UNITRENDS

CentOS 6 to CentOS 7 Migration Guide for VMware

Release 10.6 | Document Version 1.02082022

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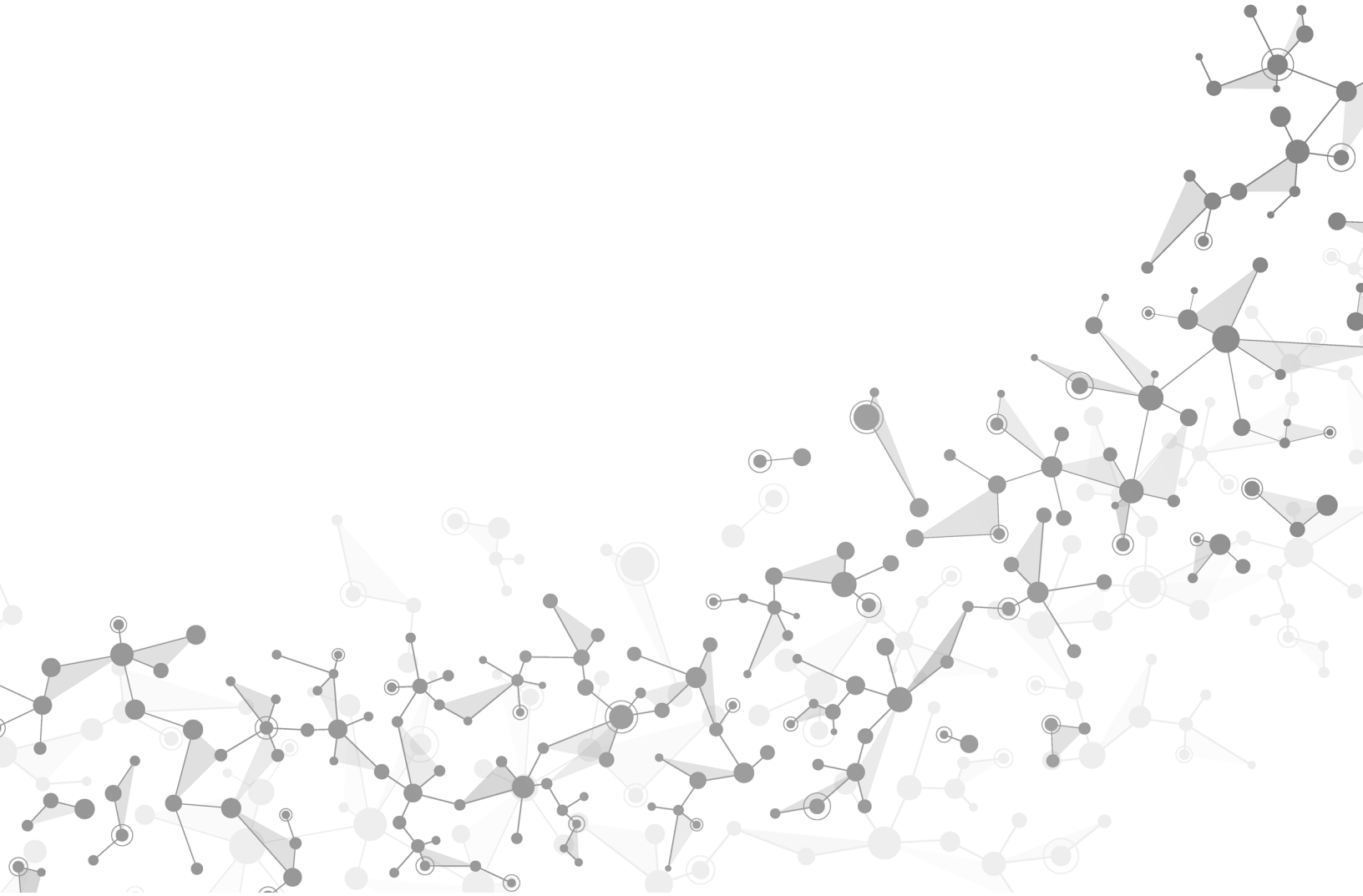


Chapter 1: Introduction

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. ESXi version 5.5 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 ESXi 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: Deploy the CentOS 7 Unitrends Backup VM"– Download the CentOS 7 OVA file from https://www.unitrends.com/download/enterprise-backup-software and deploy it on your ESXi server (**File > Deploy OVF Template**). Ensure that the memory and CPU settings match or exceed those of the CentOS 6 VM.
- "Step 3: 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 4: Configure network settings"– Access the VM console and configure these settings to match those of the CentOS 6 VM: Console Access Password, Network Settings, and DNS Settings.
- "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**.

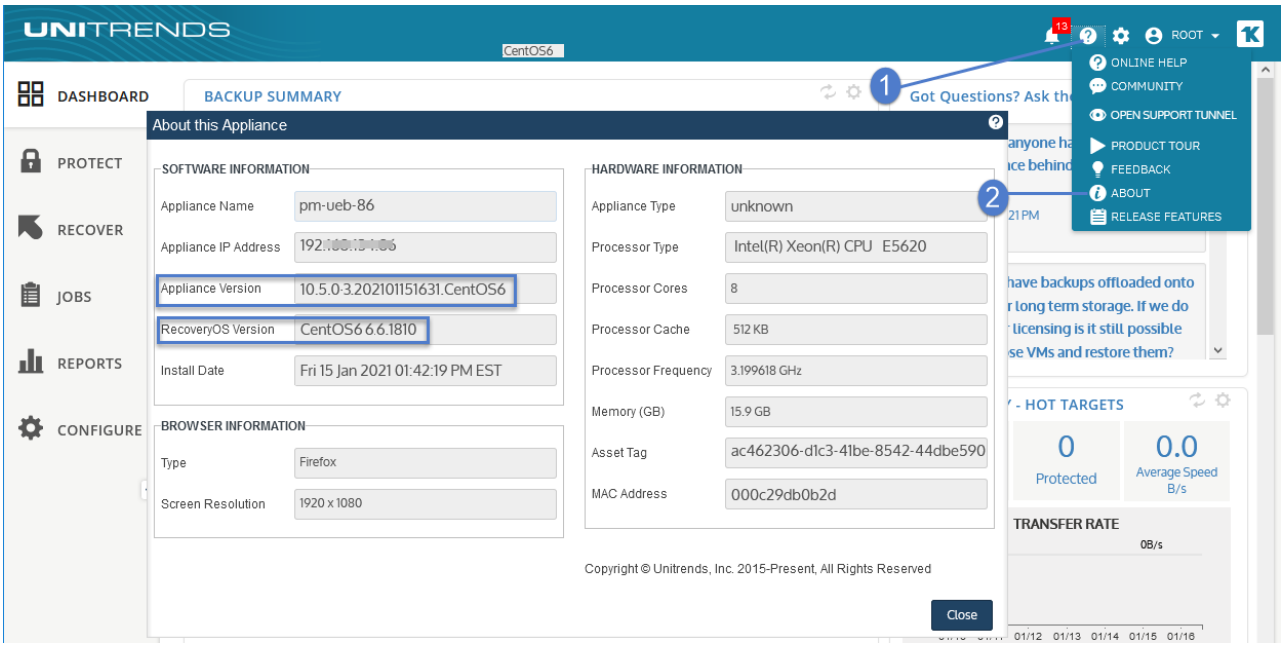
Chapter 2: Migration Requirements

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

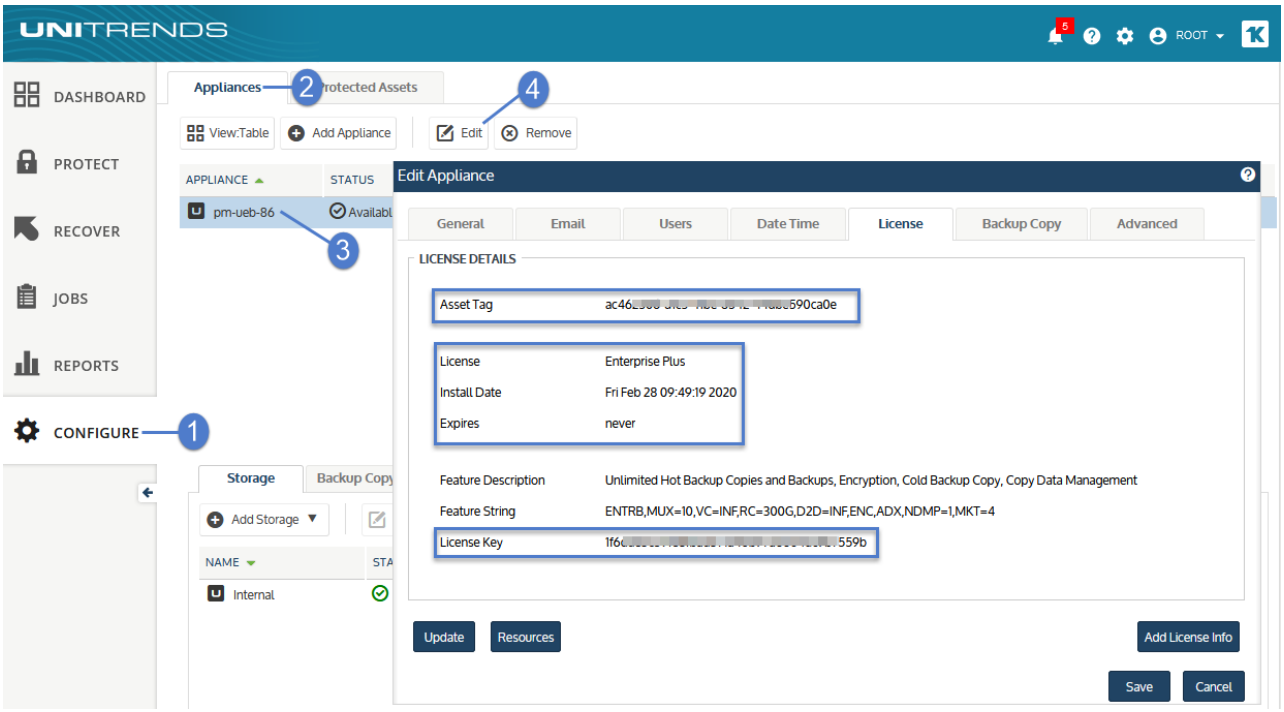
Requirements for CentOS 6 Unitrends Backup virtual appliance

Your CentOS 6 Unitrends Backup appliance must meet these prerequisites:

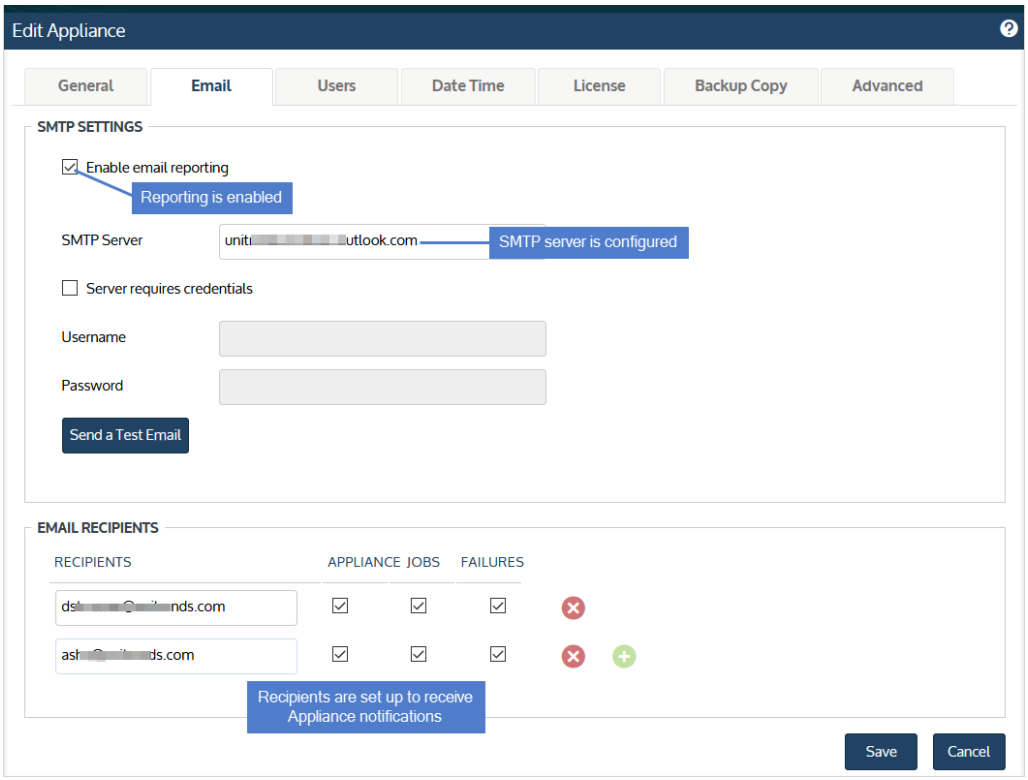
- Snapshot consolidation – Use your ESXi server to consolidate any snapshots on the CentOS 6 VM.
- Manager appliances – The CentOS 6 appliance must not be managing another appliance. Migration is not supported for manager appliances.
- Appliance version and platform – The appliance is running release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



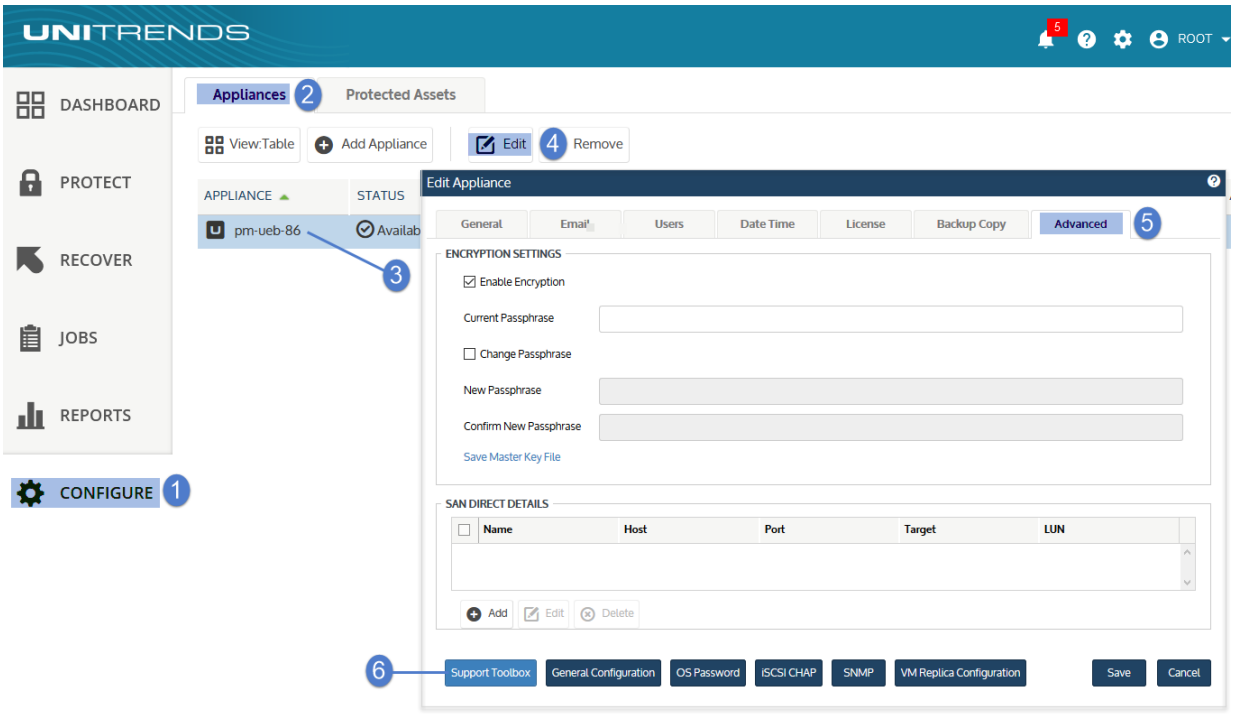
- License and asset tag – The appliance has a valid license, support contract, and asset tag (**Configure > Appliance > Edit Appliance > License**):



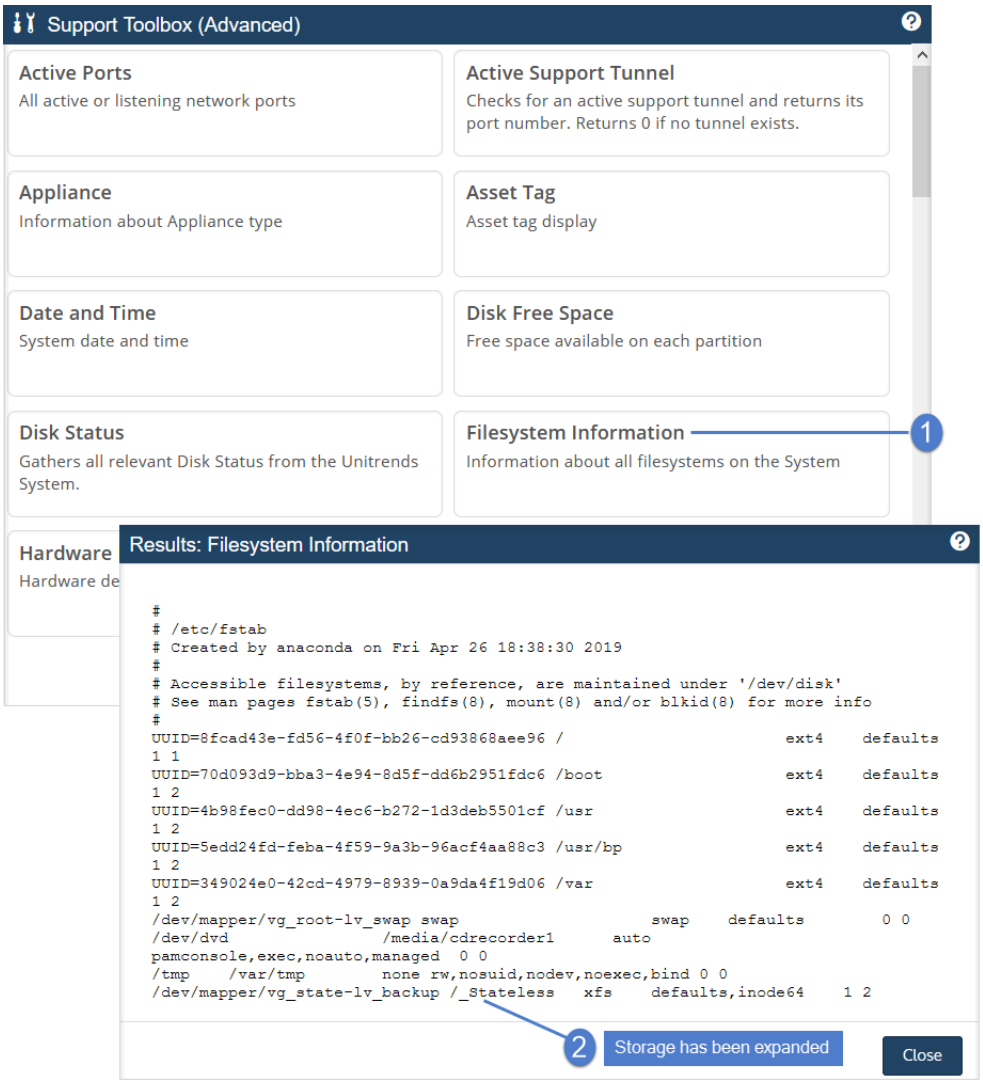
- Internet access – The appliance has access to the Internet.
- Email – Email is configured on the appliance so you can receive email notifications related to platform migration (**Configure > Appliance > Edit Appliance > Email**):



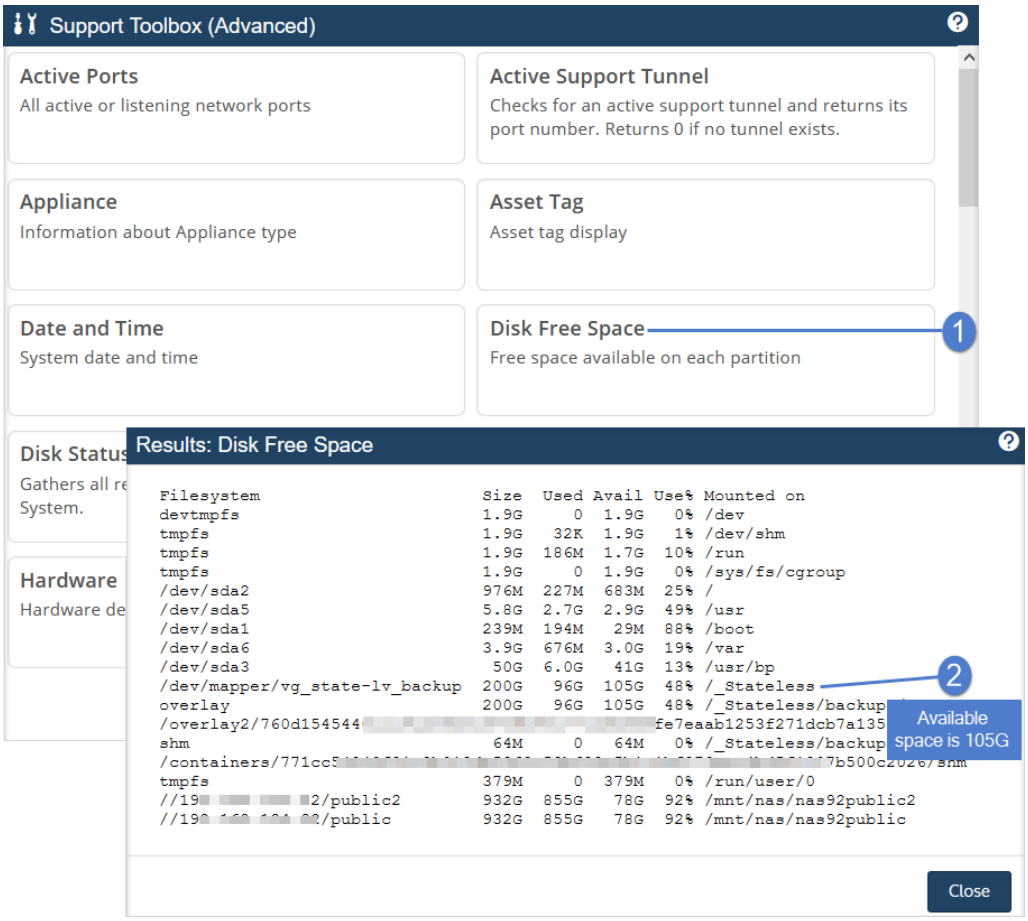
- Filesystem configuration – The database resides on the storage partition. This is the default configuration. If your database was moved to a separate partition, migration is not supported. The migration tool detects this and no data is migrated.
- Filesystem configuration – The appliance is configured 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.



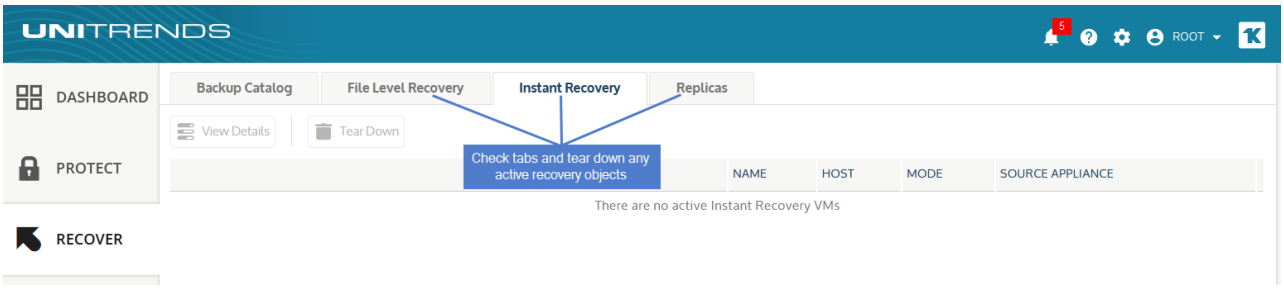
- Available space – The */_Stateless* partition must have adequate available space to accommodate the database migration. To check the space available, select **Disk Free Space** in the Support Toolbox (Advanced) dialog:



- 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.



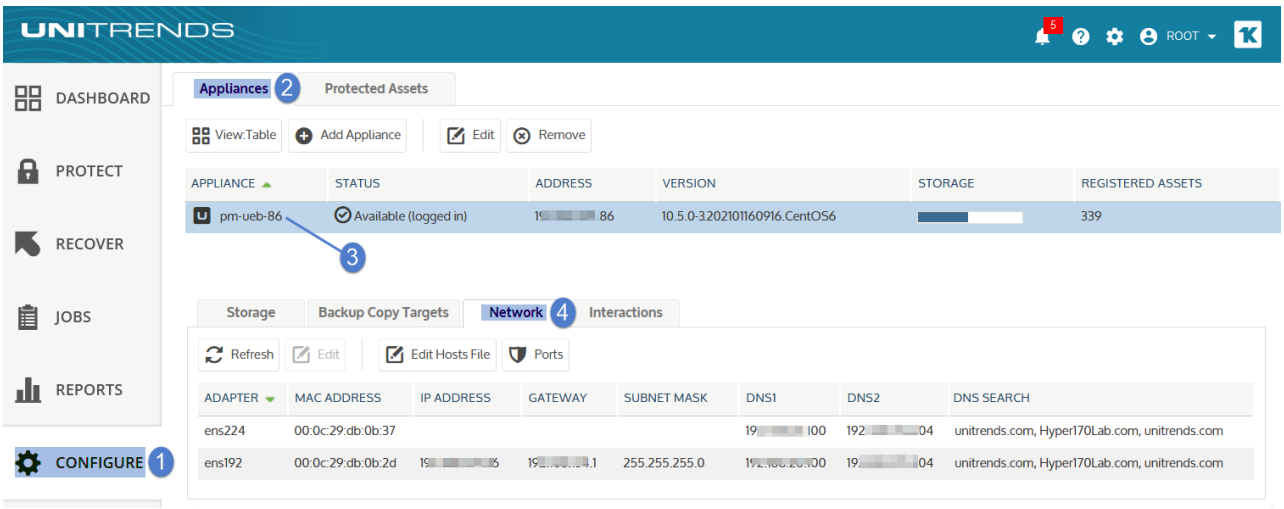
Deployment requirements for CentOS 7 Unitrends Backup virtual appliance

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 to these free or paid versions of ESXi: 5.5, 6.0, 6.5, 6.7, or 7.0.
- 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**:

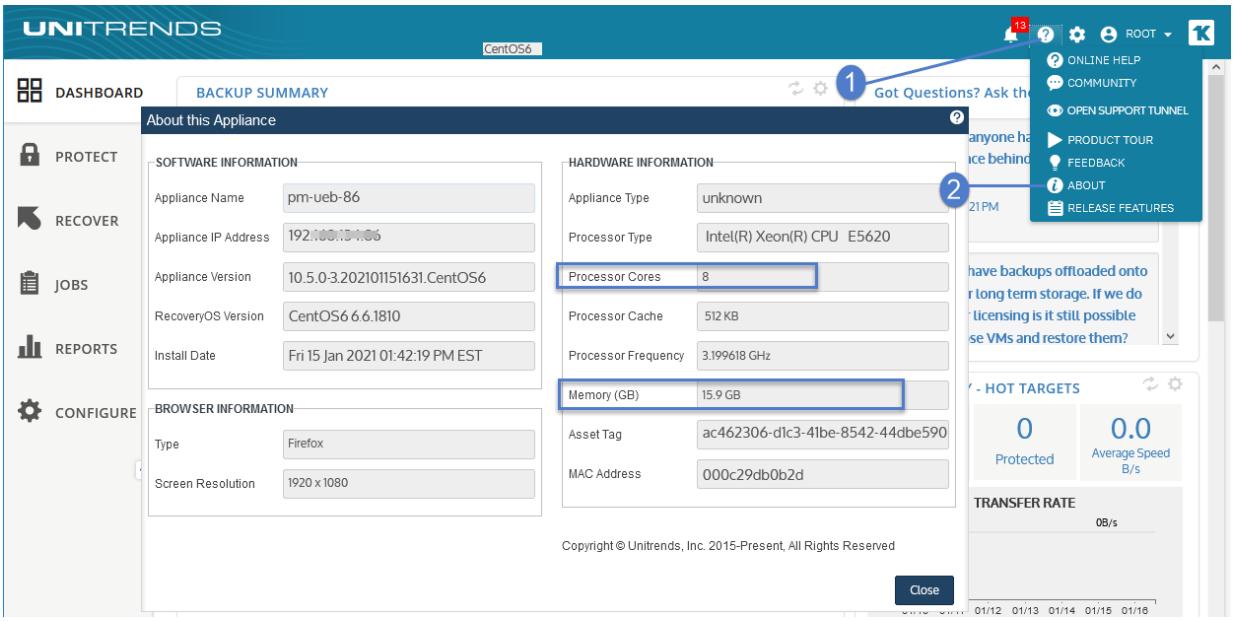
Notes:

- 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

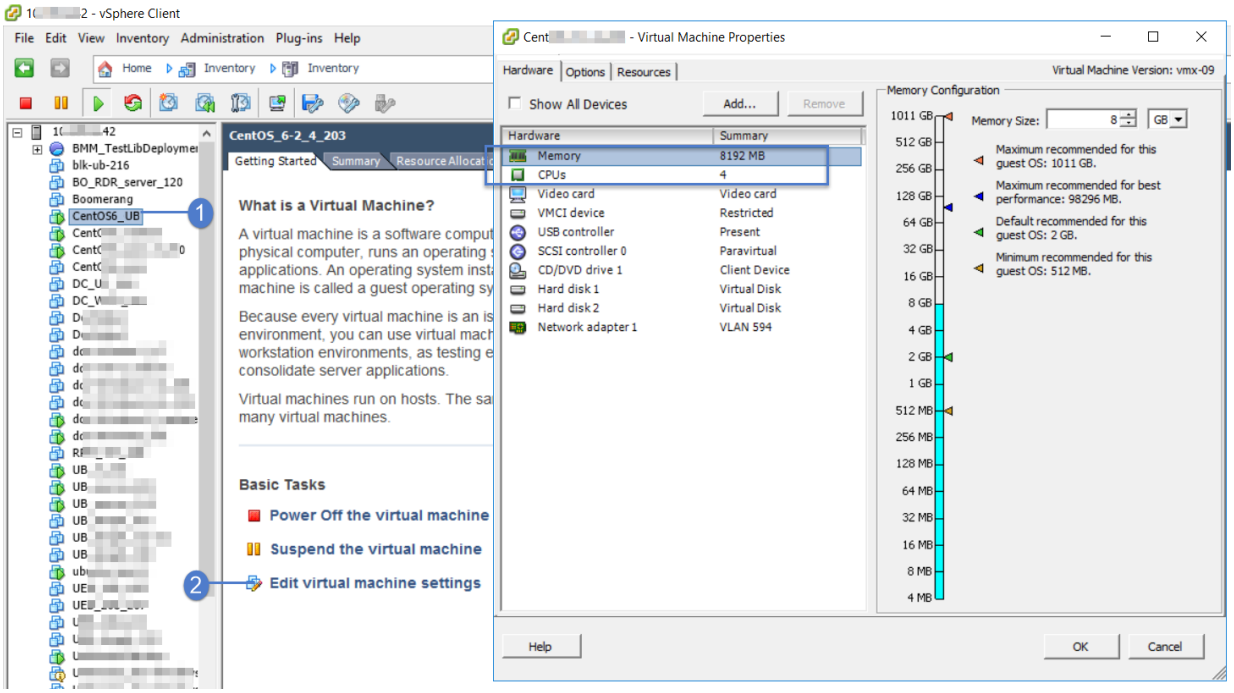


- Virtual machine resource requirements – The following minimum resources are required:
  - 100GB of space for the VM's initial disk.
  - A minimum of 2 virtual processors (CPUs) or the number of virtual processors (CPUs) on the original CentOS 6 appliance, whichever is greater.
  - A minimum of 8GB 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 (**? > About**):



To check the CPU and RAM of the CentOS 6 appliance by using the ESXi server, use Edit Virtual Machine Settings:


vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
CentOS_6-2_4_203
Getting Started Summary
What is a Virtual Machine?
Basic Tasks
Power Off the virtual machine
Suspend the virtual machine
Edit virtual machine settings
1
2
Virtual Machine Properties
Hardware Options Resources
Virtual Machine Version: vmx-09
Show All Devices
Add...
Remove
Hardware Summary
Memory 8192 MB
CPUs 4
Video card Video card
VMCI device Restricted
USB controller Present
SCSI controller 0 Paravirtual
CD/DVD drive 1 Client Device
Hard disk 1 Virtual Disk
Hard disk 2 Virtual Disk
Network adapter 1 VLAN 594
Memory Configuration
Memory Size:
Maximum recommended for this guest OS: 1011 GB.
Maximum recommended for best performance: 98296 MB.
Default recommended for this guest OS: 2 GB.
Minimum recommended for this guest OS: 512 MB.
Help
OK
Cancel

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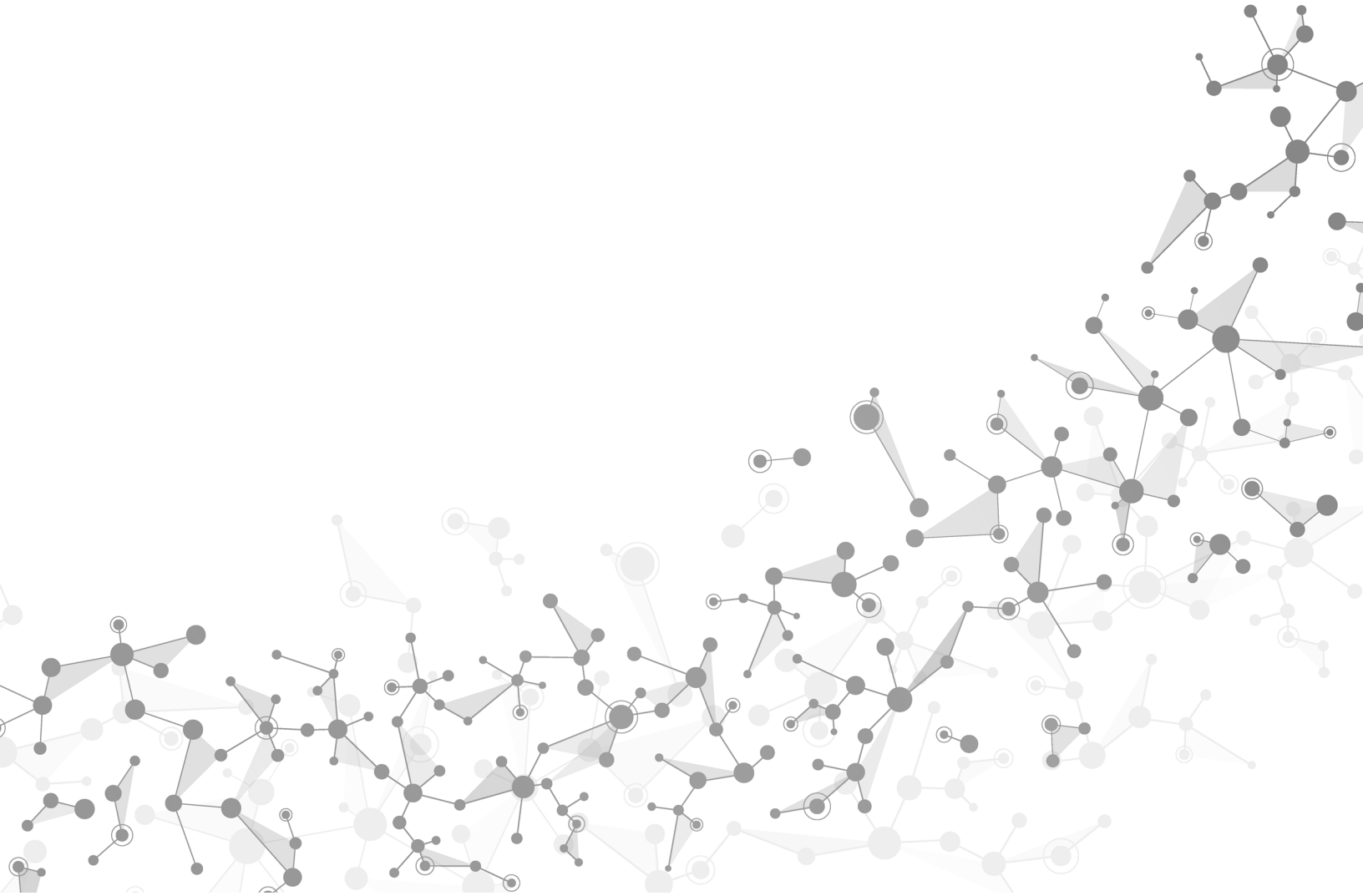


Chapter 3: Migration Procedures

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

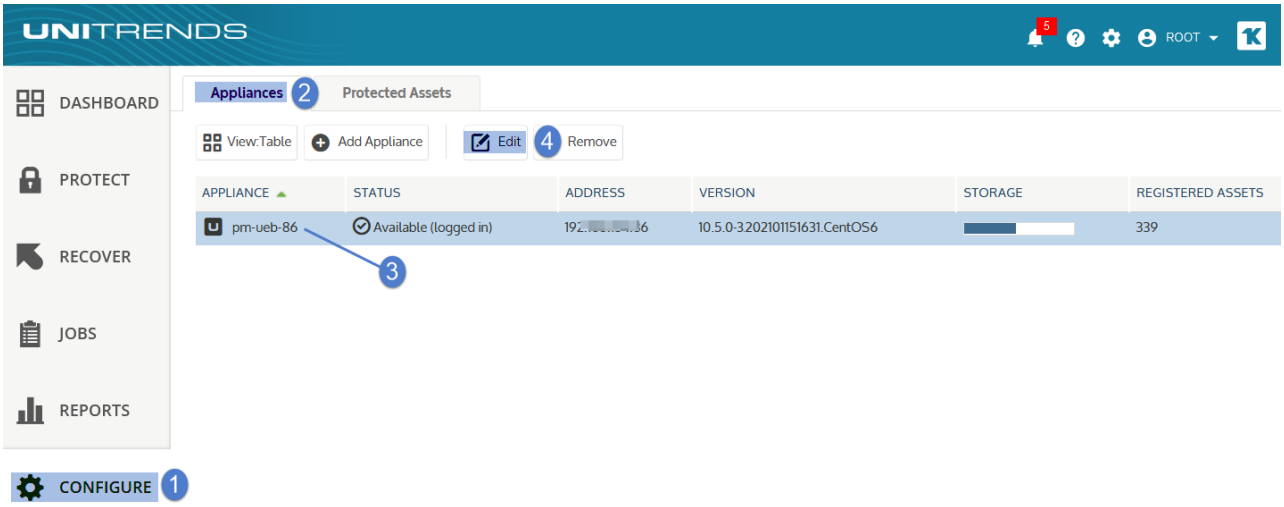
Step 1: Migrate data on the CentOS 6 appliance

IMPORTANT! Before running this procedure, use your ESXi 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.

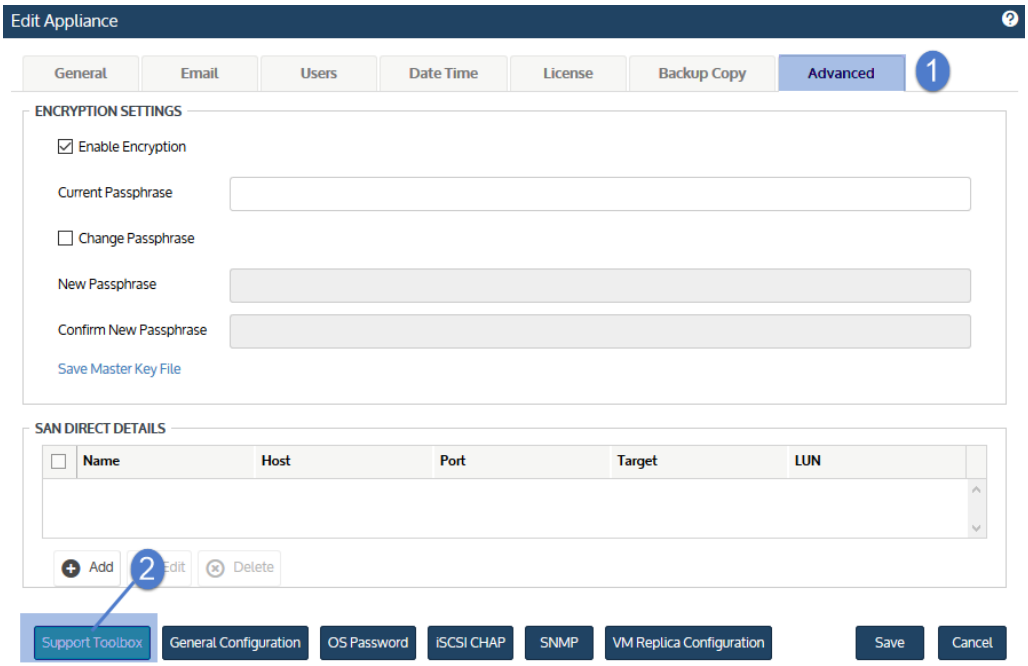
1. Log in to the CentOS 6 appliance UI.

   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**.

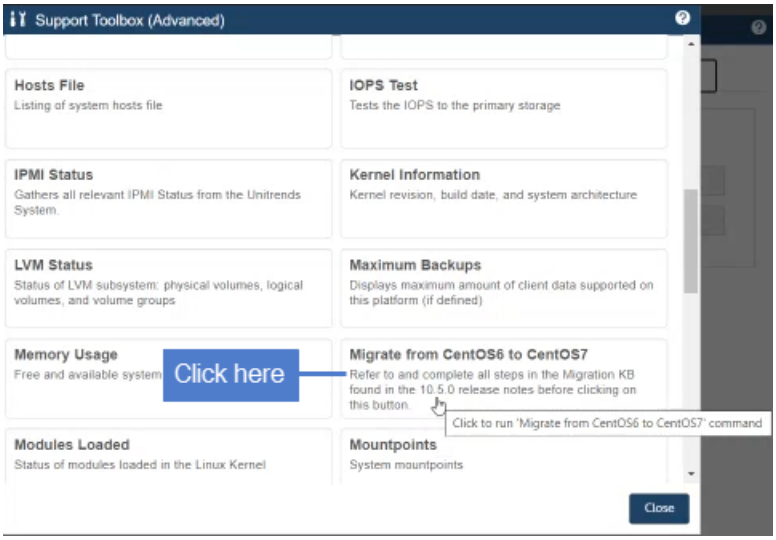


3. Click **Advanced** and select **Support Toolbox**.



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.



5 The migration tool does the following:

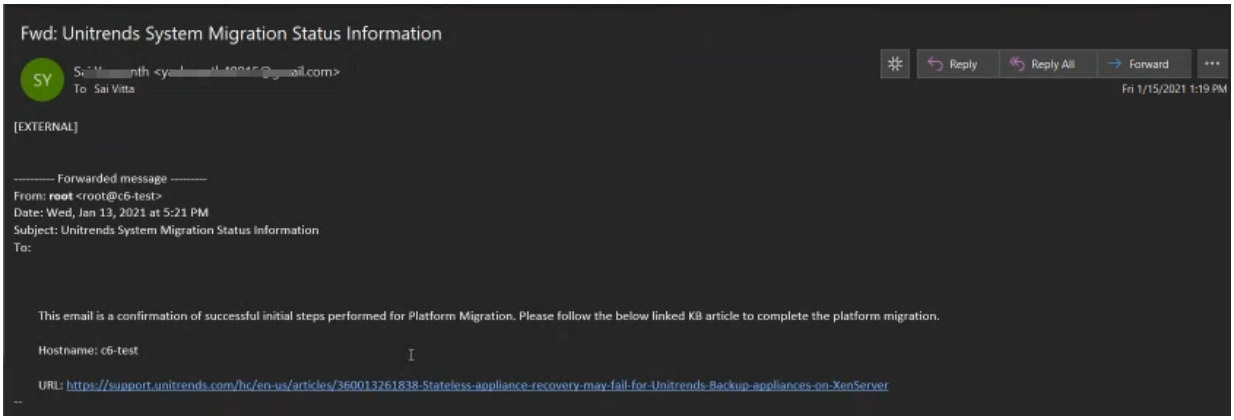
- Verifies that all appliance requirements have been met.

  Notes:

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

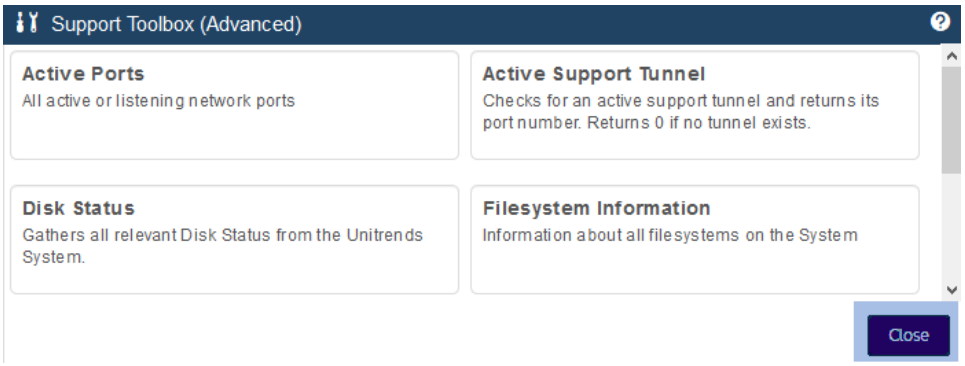
- Click **Close** to exit the message, then address the requirement.

- 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.



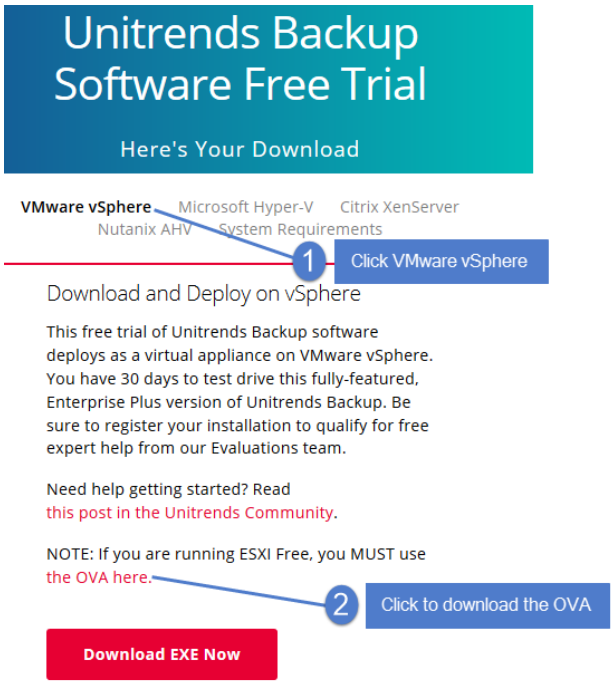
Step 2: Deploy the CentOS 7 Unitrends Backup VM

Use the following procedure to deploy the Unitrends Backup VM by using the OVA file.

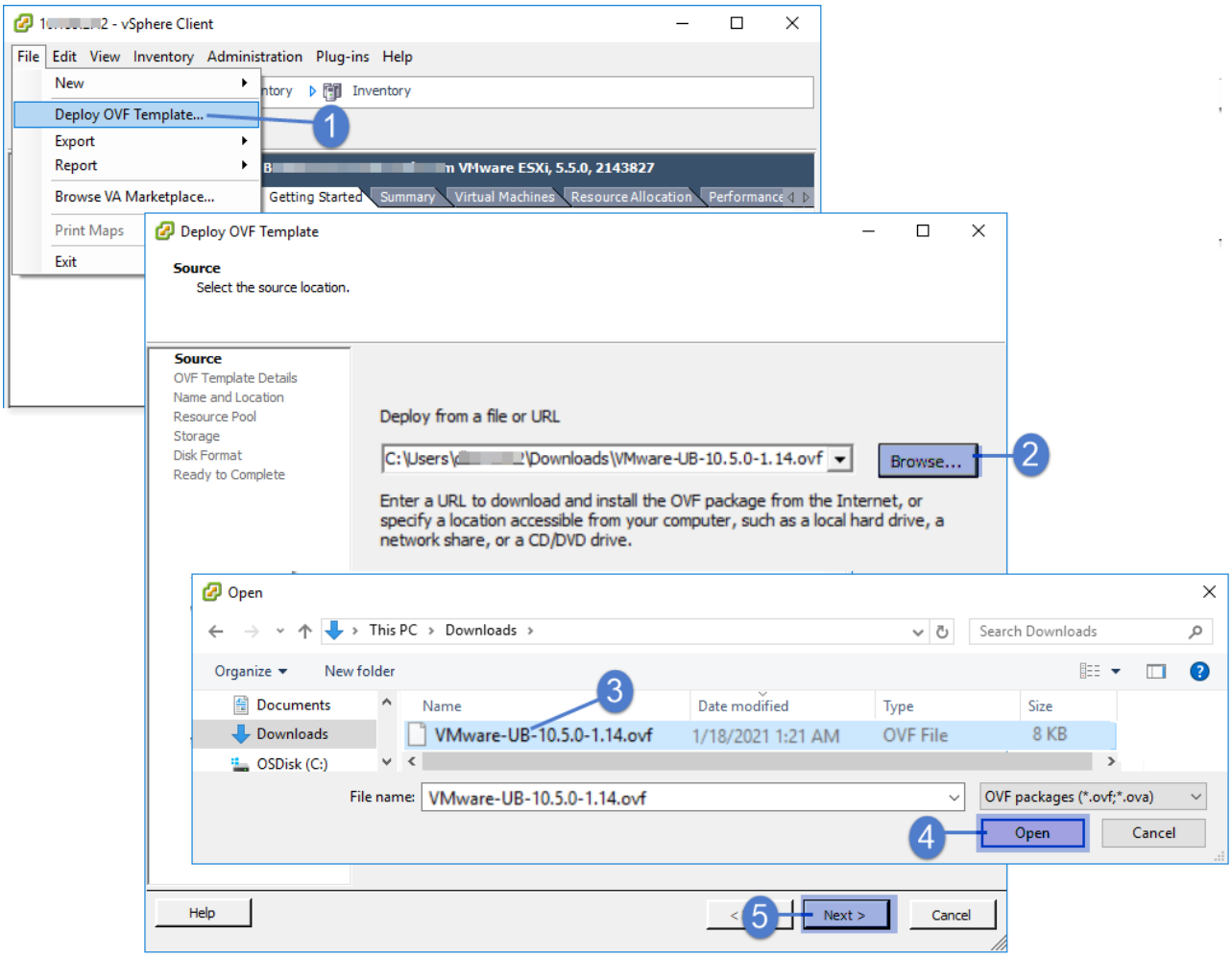
1 Download the Unitrends Backup OVA:

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

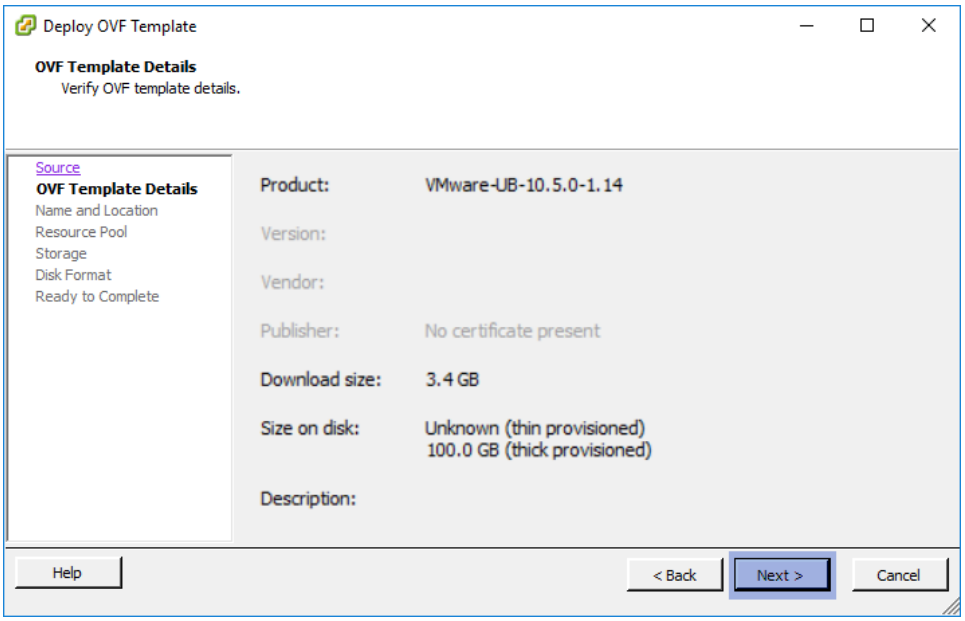
- Select **VMware vSphere**. Click to download the OVA and save it on the machine you will use to access your ESXi server for the deployment.



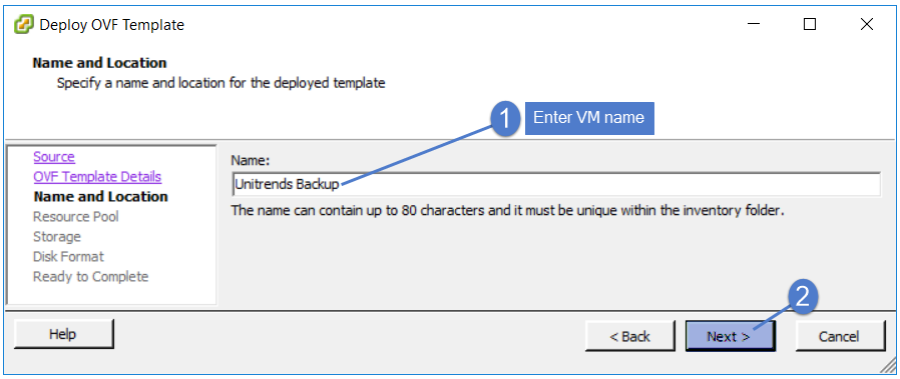
2. From the machine on which you saved the Unitrends Backup OVA file, access your ESXi server using vSphere Client.
3. Select **File > Deploy OVF template**.
4. Browse to the extraction location, select **VMware-UB-*version*.ovf**, click **Open**, then click **Next**.



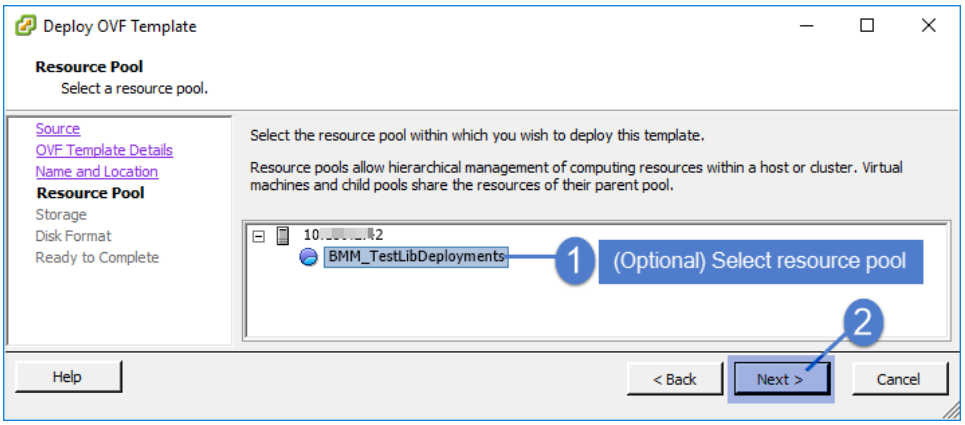
5 Verify details and click **Next**.



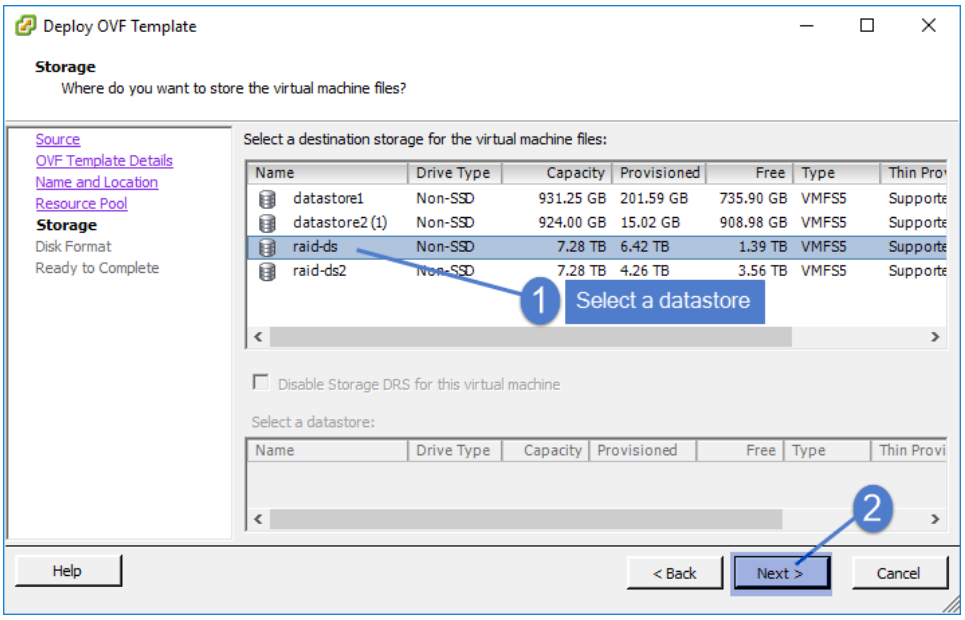
6 Enter a display name for the Unitrends Backup VM. The name can contain only alphanumeric characters, dashes, and underscores. This is the name that will display for the VM in your hypervisor. Click **Next**.



7 (Optional) If your environment has resource pools, you can opt to choose one for the Unitrends Backup VM. If your environment does not have resource pools, you do not see this step. Click **Next** to continue.

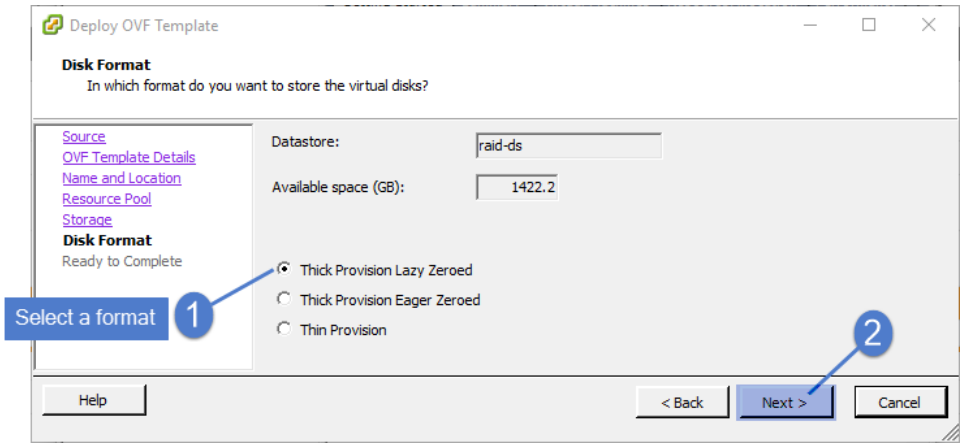


8 Select the datastore that will be used to create the Unitrends Backup VM. Click **Next**.



9 Select the disk format. Click **Next**.

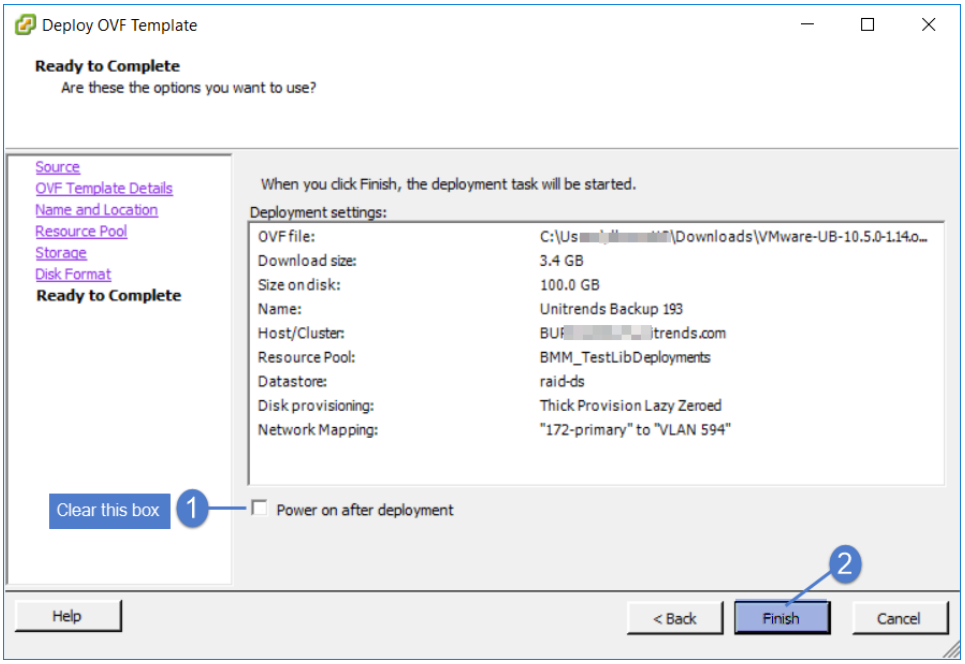
For best performance, use a thick provisioned format.

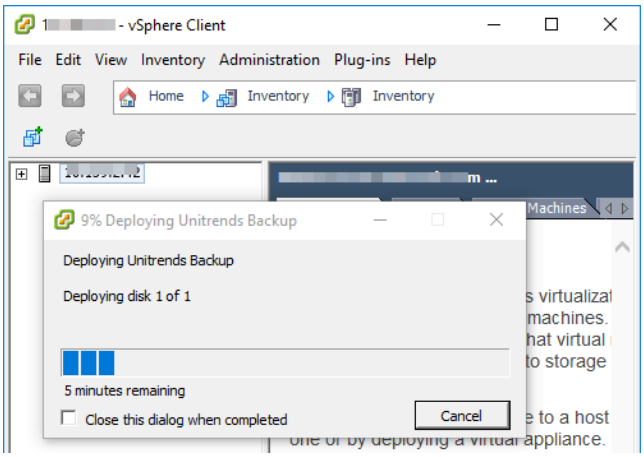


10 If the server has multiple virtual networks, select one from the list and click **Next**. If the server has only one virtual network, you are not prompted for a selection.

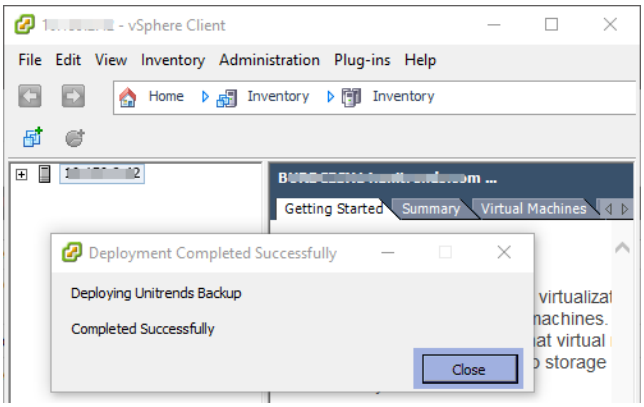
11 On the Ready to Complete screen, do not select **Power on after deployment**.

12 Click **Finish** to deploy.

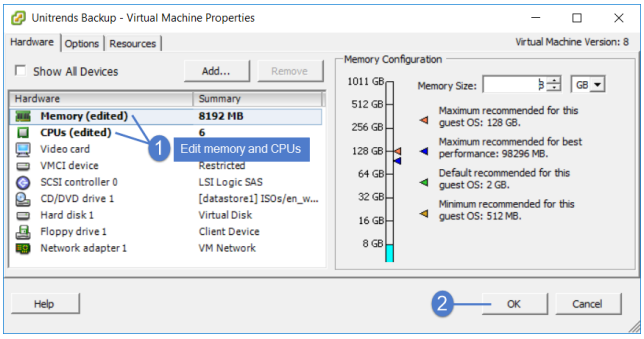




13 When deployment is complete, close the confirmation message.



14 Edit the virtual machine settings to adjust the CPU and memory to meet or exceed the settings of the CentOS 6 appliance. Click **OK**.



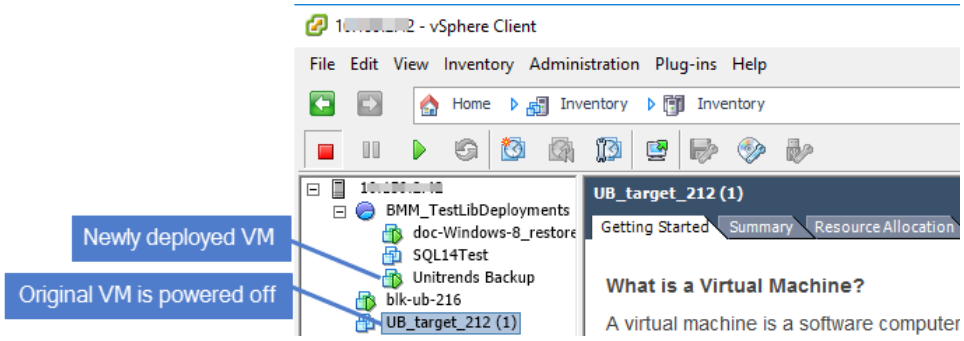
Step 3: Attach backup storage

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

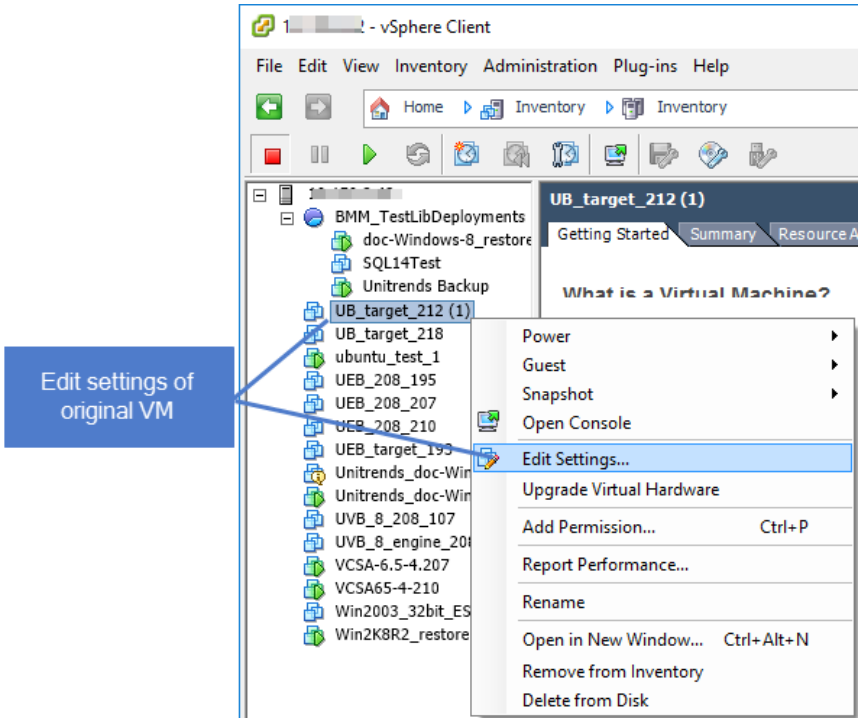
IMPORTANT! Be sure to attach the VMDK that was used as the initial backup storage first (before adding any other VMDKs). Adding the wrong VMDK first yields undesirable results. The appliance automatically uses the first VMDK you attach as the initial backup storage. The appliance then recognizes all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

To add a VMDK that contains backups from the CentOS 6 Unitrends Backup appliance:

1. Access your ESXi server using vSphere Client.
2. Ensure that the CentOS 6 VM is powered off.



3. Identify the disk(s) that you want to add to the CentOS 7 VM by doing these steps:
   - Right-click the original VM and select **Edit Settings**.

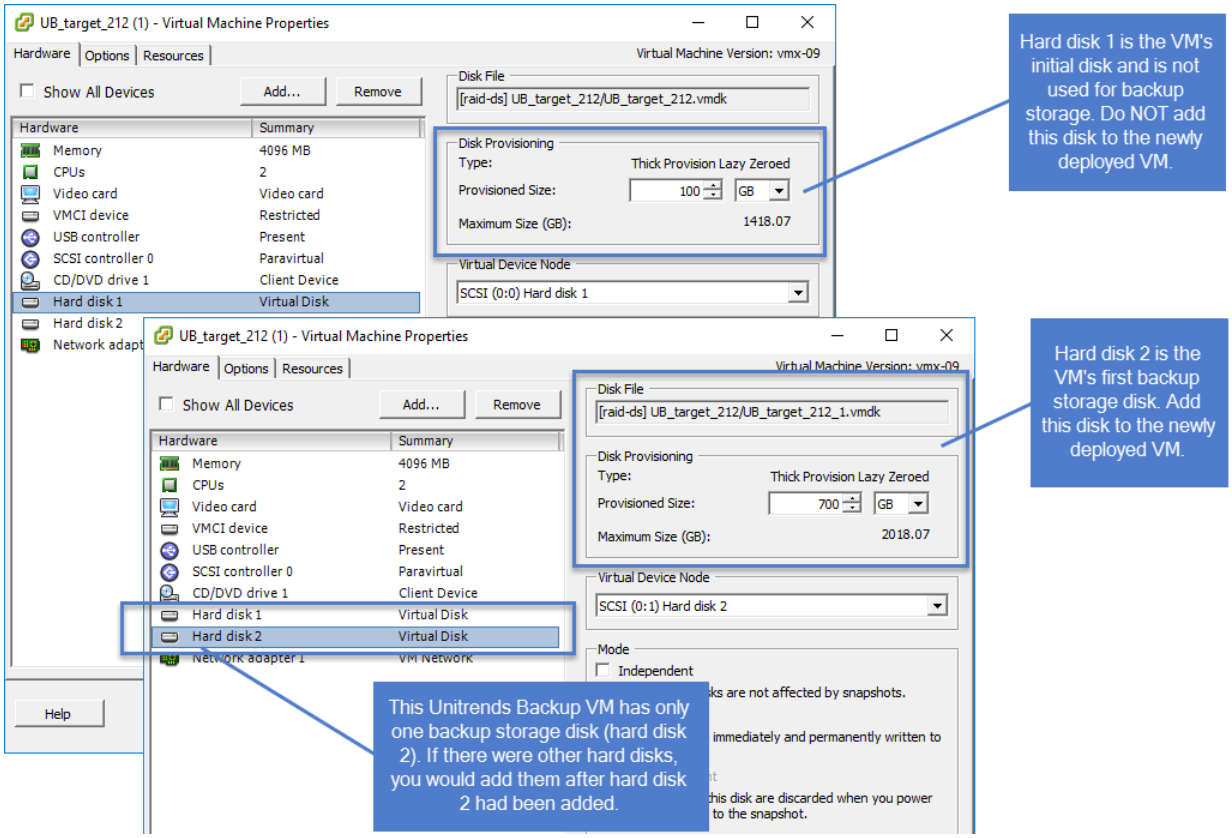


   - Select each hard disk to view details. Note the disk file details of the one(s) you will add to the CentOS 7 VM. (You will need the datastore and disk name to locate the disk in vSphere Client).

Notes:

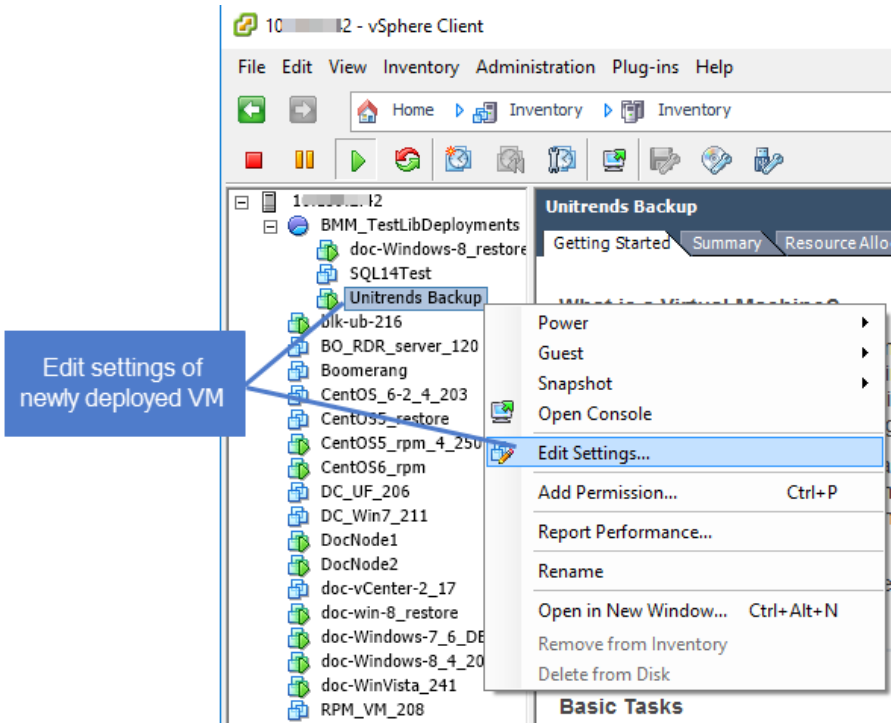
- You must add all backup storage disks from the original CentOS 6 VM.
- Do not add Hard Disk 1. This 100GB disk was created during VM deployment and is NOT used to store backups.
- You must add the first backup storage disk (typically Hard Disk 2) before you add any other backup storage disks.

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

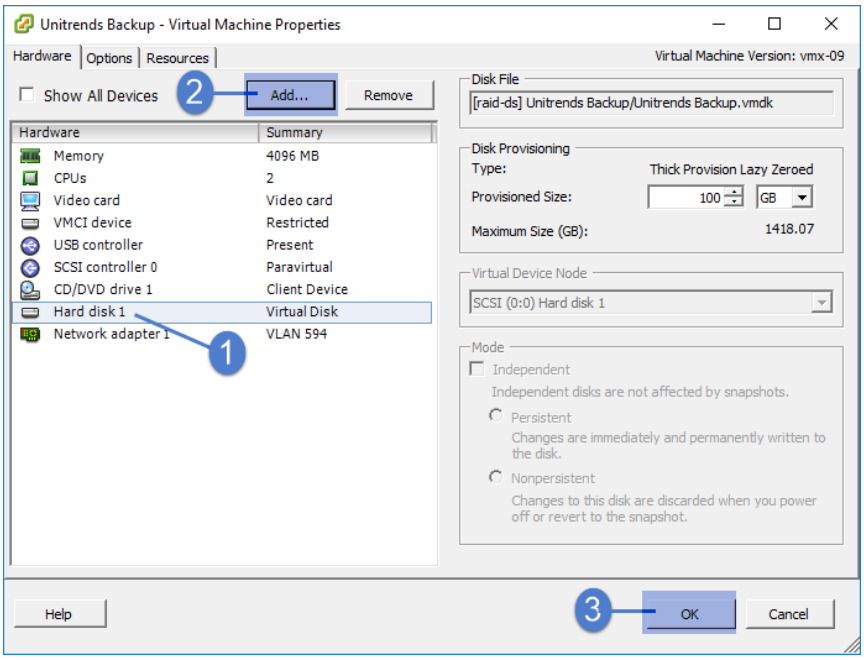


4 Add the disk(s) to the CentOS 7 VM by doing these steps:

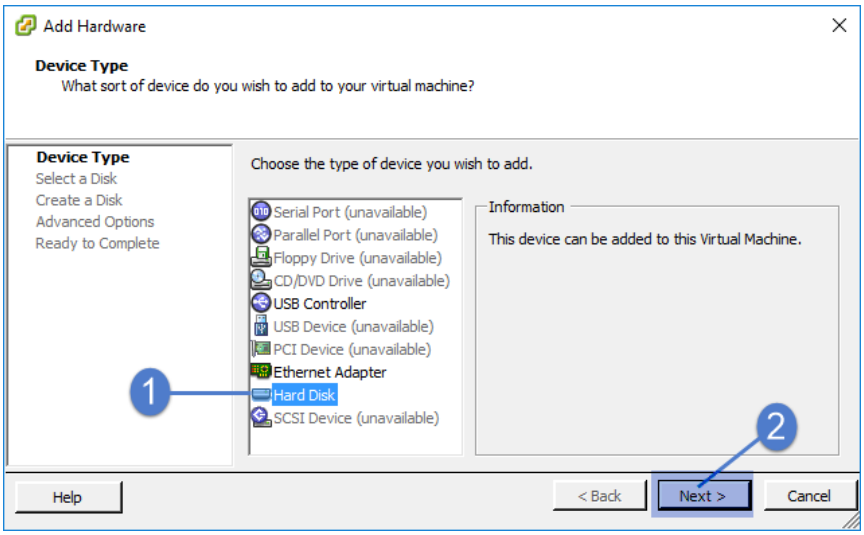
- Right-click the CentOS 7 VM and select **Edit Settings**.



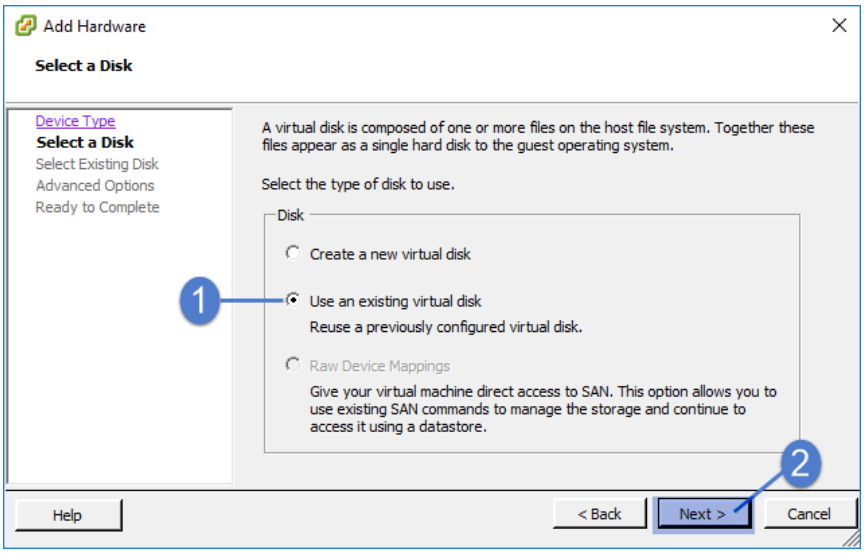
- Select **Hard disk 1**, click **Add**, then **OK**.



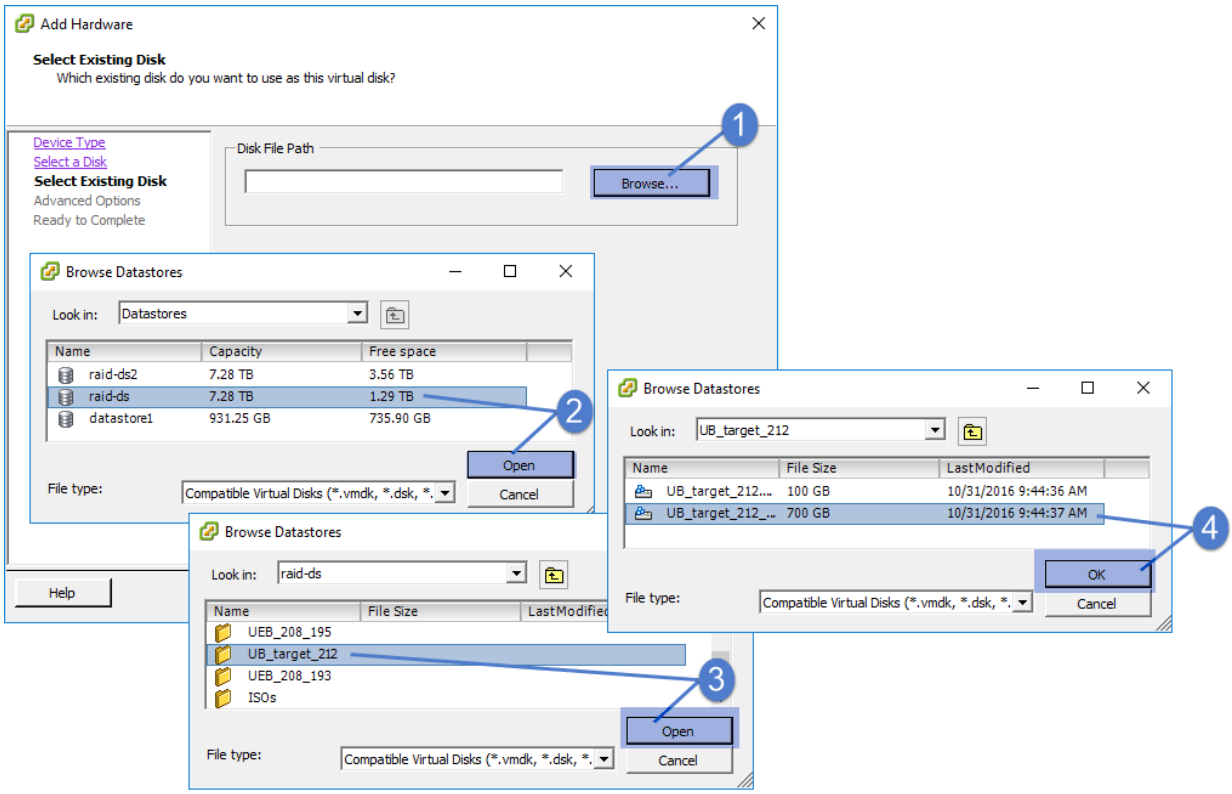
- Select **Hard Disk** and click **Next**.



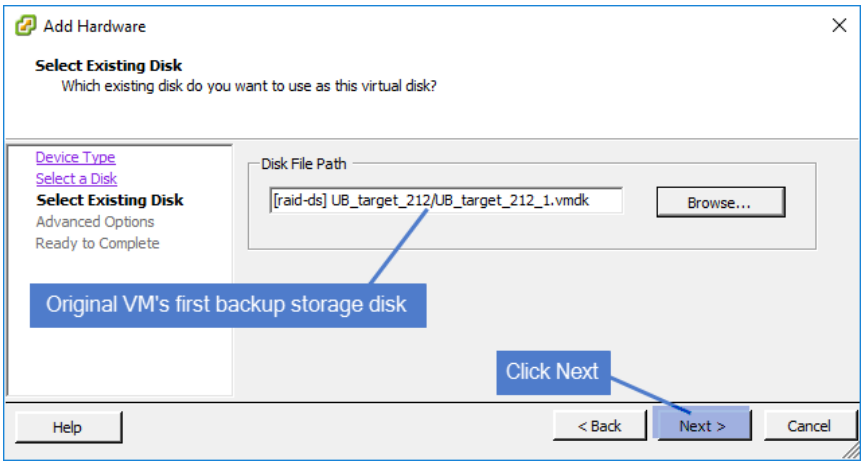
- Select **Use an existing virtual disk** and click **Next**.



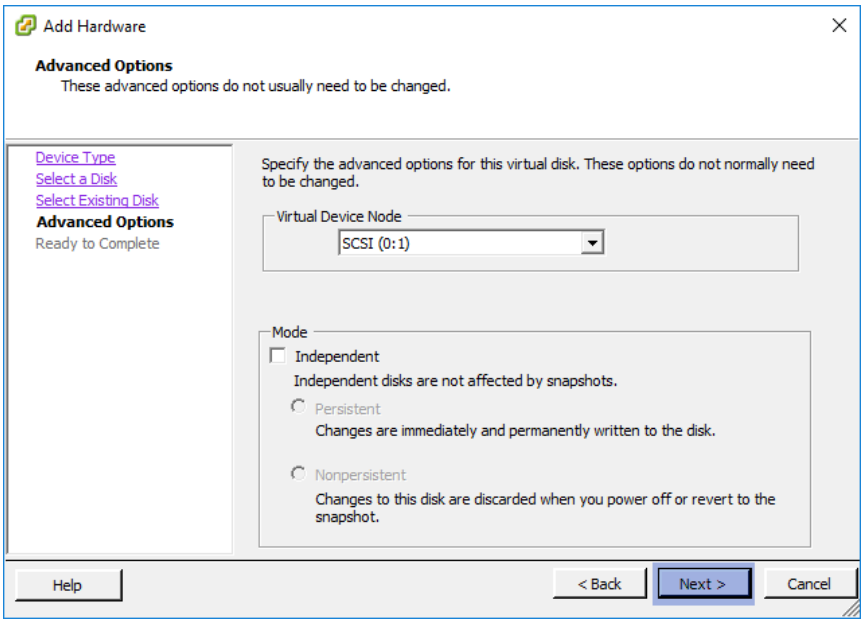
- Click **Browse**. Browse to the CentOS 6 VM's first backup storage disk and click **OK**.



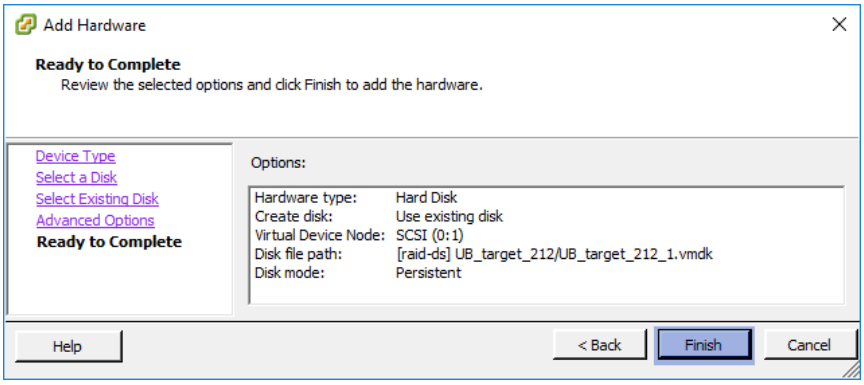
- Click **Next** to continue.



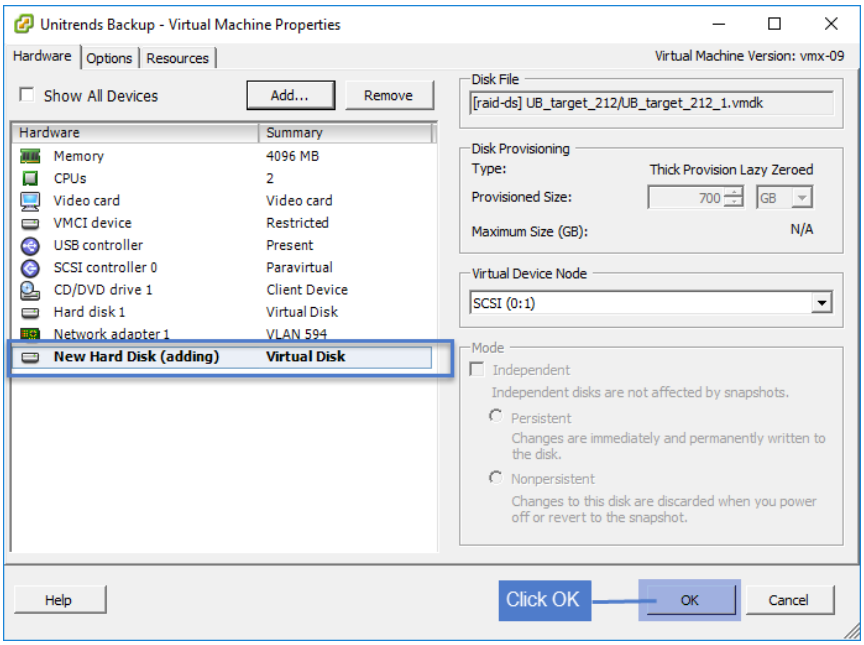
- Click **Next** to accept the default Advanced Options.



- Click **Finish**.



- Click **OK**.



5 (If needed) If the CentOS 6 VM has multiple backup storage disks, repeat step 4 to add those disks.

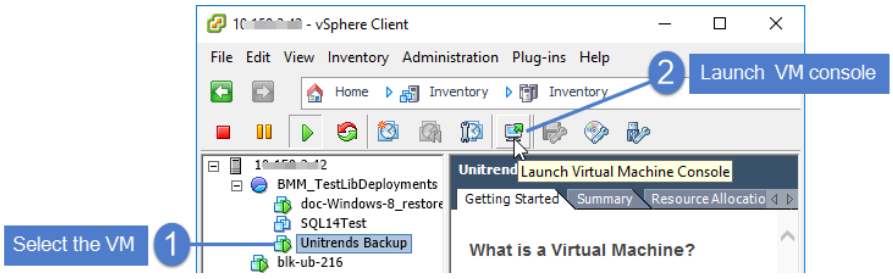
6 After attaching all backup storage disks, proceed to "Step 5: Set up the CentOS 7 appliance using the Quick Setup Wizard".

Step 4: Configure network settings

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

1 From vSphere Client, access the Unitrends Backup VM's console interface by clicking the **Launch Virtual Machine Console** icon.

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

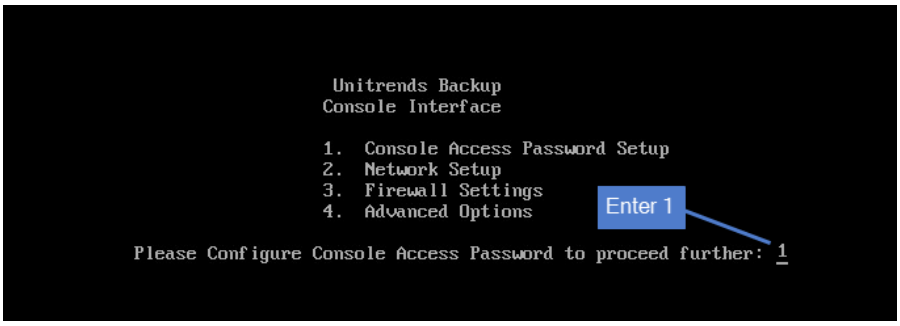


The remaining steps are run from the Unitrends Backup Console Interface. On these screens, you select a menu option by entering a number in the **Please enter choice** field.

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.

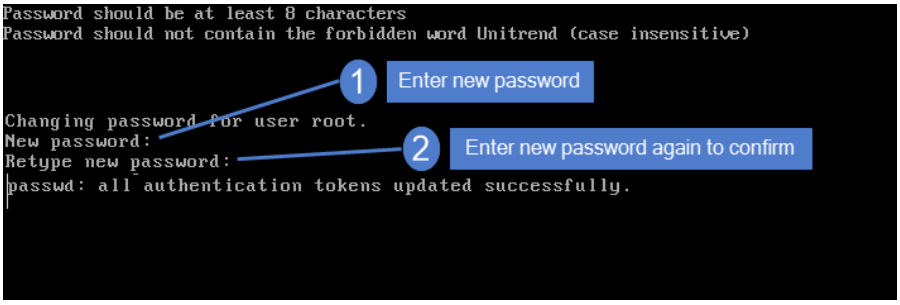
2 On the Console Interface screen, enter **1** in the **Please Configure Console Access Password...** field.



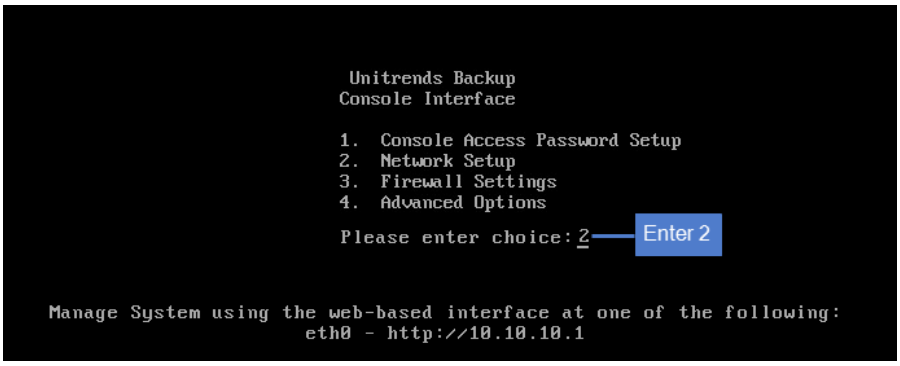
3 To change the direct console password, enter a new password, then enter the password again to confirm.

Notes:

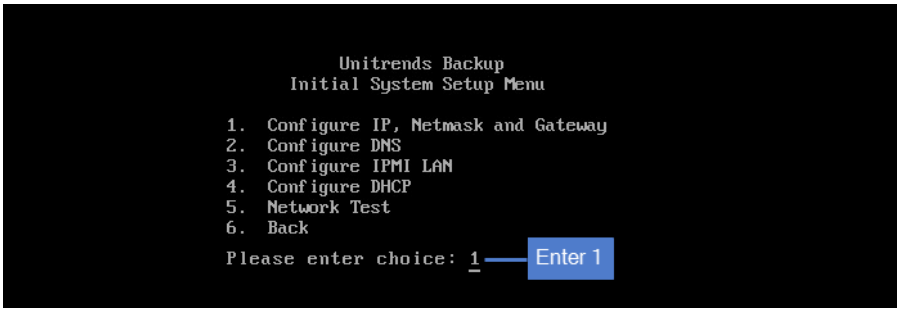
- This is the root operating system password that accesses the console. This password does not access the UI. (You will change the UI password in "Step 5: Set up the CentOS 7 appliance using the Quick Setup Wizard" on page 38.)
- All appliances are deployed with these default operating systems credentials: user *root*, password *unitrends1*. For appliance security, you must change this password.



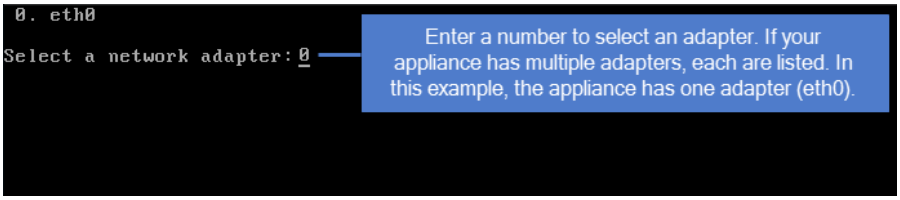
4 On the Console Interface screen, enter **2**.



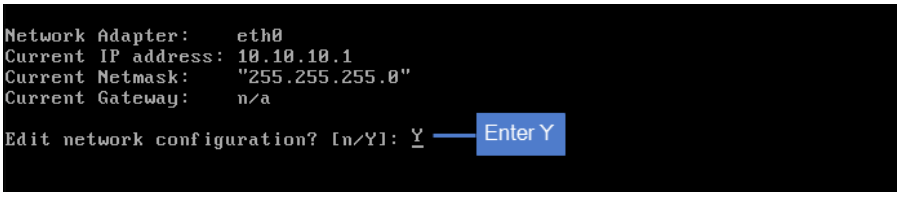
5 On the Initial System Setup Menu screen, enter **1** in the **Please enter choice** field.

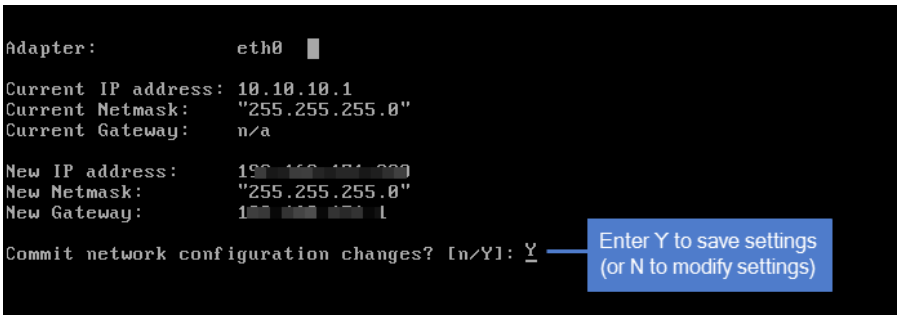


6 Enter a number in the **Select a network adapter** field. For example, enter **0** to select *eth0*.

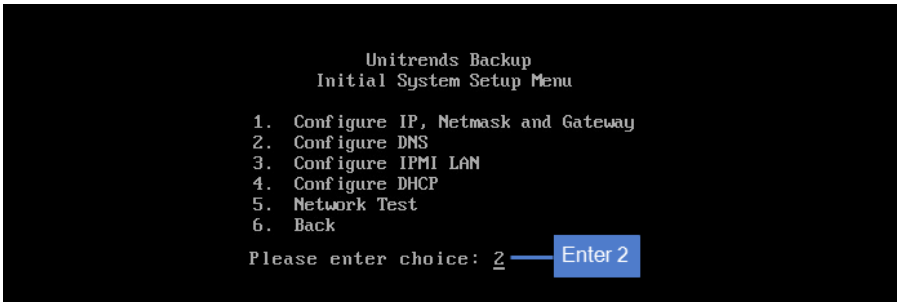


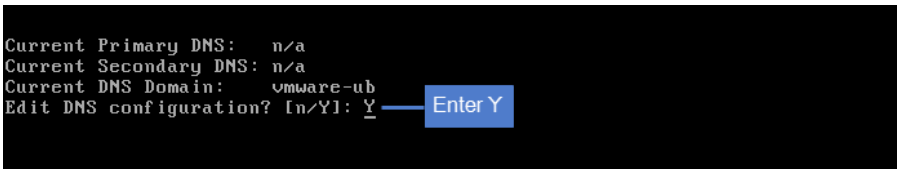
7 Enter **Y** in the **Edit network configuration** field. Then enter the **IP address**, **Netmask**, and **Gateway** of the CentOS 6 appliance. Review the settings and enter **Y** to save.

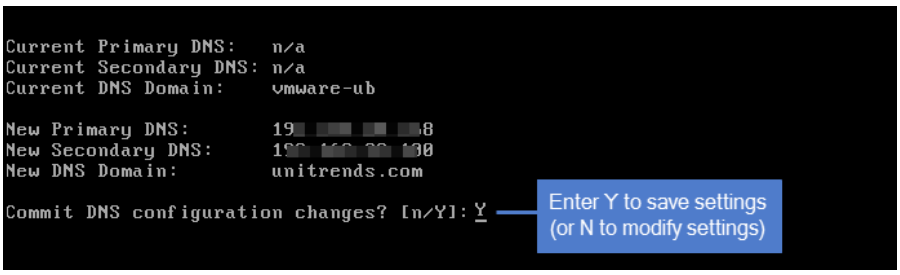




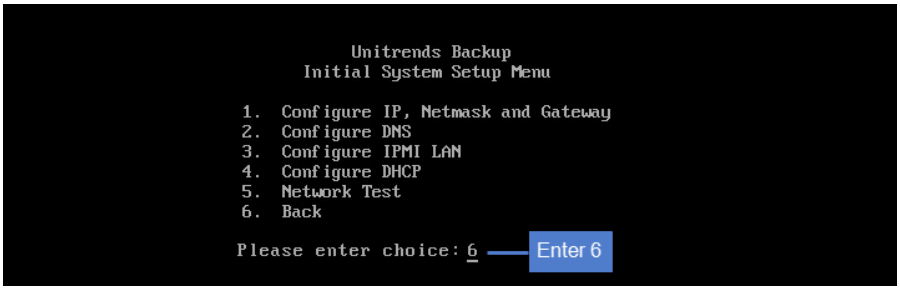
8 To configure DNS settings, enter **2**, then enter **Y** to edit. Enter the **Primary DNS** IP address, a **Secondary DNS** IP (optional), and a **DNS Domain**. Review the settings and enter **Y** to save.



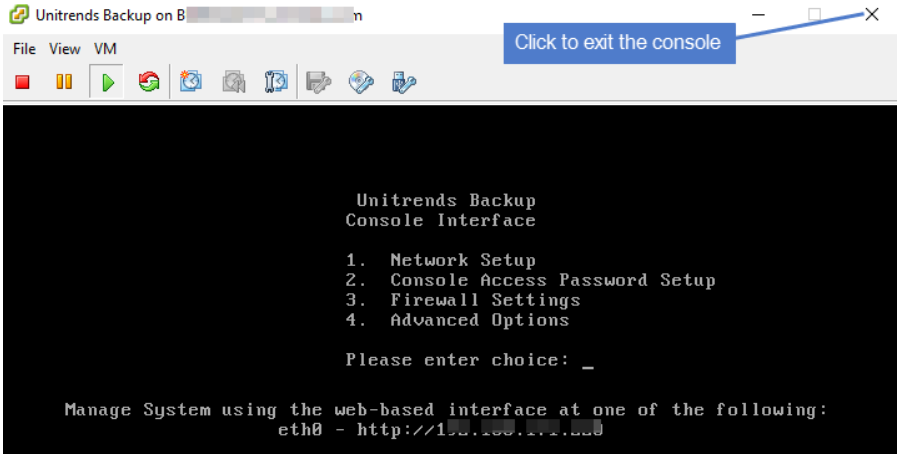




9 To exit network setup, enter **6**.



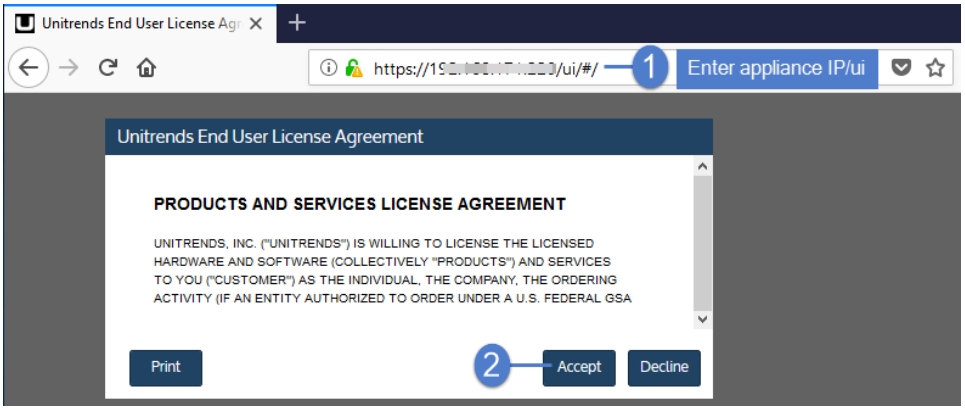
10 Exit the VM console.



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

Use this procedure to set up the appliance:

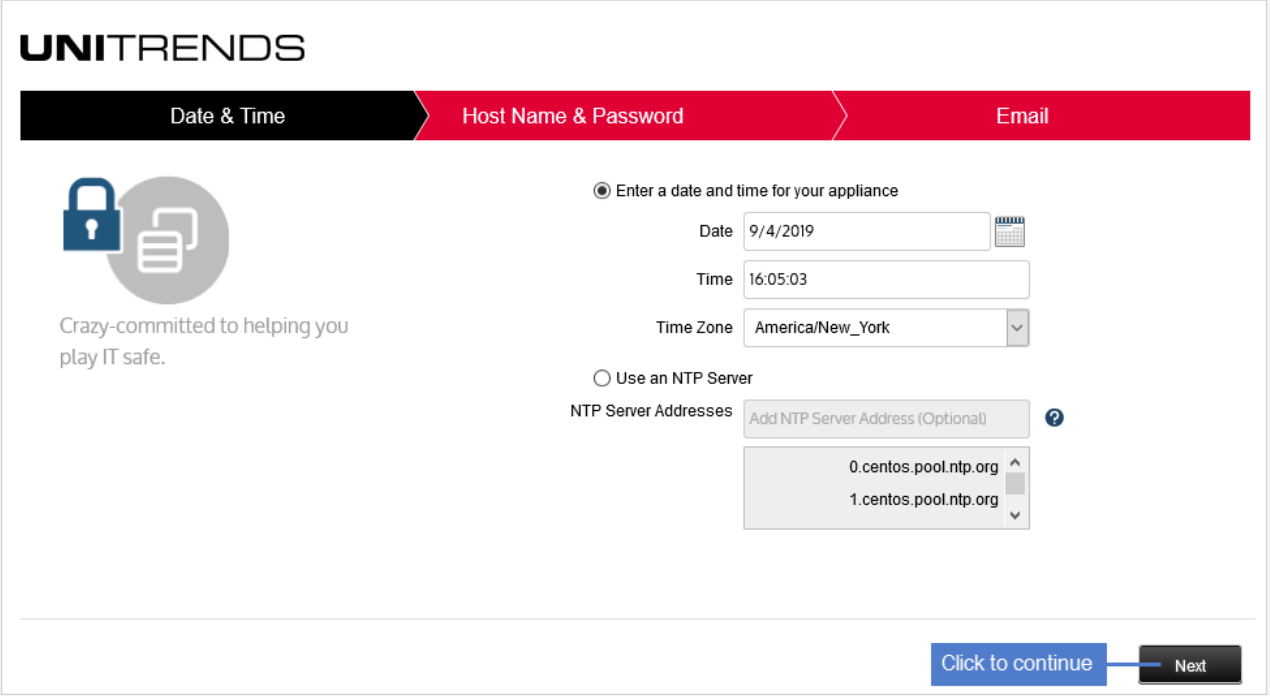
1. Open a browser and connect to your appliance by entering: ***https://<applianceIP>/ui***. For example: ***https://10.10.10.1/ui***.
2. Click **Accept** to accept the license agreement.



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

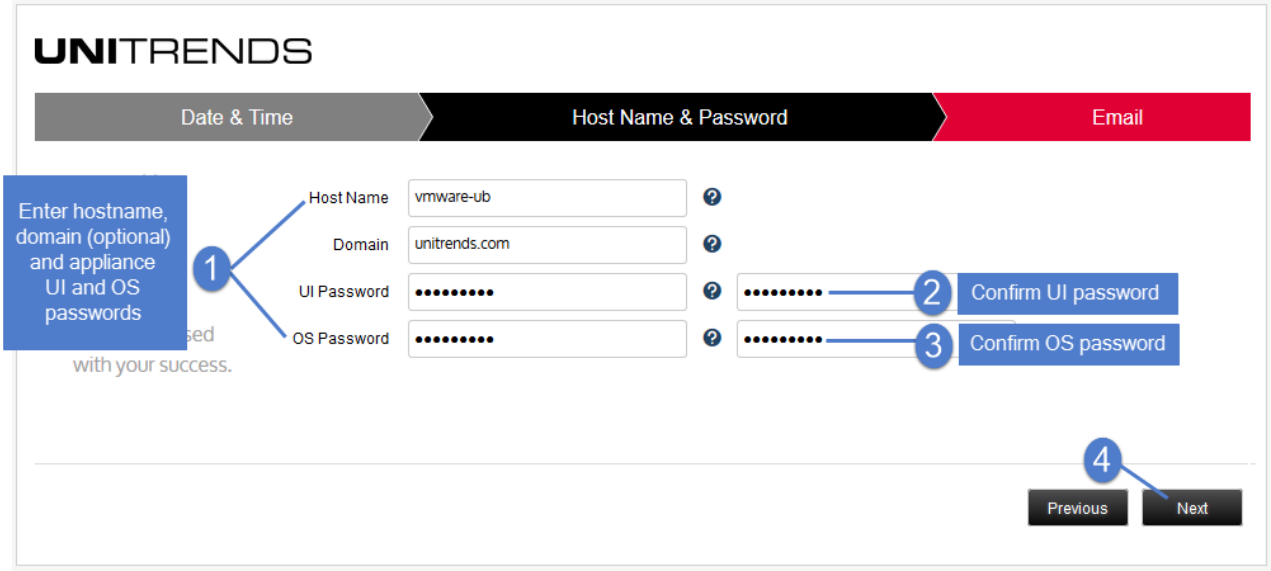
   - Check the **Use an NTP Server** box to sync to an NTP server. (Optional) Enter your preferred NTP server address.



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:

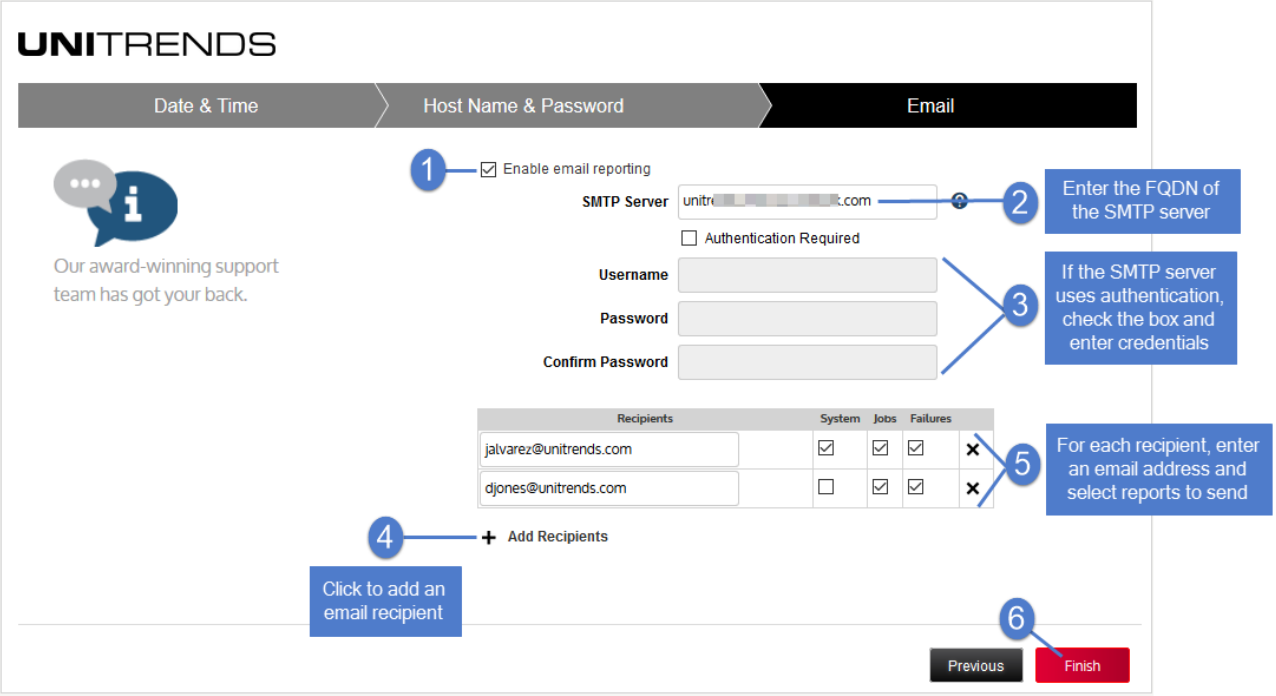
- The hostname can contain only alphanumeric characters, dashes, and underscores.
- The appliance has a UI root user and an OS root user. These are separate accounts. Changing the password of one root user account does NOT change the password of the other root user account. The UI root user is used to 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.



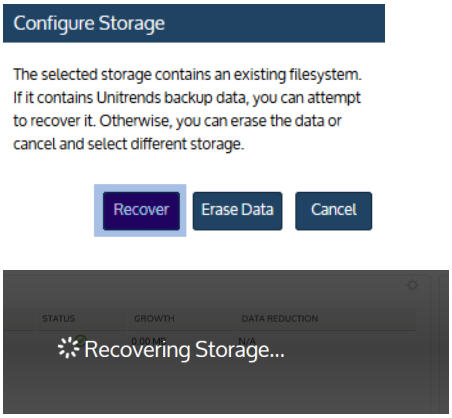
5 To enable email from the appliance, check **Enable email reporting** and enter the following:

- 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 a 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**.



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

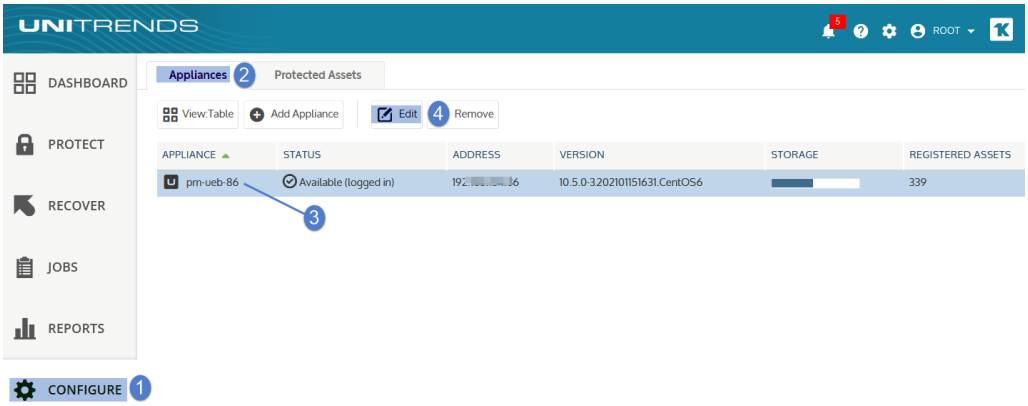


Step 6: (If needed) Configure encryption with the CentOS 6 passphrase

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.

Use this procedure to configure encryption:

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



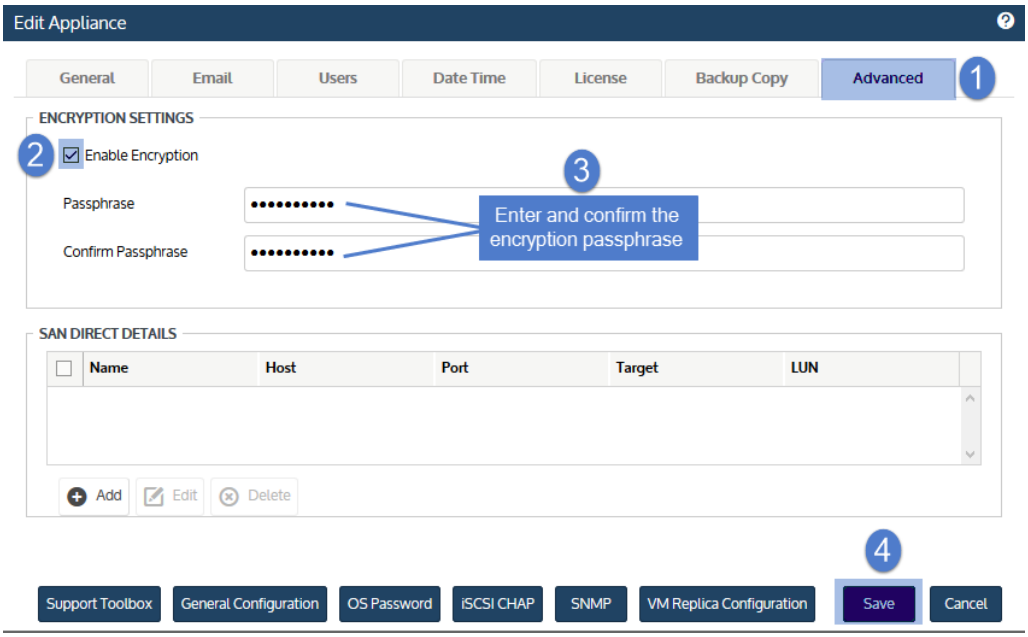
2 Select the **Advanced** tab.

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**.

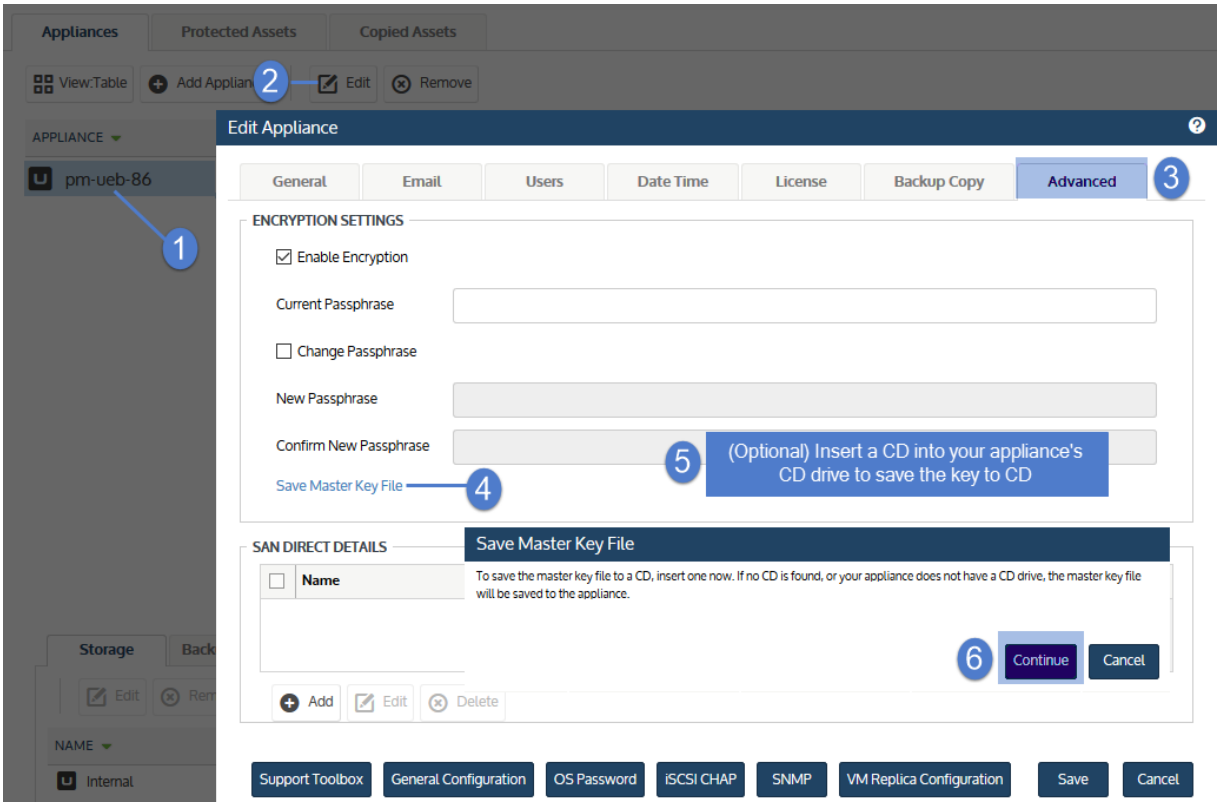


6 Return to the Edit Appliance dialog.

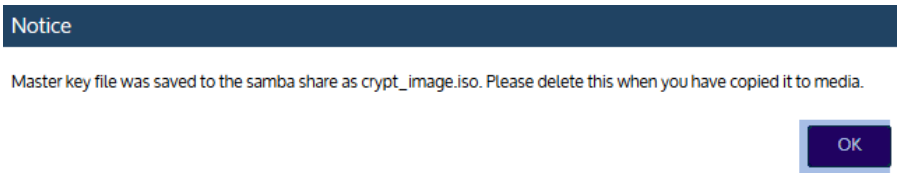
7 Select the **Advanced** tab and click **Save Master Key File**.

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**.

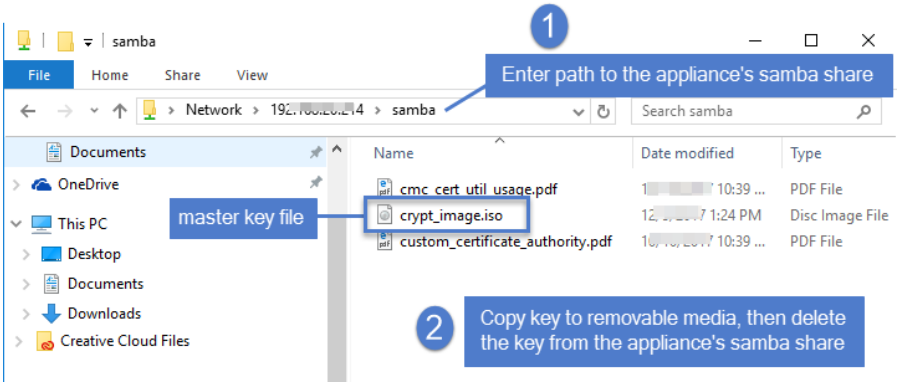


IMPORTANT! Be sure to keep the master key file secure. If you ever need to perform disaster recovery of the appliance, you will need this key to access any encrypted backups.

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.

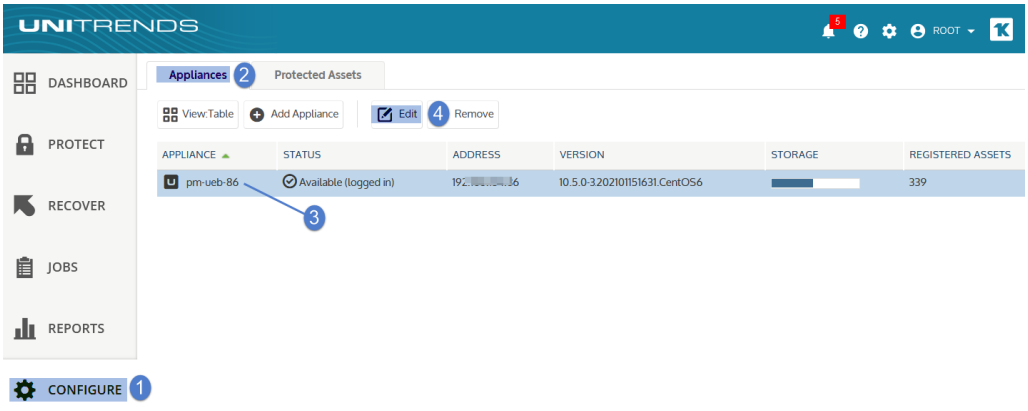
Step 8: Register and license the CentOS 7 appliance

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

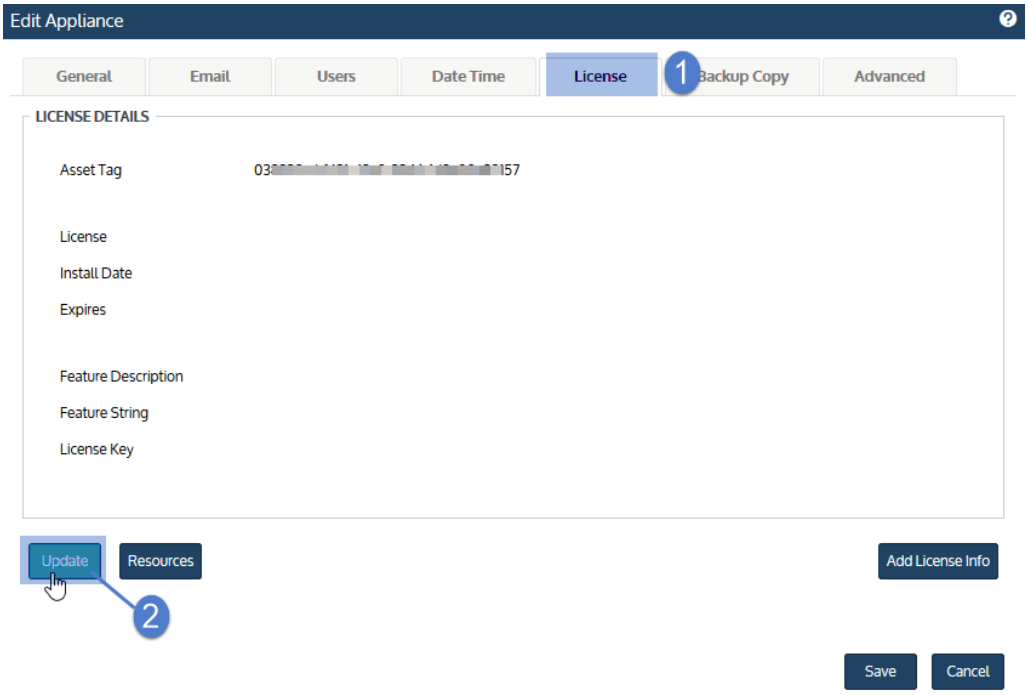
Each appliance requires an activation code and license key. Use the procedures below to register and license the appliance:

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.



3 Select **I need to activate my purchase**:

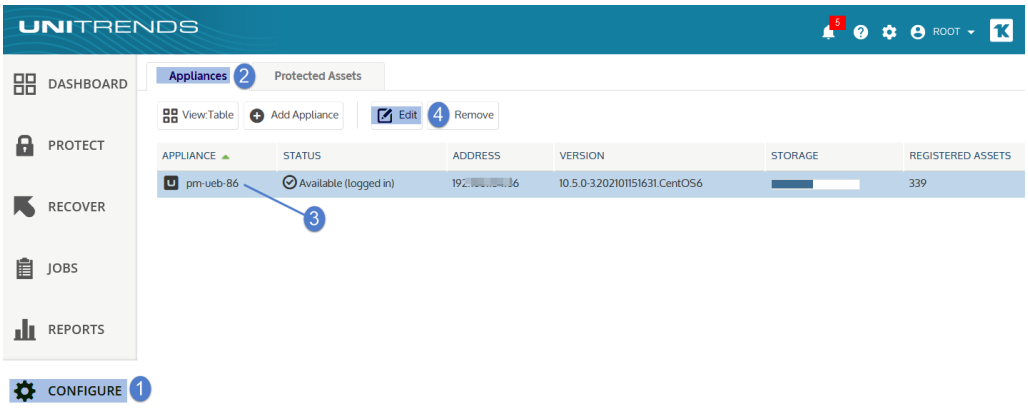
4 Complete and submit the applicable form.

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

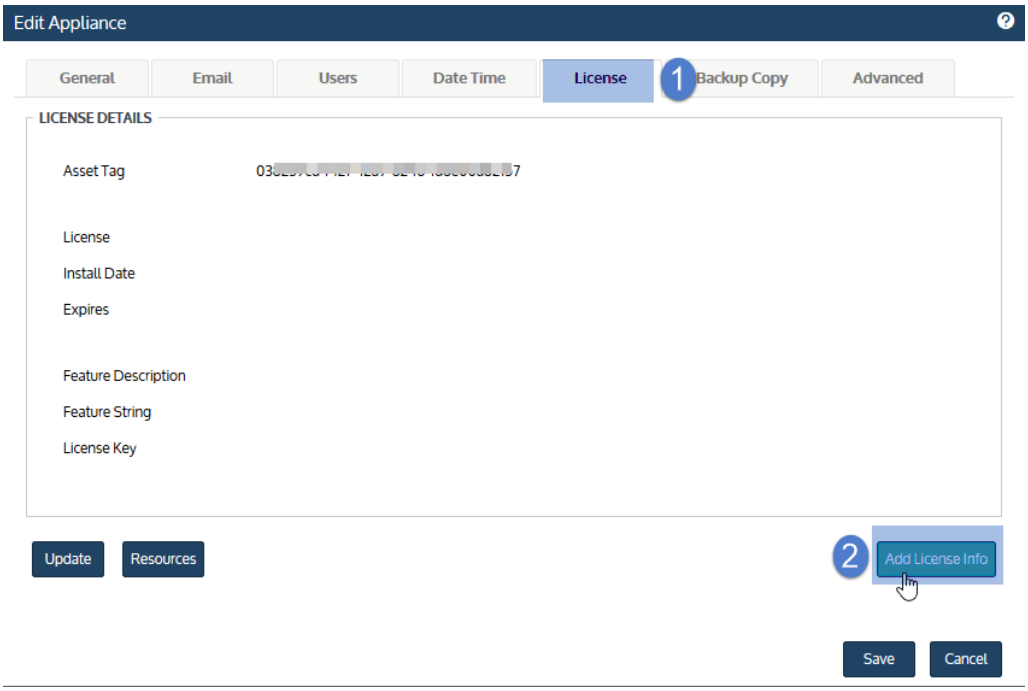
To license a Unitrends Backup appliance

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

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

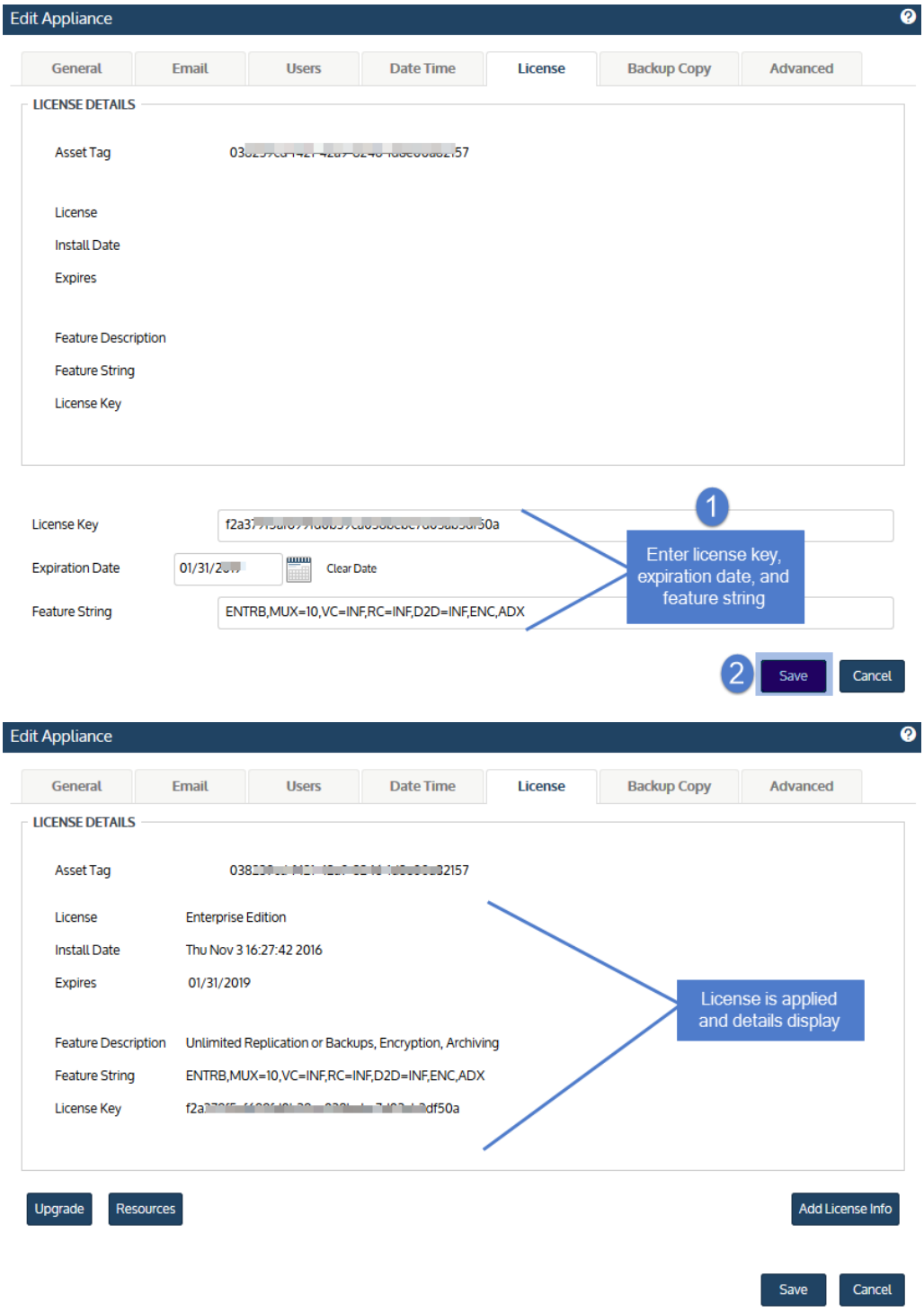


2 Select the **License** tab and click **Add License Info**.



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
License
Install Date
Expires
Feature Description
Feature String
License Key
License Key
Expiration Date
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
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
License is applied and details display
Upgrade
Resources
Add License Info
Save
Cancel

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