T10:02:24.005Z Done running command

2022-06-10T10:02:24.006Z Running command: ['/usr/bin/systemctl', 'set-property', u'vmware-std.service', 'MemoryAccounting=true', 'CPUAccounting=true', 'BlockIOAccounting=true']

2022-06-10T10:02:24.010Z Done running command

## vCenter 6.5 to 7.0 Upgrade

Successfully started service vmware-stds

2022-06-10T10:02:46.630Z Running command: ['/usr/bin/systemctl', 'is-enabled', u'vmdnsd']

2022-06-10T10:02:46.641Z Done running command

2022-06-10T10:02:46.645Z Service vmdnsd does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:02:46.646Z Running command: ['/sbin/service', u'vmdnsd', 'status']

2022-06-10T10:02:46.675Z Done running command

Successfully started service vmdnsd

2022-06-10T10:02:46.679Z Running command: ['/usr/bin/systemctl', 'is-enabled', u'vmware-psc-client']

2022-06-10T10:02:46.691Z Done running command

2022-06-10T10:02:46.696Z Service vmware-psc-client does not seem to be registered with vMon. If this is unexpected please make sure your service config is a valid json. Also check vmon logs for warnings.

2022-06-10T10:02:46.696Z Running command: ['/sbin/service', u'vmware-psc-client', 'status']

2022-06-10T10:02:46.761Z Done running command

2022-06-10T10:02:46.782Z Running command: ['/usr/bin/systemctl', 'daemon-reload']

2022-06-10T10:02:46.873Z Done running command

2022-06-10T10:02:46.874Z Running command: ['/usr/bin/systemctl', 'set-property', u'vmware-psc-client.service', 'MemoryAccounting=true', 'CPUAccounting=true', 'BlockIOAccounting=true']

2022-06-10T10:02:46.879Z Done running command

Successfully started service vmware-psc-client

## vCenter 6.5 to 7.0 Upgrade

2022-06-10T10:02:49.279Z Running command: [/usr/bin/systemctl, 'set-environment', 'VMON\_PROFILE=NONE']

2022-06-10T10:02:49.283Z Done running command

2022-06-10T10:02:49.286Z Running command: [/usr/bin/systemctl, 'daemon-reload']

2022-06-10T10:02:49.368Z Done running command

2022-06-10T10:02:49.368Z Running command: [/usr/bin/systemctl, 'set-property', u'vmware-vmon.service', 'MemoryAccounting=true', 'CPUAccounting=true', 'BlockIOAccounting=true']

2022-06-10T10:02:49.373Z Done running command

2022-06-10T10:02:50.605Z Running command: [/usr/bin/systemctl, 'unset-environment', 'VMON\_PROFILE']

2022-06-10T10:02:50.609Z Done running command

Successfully started vmon services. Profile ALL.

root@vCenterhostname [ ~/lsdoctor-master ]# cd /

root@vCenterhostname [ / ]# /usr/lib/vmware-vmca/bin/certificate-manager

```
-----  
|  
| *** Welcome to the vSphere 6.5 Certificate Manager *** |  
|  
| -- Select Operation -- |  
|  
| 1. Replace Machine SSL certificate with Custom Certificate |  
|  
| 2. Replace VMCA Root certificate with Custom Signing |  
| Certificate and replace all Certificates |  
|
```

## vCenter 6.5 to 7.0 Upgrade

- 3. Replace Machine SSL certificate with VMCA Certificate
- 4. Regenerate a new VMCA Root Certificate and replace all certificates
- 5. Replace Solution user certificates with Custom Certificate
- 6. Replace Solution user certificates with VMCA certificates
- 7. Revert last performed operation by re-publishing old certificates
- 8. Reset all Certificates

Note : Use Ctrl-D to exit.

Option[1 to 8]: 8

Do you wish to generate all certificates using configuration file : Option[Y/N] ? : y

Please provide valid SSO and VC privileged user credential to perform certificate operations.

## vCenter 6.5 to 7.0 Upgrade

Enter username [Administrator@vsphere.local]:

Enter password:

certool.cfg file exists, Do you wish to reconfigure : Option[Y/N] ? : y

Press Enter key to skip optional parameters or use Previous value.

Enter proper value for 'Country' [Previous value : IN] :

Enter proper value for 'Name' [Previous value : vCenterhostname.FQDN] :

Enter proper value for 'Organization' [Previous value : Organization] :

Enter proper value for 'OrgUnit' [Previous value : IN] :

Enter proper value for 'State' [Previous value : TN] :

Enter proper value for 'Locality' [Previous value : Chennai] :

Enter proper value for 'IPAddress' (Provide comma separated values for multiple IP addresses) [optional] : IP Address

Enter proper value for 'Email' [Previous value : vkarthickeyan@yahoo.com] :



## vCenter 6.5 to 7.0 Upgrade

Enter proper value for 'Hostname' (Provide comma separated values for multiple Hostname entries) [Enter valid Fully Qualified Domain Name(FQDN), For Example : example.domain.com] : vCenterhostname.FQDN,IP Address,vCenterhostname

Enter proper value for VMCA 'Name' :vCenterhostname.tp.tpnet

Continue operation : Option[Y/N] ? : ^CTraceback (most recent call last):

```
File "/usr/lib/vmware-vmca/bin/certificate-manager", line 716, in <module>
```

```
  exit(main())
```

```
File "/usr/lib/vmware-vmca/bin/certificate-manager", line 710, in main
```

```
  parse_arguments()
```

```
File "/usr/lib/vmware-vmca/bin/certificate-manager", line 702, in parse_arguments
```

```
  operations[var.strip()]()
```

```
File "/usr/lib/vmware-vmca/bin/certificate-manager", line 497, in factory_reset_all_certs
```

```
  if not get_user_confirmation(Constants.CONTINUE_OPERATION):
```

```
File "/usr/lib/vmware/site-packages/cis/certificateManagerUtils.py", line 305, in get_user_confirmation
```

```
  var = raw_input(msg)
```

KeyboardInterrupt

```
root@vCenterhostname [ / ]# /usr/lib/vmware-vmca/bin/certificate-manager
```

## vCenter 6.5 to 7.0 Upgrade

\*\*\* Welcome to the vSphere 6.5 Certificate Manager \*\*\*

-- Select Operation --

1. Replace Machine SSL certificate with Custom Certificate
2. Replace VMCA Root certificate with Custom Signing Certificate and replace all Certificates
3. Replace Machine SSL certificate with VMCA Certificate
4. Regenerate a new VMCA Root Certificate and replace all certificates
5. Replace Solution user certificates with Custom Certificate
6. Replace Solution user certificates with VMCA certificates
7. Revert last performed operation by re-publishing old certificates
8. Reset all Certificates

## vCenter 6.5 to 7.0 Upgrade

Note : Use Ctrl-D to exit.

Option[1 to 8]: 8

Do you wish to generate all certificates using configuration file : Option[Y/N] ? : y

Please provide valid SSO and VC privileged user credential to perform certificate operations.

Enter username [Administrator@vsphere.local]:

Enter password:

certool.cfg file exists, Do you wish to reconfigure : Option[Y/N] ? : y

Press Enter key to skip optional parameters or use Previous value.

Enter proper value for 'Country' [Previous value : IN] :

Enter proper value for 'Name' [Previous value : vCenterhostname.FQDN] :

Enter proper value for 'Organization' [Previous value : Organization] :

Enter proper value for 'OrgUnit' [Previous value : IN] :

Enter proper value for 'State' [Previous value : TN] :

Enter proper value for 'Locality' [Previous value : Chennai] :

Enter proper value for 'IPAddress' (Provide comma separated values for multiple IP addresses) [optional] : IP Address

## vCenter 6.5 to 7.0 Upgrade

Enter proper value for 'Email' [Previous value : vkarthickeyan@yahoo.com] :

Enter proper value for 'Hostname' (Provide comma separated values for multiple Hostname entries) [Enter valid Fully Qualified Domain Name(FQDN), For Example : example.domain.com] : vCenterhostname.FQDN,IP Address,vCenterhostname

Enter proper value for VMCA 'Name' :vCenterhostname.FQDN

Continue operation : Option[Y/N] ? : y

You are going to reset by regenerating Root Certificate and replace all certificates using VMCA

Continue operation : Option[Y/N] ? : y

Get site nameCompleted [Reset Machine SSL Cert...]

ioc-vcenter

Lookup all services

Get service ioc-vcenter:c9f51e5c-b7c3-4467-939d-fa57bacf312e

Update service ioc-vcenter:c9f51e5c-b7c3-4467-939d-fa57bacf312e; spec: /tmp/svcspec\_8C3CM7

Get service ioc-vcenter:e6a9b365-8bb5-42d0-8470-937b889f6223

Update service ioc-vcenter:e6a9b365-8bb5-42d0-8470-937b889f6223; spec: /tmp/svcspec\_VpcPKX

Get service ioc-vcenter:ae4266e8-3000-4a17-a777-c9af87b61ba6

Update service ioc-vcenter:ae4266e8-3000-4a17-a777-c9af87b61ba6; spec: /tmp/svcspec\_pV3sOM

Get service 0bebf74d-92cb-47bb-ba64-92582641c695

Update service 0bebf74d-92cb-47bb-ba64-92582641c695; spec: /tmp/svcspec\_sN9nzb

Get service a41e8806-f214-43dc-b7ff-3cafae9367f4

Update service a41e8806-f214-43dc-b7ff-3cafae9367f4; spec: /tmp/svcspec\_lpD25H

Get service aa14eaa6-ca4f-46dc-82cd-deeb876dff05

## vCenter 6.5 to 7.0 Upgrade

Get service 26524ffa-3dd2-4def-8e13-dd4a2d8113ad\_com.nutanix.0005979d-4d84-2246-30c7-3868dd18f7a0

Don't update service 26524ffa-3dd2-4def-8e13-dd4a2d8113ad\_com.nutanix.0005979d-4d84-2246-30c7-3868dd18f7a0

Updated 30 service(s)

Status : 60% Completed [Reset vpxd-extension Cert...]

2022-06-10T10:10:27.304Z Updating certificate for "com.vmware.vim.eam" extension

2022-06-10T10:10:27.387Z Successfully updated certificate for "com.vmware.vim.eam" extension

2022-06-10T10:10:27.586Z Updating certificate for "com.vmware.rbd" extension

2022-06-10T10:10:27.680Z Successfully updated certificate for "com.vmware.rbd" extension

Reset status : 100% Completed [Reset completed successfully]

root@vCenterhostname [ / ]# timed out waiting for input: auto-logout

Command>



**Certificate successfully reset and corrected with all information to meet the vCenter upgradation.**

## **vCenter 6.5 to 7.0 Upgrade**

**Now we need to delete the new vCenter created in our vSphere environment and do the setup again as per slide 2 – 20.**

# vCenter 6.5 to 7.0 Upgrade

## vmw Upgrade - Stage 2: vCenter Server

### Upgrade Wizard

#### 1 Introduction

2 Connect to source vCenter Server

3 Select upgrade data

4 Configure CEIP

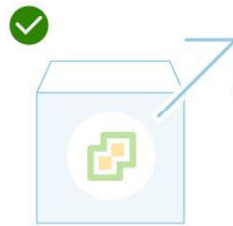
5 Ready to complete

### Introduction

### Now we try to start for upgrading the vCenter

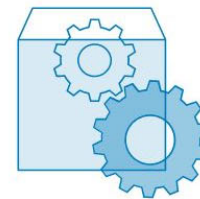
This installer allows you to upgrade vCenter Server Appliance to 7.0.

Stage 1



Deploy new vCenter Server

Stage 2



Upgrade source vCenter Server

Upgrading the appliance is a two stage process. The first stage involves deploying a new vCenter Server to the target ESXi host or a compute resource in the target vCenter Server. The second stage completes the upgrade process by copying data from the source appliance to the deployed vCenter Server. Make sure you have backed up all data on the source appliance before starting with the

CANCEL

NEXT

# vCenter 6.5 to 7.0 Upgrade

## Upgrade Wizard

- 1 Introduction
- 2 Connect to source vCenter Server**
- 3 Select upgrade data
- 4 Configure CEIP
- 5 Ready to complete

### Connect to source vCenter Server

Provide the details for the source vCenter Server Appliance (6.5 or 6.7) that you want to upgrade.

#### Source vCenter Server

Appliance FQDN or IP address ⓘ in001vc0002.tp.tpnet.intra

HTTPS port

Single Sign-On username ⓘ .local

Single Sign-On password ⓘ

Appliance (OS) root password ..... ⓘ



ESXi host or vCenter Server that manages the source vCenter Server

ESXi host or vCenter Server name ⓘ IN001VC0002.tp.tpnet.intra

CANCEL

BACK

NEXT



# vCenter 6.5 to 7.0 Upgrade

vCenter Server Installer  
Installer



vmw Upgrade - Stage 2: vCenter Server




Upgrade Wizard

Connect to source vCenter Server

Source vCenter Server

- 1 Introduction
- 2 Connect to source vCenter Server
- 3 Select upgrade data
- 4 Configure CEIP
- 5 Ready to complete

## Pre-upgrade check result

-  **Warning** Integrated Windows Authentication will be deprecated in vSphere 7.0. Support for IWA continues to be available in vSphere 7.0 and will be phased out in a future release. [Learn more](#)
-  **Warning** Files that cannot be used with Lifecycle Manager 7.0.3 will not be copied from the source. These files include VM guest OS patch baselines, host upgrade baselines and files, and ESXi 6.0 and lower version host patches baselines.  
**Resolution** Please review VMware Lifecycle Manager 7.0.3 Documentation for details
-  **Warning** The vSphere Update Manager specific proxy settings is deprecated from vSphere 7.0 GA. The

CLOSE

HTTPS port

443

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

vCenter Server Installer  
Installer



vmw Upgrade - Stage 2: vCenter Server

Upgrade Wizard

Connect to source vCenter Server

1 Introduction

2 Connect to source vCenter Server

3 Select upgrade data

4 Configure CEIP

5 Ready to complete

## Pre-upgrade check result

Resolution version host patches baselines.  
Please review VMware Lifecycle Manager 7.0.3 Documentation for details

**Warning** The vSphere Update Manager specific proxy settings is deprecated from vSphere 7.0 GA. The Lifecycle Manager service will now use the proxy settings configured at VMware vCenter Server Appliance (VCSA) Interface.  
Resolution Please log in to the vCenter Server Appliance Management Interface to view and configure proxy settings. Refer to VMware Lifecycle Manager 7.0.3 release notes for details.

CLOSE

HTTPS port

443

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

## Upgrade Wizard

- 1 Introduction
- 2 Connect to source vCenter Server
- 3 Select upgrade data**
- 4 Configure CEIP
- 5 Ready to complete

### Select upgrade data

Select the data that you want to copy from the source vCenter Server.

The data sizes shown below represent only the data that will be copied to the target server. It does not correspond to the actual size of your data on the source server. The identity of the server will also be copied and the source server will remain unchanged.

- Configuration and Inventory (1.85 GB) Estimated downtime: 33 minutes
- Configuration, Inventory, Tasks and Events (2.18 GB)
- Configuration, Inventory, Tasks, Events and Performance Metrics (2.4 GB)

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

## vmw Upgrade - Stage 2: vCenter Server

### Upgrade Wizard

- 1 Introduction
- 2 Connect to source vCenter Server
- 3 Select upgrade data
- 4 Configure CEIP**
- 5 Ready to complete

### Configure CEIP

the following features:

- vSphere Health
- vSAN Online Health
- vCenter Server Update Planner
- vSAN Performance Analytics
- Host Hardware Compatibility
- vSAN Support Insight

CEIP collects configuration, feature usage, and performance information. No personally identifiable information is collected. All data is sanitized and obfuscated prior to being received by VMware.

For additional information on CEIP and the data collected, please see VMware's [Trust & Assurance Center](#).

Data collection can be enabled or disabled at any time.

Join the VMware's Customer Experience Improvement Program (CEIP)

CANCEL

BACK

NEXT

# vCenter 6.5 to 7.0 Upgrade

## Upgrade Wizard

- 1 Introduction
- 2 Connect to source vCenter Server
- 3 Select upgrade data
- 4 Configure CEIP
- 5 Ready to complete

## Ready to complete

Review your settings before finishing the wizard.

Source vCenter Server	
FQDN or IP address	[Redacted]
Version	6.5
Target vCenter Server	
FQDN or IP address (temporary)	[Redacted]
FQDN or IP address (post-upgrade)	[Redacted]
Version	7.0
Upgrade Data	
Data to copy	Configuration, Inventory, Tasks, Events and Performance Metrics
Size	2.4 GB
Customer Experience Improvement Program	

CANCEL

BACK

FINISH

# vCenter 6.5 to 7.0 Upgrade

## vmw Upgrade - Stage 2: vCenter Server

### Upgrade Wizard

- 1 Introduction
- 2 Connect to source vCenter Server
- 3 Select upgrade data
- 4 Configure CEIP
- 5 Ready to complete**

### Ready to complete

Version	6.5
▼ Target vCenter Server	
FQDN or IP address (temporary)	
FQDN or IP address (post-upgrade)	
Version	7.0
▼ Upgrade Data	
Data to copy	Configuration, Inventory, Tasks, Events and Performance Metrics
Size	2.4 GB
▼ Customer Experience Improvement Program	
CEIP setting	Opted out

I have backed up the source vCenter Server and all the required data from the database.

CANCEL

BACK

FINISH

# vCenter 6.5 to 7.0 Upgrade

vCenter Server Installer  
installer



vmw Upgrade - Stage 2: vCenter Server

## Upgrade Wizard


- 1 Introduction
- 2 Connect to source vCenter Server
- 3 Select upgrade data
- 4 Configure CEIP
- 5 Ready to complete

## Ready to complete

Version 6.5

### Target vCenter Server

### Warning

 The source vCenter will be shut down once the network configuration is enabled on destination vCenter Server. Click OK to continue, or Cancel to stop the upgrade.

CANCEL

OK

CEIP setting

Opted out

I have backed up the source vCenter Server and all the required data from the database.

CANCEL

BACK

FINISH

# vCenter 6.5 to 7.0 Upgrade

⚠ vCenter Server 7.0 has been successfully installed. However, additional steps must be completed before it is available for use. Click one of the links below to continue setup.

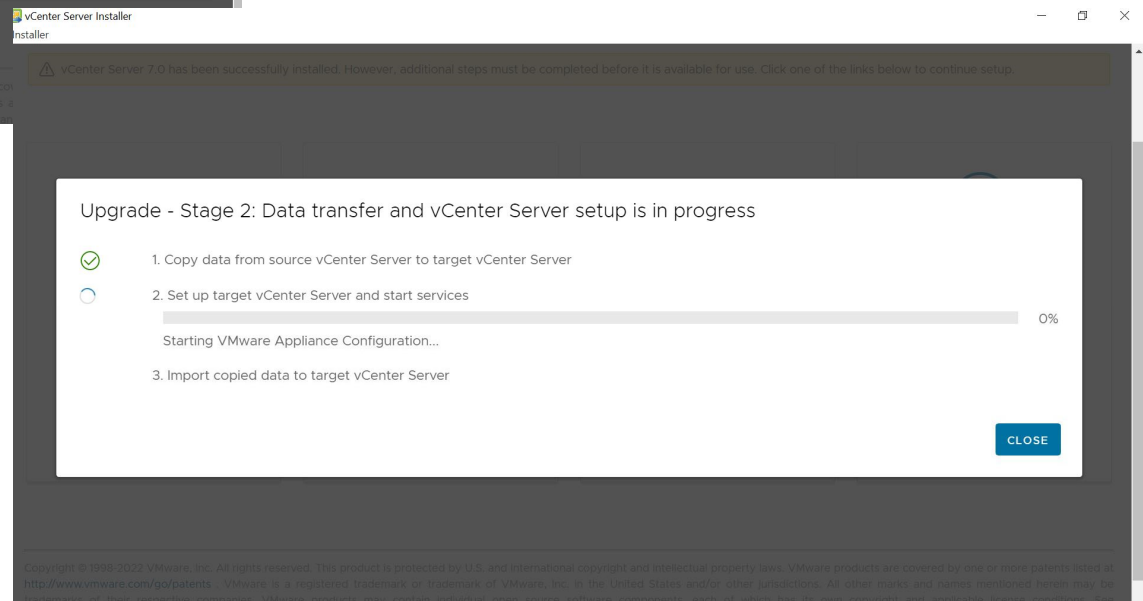
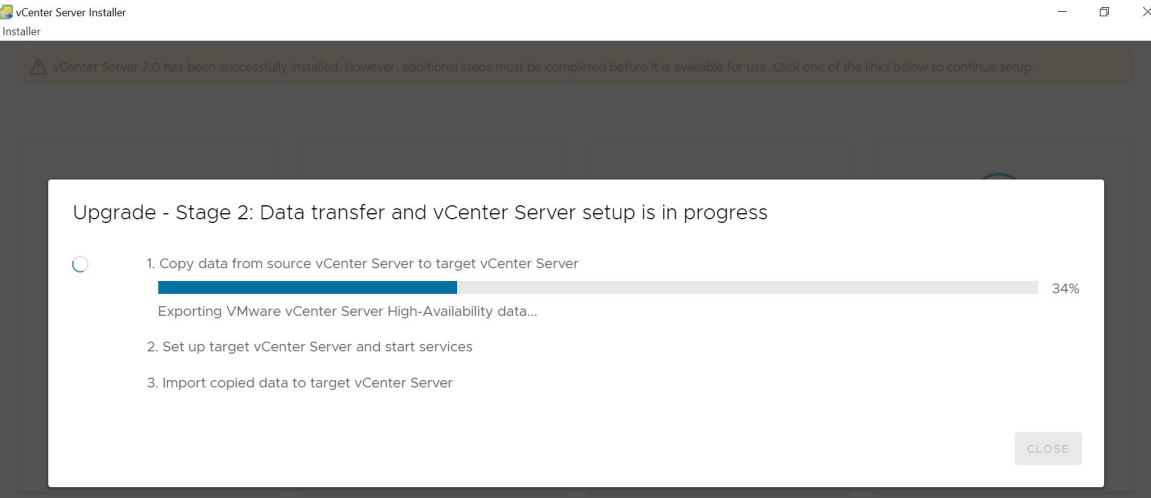
## Upgrade - Stage 2: Data transfer and vCenter Server setup is in progress

- 1. Copy data from source vCenter Server to target vCenter Server  
 0%
- 2. Set up target vCenter Server and start services
- 3. Import copied data to target vCenter Server

CLOSE



# vCenter 6.5 to 7.0 Upgrade



# vCenter 6.5 to 7.0 Upgrade

The image shows two overlapping screenshots of the vCenter Server Installer window. The top screenshot shows the completion of Stage 2, while the bottom screenshot shows the progress of Stage 3.

**vCenter Server Installer**  
Installer

vCenter Server 7.0 has been successfully installed. However, additional steps must be completed before it is available for use. Click one of the links below to continue setup.

### Upgrade - Stage 2: Data transfer and vCenter Server setup is in progress

- ✓ 1. Copy data from source vCenter Server to target vCenter Server
- ✓ 2. Set up target vCenter Server and start services
- 3. Import copied data to target vCenter Server

vCenter Server Appliance, vCenter Server Instance Window

**vCenter Server Installer**  
Installer

vCenter Server 7.0 has been successfully installed. However, additional steps must be completed before it is available for use. Click one of the links below to continue setup.

### Upgrade - Stage 2: Data transfer and vCenter Server setup is in progress

- ✓ 1. Copy data from source vCenter Server to target vCenter Server
- ✓ 2. Set up target vCenter Server and start services
- 3. Import copied data to target vCenter Server

Importing VMware vCenter Server Database data... 13%

**CLOSE**

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# vCenter 6.5 to 7.0 Upgrade

vCenter Server Installer  
Installer



Upgrade -



1. Co



2. Se




3. Im

Data transfer and

vCenter Server G

## Messages

 If using Auto Deploy, update the DHCP settings and update the TFTP settings with the new set of tramp files from the new Auto Deploy server.

 vSphere 7.0 disables the TLS 1.0 and TLS 1.1 protocols for improved security. Note: Some applications might support only the older protocols. To revert to the less secure TLS 1.0 and TLS 1.1 protocols, run the TLS Reconfigurator tool. Tool location: vCenter Server Appliance: /usr/lib/vmware-TlsReconfigurator/VcTlsReconfigurator See <https://kb.vmware.com/kb/2147469> for details.

CLOSE

ES

CLOSE

# vCenter 6.5 to 7.0 Upgrade

vCenter Server Installer  
Installer



⚠ vCenter Server 7.0 has been successfully installed. However, additional steps must be completed before it is available for use. Click one of the links below to continue setup.

## Upgrade - Stage 2: Complete

- ✓ 1. Copy data from source vCenter Server to target vCenter Server
- ✓ 2. Set up target vCenter Server and start services
- ✓ 3. Import copied data to target vCenter Server

Data transfer and vCenter Server setup has been completed successfully. Click on the link below to get started. Press close to exit.

vCenter Server Getting Started Page : [https://\[redacted\]443](https://[redacted]443)

MESSAGES

CLOSE

# vCenter 6.5 to 7.0 Upgrade

The screenshot displays the vSphere Client interface. At the top, a warning banner states: "There are expired or expiring licenses in your inventory. [MANAGE YOUR LICENSES](#)". The user is logged in as Administrator@VSPHERE.LOCAL.

The left sidebar shows the navigation tree with "IN Datacenters" and "Chennai" highlighted. The main content area shows the "Summary" tab for a vCenter instance. The version is 7.0.3 (Build: 19717403), last updated on Jun 10, 2022, 5:14 PM. The last file-based backup is not scheduled. Resource usage is shown as follows:

Resource	Used	Capacity	Free
CPU	171.32 GHz	983.12 GHz	811.81 GHz
Memory	4.34 TB	6.79 TB	2.45 TB
Storage	85.52 TB	202 TB	116.48 TB

Summary statistics:

- Clusters: 4
- Hosts: 18
- Virtual Machines: 409

A central message states: "Successfully upgraded the vCenter from 6.5 to 7.0.3". Below this, a red alert box contains the following items:

- DOC\_NRL\_Project: Datastore usage on disk (Acknowledge, Reset To Green)
- Certificate Status (Acknowledge, Reset To Green)
- STS Signing Certificates are about to expire (Acknowledge, Reset To Green)

The bottom section shows the "Recent Tasks" tab with a table of task details:

Task Name	Target	Status	Details	Initiator	Queued For	Start Time
All	More Tasks					

Page 1 of 3 items.

## ESXi 6.5 to 7.0 Upgrade - CLI

```
[root@hostname:~] esxcli software sources profile list -d /vmfs/volumes/datastorename/esxi70/VMware-VMvisor-Installer-7.0.0.update03-19193900.x86_64-DellEMC_Customized-A02.zip
```

```
Name          Vendor  Acceptance Level
```

```
-----  
DEL-ESXi-703_19193900-A02 Dell Inc. PartnerSupported
```

```
[root@hostname:~] esxcli software profile update -p DEL-ESXi-703_19193900-A02 -d /vmfs/volumes/datastorename/esxi70/VMware-VMvisor-Installer-7.0.0.update03-19193900.x86_64-DellEMC_Customized-A02.zip --dry-run
```

```
[DependencyError]
```

```
VIB QLogic_bootbank_net-qlge_3.0.0.59-1OEM.550.0.0.1331820 requires com.vmware. driverAPI-9.2.2.0, but the requirement cannot be satisfied within the ImageProfile.
```

```
VIB Avago_bootbank_scsi-mpt3sas_10.00.02.00-1OEM.550.0.0.1331820 requires com.v mware.driverAPI-9.2.2.0, but the requirement cannot be satisfied within the ImageProfile.
```

```
VIB VMware_bootbank_scsi-qla2xxx_902.k1.1-12vmw.550.3.68.3029944 requires vmkapi_2_2_0_0, but the requirement cannot be satisfied within the ImageProfile.
```

```
VIB Mellanox_bootbank_net-mlx-compat_2.3.3.1-1OEM.550.0.0.1331820 requires vmkapi_2_2_0_0, but the requirement cannot be satisfied within the ImageProfile.
```

```
[root@hostname:~] esxcli software vib list |grep Mellanox
```

```
net-mlx-compat          2.3.3.1-1OEM.550.0.0.1331820      Mellanox VMwareCertified 2020-07-04
```

```
net-mlx4-core           2.3.3.1-1OEM.550.0.0.1331820      Mellanox VMwareCertified 2020-07-04
```

```
net-mlx4-en             2.3.3.1-1OEM.550.0.0.1331820      Mellanox VMwareCertified 2020-07-04
```

```
[root@hostname:~] esxcli software vib remove -n net-mlx4-en
```

```
Removal Result
```

```
Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective.
```

```
Reboot Required: true
```

```
VIBs Installed:
```

```
VIBs Removed: Mellanox_bootbank_net-mlx4-en_2.3.3.1-1OEM.550.0.0.1331820
```

```
VIBs Skipped:
```

```
[root@hostname:~] (### we have to remove all the drivers which are not compatible to the ESXi host upgrade###)
```

## ESXi 6.5 to 7.0 Upgrade - CLI

```
[root@hostname:~] esxcli software profile update -p DEL-ESXi-703_19193900-A02 -d /vmfs/volumes/datastorename/esxi70/VMware-VMvisor-Installer-7.0.0.update03-19193900.x86_64-DellEMC_Customized-A02.zip --dry-run
```

Update Result

Message: Dryrun only, host not changed. The following installers will be applied: [BootBankInstaller, LockerInstaller]

Reboot Required: **true ( ### The dry run command should be true status where the Esxi is ready for the upgrade### )**

VIBs Installed: BCM\_bootbank\_bnxtnet\_219.0.29.0-1OEM.700.1.0.15843807, BCM\_bootbank\_bnxtroce\_219.0.13.0-1OEM.700.1.0.15843807, BCM\_bootbank\_dell-shared-perc8\_06.806.92.00-1OEM.700.1.0.15843807, BCM\_bootbank\_lsi-mr3\_7.719.02.00-1OEM.700.1.0.15843807, BCM\_bootbank\_lsi-msgpt35\_19.00.03.00-1OEM.700.1.0.15843807, DEL\_bootbank\_dell-configuration-vib\_7.0.0-A00, DEL\_bootbank\_dellemc-fac-dcui\_7.0.3-A00, DEL\_bootbank\_dellemc-osname-idrac\_7.0.0-A00, INT\_bootbank\_i40en\_2.1.5.0-1OEM.700.1.0.15843807, INT\_bootbank\_icen\_1.6.2.0-1OEM.700.1.0.15843807,

```
[root@hostname:~] vmware -v
```

**VMware ESXi 6.5.0 build-16901156 – checking the version before starting the upgrade.**

```
[root@hostname:~] esxcli software profile update -p DEL-ESXi-703_19193900-A02 -d /vmfs/volumes/datastorename/esxi70/VMware-VMvisor-Installer-7.0.0.update03-19193900.x86_64-DellEMC_Customized-A02.zip ( ### remove the --dry-run to start for the upgrade### )
```

Update Result

Message: The update completed successfully, but the system needs to be rebooted for the changes to be effective.

Reboot Required: true – **“### The upgrade will be successful the if the reboot required is true ###”**

VIBs Installed: BCM\_bootbank\_bnxtnet\_219.0.29.0-1OEM.700.1.0.15843807, BCM\_bootbank\_bnxtroce\_219.0.13.0-1OEM.700.1.0.15843807, BCM\_bootbank\_dell-shared-perc8\_06.806.92.00-1OEM.700.1.0.15843807, BCM\_bootbank\_lsi-mr3\_7.719.02.00-1OEM.700.1.0.15843807, BCM\_bootbank\_lsi-msgpt35\_19.00.03.00-1OEM.700.1.0.15843807, DEL\_bootbank\_dell-configuration-vib\_7.0.0-A00, DEL\_bootbank\_dellemc-fac-dcui\_7.0.3-A00, DEL\_bootbank\_dellemc-osname-idrac\_7.0.0-A00, INT\_bootbank\_i40en\_2.1.5.0-1OEM.700.1.0.15843807, INT\_bootbank\_icen\_1.6.2.0-1OEM.700.1.0.15843807,

VIBs Skipped:

```
[root@hostname:~] reboot
```

```
[root@hostname:~] vmware -v
```

VMware ESXi 7.0.3 build-19193900

```
[root@hostname:~]
```