

Adding disk space to the Unified Manager database directory

Active IQ Unified Manager 9.8

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Adding disk space to the Unified Manager database directory

The Unified Manager database directory contains all of the health and performance data collected from ONTAP systems. Some circumstances may require that you increase the size of the database directory.

For example, the database directory may get full if Unified Manager is collecting data from a large number of clusters where each cluster has many nodes. You will receive a warning event when the database directory is 90% full, and a critical event when the directory is 95% full.



No additional data is collected from clusters after the directory reaches 95% full.

The steps required to add capacity to the data directory are different depending on whether Unified Manager is running on a VMware ESXi server, on a Red Hat or CentOS Linux server, or on a Microsoft Windows server.

Adding space to the data disk of the VMware virtual machine

If you need to increase the amount of space on the data disk for the Unified Manager database, you can add capacity after installation by increasing disk space using the Unified Manager maintenance console.

Before you begin

- You must have access to the vSphere Client.
- · The virtual machine must have no snapshots stored locally.
- You must have the maintenance user credentials.

About this task

We recommend that you back up your virtual machine before increasing the size of virtual disks.

Steps

1. In the vSphere client, select the Unified Manager virtual machine, and then add more disk capacity to data disk 3. See the VMware documentation for details.

In some rare cases the Unified Manager deployment uses "Hard Disk 2" for the data disk instead of "Hard Disk 3". If this has occurred in your deployment, increase the space of whichever disk is larger. The data disk will always have more space than the other disk.

- 2. In the vSphere client, select the Unified Manager virtual machine, and then select the Console tab.
- 3. Click in the console window, and then log in to the maintenance console using your user name and password.
- 4. In the Main Menu, enter the number for the System Configuration option.
- In the System Configuration Menu, enter the number for the Increase Data Disk Size option.

Adding space to the data directory of the Linux host

If you allotted insufficient disk space to the /opt/netapp/data directory to support Unified Manager when you originally set up the Linux host and then installed Unified Manager, you can add disk space after installation by increasing disk space on the /opt/netapp/data directory.

Before you begin

You must have root user access to the Red Hat Enterprise Linux or CentOS Linux machine on which Unified Manager is installed.

About this task

We recommend that you back up the Unified Manager database before increasing the size of the data directory.

Steps

- 1. Log in as root user to the Linux machine on which you want to add disk space.
- 2. Stop the Unified Manager service and the associated MySQL software in the order shown: systemctl stop ocieau ocie mysqld
- 3. Create a temporary backup folder (for example, /backup-data) with sufficient disk space to contain the data in the current /opt/netapp/data directory.
- 4. Copy the content and privilege configuration of the existing /opt/netapp/data directory to the backup data directory: cp -arp /opt/netapp/data/* /backup-data
- 5. If SE Linux is enabled:
 - a. Get the SE Linux type for folders on existing /opt/netapp/data folder:

```
se_type= ls -Z /opt/netapp/data | awk '{print $4}'| awk -F: '{print $3}'| head -1
```

The system returns a confirmation similar to the following:

```
echo $se_type
mysqld_db_t
```

- b. Run the chcon command to set the SE Linux type for the backup directory: chcon -R
 --type=mysqld db t /backup-data
- 6. Remove the contents of the /opt/netapp/data directory:

```
a. cd /opt/netapp/data
b. rm -rf *
```

 Expand the size of the /opt/netapp/data directory to a minimum of 750 GB through LVM commands or by adding extra disks.



8. Confirm that the /opt/netapp/data directory owner (mysql) and group (root) are unchanged: ls -ltr /opt/netapp/ | grep data

The system returns a confirmation similar to the following:

```
drwxr-xr-x. 17 mysql root 4096 Aug 28 13:08 data
```

- 9. If SE Linux is enabled, confirm that the context for the <code>/opt/netapp/data</code> directory is still set to mysqld_db_t:
 - a. touch /opt/netapp/data/abc
 - b. ls -Z /opt/netapp/data/abc

The system returns a confirmation similar to the following:

```
-rw-r--r-. root root unconfined_u:object_r:mysqld_db_t:s0 /opt/netapp/data/abc
```

- 10. Delete the file abc so that this extraneous file does not cause a database error in the future.
- 11. Copy the contents from backup-data back to the expanded /opt/netapp/data directory: cp -arp /backup-data/* /opt/netapp/data/
- 12. If SE Linux is enabled, run the following command: chcon -R --type=mysqld_db_t /opt/netapp/data
- 13. Start the MySQL service: systematl start mysqld
- 14. After the MySQL service is started, start the ocie and ocieau services in the order shown: systemctl start ocie ocieau
- 15. After all of the services are started, delete the backup folder /backup-data: rm -rf /backup-data

Adding space to the logical drive of the Microsoft Windows server

If you need to increase the amount of disk space for the Unified Manager database, you can add capacity to the logical drive on which Unified Manager is installed.

Before you begin

You must have Windows administrator privileges.

About this task

We recommend that you back up the Unified Manager database before adding disk space.

Steps

- 1. Log in as administrator to the Windows server on which you want to add disk space.
- 2. Follow the step that corresponds to method you want to use to add more space:

Option	Description
On a physical server, add capacity to the logical drive on which the Unified Manager server is installed.	Follow the steps in the Microsoft topic: Extend a Basic Volume
On a physical server, add a hard disk drive.	Follow the steps in the Microsoft topic: Adding Hard Disk Drives
On a virtual machine, increase the size of a disk partition.	Follow the steps in the VMware topic: Increasing the size of a disk partition

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