Upgrade ONTAP tools

ONTAP tools for VMware vSphere 10

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Upgrade ONTAP tools

Upgrade to the latest release of ONTAP tools

When you upgrade from ONTAP tools for VMware vSphere 10.0 and 10.1 to 10.1, a recovery volume is created and all the necessary details are taken into the recovery volume. The recovery volume can be used to recover the ONTAP tools for VMware vSphere setup if you need to recover your configuration. If you're performing a patch-level upgrade of ONTAP tools for VMware vSphere 10.1, the same recovery volume is used and the details are refreshed. Upgrade is supported for both HA and non-HA deployments.

Before you begin

You need to complete the following steps before proceeding with the upgrade task:

Enable Diagnostics

1. From vCenter Server, open a console to ONTAP tools.
2. Log in as the maintenance user.
3. Enter **4** to select Support and Diagnostics.
4. Enter **2** to select Enable remote diagnostic access.
5. Enter **y** to set the password of your choice.
6. Login to VM IP address from the terminal/putty with user as 'diag' and password that was set in the previous step.

Take Backup of MongoDB

Run the following commands to take a backup of mongoDB:

- kn exec -it ntv-mongodb-0 sh - kn is an alias of kubectl -n ntv-system.
- env | grep MONGODB_ROOT_PASSWORD - run this command inside the pod.
- 'exit' - run this to come out of the pod.
- kn exec ntv-mongodb-0 --mongodump -u root -p MONGODB_ROOT_PASSWORD --archive=/tmp/mongodb-backup.gz --gzip - run this command to replace MONGO_ROOT_PASSWORD set from above command.
- kn cp ntv-mongodb-0:/tmp/mongodb-backup.gz ./mongodb-backup.gz - run this command to copy the mongodb backup created using above command from pod to host.

Take the snapshot of all the volumes

- Run 'kn get pvc' command and save the output of the command.
- Take snapshots of all the volumes one by one using one of the following methods:
  - From CLI, run the command *volume snapshot create -vserver <vserver_name> -volume <volume_name> -snapshot <snapshot_name>*
  - From ONTAP system manager user interface search the volume by its name in the search bar then

open that volume by clicking on the name. Go to snapshot and add the snapshot of that volume.

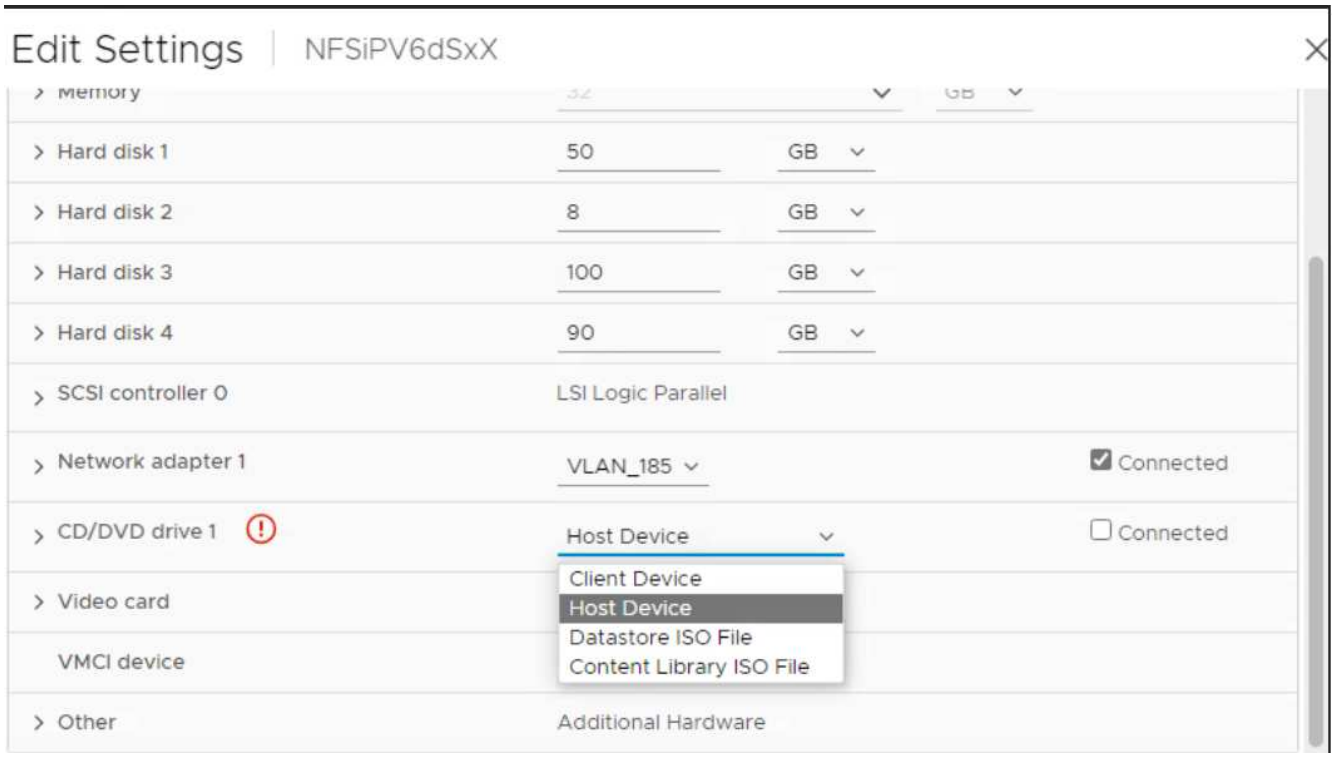
Take the snapshot of ONTAP tools for VMware vSphere VMs in vCenter (3VMs in case of HA Deployment, 1 VM in case of non-HA deployment)

- In the vSphere client user interface, select the VM.
- Go to the snapshots tab and click the **Take Snapshot** button.

From the log bundle, delete the completed pods with prefix “generate-support-bundle-job” before performing the upgrade. If support bundle generation is in progress, wait for it to complete and then delete the pod.

Steps

1. Upload ONTAP tools for VMware vSphere upgrade ISO to content library.
2. In the primary VM page, select **Actions** > **Edit Settings**
3. In the edit settings window under **CD/DVD drive** field select content library ISO file.
4. Select the ISO file and click **OK**. Choose the connected checkbox across the **CD/DVD drive** field.



5. From vCenter Server, open a console to ONTAP tools.
6. Log in as the maintenance user.
7. Enter **3** to select the System Configuration menu.
8. Enter **7** to select the upgrade option.
9. When you upgrade, the following actions are performed automatically:
   a. Certificate upgrade
   b. Remote plug-in upgrade

Upgrade error codes

You might encounter error codes during ONTAP tools for VMware vSphere upgrade operation. The error codes are five digits long, where the first two digits represent the script that encountered the issue, and the last three digits represent the specific workflow within that script.

All error logs are recorded in the ansible-perl-errors.log file to facilitate easy tracking and resolution of issues. This log file contains the error code and the failed Ansible task.

The error codes provided on this page are for reference only. Contact the support team if error persists or if there's no resolution mentioned.

The following table lists the error codes and the corresponding file names.

Error code	Script name
00	firstboot-network-config.pl, mode deploy
01	firstboot-network-config.pl, mode upgrade
02	firstboot-inputs-validation.pl
03	firstboot-deploy-otv-ng.pl, deploy, ha
04	firstboot-deploy-otv-ng.pl, deploy, non-ha
05	firstboot-deploy-otv-ng.pl, reboot
06	firstboot-deploy-otv-ng.pl, upgrade, ha
07	firstboot-deploy-otv-ng.pl, upgrade, non-ha
08	firstboot-otv-recovery.pl

The last three digits of the error code indicate the specific workflow error within the script:

Upgrade error code	Workflow	Resolution
063	Copying contents to recovery volume has failed	Perform snapshot-based recovery.
068	Debian packages rollback has failed	Perform snapshot-based recovery.
069	Failed restoring files	Perform snapshot-based recovery.
070	Failed deleting backup	Perform snapshot-based recovery.
071	Kubernetes cluster was not healthy	Perform snapshot-based recovery.
072	CR file does not exist in jail disk	Perform snapshot-based recovery.
073	Applying the CR failed while setting force reconcile flag to false	Perform snapshot-based recovery.
074	Mount ISO has failed	Retry the upgrade.
075	Upgrade pre-checks has failed	Retry the upgrade.

076	Registry upgrade has failed	Perform snapshot-based recovery.
077	Registry rollback has failed	Perform snapshot-based recovery.
078	Operator upgrade has failed	Perform snapshot-based recovery.
079	Operator rollback has failed	Perform snapshot-based recovery.
080	Services upgrade has failed	Perform snapshot-based recovery.
081	Services rollback has failed	Perform snapshot-based recovery.
082	Deleting old images from container failed	Perform snapshot-based recovery.
083	Deleting backup has failed	Perform snapshot-based recovery.
084	Changing JobManager back to Production failed	Perform snapshot-based recovery.
085	failed creating CA certificate secrets	Perform snapshot-based recovery.
086	failed creating server/private-key certificate secrets	Perform snapshot-based recovery.
087	Failed! to complete post 10.0 to 10.1 upgrade steps	Post upgrade steps failed.
088	Configuring log rotate for journald has failed	Retry the upgrade.

Learn more about How to restore ONTAP tools for VMware vSphere if upgrade fails from version 10.0 to 10.1

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