

CentOS 6 to CentOS 7 Migration Guide for Hyper-V

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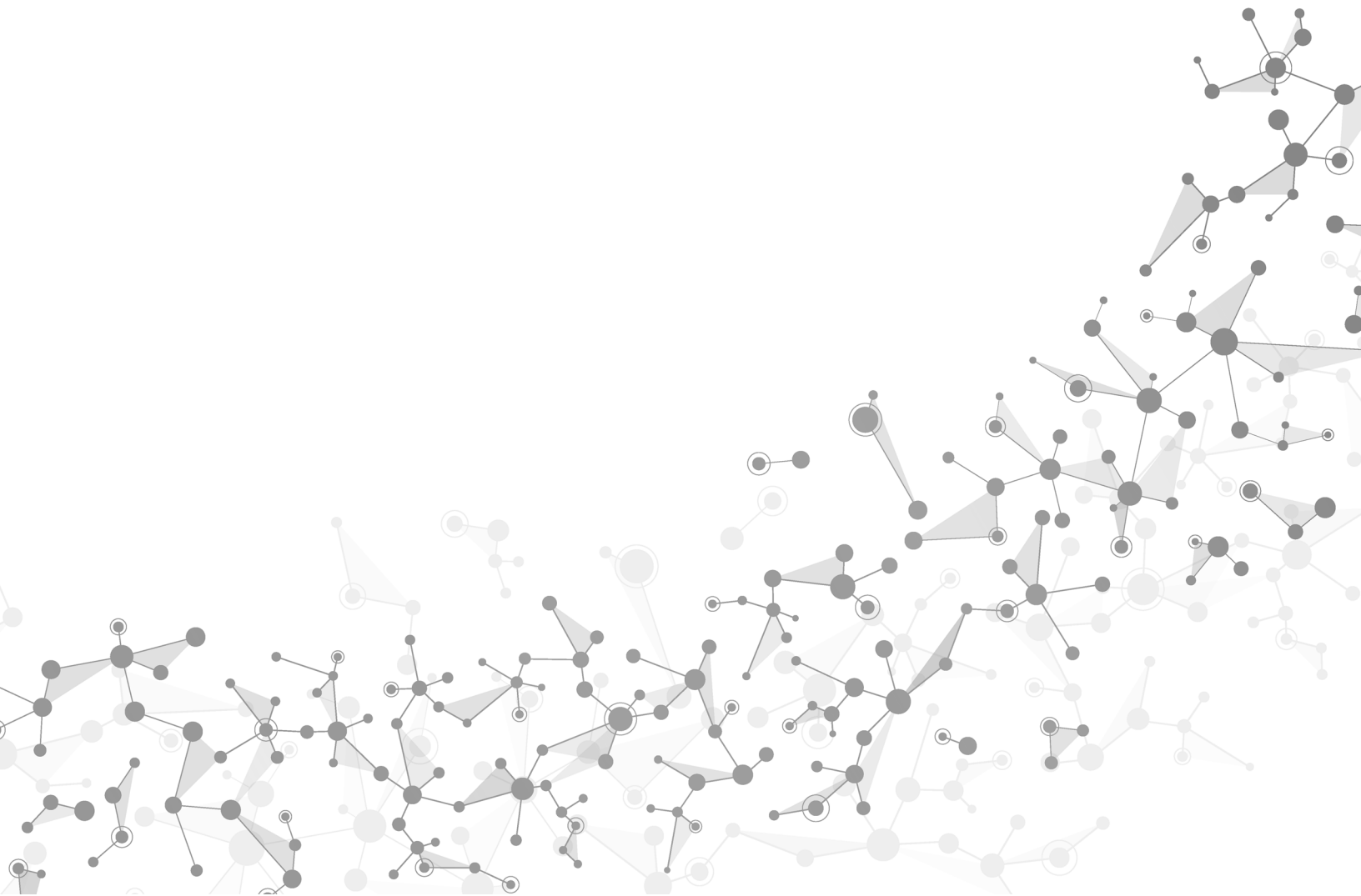
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Chapter 1: Introduction

This guide provides instructions for migrating your Unitrends Backup virtual appliance from the CentOS 6 platform to CentOS 7. Migration consists of preparing the CentOS 6 appliance, deploying the CentOS 7 Unitrends Backup virtual machine (VM), attaching backup storage from the original CentOS 6 VM, and configuring settings on the new appliance.

To get started, review the ["Migration considerations"](#). Then use the ["Migration procedures checklist"](#) as a guide for performing the migration. Or, if you prefer more detail, review the complete ["Migration Requirements"](#), then perform the step-by-step ["Migration Procedures"](#).

Migration considerations

Review these considerations before you start:

- Once you migrate the CentOS 6 data, the CentOS 6 appliance is no longer usable. You must recover the data to the newly deployed CentOS 7 VM. Hyper-V Server 2008 R2 SP1 or higher is required to deploy the CentOS 7 VM. Do not migrate data until you are ready to deploy the CentOS 7 VM.
- Before you migrate the CentOS 6 data, you must use your Hyper-V server to consolidate any snapshots on the CentOS 6 VM. Snapshots must be consolidated for a successful migration.
- Before you migrate, check these tabs for any active recovery objects: Recover > File Level Recovery, Instant Recovery, and Replicas. Tear down any objects before starting the migration. You will need to recreate these objects on the CentOS 7 appliance.
- If you are encrypting backups, save the CentOS 6 encryption passphrase in a safe place. You must manually configure encryption with this same passphrase on the new CentOS 7 appliance. If you migrate and are not able to configure encryption with the CentOS 6 passphrase, any encrypted backups that were migrated cannot be recovered.
- Data copy access lab profiles are not migrated. If you are using this feature, you need to manually recreate lab profiles on the CentOS 7 appliance.
- Push install of the Windows agent is not supported on migrated appliances. After migrating to CentOS 7, the Windows agent must be installed manually on its protected assets.
- The migration tool verifies all requirements other than encryption, snapshot consolidation, and whether there are any active recovery objects. If a requirement has not been met, the migration does not proceed and you receive a message describing each issue that must be addressed. You can opt to simply run the migration tool without checking these CentOS 6 requirements, then address any issues if found. For detailed requirements, see ["Requirements for CentOS 6 Unitrends Backup virtual appliance"](#).

Migration procedures checklist

- ["Step 1: Migrate data on the CentOS 6 appliance"](#) – To migrate the data, upgrade the CentOS 6 appliance to release 10.5.0-3 or higher, then select **Migrate from CentOS 6 to CentOS 7** in the Support Toolbox (**Configure > Appliances > Edit > Advanced > Support Toolbox**).

IMPORTANT! Migration time varies by database size. Do not manually close the user interface while the migration is running. It is safe to close the UI after the Results Migration message displays.

- "Step 2: Download the Unitrends Backup EXE or VHD" – Download the CentOS 7 EXE or VHD file from <https://www.unitrends.com/download/enterprise-backup-software>.
- "Step 3: Deploy the CentOS 7 Unitrends Backup VM" – Deploy the CentOS 7 EXE or VHD on your Hyper-V server. Configure the appliance IP address to match that of the CentOS 6 appliance. Ensure that the memory and CPU settings match or exceed those of the CentOS 6 VM.
- "Step 4: Attach backup storage" – Edit the CentOS 7 VM to attach the all backup storage disks from the original CentOS 6 VM.

IMPORTANT!

- You must add all backup storage disks from the original CentOS 6 VM.
 - Do not add Hard Disk 1. This 100GB disk was created during VM deployment and is NOT used to store backups.
 - You must add the first backup storage disk (typically Hard Disk 2) before you add any other backup storage disks.
- "Step 5: Set up the CentOS 7 appliance using the Quick Setup Wizard" – Log in to the appliance UI. Use the Setup Wizard to configure appliance settings. When prompted to configure storage, click **Recover** to add the migrated backups to the appliance.
 - "Step 6: (If needed) Configure encryption with the CentOS 6 passphrase" – If backups were being encrypted on the CentOS 6 appliance, you must configure encryption with the passphrase that was used by the CentOS 6 appliance. If you do not use the original passphrase, any encrypted backups that were migrated cannot be recovered. To configure encryption settings, select **Configure > Appliances > Edit > Advanced**.
 - "Step 7: (If needed) Add data copy access profiles" – Data copy access profiles are not migrated from the CentOS 6 appliance. If you were using the copy data management feature, you need to recreate your data copy access profiles. For details, see [Copy Data Management](#) in the [Administrator Guide for Recovery Series, Recovery MAX, ION/ION+, and Unitrends Backup](#).
 - "Step 8: Register and license the CentOS 7 appliance" – You must register and license the appliance within 30 days of deploying the CentOS 7 VM. Go to **Configure > Appliances > Edit > License**. Click **Update** and select **I need to activate my purchase**.

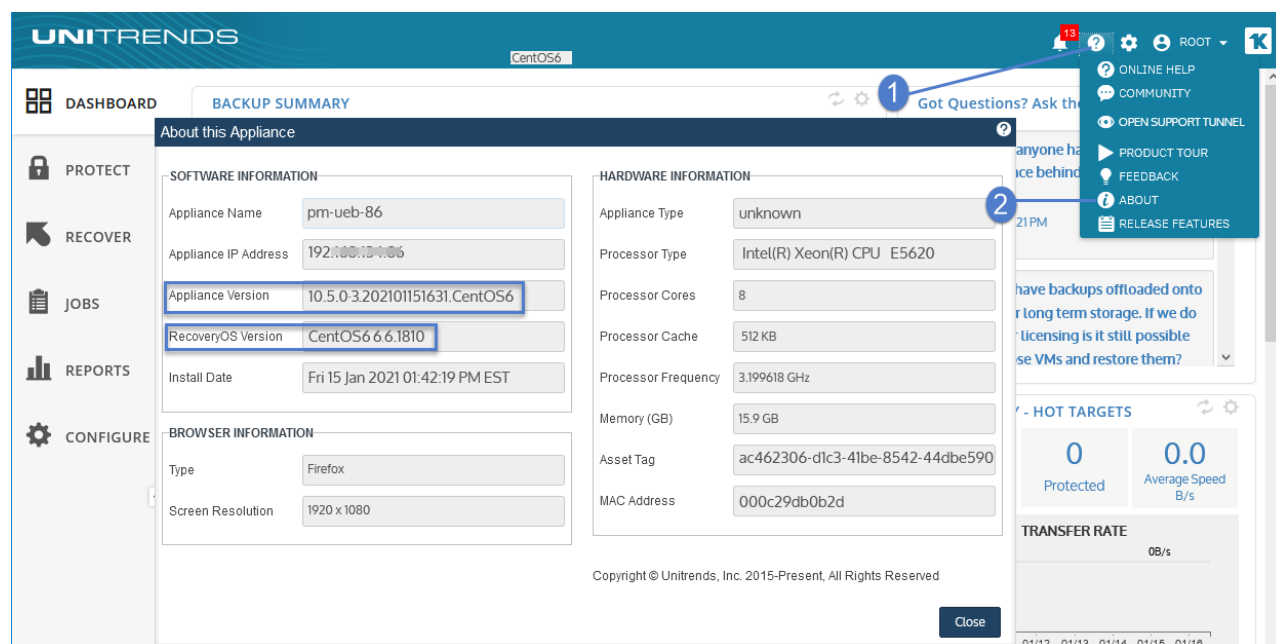
Chapter 2: Migration Requirements

Migration requirements for the CentOS 6 and CentOS 7 Unitrends Backup virtual appliances are described below.

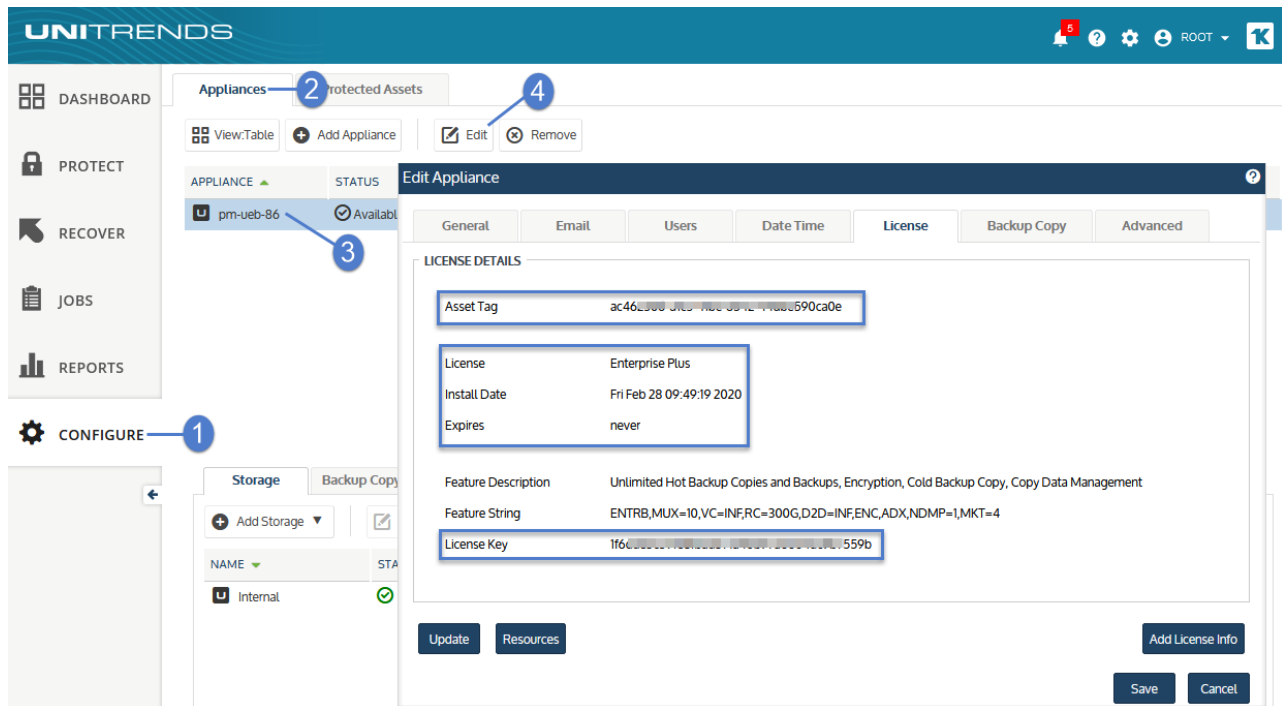
Requirements for CentOS 6 Unitrends Backup virtual appliance

Your CentOS 6 Unitrends Backup appliance must meet these prerequisites:

- Snapshot consolidation – Use your Hyper-V server to consolidate any snapshots on the CentOS 6 VM.
- Manager appliances – The CentOS 6 appliance must not be managing another appliance. Migration is not supported for manager appliances.
- Appliance version and platform – The appliance is running release 10.5.0-3 or higher on the CentOS 6 platform. To check, select ? > About:



- License and asset tag – The appliance has a valid license, support contract, and asset tag (**Configure > Appliance > Edit Appliance > License**):



- Internet access – The appliance has access to the Internet.
- Email – Email is configured on the appliance so you can receive email notifications related to platform migration (Configure > Appliance > Edit Appliance > Email):

Edit Appliance

General | **Email** | Users | Date Time | License | Backup Copy | Advanced

SMTP SETTINGS

☒ Enable email reporting
Reporting is enabled

SMTP Server: unit[redacted]utlook.com
SMTP server is configured

☐ Server requires credentials

Username: [text input]

Password: [password input]

[Send a Test Email](#)

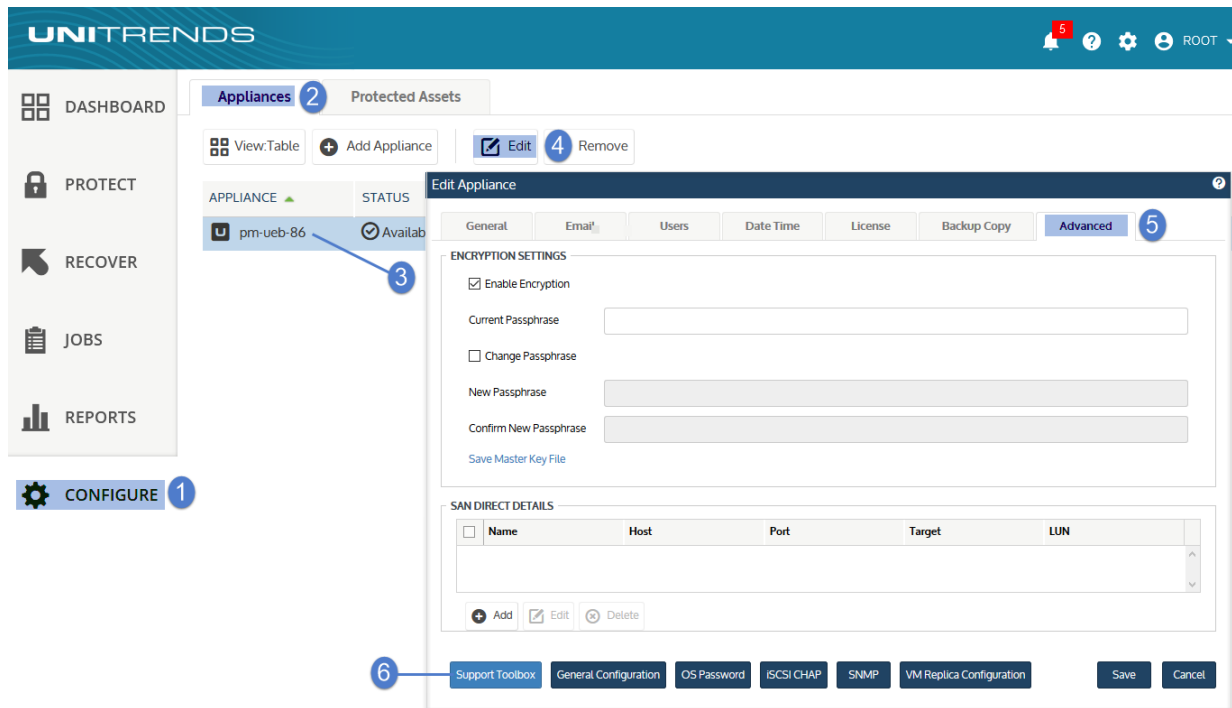
EMAIL RECIPIENTS

RECIPIENTS	APPLIANCE	JOBS	FAILURES	
dst[redacted]nds.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✗
ast[redacted]ds.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	✗ +

Recipients are set up to receive Appliance notifications

[Save](#) [Cancel](#)

- Filesystem configuration – The database resides on the storage partition. This is the default configuration. If your database was moved to a separate partition, migration is not supported. The migration tool detects this and no data is migrated.
- Filesystem configuration – The appliance is configured with expanded storage. To verify that storage has been expanded:
 - On the **Configure > Appliances** page, select the appliance and click **Edit**. Click **Advanced** and select **Support Toolbox**.



- In the Support Toolbox (Advanced) dialog, click **Filesystem Information**. If you see `/_Stateless`, storage has been expanded.

The screenshot shows the 'Support Toolbox (Advanced)' dialog with several tabs. The 'Filesystem Information' tab is selected, showing the output of the 'df' command. A blue circle with the number '1' points to the 'Filesystem Information' tab. Another blue circle with the number '2' points to the 'Storage has been expanded' message at the bottom of the dialog.

Support Toolbox (Advanced)

Active Ports
All active or listening network ports

Active Support Tunnel
Checks for an active support tunnel and returns its port number. Returns 0 if no tunnel exists.

Appliance
Information about Appliance type

Asset Tag
Asset tag display

Date and Time
System date and time

Disk Free Space
Free space available on each partition

Disk Status
Gathers all relevant Disk Status from the Unitrends System.

Filesystem Information **1**
Information about all filesystems on the System

Hardware
Hardware details

Results: Filesystem Information

```
#
# /etc/fstab
# Created by anaconda on Fri Apr 26 18:38:30 2019
#
# Accessible filesystems, by reference, are maintained under '/dev/disk'
# See man pages fstab(5), findfs(8), mount(8) and/or blkid(8) for more info
#
UUID=8fcad43e-fd56-4f0f-bb26-cd93868aee96 /                ext4    defaults
1 1
UUID=70d093d9-bba3-4e94-8d5f-dd6b2951fdc6 /boot              ext4    defaults
1 2
UUID=4b98fec0-dd98-4ec6-b272-1d3deb5501cf /usr               ext4    defaults
1 2
UUID=5edd24fd-feba-4f59-9a3b-96acf4aa88c3 /usr/bp            ext4    defaults
1 2
UUID=349024e0-42cd-4979-8939-0a9da4f19d06 /var               ext4    defaults
1 2
/dev/mapper/vg_root-lv_swap swap                swap    defaults    0 0
/dev/dvd /media/cdrecorder1 auto                0 0
pamconsole,exec,noauto,managed 0 0
/tmp /var/tmp none rw,nosuid,nodev,noexec,bind 0 0
/dev/mapper/vg_state-lv_backup /_Stateless xfs defaults,inode64 1 2
```

2 Storage has been expanded **Close**

- Available space – The `/_Stateless` partition must have adequate available space to accommodate the database migration. To check the space available, select **Disk Free Space** in the Support Toolbox (Advanced) dialog:

Support Toolbox (Advanced)

Active Ports
All active or listening network ports

Active Support Tunnel
Checks for an active support tunnel and returns its port number. Returns 0 if no tunnel exists.

Appliance
Information about Appliance type

Asset Tag
Asset tag display

Date and Time
System date and time

Disk Free Space
Free space available on each partition

Results: Disk Free Space

Filesystem	Size	Used	Avail	Use%	Mounted on
devtmpfs	1.9G	0	1.9G	0%	/dev
tmpfs	1.9G	32K	1.9G	1%	/dev/shm
tmpfs	1.9G	186M	1.7G	10%	/run
tmpfs	1.9G	0	1.9G	0%	/sys/fs/cgroup
/dev/sda2	976M	227M	683M	25%	/
/dev/sda5	5.8G	2.7G	2.9G	49%	/usr
/dev/sda1	239M	194M	29M	88%	/boot
/dev/sda6	3.9G	676M	3.0G	19%	/var
/dev/sda3	50G	6.0G	41G	13%	/usr/kr
/dev/mapper/vg_state-lv_backup	200G	96G	105G	48%	/_Stateless
overlay	200G	96G	105G	48%	/_Stateless/backup
/overlay2/760d154544					fe7eaab1253f271dcb7a135
shm	64M	0	64M	0%	/_Stateless/backup
/containers/771cc5					7b500c2026/shm
tmpfs	379M	0	379M	0%	/run/user/0
//19	932G	855G	78G	92%	/mnt/nas/nas92public2
//19	932G	855G	78G	92%	/mnt/nas/nas92public

Available space is 105G

Close

- Encryption – If backups are being encrypted, save the encryption passphrase in a safe place. You must manually configure encryption with this same passphrase on the new CentOS 7 appliance.

IMPORTANT! If you are not able to configure encryption on the CentOS 7 appliance using the original passphrase, there is no way to recover the encrypted backups that were migrated from the CentOS 6 appliance.

- Cold backup copy devices – Any cold backup copy target devices have been disconnected.
- Backup and cold backup copy jobs – There are no active backup and cold backup copy jobs. If jobs are running, wait for them to complete or cancel them before starting the migration.
- Recovery objects – Check these tabs for any active recovery objects: Recover > File Level Recovery, Instant Recovery, and Replicas. Tear down any objects before starting the migration. You will need to recreate these objects on the CentOS 7 appliance.



Deployment requirements for CentOS 7 Unitrends Backup virtual appliance

You will deploy a new CentOS 7 Unitrends Backup appliance that will be used to replace your original CentOS 6 appliance. Before deploying your Unitrends Backup appliance, verify that the following requirements have been met:

Hypervisor requirements

You can deploy Unitrends Backup on a Windows server with the Hyper-V role enabled or on a dedicated Hyper-V server. Depending on the server type, you deploy by using a Windows EXE installer or a VHD file. See the tables below to determine which method to use for your server.

Verify the following requirements for the hypervisor on which you are deploying the Unitrends Backup VM:

- To deploy on a Windows server, enable the Hyper-V role. Make sure the server is running one of the following supported operating systems and service pack levels:

Windows Server	Deployment method
Windows Server 2019 (Nano Server installations are not supported)	EXE
Windows Server 2016 (Nano Server installations are not supported)	EXE
Windows Server 2012 R2	EXE
Windows Server 2012	EXE
Windows 2012 R2 Server Core*	VHD
Windows Server 2008 R2 SP1	VHD
Windows 2008 R2 Server Core*, with SP1 or higher	VHD

*For Server Core, you must install the Hyper-V management tools and sub-features separately by running the PowerShell `Install-WindowsFeature` command with the

`-IncludeManagementTools` and `-IncludeAllSubFeature` parameters. After installing, restart the

server. For details on using this command, see the Microsoft article [Install-WindowsFeature](#).

- To deploy on a Hyper-V server, make sure the server is running one of the following supported operating systems and service pack levels:

Hyper-V Server	Deployment method
Hyper-V Server 2019 (Nano Server installations are not supported)	EXE
Hyper-V Server 2016 (Nano Server installations are not supported)	EXE
Hyper-V Server 2012	EXE
Hyper-V Server 2012 Core*	VHD
Hyper-V Server 2012 R2	EXE
Hyper-V Server 2012 R2 Core*	VHD
Hyper-V Server 2008 R2 SP1	VHD

*Server Core – Hyper-V management tools and sub-features are required for deployment. If needed, install the Hyper-V management tools and sub-features by running the PowerShell `Install-WindowsFeature` command with the `-IncludeManagementTools` and `-IncludeAllSubFeature` parameters. After installing, restart the server. For details on using this command, see the Microsoft article [Install-WindowsFeature](#).

- To deploy by using the EXE installer:
 - You must download the EXE directly to the server on which you will deploy the Unitrends Backup VM.
 - The Hyper-V server where you run the EXE installer must have both .NET Framework 3.5 and 4 installed. For details, see the following Microsoft documents:
 - [Installing the .NET Framework 3.5](#)
 - [Microsoft .NET Framework 4](#)

Network requirements

- During deployment, you will configure these network settings: IP address and subnet, gateway, and DNS. Be sure to use the same network configuration as the original CentOS 6 appliance.
- To view the network settings of the CentOS 6 appliance, select **Configure > Appliances > Network**:

Notes:

- Initially, the Unitrends Backup VM is created with the IP address 10.10.10.1 and the subnet mask 255.255.255.0. If this IP is currently being used in your environment, disable it until you bring the

Unitrends Backup VM online and assign it a new IP address.

- Additional ports must be open if there is a firewall between your appliance and its protected assets, for connectivity to the Internet, and for connectivity to any hot backup copy target. For details, see [Appliance network settings > Additional ports](#) in the [Administrator Guide for Recovery Series, Recovery MAX, ION/ION+, and Unitrends Backup](#)

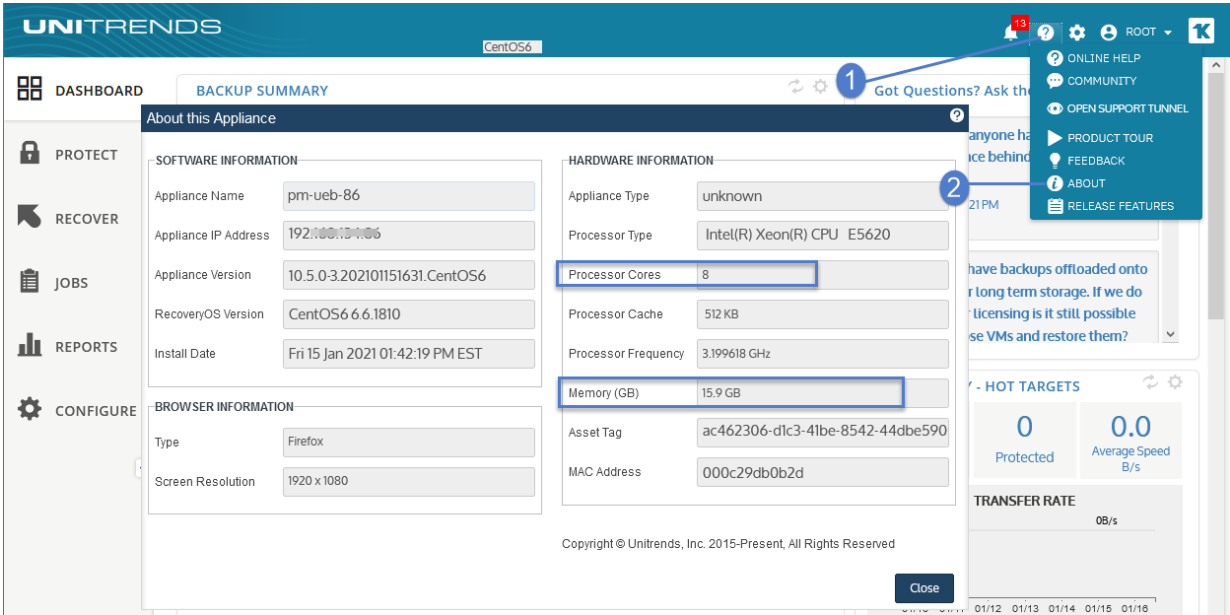
The screenshot shows the Unitrends Backup VM interface. The top navigation bar includes the Unitrends logo, a notification bell with a red '5', a help icon, a settings icon, a user profile icon labeled 'ROOT', and a logo. The left sidebar contains navigation links: DASHBOARD, PROTECT, RECOVER, JOBS, REPORTS, and CONFIGURE (highlighted with a blue circle '1'). The main content area is divided into two tabs: 'Appliances' (highlighted with a blue circle '2') and 'Protected Assets'. Under 'Appliances', there are buttons for 'View Table', 'Add Appliance', 'Edit', and 'Remove'. Below these is a table with columns: APPLIANCE, STATUS, ADDRESS, VERSION, STORAGE, and REGISTERED ASSETS. The table contains one entry: 'pm-ueb-86' with status 'Available (logged in)', address '192.168.1.86', version '10.5.0-3.202101160916.CentOS6', and 339 registered assets. A blue circle '3' points to the 'pm-ueb-86' entry. Below the table are tabs for 'Storage', 'Backup Copy Targets', 'Network' (highlighted with a blue circle '4'), and 'Interactions'. Under the 'Network' tab, there are buttons for 'Refresh', 'Edit', 'Edit Hosts File', and 'Ports'. Below these is a table with columns: ADAPTER, MAC ADDRESS, IP ADDRESS, GATEWAY, SUBNET MASK, DNS1, DNS2, and DNS SEARCH. The table contains two entries: 'ens224' and 'ens192', both with MAC address '00:0c:29:db:0b:37'. The 'IP ADDRESS' for 'ens224' is '192.168.1.100' and for 'ens192' is '192.168.1.104'. The 'GATEWAY' is '192.168.1.1' and the 'SUBNET MASK' is '255.255.255.0'. The 'DNS1' and 'DNS2' are '192.168.1.100' and '192.168.1.104' respectively. The 'DNS SEARCH' is 'unitrends.com, Hyper170Lab.com, unitrends.com'.

Virtual machine resource requirements

The following minimum resources are required:

- 100GB of space for the VM's initial disk.
- A minimum of 2 virtual processors (CPUs) or the number of CPUs on the original CentOS 6 appliance, whichever is greater.
- A minimum of 8GB of RAM or the amount of RAM on the original CentOS 6 appliance, whichever is greater.

To check the CPU and RAM of the CentOS 6 appliance in the appliance UI, select ? > **About**:



Chapter 3: Migration Procedures

Use these procedures to migrate your CentOS 6 appliance to CentOS 7.

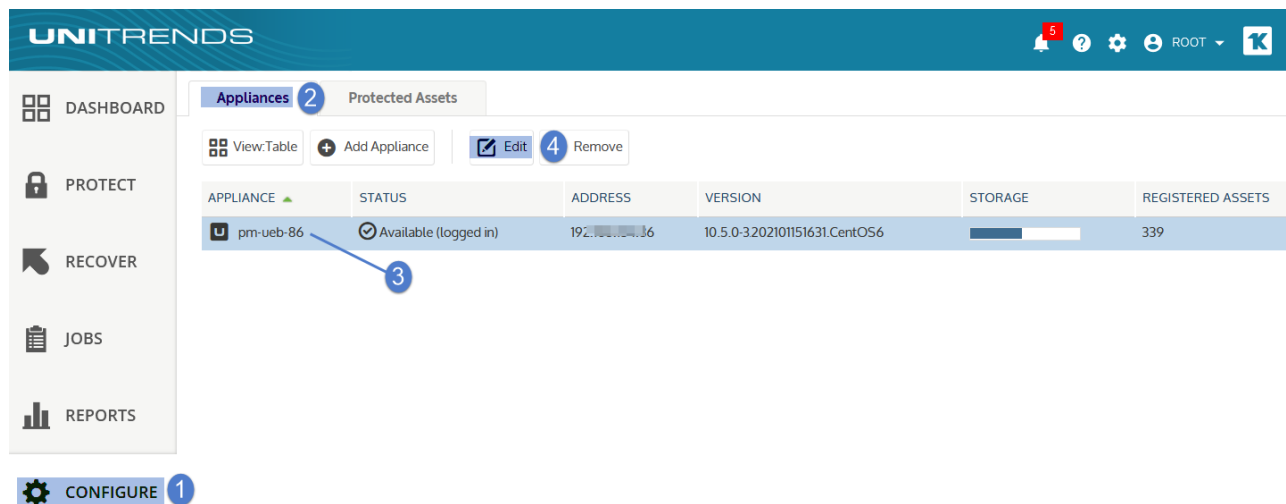
Step 1: Migrate data on the CentOS 6 appliance

IMPORTANT! Before running this procedure, use your Hyper-V server to consolidate snapshots on the CentOS 6 VM. If your backups are encrypted, be sure you can access the passphrase that was configured on the CentOS 6 appliance. Once data has been migrated, the original CentOS 6 appliance is no longer usable. Any encrypted backups can only be recovered by configuring encryption on the CentOS 7 appliance using the CentOS 6 passphrase.

- 1 Log in to the CentOS 6 appliance UI.

You must log in directly to the appliance. You cannot access the Support Toolbox of a managed appliance.

- 2 On the **Configure > Appliances** page, select the appliance and click **Edit**.



- 3 Click **Advanced** and select **Support Toolbox**.

Edit Appliance

General | Email | Users | Date Time | License | Backup Copy | **Advanced** 1

ENCRYPTION SETTINGS

☒ Enable Encryption

Current Passphrase

☐ Change Passphrase

New Passphrase

Confirm New Passphrase

[Save Master Key File](#)

SAN DIRECT DETAILS

<input type="checkbox"/>	Name	Host	Port	Target	LUN

+ Add 2 Edit - Delete

Support Toolbox | General Configuration | OS Password | iSCSI CHAP | SNMP | VM Replica Configuration | Save | Cancel

- 4 In the Support Toolbox (Advanced) dialog, scroll down and click **Migrate from CentOS 6 to CentOS 7**.

IMPORTANT! Migration time varies by database size. Do not manually close the user interface while the migration is running. It is safe to close the UI after the Results Migration message displays.

Support Toolbox (Advanced)

Hosts File
Listing of system hosts file

IOPS Test
Tests the IOPS to the primary storage

IPMI Status
Gathers all relevant IPMI Status from the Unitrends System.

Kernel Information
Kernel revision, build date, and system architecture

LVM Status
Status of LVM subsystem: physical volumes, logical volumes, and volume groups

Maximum Backups
Displays maximum amount of client data supported on this platform (if defined)

Memory Usage
Free and available system

Migrate from CentOS6 to CentOS7
Refer to and complete all steps in the Migration KB found in the 10.5.0 release notes before clicking on this button.

Modules Loaded
Status of modules loaded in the Linux Kernel

Mountpoints
System mountpoints

Click to run "Migrate from CentOS6 to CentOS7" command

Close

- 5 The migration tool does the following:

- Verifies that all appliance requirements have been met.

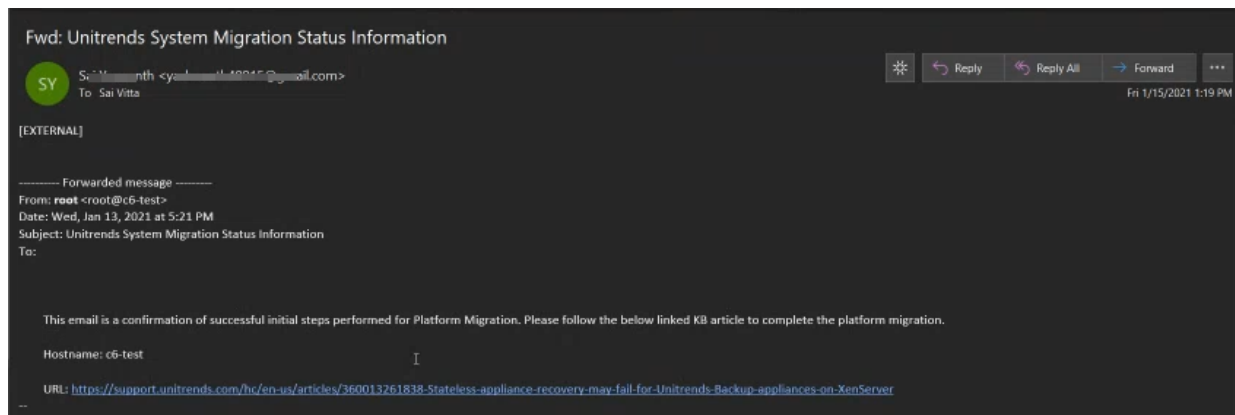
Notes:

- If requirements have not been met, a message displays describing the issue.

- Click **Close** to exit the message, then address the requirement.



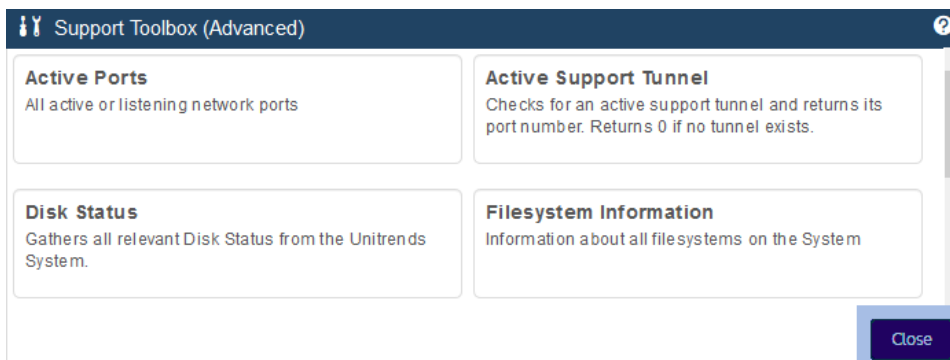
- Migrates the database, sends a confirmation message to the Appliance email recipients, then powers off the CentOS 6 VM. Sample confirmation email:



- 6 A confirmation message displays. Click **Close** to exit the message.



- 7 Click **Close** to exit the Support Toolbox.



Step 2: Download the Unitrends Backup EXE or VHD

To download the Unitrends Backup EXE or VHD:

- 1 Go to <https://www.unitrends.com/download/enterprise-backup-software>, complete the form under Try Unitrends Backup, and click **Download Now**.



The screenshot shows the 'Unitrends Backup Software Free Trial' registration page. It features a form with the following elements: a title 'Unitrends Backup Software Free Trial', a subtitle 'Try Unitrends Backup Software Free For 30 Days', an 'Email*' field containing 'd.burgett@unitrends.com', an 'Industry*' dropdown menu with 'Business Services' selected, an 'Enter details' button, and a red 'Download Now' button. Two numbered callouts are present: '1' points to the 'Enter details' button, and '2' points to the 'Download Now' button.

- 2 Select **Microsoft Hyper-V**. Click to download the EXE or VHD as described here:

- For EXE, download the file directly to the server on which you will deploy the appliance.
- For VHD, do one of the following:

Note: The VHD file is 5,977.2 MB. Be sure to download to a location that has at least 5,977.2 MB of available space.

- If you are deploying on Windows Server (non-core), download the VHD and place it in a location that can be accessed by Hyper-V Manager on the Windows server.

You can download directly to the Windows server or download to a different machine. If you download to a different machine, copy the VHD to a network location or to the Windows server itself by using a CD, DVD, or USB drive.

- If you are deploying on Windows Server Core or Hyper-V Server, download the VHD to an alternate machine on the same network, then copy the VHD to the Hyper-V server. Example VHD target directory on the Hyper-V server: `C:\HyperV\VHDs`.

The screenshot shows the 'Unitrends Backup Software Free Trial' download page. At the top, it says 'Here's Your Download' and lists supported hypervisors: VMware vSphere, Microsoft Hyper-V, Citrix XenServer, and Nutanix AHV. A blue box with a red border and a red line points to the 'Microsoft Hyper-V' link, labeled with a red circle containing the number 1. Below this, the text 'Download and Deploy on Hyper-V' is followed by a paragraph about the 30-day trial. A red box with a red border and a red line points to the 'Download EXE Now' button, labeled with a red circle containing the number 2. To the right of the main text, a screenshot of a Windows file explorer window titled 'Opening Unitrends-Backup-HyperV-Installer.exe' is shown. A red box with a red border and a red line points to the 'Save File' button in the window, labeled with a red circle containing the number 3. The window text indicates the file is 'Unitrends-Backup-HyperV-Installer.exe' (2.1 GB) from 'http://hyperv-ueb.unitrends.com'.

Step 3: Deploy the CentOS 7 Unitrends Backup VM

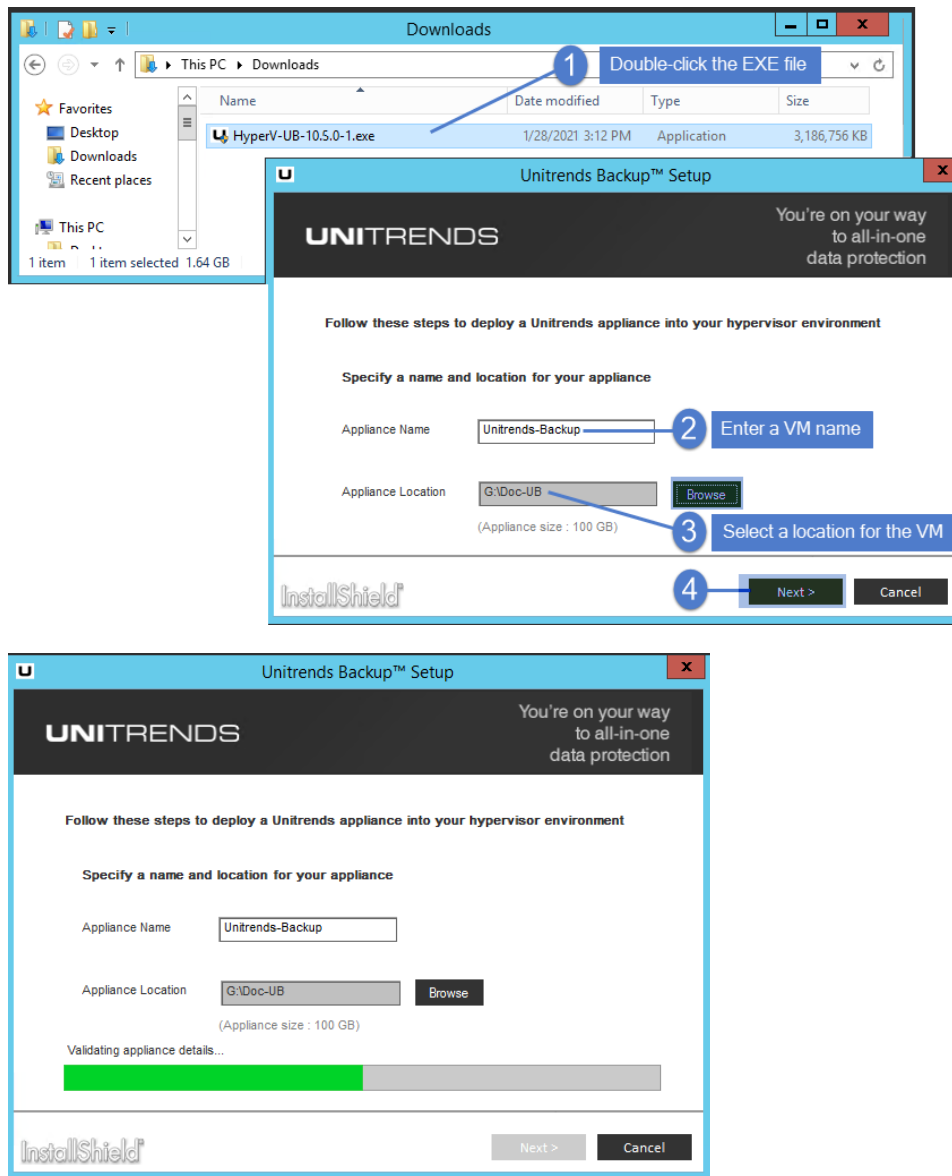
Use one of the following procedures to deploy the CentOS 7 VM:

- "Deploying with EXE"
- "Deploying with VHD" on page 27

Deploying with EXE

To deploy using the EXE installer:

- 1 On the Hyper-V server where you downloaded the EXE file, double-click **HyperV-UB-version.exe**. It runs automatically.
- 2 On the first installer screen, enter the following:
 - Appliance Name — Enter a display name for the Unitrends Backup VM. The name can contain only alphanumeric characters, dashes, and underscores. This is the name that will display for the VM in your hypervisor.
 - Appliance Location — Browse to select a location for the Unitrends Backup VM on the Hyper-V server. If needed, you can create a new folder for the VM.
- 3 Click **Next**.



- 4 In the Connection drop-down, select a virtual switch for the Unitrends Backup VM to use on the host. Enter the IP address, Netmask, Gateway, and Primary DNS of the CentOS 6 appliance.
- 5 Click **Next**.

Unitrends Backup™ Setup

You're on your way to all-in-one data protection

Specify appliance networking details

Connection: Intel(R) 82574L Gigabit Network Connection - Virtual Swit

IP Address: 192.168.1.76

Netmask: 255.255.255.0

Gateway: 192.168.1.1

Primary DNS: 192.168.1.10 (optional)

< Previous Next > Cancel

Unitrends Backup™ Setup

You're on your way to all-in-one data protection

Specify appliance networking details

Connection: Intel(R) 82574L Gigabit Network Connection - Virtual Swit

IP Address: 192.168.1.76

Netmask: 255.255.255.0

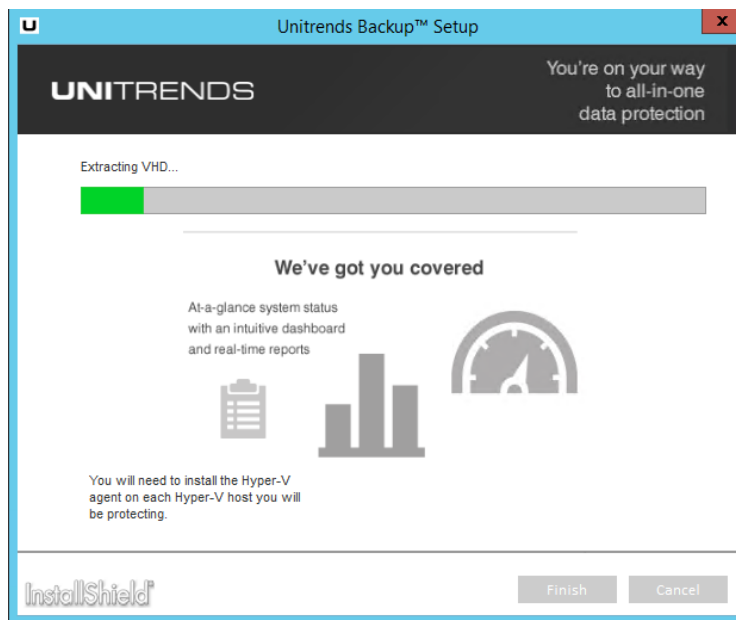
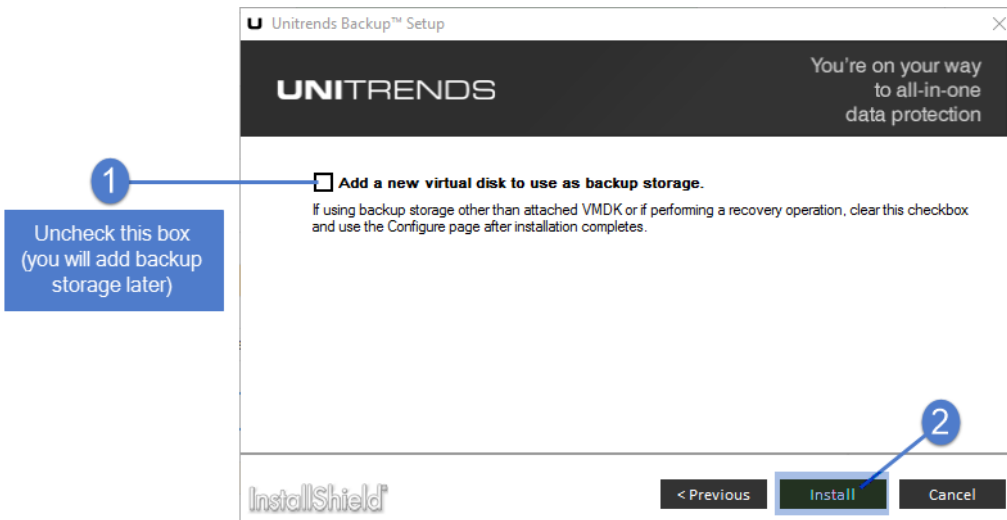
Gateway: 192.168.1.1

Primary DNS: 192.168.1.10 (optional)

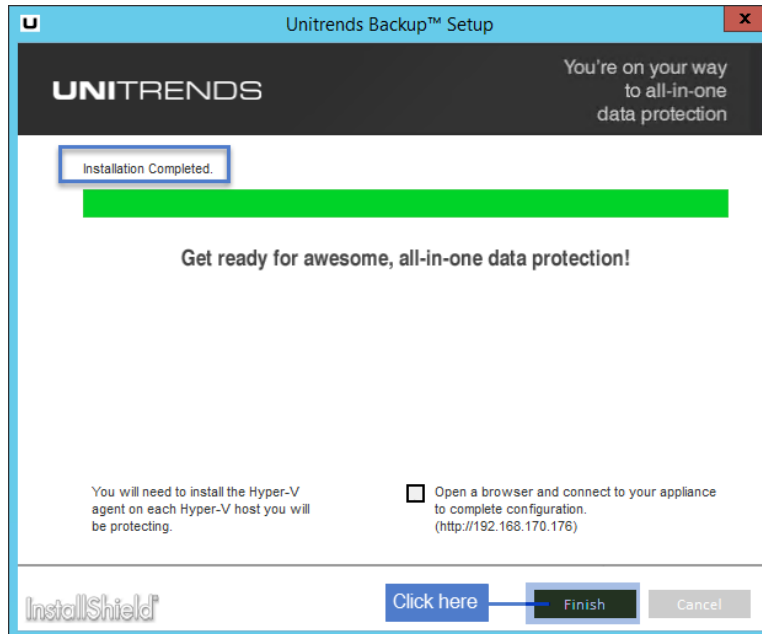
Validating network details...

< Previous Next > Cancel

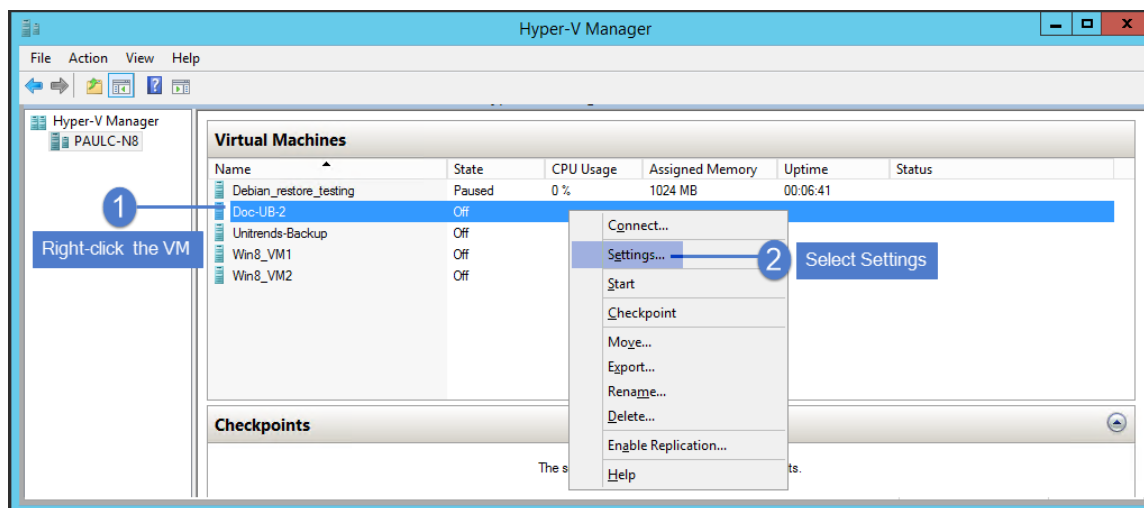
- 6 Clear the **Add a virtual disk to use as backup storage** box. (You will add backup storage from the CentOS 6 VM later).
- 7 Click **Install**. This creates the Unitrends Backup VM on the Hyper-V server using the settings you defined in the previous steps.

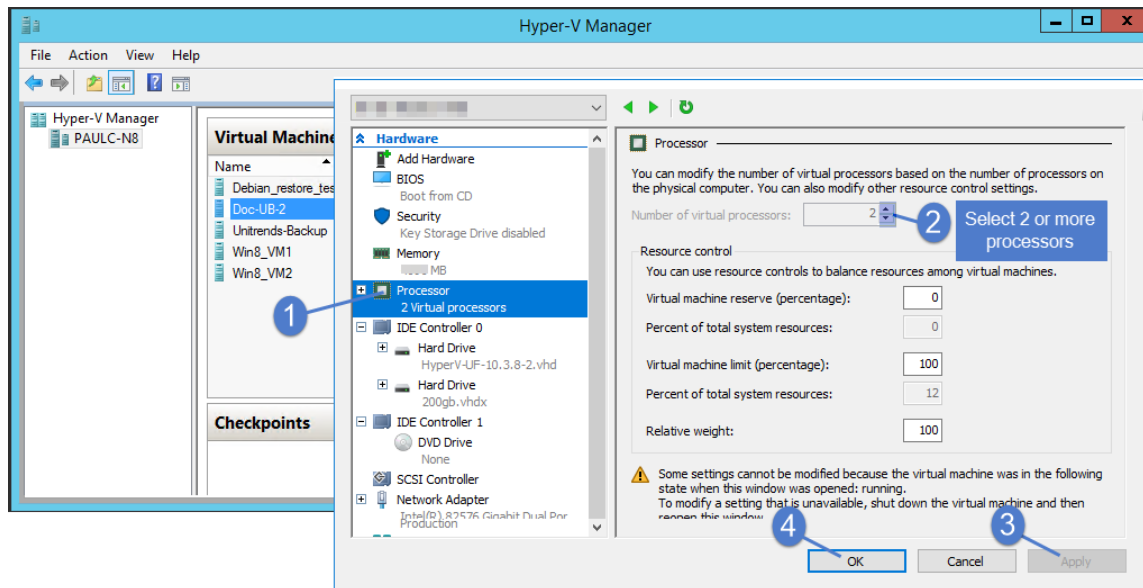


- 8 Once installation completes, click **Finish**.

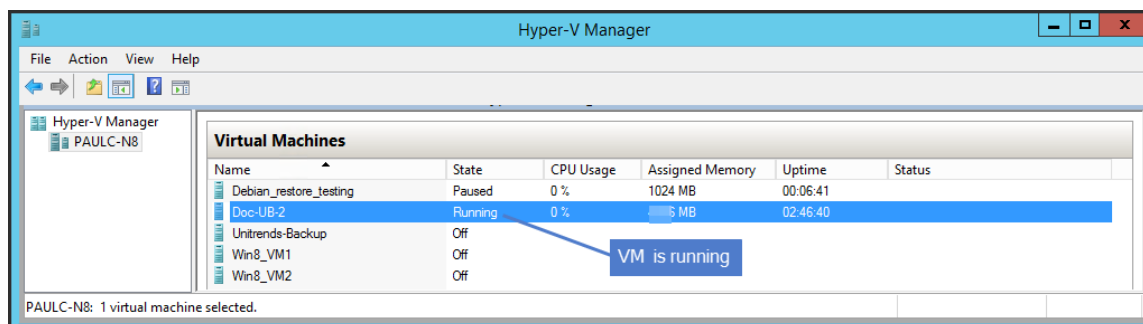
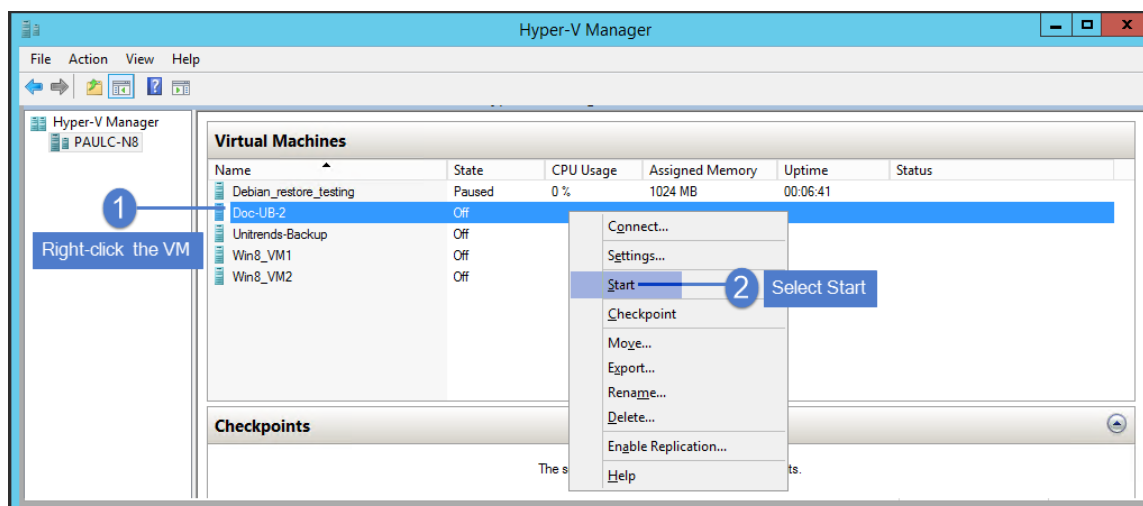


- 9 Log in to the Windows server and launch Hyper-V Manager.
- 10 Right-click the CentOS 7 VM and select **Settings**. Edit the memory and CPU settings to meet or exceed those of the CentOS 6 appliance. Click **Apply**, then **OK**.





11 Right-click the VM and select **Start**.



12 Proceed to "Step 4: Attach backup storage" on page 38.

Deploying with VHD

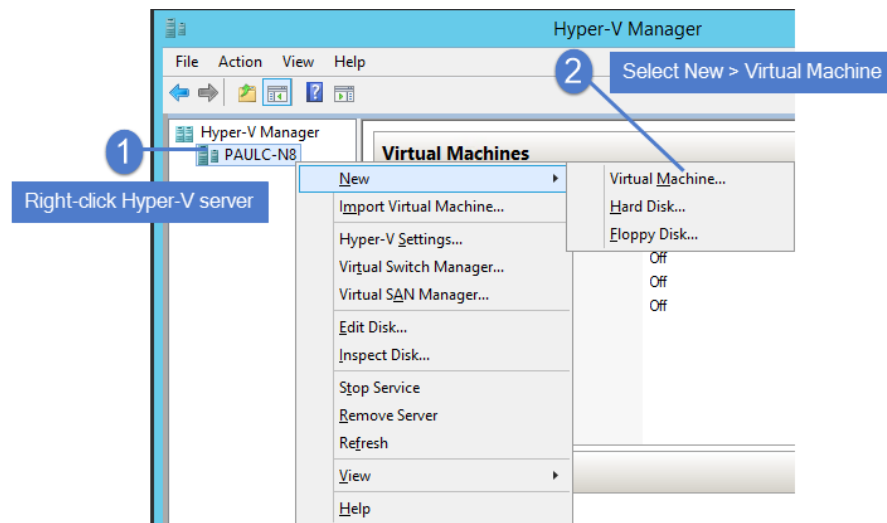
Deployment procedures vary by server operating system. For detailed steps, see one of the following procedures:

- "Deploy the VHD to Windows Server Hyper-V"
- "Deploy the VHD to Windows Server Core Hyper-V or Hyper-V Server" on page 32

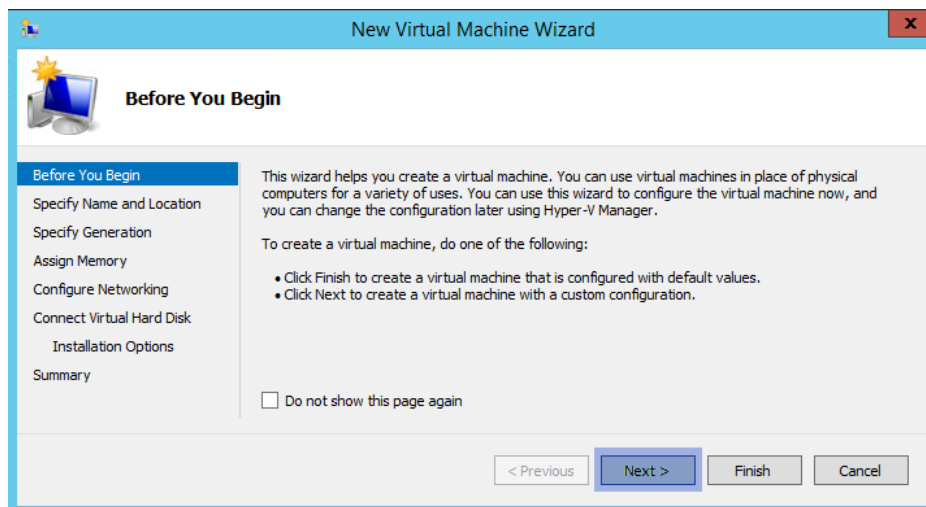
Deploy the VHD to Windows Server Hyper-V

Use these steps to deploy the VHD to Windows Server Hyper-V:

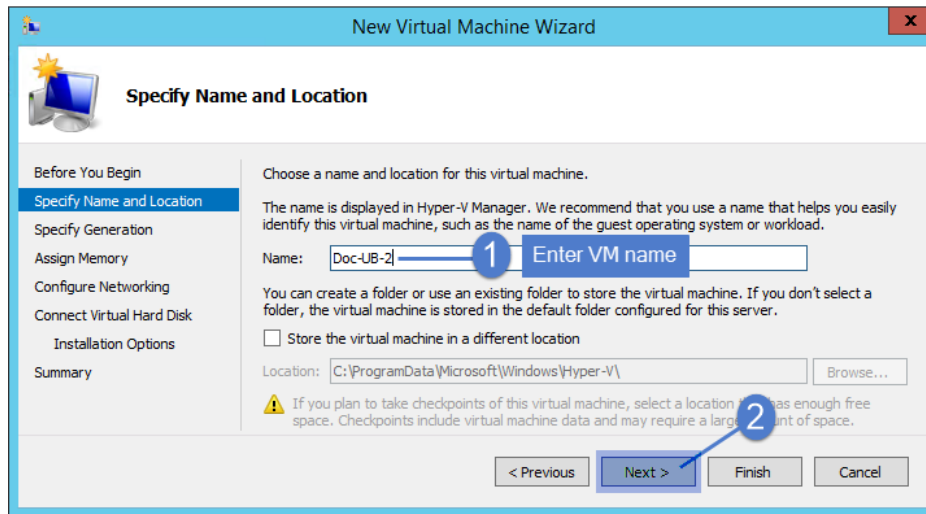
- 1 Log in to the Windows server and launch Hyper-V Manager.
- 2 Right-click the Hyper-V server and select **New > Virtual Machine**.



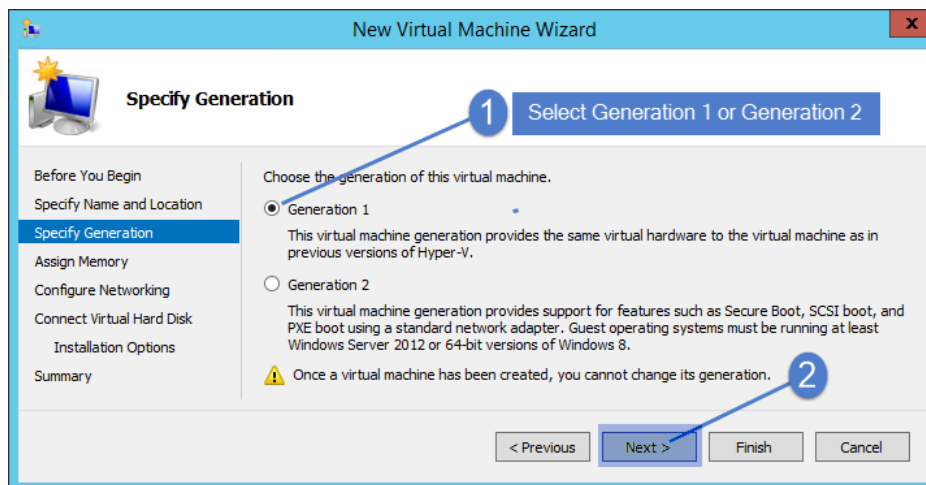
- 3 Click **Next**.



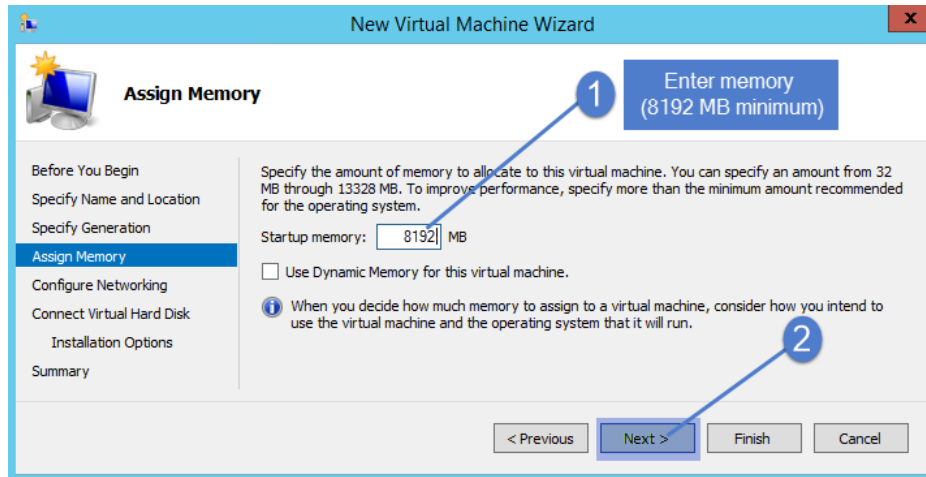
- 4 Enter a **Name** for the Unitrends Backup VM. Click **Next**.



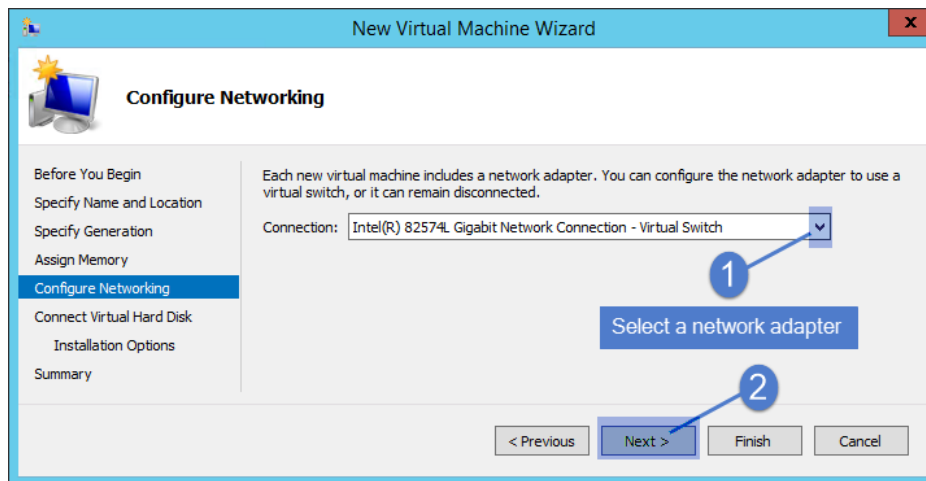
- 5 Select Generation 1 or Generation 2 to specify the virtual hardware generation of the Unitrends Backup VHD disk. Click **Next**.



- 6 Assign **Startup memory** (minimum required is 8192 MB or the memory assigned to the CentOS 6 VM, whichever is greater). Click **Next**.

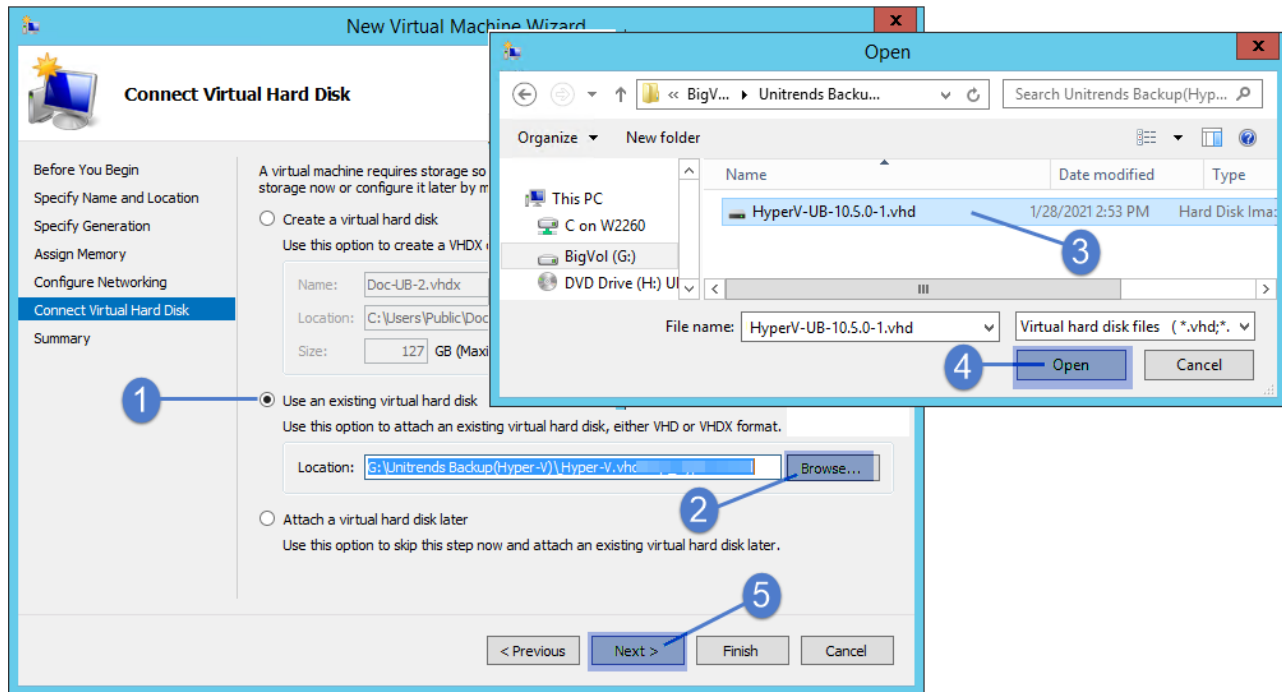


- 7 Select a network adapter from the **Connection** list. Click **Next**.

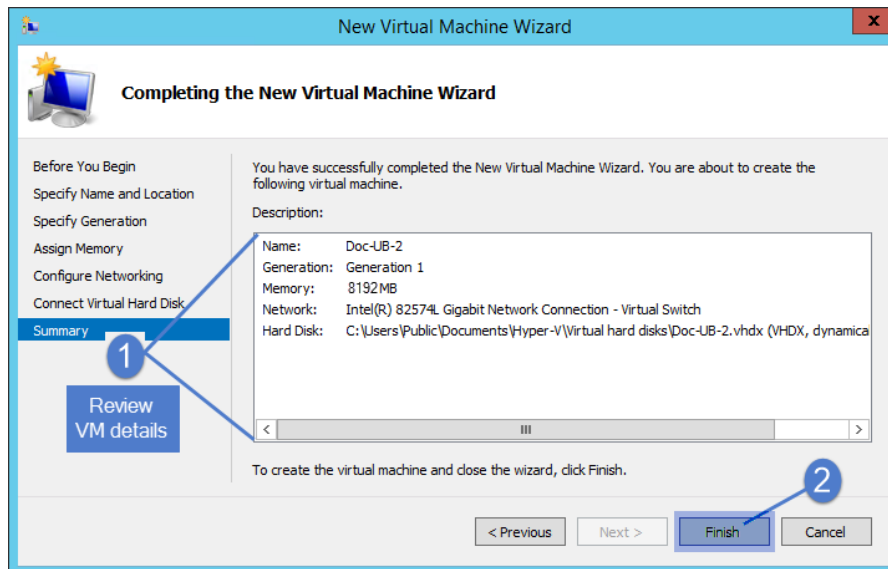


- 8 Connect the Unitrends Backup VHD:

- Select **Use an existing virtual hard disk**.
- **Browse** to the folder where you copied the VHD and select the VHD file (*HyperV-UB-release.vhd*).
- Click **Next**.

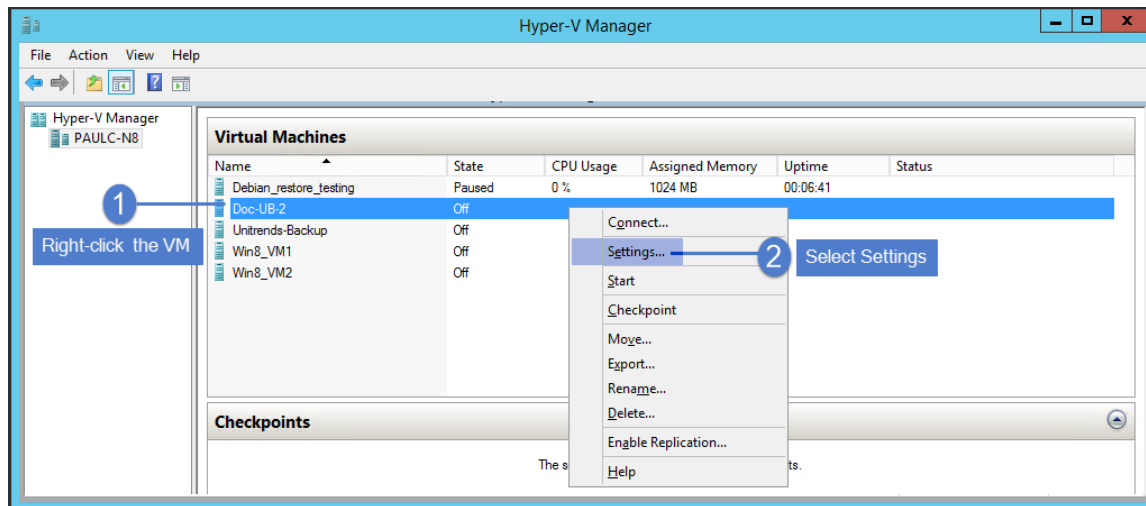


- 9 Review VM details. Click **Finish**. (Or click **Previous** to modify VM settings).

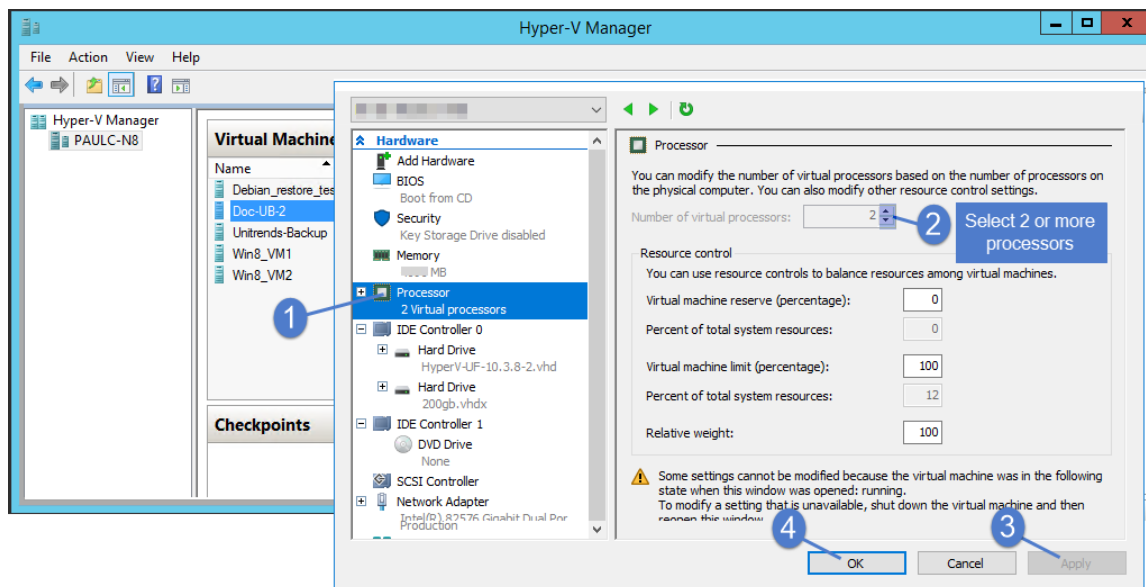


The VM is created and displays in Hyper-V Manager.

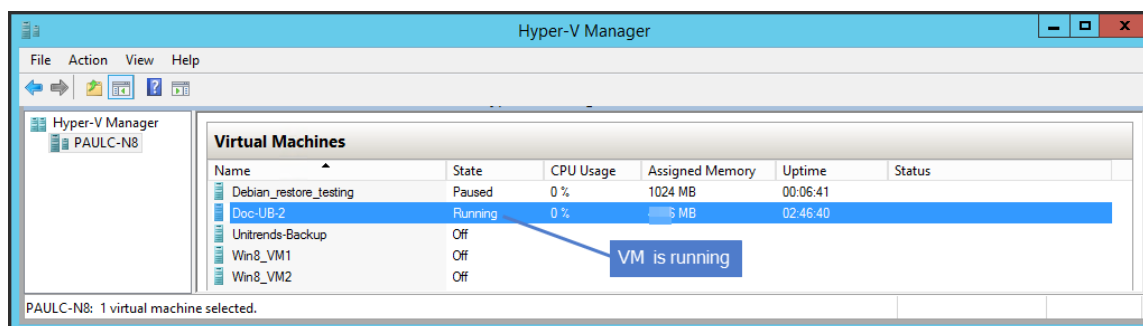
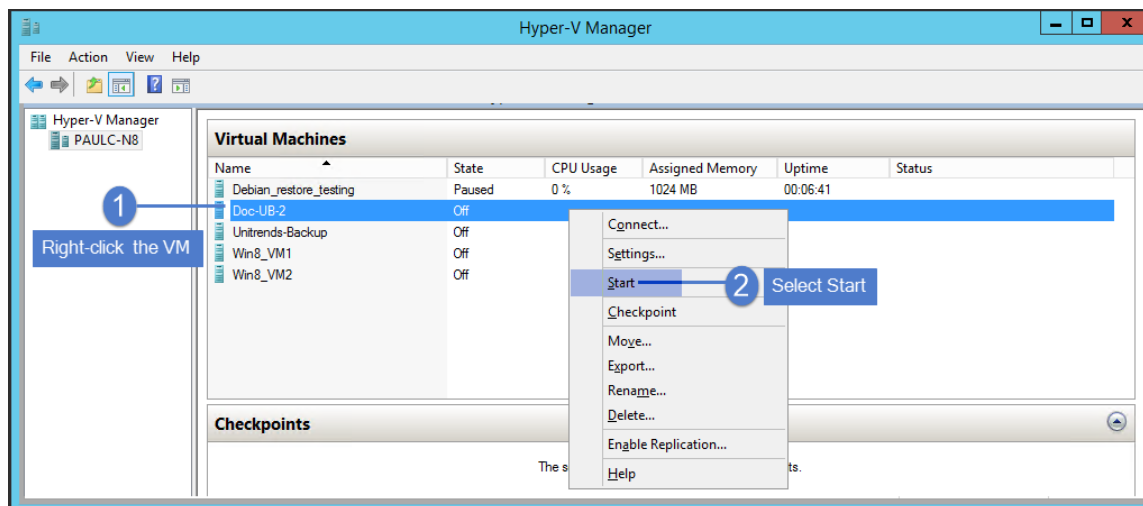
- 10 Right-click the VM and select **Settings**.



- 11 Set the number of virtual processors that will be assigned to the VM. (Minimum required is 2 or the number assigned to the CentOS 6 VM, whichever is greater.) Click **Apply**, then **OK**:



- 12 Right-click the VM and select **Start**.



13 Proceed to "Configure network settings " on page 33.

Deploy the VHD to Windows Server Core Hyper-V or Hyper-V Server

Use these steps to deploy the VHD to Windows Server Core Hyper-V or Hyper-V Server:

- 1 Log in to the host server.
- 2 Launch PowerShell:

```
# Powershell
```

- 3 Enter the following command:

```
# New-VM -Name "Unitrends Backup" -Path "full_path_to_storage_location"
-MemoryStartupBytes 8GB -VHDPATH "full_path_to_vhd_location"
```

Where:

- *Unitrends Backup* is the name of the Unitrends Backup VM that will be created from the VHD.
- *full_path_to_storage_location* is the full path to the *HyperV-UB-release.vhd* that you downloaded from Unitrends.

Note: The VHD that you downloaded from Unitrends is used as both the storage location and the VHD location.

- 8GB is the amount of RAM assigned to the VM. Assign 8GB or the amount used by your CentOS 6 VM, whichever is greater.
- `full_path_to_vhd_location` is the full path to the `Hyperv-UB-release.vhd` that you downloaded from Unitrends.

Example where the VHD resides in `C:\HyperV\VHDs`:

```
# New-VM -Name "Unitrends Backup" -Path "C:\HyperV\VHDs" -MemoryStartupBytes 8GB  
-VHDPath "C:\HyperV\VHDs"
```

- 4 Set the number of virtual processors by entering this command, where 2 is the number of processors that will be assigned to the VM. Assign 2 virtual processors or the amount used by your CentOS 6 VM, whichever is greater:

```
# SET-VMProcessor -VMName "Unitrends Backup" -Count 2
```

- 5 Assign a virtual switch to the Unitrends Backup VM by issuing these commands:

- (Optional) Enter this command to list the virtual switches on the Hyper-V server:

```
# GET-VMSwitch
```

- Enter this command to assign a virtual switch to the VM, where `name_of_vswitch` is the name of the virtual switch:

```
# GET-VMSwitch -VMName "Unitrends Backup" | GET-VMNetworkAdapter | Connect-  
VMNetworkAdapter -Switchname "name_of_vswitch"
```

Example where `Production` is the switch name:

```
# GET-VMSwitch -VMName "Unitrends Backup" | GET-VMNetworkAdapter | Connect-  
VMNetworkAdapter -Switchname "Production"
```

- 6 Enter this command to list the VMs on the server:

```
# GET-VM
```

The Unitrends Backup VM displays in the list in a powered off state.

- 7 Enter this command to start the Unitrends Backup VM:

```
# Start-VM "Unitrends Backup"
```

- 8 Proceed to "Configure network settings".

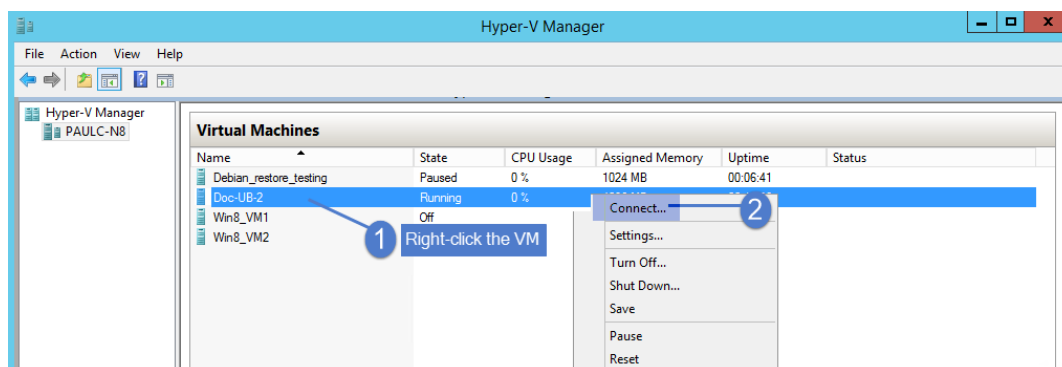
Configure network settings

IMPORTANT! Be sure to enter settings that match those of the original CentOS 6 appliance.

- 1 Connect to the Unitrends Backup VM by using one of the following methods:

- Hyper-V Manager – From Hyper-V Manager, right-click the Unitrends Backup VM and select **Connect**.

Note: The Unitrends Backup VM must be powered on. If necessary, right-click the VM and select **Start**.



- Command line – Navigate to `C:\Program Files\Hyper-V\` and enter this command, where *hyper_v_server* is the name of the Hyper-V server and *virtual_machine_name* is the name of the Unitrends Backup VM:

```
# vmconnect.exe hyper_v_server "virtual_machine_name"
```

Example where the Hyper-V server is *HVHOST* and the VM is *Unitrends Backup*:

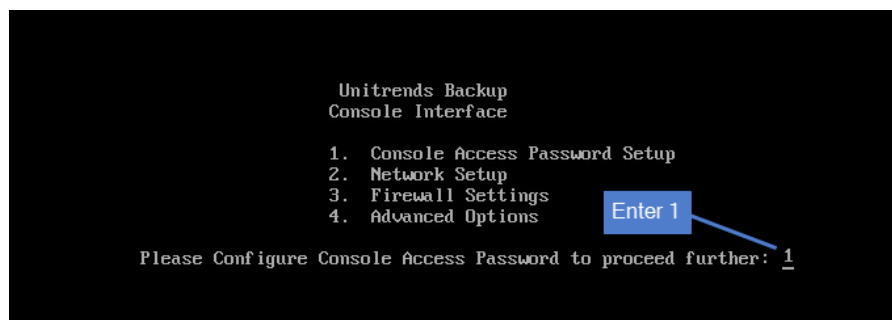
```
# vmconnect.exe HVHOST "Unitrends Backup"
```

The remaining steps are run from the Unitrends Backup Console Interface. On these screens, you select a menu option by entering a number in the **Please enter choice** field.

Notes:

- As you complete each step in the Unitrends Backup Console Interface, you are presented with the next configuration screen.
- You can press **Enter** to accept the default or current setting.

- On the Console Interface screen, enter **1** in the **Please Configure Console Access Password...** field.



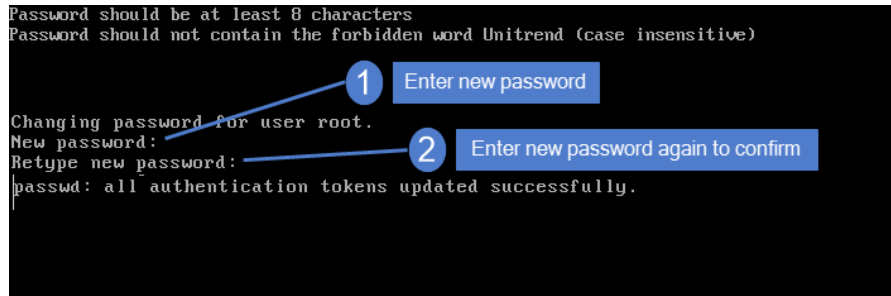
- To change the direct console password, enter a new password, then enter the password again to confirm.

Notes:

- This is the root operating system password that accesses the console. This password does not access the UI. (You will change the UI password in "[Step 5: Set up the CentOS 7 appliance using the Quick Setup Wizard](#)" on page 41.)
- All appliances are deployed with these default operating systems credentials: user *root*, password *unitrends1*. For appliance security, you must change this password.

```
Password should be at least 8 characters
Password should not contain the forbidden word Unitrend (case insensitive)

Changing password for user root.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
```



The screenshot shows a terminal window with a password prompt. A blue callout box with the number '1' points to the 'New password:' prompt, with the text 'Enter new password'. Another blue callout box with the number '2' points to the 'Retype new password:' prompt, with the text 'Enter new password again to confirm'.

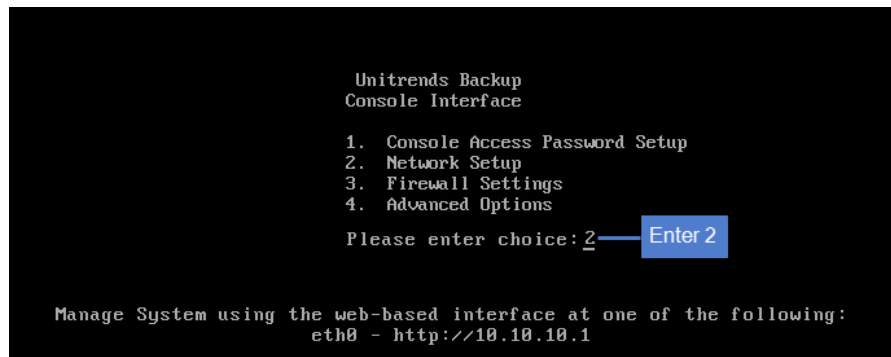
- 4 On the Console Interface screen, enter 2.

```
Unitrends Backup
Console Interface

1. Console Access Password Setup
2. Network Setup
3. Firewall Settings
4. Advanced Options

Please enter choice: 2
Enter 2

Manage System using the web-based interface at one of the following:
eth0 - http://10.10.10.1
```



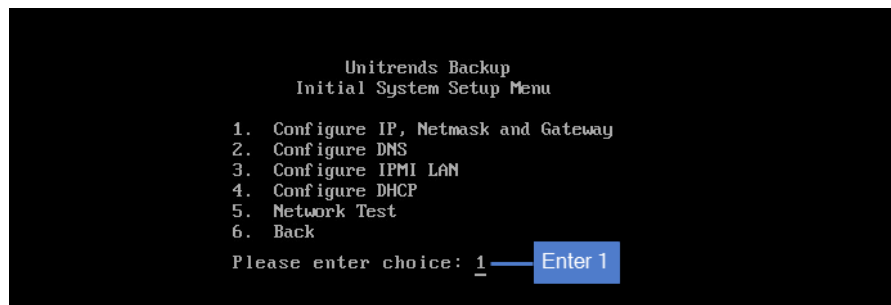
The screenshot shows the 'Unitrends Backup Console Interface' menu. A blue callout box with the text 'Enter 2' points to the '2' in the 'Please enter choice:' prompt.

- 5 On the Initial System Setup Menu screen, enter 1 in the Please enter choice field.

```
Unitrends Backup
Initial System Setup Menu

1. Configure IP, Netmask and Gateway
2. Configure DNS
3. Configure IPMI LAN
4. Configure DHCP
5. Network Test
6. Back

Please enter choice: 1
Enter 1
```



The screenshot shows the 'Unitrends Backup Initial System Setup Menu'. A blue callout box with the text 'Enter 1' points to the '1' in the 'Please enter choice:' prompt.

- 6 Enter a number in the **Select a network adapter** field. For example, enter 0 to select *eth0*.

```
0. eth0
Select a network adapter: 0
```

Enter a number to select an adapter. If your appliance has multiple adapters, each are listed. In this example, the appliance has one adapter (eth0).

- 7 Enter **Y** in the **Edit network configuration** field. Then enter the **IP address**, **Netmask**, and **Gateway** of the CentOS 6 appliance. Review the settings and enter **Y** to save.

```
Network Adapter:      eth0
Current IP address:   10.10.10.1
Current Netmask:      "255.255.255.0"
Current Gateway:      n/a
Edit network configuration? [n/Y]: Y
```

Enter Y

```
Current IP address: 10.10.10.1
Enter new System IP Address: 192.168.1.10
```

Enter an IP address for the Unitrends appliance

```
Current Netmask: "255.255.255.0"
Enter new System Netmask:
```

Enter new netmask or press Enter to accept the default

```
Current Gateway: n/a
Enter new Network Gateway: 192.168.1.1
```

Enter gateway IP address

```
Adapter:              eth0
Current IP address:   10.10.10.1
Current Netmask:      "255.255.255.0"
Current Gateway:      n/a
New IP address:        192.168.1.10
New Netmask:          "255.255.255.0"
New Gateway:          192.168.1.1
Commit network configuration changes? [n/Y]: Y
```

Enter Y to save settings (or N to modify settings)

- 8 To configure DNS settings, enter **2**, then enter **Y** to edit. Enter the **Primary DNS** IP address, a **Secondary DNS** IP (optional), and a **DNS Domain**. Review the settings and enter **Y** to save.

```
Unitrends Backup
Initial System Setup Menu

1. Configure IP, Netmask and Gateway
2. Configure DNS
3. Configure IPMI LAN
4. Configure DHCP
5. Network Test
6. Back

Please enter choice: 2 — Enter 2
```

```
Current Primary DNS: n/a
Current Secondary DNS: n/a
Current DNS Domain: hyperv-ub
Edit DNS configuration? [n/Y]: Y — Enter Y
```

```
Current Primary DNS: n/a
Enter new Primary DNS: 192.168.1.108 — Enter IP of primary DNS server
```

```
Current Secondary DNS: n/a
Enter new Secondary DNS: 192.168.1.108 — (Optional) Enter IP of
(Leave blank if no secondary DNS desired) secondary DNS server
```

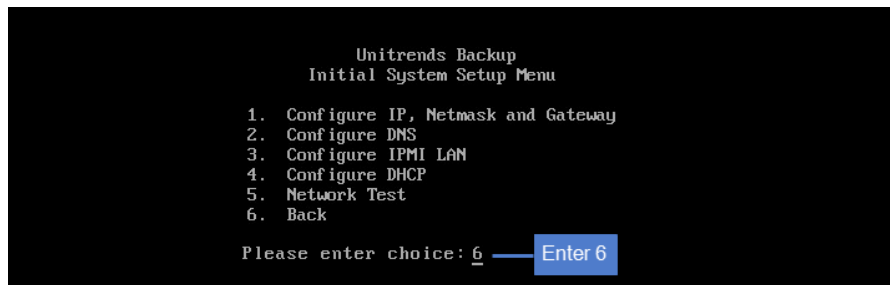
```
Current DNS Domain: hyperv-ub
Enter new DNS Search Domain: unitrends.com — Enter domain
```

```
Current Primary DNS: n/a
Current Secondary DNS: n/a
Current DNS Domain: hyperv-ub

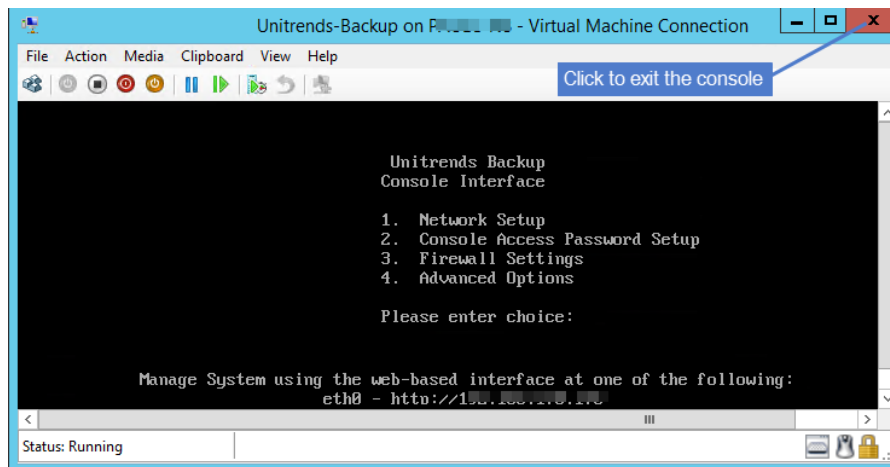
New Primary DNS: 192.168.1.108
New Secondary DNS: 192.168.1.108
New DNS Domain: unitrends.com

Commit DNS configuration changes? [n/Y]: Y — Enter Y to save settings
(or N to modify settings)
```

9 To exit network setup, enter 6.



- 10 Exit the VM console.



- 11 Proceed to "Step 4: Attach backup storage".

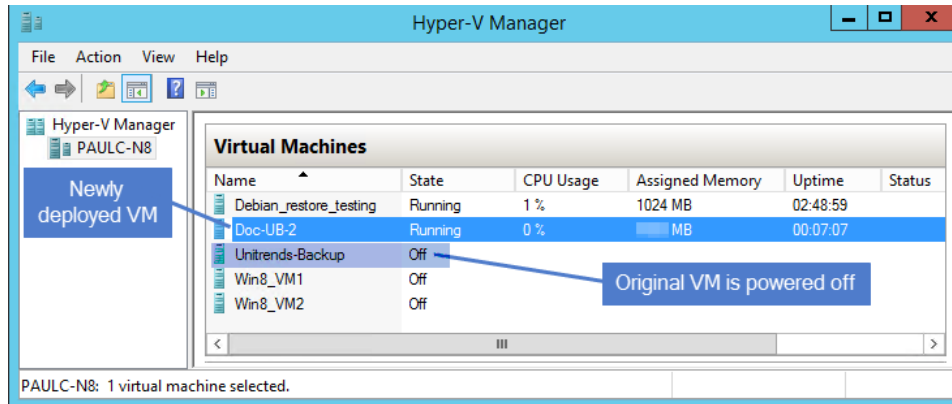
Step 4: Attach backup storage

In this step you will attach the storage that contains backups from the CentOS 6 Unitrends Backup appliance.

IMPORTANT! Be sure to attach the VHD(X) disk that was used as the initial backup storage first (before adding any other VHD(X) disks). The appliance automatically uses the first VHD(X) disk you attach as the initial backup storage. Adding the wrong VHD(X) disk first will yield undesirable results. The appliance then recognizes all other attached disks and can access all existing backup data.

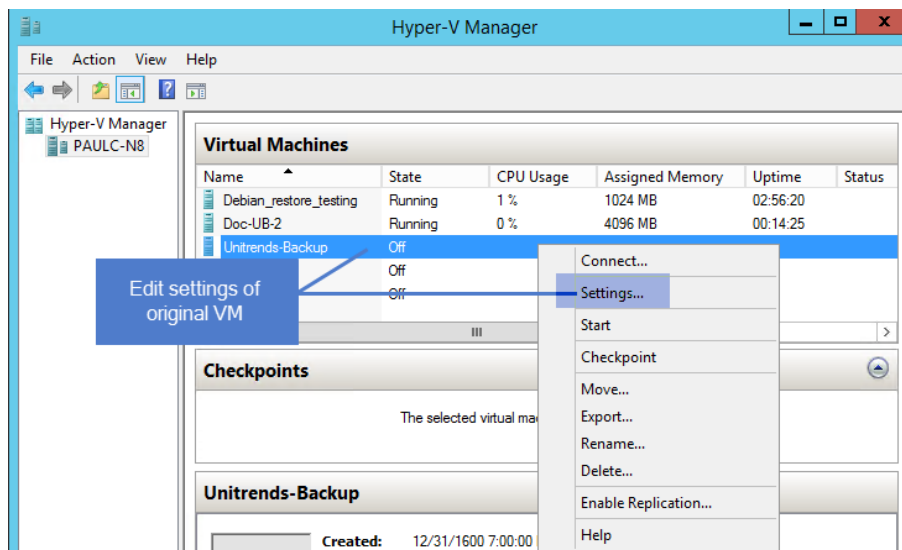
To add a VHD(X) that contains backups from another Unitrends Backup appliance:

- 1 Access your Hyper-V server using Hyper-V Manager.
- 2 Power off the original Unitrends Backup VM.



3 Identify the disk(s) that you want to add to the newly deployed VM by doing these steps:

- Right-click the original VM and select **Settings**.

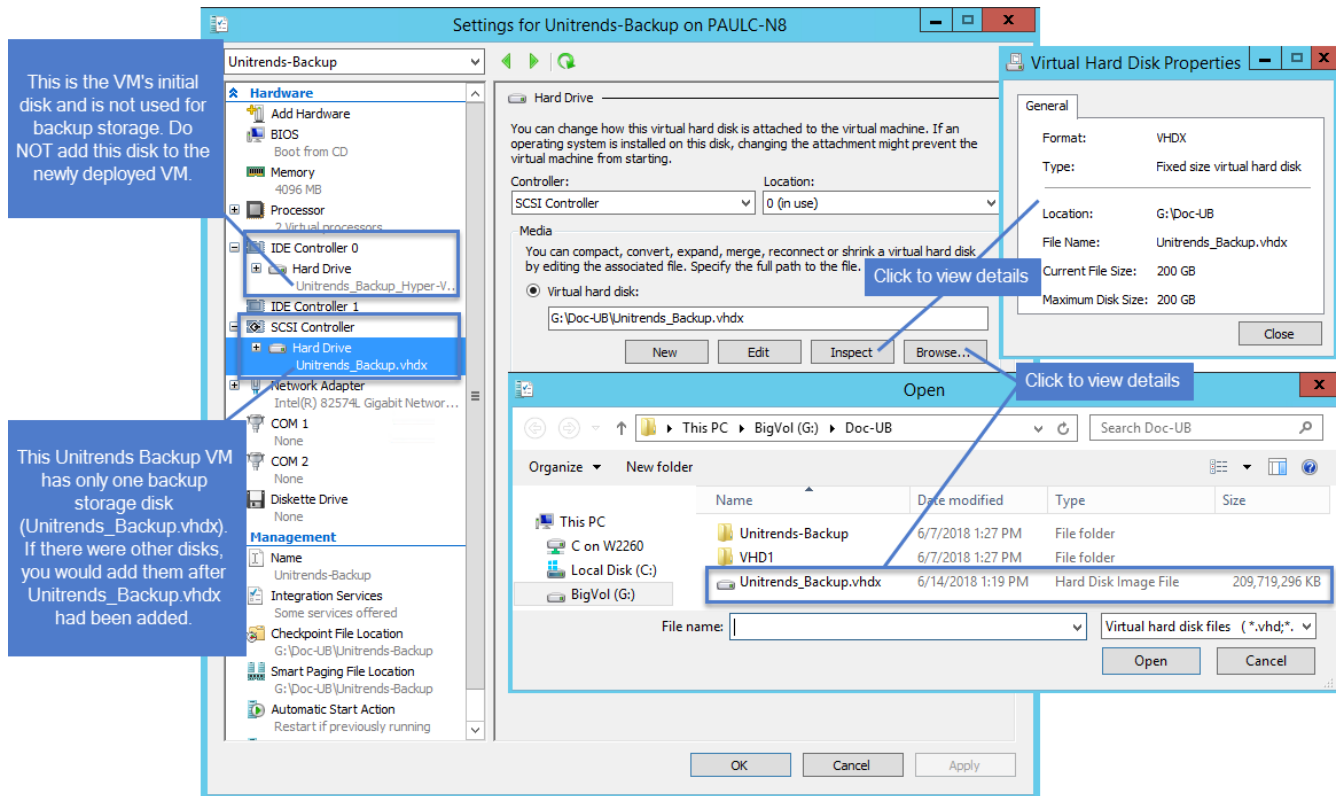


- Select each hard drive to view details. Note the name and location of the disks you will add to the newly deployed VM.

Notes:

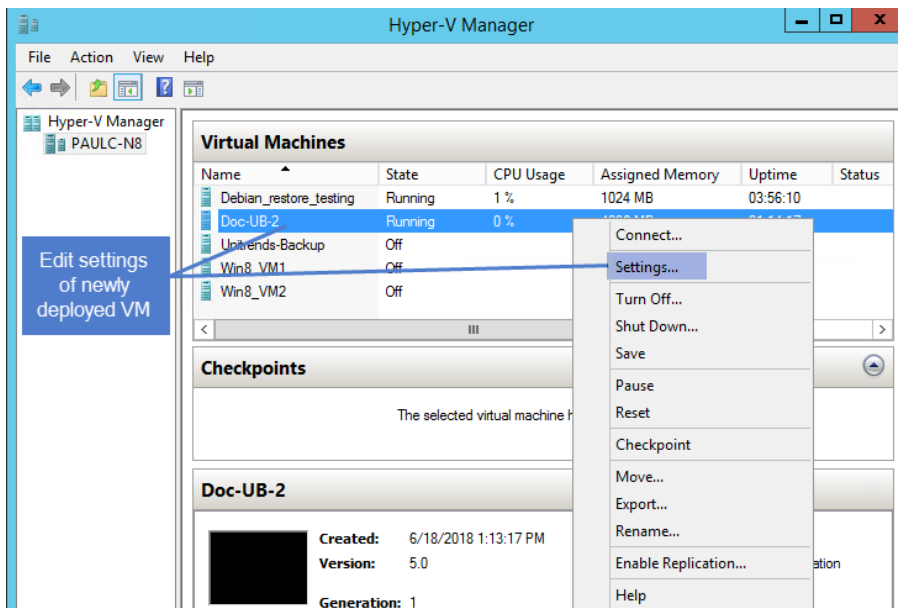
- You must add all backup storage disks from the original VM.
- Do not add the Hard Drive created under IDE Controller 0. This disk was created during VM deployment and is NOT used to store backups.
- You must add the first backup storage disk created under SCSI Controller before you add any other backup storage disks.

In our example, the VM has only one backup storage disk:

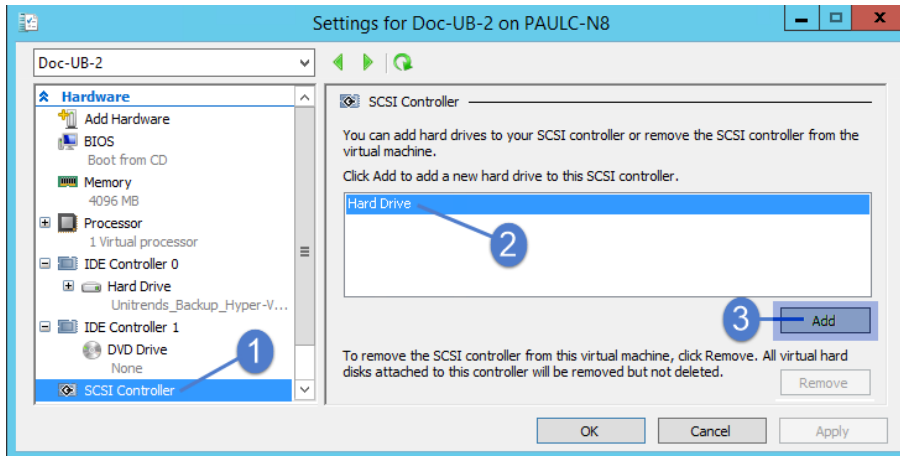


4 Add the disk(s) to the newly deployed VM by doing these steps:

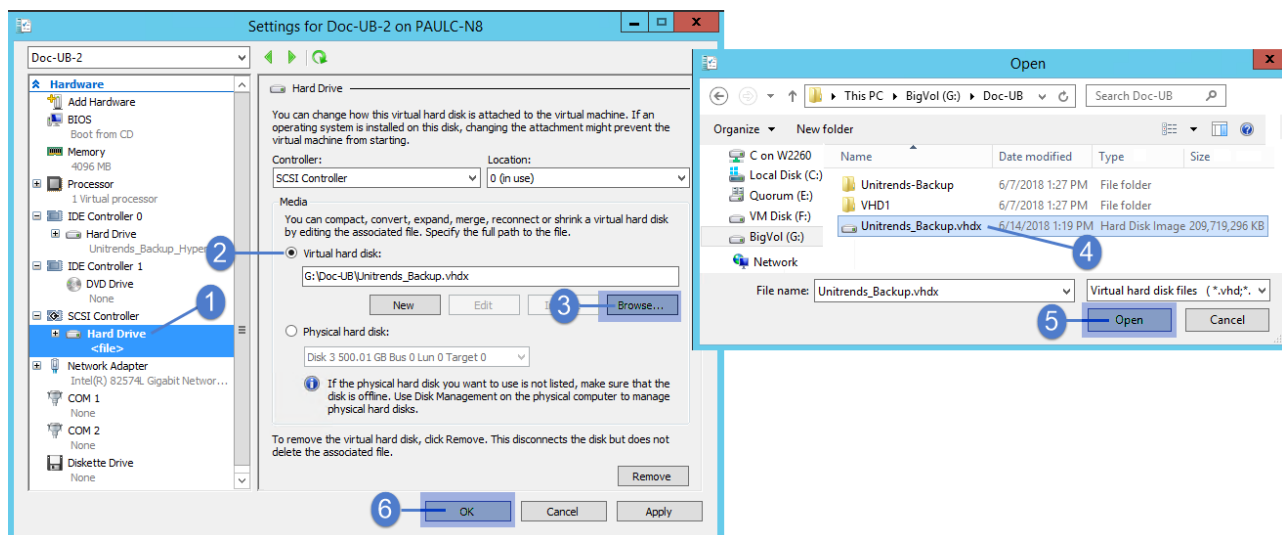
- Right-click the newly deployed VM and select **Settings**.



- Select **SCSI Controller**, click **Hard Drive**, then **Add**.



- Select **Hard Disk** and **Virtual hard disk**.
- Click **Browse**. Browse to the original VM's first backup storage disk and click **Open**.
- Click **OK** to add the disk.

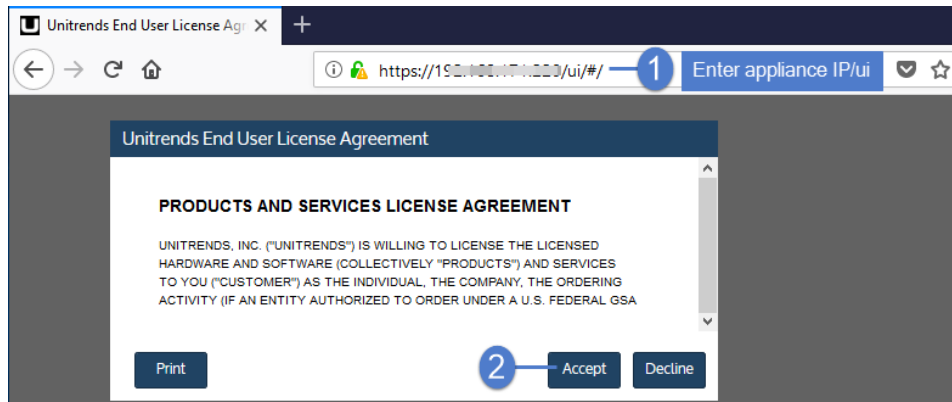


- 5 (If needed) If the original VM has multiple backup storage disks, repeat [step 4](#) to add those disks.
- 6 After attaching all backup storage disks, proceed to "[Step 5: Set up the CentOS 7 appliance using the Quick Setup Wizard](#)".

Step 5: Set up the CentOS 7 appliance using the Quick Setup Wizard

Use this procedure to set up the appliance:

- 1 Open a browser and connect to your appliance by entering: ***https://<applianceIP>/ui***. For example: ***https://10.10.10.1/ui***.
- 2 Click **Accept** to accept the license agreement.



- 3 Set the appliance date and time by doing one of the following, then click **Next**:
 - Select a **Timezone**. If needed, modify the appliance **Date** and **Time**.OR
 - Check the **Use an NTP Server** box to sync to an NTP server. (Optional) Enter your preferred NTP server address.

- 4 Enter a **Host Name**, a **Domain**, and a new **UI Password** for the appliance. If needed, enter a new **OS Password**. Confirm the passwords by entering them again in the fields to the right. Click **Next**.

Notes:

- The hostname can contain only alphanumeric characters, dashes, and underscores.
- The appliance has a UI root user and an OS root user. These are separate accounts. Changing the password of one root user account does NOT change the password of the other root user account. The UI root user is used to log in to the appliance UI. The OS root user is used to log in to the appliance console or for command line access.
- If you have already set the OS password, these fields are disabled in the Quick Setup Wizard.
- Passwords cannot contain the word *Unitrend* (case insensitive).
- The OS password must contain 8 or more characters.
- All appliances are deployed with these default UI and OS credentials: user *root*, password *unitrends1*. For appliance security, you must change these passwords in the Quick Setup Wizard.

UNITRENDS

Progress: Date & Time | **Host Name & Password** | Email

1 Enter hostname, domain (optional) and appliance UI and OS passwords

Host Name: ?

Domain: ?

UI Password: ? 2 Confirm UI password

OS Password: ? 3 Confirm OS password

Previous Next 4

- 5 To enable email from the appliance, check **Enable email reporting** and enter the following:
- The fully qualified domain name of the **SMTP server**.
 - (If needed) If the SMTP server requires authentication, select **Authentication required** and enter a **Username** and **Password**.
 - Click **+ Add Recipients** to add an email recipient. Enter an email address in the **Recipient** field and select one or more of the **System**, **Jobs**, and **Failures** options to specify which reports the appliance will send to the recipient. Repeat as needed to add more recipients.
- 6 Click **Finish**.

UNITRENDS

Date & Time | Host Name & Password | **Email**

1 ☒ Enable email reporting

SMTP Server: unitrends.com 2 Enter the FQDN of the SMTP server

☐ Authentication Required

Username: 3 If the SMTP server uses authentication, check the box and enter credentials

Password:

Confirm Password:

Recipients	System	Jobs	Failures
jalvarez@unitrends.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
djones@unitrends.com	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

4 + Add Recipients Click to add an email recipient

5 For each recipient, enter an email address and select reports to send

6 Previous Finish

7 Click **Recover** to add the migrated backups to the appliance:

Configure Storage

The selected storage contains an existing filesystem. If it contains Unitrends backup data, you can attempt to recover it. Otherwise, you can erase the data or cancel and select different storage.

Recover Erase Data Cancel

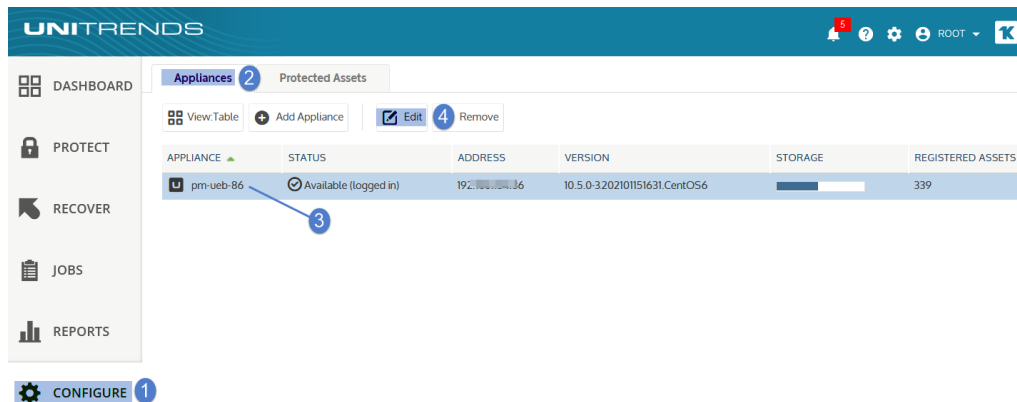
Recovering Storage...

Step 6: (If needed) Configure encryption with the CentOS 6 passphrase

If backups were being encrypted on the CentOS 6 appliance, you must configure encryption with the passphrase that was used by the CentOS 6 appliance. If you do not use the original passphrase, any encrypted backups that were migrated cannot be recovered.

Use this procedure to configure encryption:

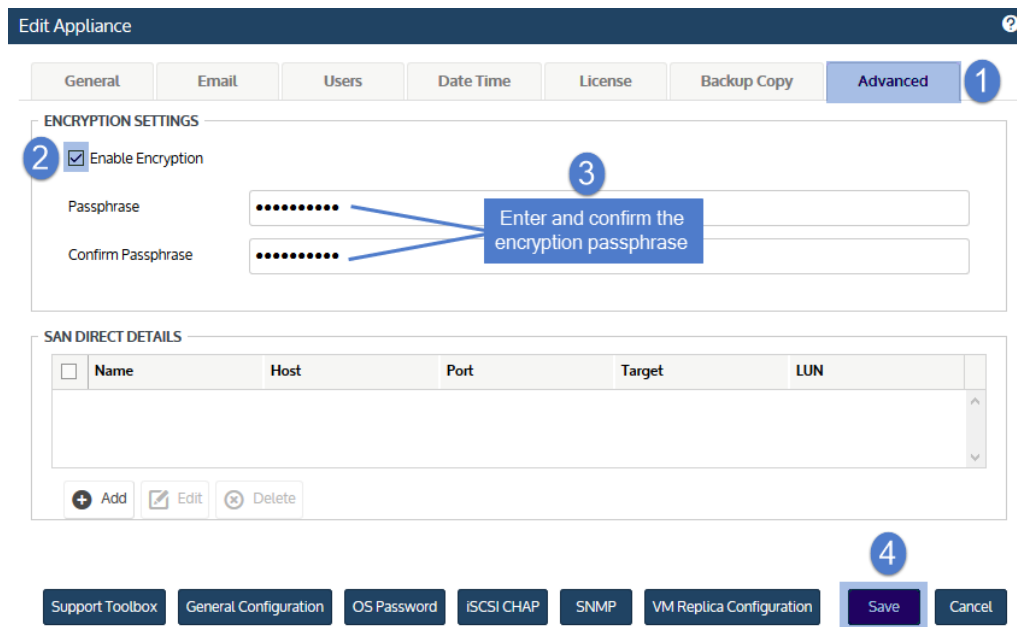
- 1 On the **Configure > Appliances** page, select the appliance and click **Edit**.



- 2 Select the **Advanced** tab.
- 3 Check **Enable Encryption**.
- 4 Enter the passphrase used by the CentOS 6 appliance in the **Passphrase** and **Confirm Passphrase** fields.

IMPORTANT! Be sure to keep the passphrase secure. If you forget the passphrase there is no way to recover it.

- 5 Click **Save**.



- 6 Return to the Edit Appliance dialog.
- 7 Select the **Advanced** tab and click **Save Master Key File**.
- 8 (Optional) If your appliance has a CD drive, you can save the key file directly to a CD. Insert a CD into your appliance's CD drive. (If no CD is inserted, the key file is saved to the appliance's samba share.)

9 Click **Continue**.

10 You receive a message indicating the master key file was saved to the appliance's samba share or to CD. Click **OK**.**Notice**

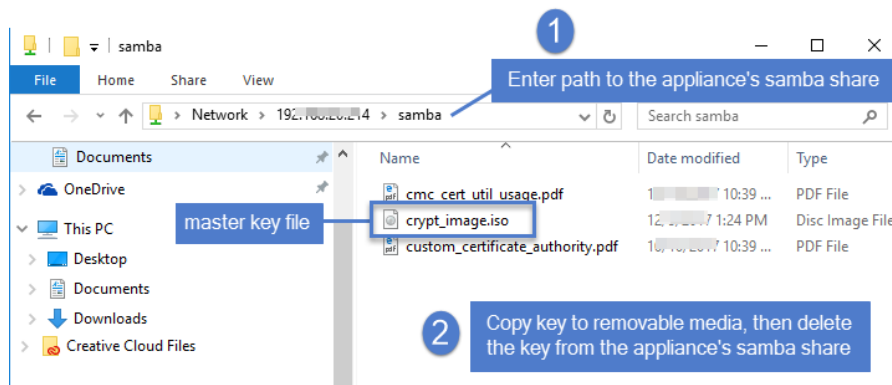
Master key file was saved to the samba share as `crypt_image.iso`. Please delete this when you have copied it to media.

OK

IMPORTANT! Be sure to keep the master key file secure. If you ever need to perform disaster recovery of the appliance, you will need this key to access any encrypted backups.

11 If you saved the key to the appliance's samba share, do these steps:

- Log in to a Windows workstation as an administrator with full system access.
- Launch File Explorer and enter the following path to access the master key file on the Unitrends appliance:
`\\ApplianceIP\samba`
- Copy the master key file, called `crypt_image.iso`, to removable media and store it in a safe location.
- Once you have copied the key to removable media, delete `crypt_image.iso` from `\\ApplianceIP\samba` for increased security.



Step 7: (If needed) Add data copy access profiles

Data copy access profiles are not migrated from the CentOS 6 appliance. If you were using the copy data management feature, you need to recreate your data copy access profiles. For details, see [Copy Data Management](#) in the [Administrator Guide for Recovery Series, Recovery MAX, ION/ION+, and Unitrends Backup](#).

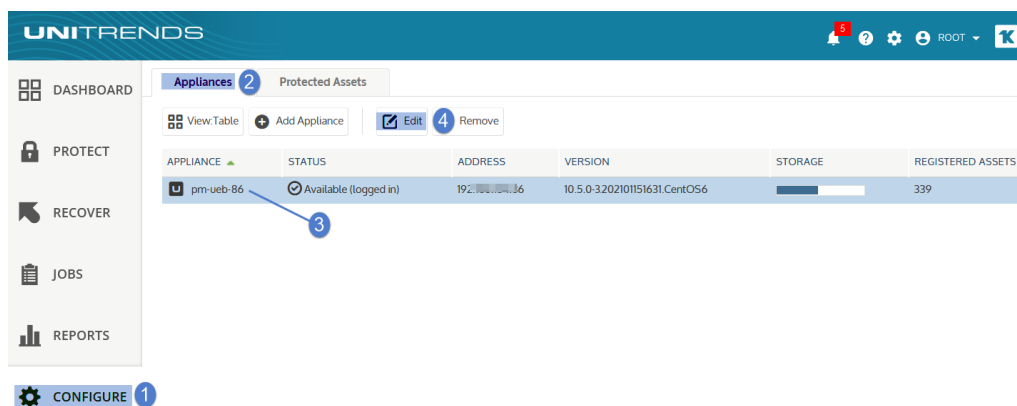
Step 8: Register and license the CentOS 7 appliance

You must register and license the appliance within 30 days of deploying Unitrends Backup.

Each appliance requires an activation code and license key. Use the procedures below to register and license the appliance:

To register a Unitrends Backup appliance

- 1 On the **Configure > Appliances** page, select the appliance and click **Edit**.



- 2 Select the **License** tab and click **Update**. The Registration Center displays.

Edit Appliance

General Email Users Date Time **License** Backup Copy Advanced

LICENSE DETAILS

Asset Tag 038239cd-f421-42a9-8246-1d8e00a82157

License

Install Date

Expires

Feature Description

Feature String

License Key

Update Resources Add License Info

Save Cancel

- 3 Select I need to activate my purchase:

UNITRENDS

Unitrends Enterprise Backup™ Registration Center.

YOUR CURRENT ASSET TAG: 038239cd-f421-42a9-8246-1d8e00a82157

YOUR CURRENT LICENSE: NO LICENSE

How Can We Help You Today?

I have a promo code

Register my asset

Click here I need to activate my purchase

I would like a quote

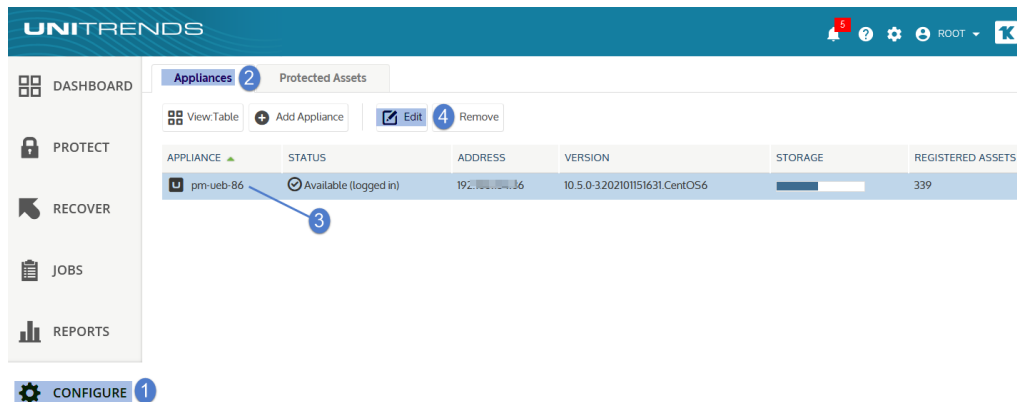
- 4 Complete and submit the applicable form.

Unitrends sends an email containing license details. Use the next procedure to apply this license information to the appliance.

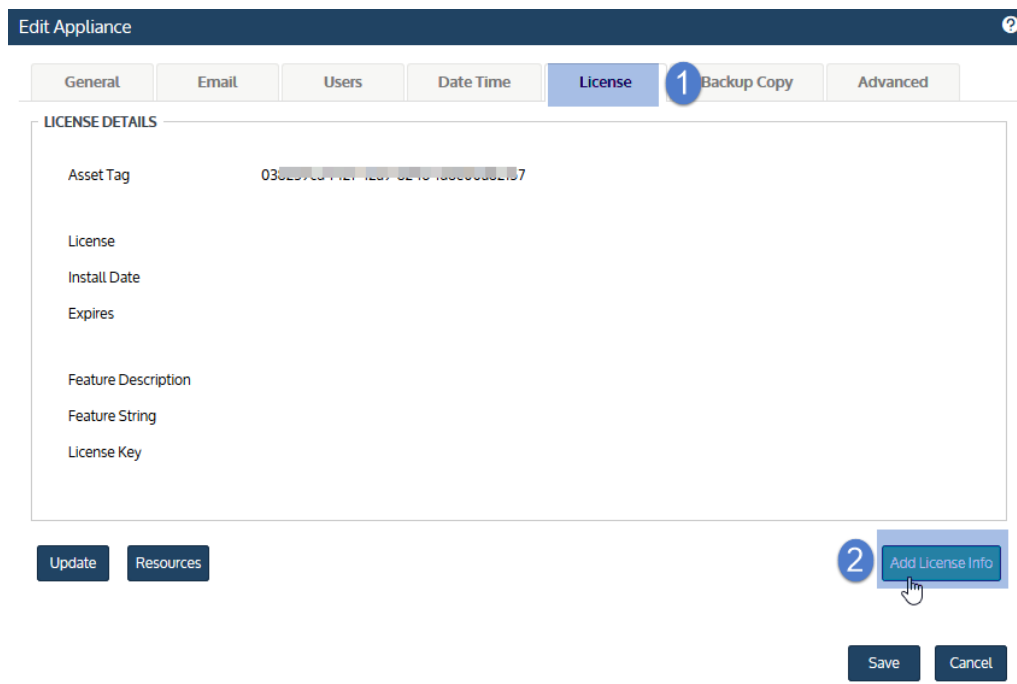
To license a Unitrends Backup appliance

Use these steps to enter license information you have received from Unitrends.

- 1 On the **Configure > Appliances** page, select the appliance and click **Edit**.



- 2 Select the **License** tab and click **Add License Info**.



- 3 Enter the **License Key**, **Expiration Date**, and **Feature String**.
- 4 Click **Save**. The license is applied.

Edit Appliance

General

Email

Users

Date Time

License

Backup Copy

Advanced

LICENSE DETAILS

Asset Tag

03813000-1620-4207-8246-10800002157

License

Install Date

Expires

Feature Description

Feature String

License Key

License Key

f2a37793d677f00b77cd0306c07003a0a50a

Expiration Date

01/31/2019

Clear Date

Feature String

ENTRB,MUX=10,VC=INF,RC=INF,D2D=INF,ENC,ADX

1

Enter license key,
expiration date, and
feature string

2

Save

Cancel

Edit Appliance

General

Email

Users

Date Time

License

Backup Copy

Advanced

LICENSE DETAILS

Asset Tag

03813000-1620-4207-8246-10800002157

License

Enterprise Edition

Install Date

Thu Nov 3 16:27:42 2016

Expires

01/31/2019

Feature Description

Unlimited Replication or Backups, Encryption, Archiving

Feature String

ENTRB,MUX=10,VC=INF,RC=INF,D2D=INF,ENC,ADX

License Key

f2a37793d677f00b77cd0306c07003a0a50a

License is applied
and details display

Upgrade

Resources

Add License Info

Save

Cancel

Chapter 3: Migration Procedures

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