



# **Adding disk space to the Unified Manager database directory**

Active IQ Unified Manager 9.7

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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 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  
mysqlld_db_t
```

- b. Run the `chcon` command to set the SE Linux type for the backup directory: `chcon -R --type=mysqlld_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.



Mounting the `/opt/netapp/data` directory on an NFS or CIFS share is not supported.

7. 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
```

8. If SE Linux is enabled, confirm that the context for the `/opt/netapp/data` directory is still set to `mysqlld_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:mysqlld_db_t:s0  
/opt/netapp/data/abc
```

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

14. After all of the services are started, delete the backup folder `/backup-data`: `rm -rf /backup-data`

## 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 on `disk 3`.

### 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.
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.
5. In the **System Configuration Menu**, enter the number for the **Increase Data Disk Size** option.

## 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.	<div data-bbox="844 159 1485 296"> <p>Follow the steps in the Microsoft topic:</p> </div> <div data-bbox="844 327 1130 359"> <p><a href="#">Extend a Basic Volume</a></p> </div>
On a physical server, add a hard disk drive.	<div data-bbox="844 411 1485 548"> <p>Follow the steps in the Microsoft topic:</p> </div> <div data-bbox="844 579 1146 611"> <p><a href="#">Adding Hard Disk Drives</a></p> </div>
On a virtual machine, increase the size of a disk partition.	<div data-bbox="844 663 1485 800"> <p>Follow the steps in the VMware topic:</p> </div> <div data-bbox="844 831 1292 863"> <p><a href="#">Increasing the size of a disk partition</a></p> </div>

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