



## **Installing UFM Docker Container Mode**

# Table of contents

General Prerequisites

---

Prerequisites for Upgrading UFM Docker Container

---

Step 1: Loading UFM Docker Image

---

Step 2: Installing UFM Docker

---

Installation Command Usage

---

Installation Modes

---

## General Prerequisites

- MLNX\_OFED must be installed on the server that will run UFM Docker
- For UFM to work, you must have an InfiniBand port configured with an IP address and in "up" state.

### Note

For InfiniBand support, please refer to [NVIDIA Inbox Drivers](#) , or MLNX\_OFED guides.

- Make sure to stop the following services before running UFM Docker container, as it utilizes the same default ports that they do: Pacemaker, httpd, OpenSM, and Carbon.
- If firewall is running on the host, please make sure to add an allow rule for UFM used ports (listed below):

### Note

If the default ports used by UFM are changed in UFM configuration files, make sure to open the modified ports on the host firewall.

- 80 (TCP) and 443 (TCP) are used by WS clients (Apache Web Server)
- 8000 (UDP) is used by the UFM server to listen for REST API requests (redirected by Apache web server)
- 6306 (UDP) is used for multicast request communication with the latest UFM Agents

- 8005 (UDP) is used as a UFM monitoring listening port
- 8888 (TCP) is used by DRBD to communicate between the UFM Primary and Standby servers
- 2022 (TCP) is used for SSH

## Prerequisites for Upgrading UFM Docker Container

- Supported versions for upgrade are UFM v.6.10.0 and above.
- UFM files directory from previous container version mounted on the host.

## Step 1: Loading UFM Docker Image

To load the UFM docker image, pull the latest image from docker hub:

```
docker pull mellanox/ufm-enterprise:latest
```

### Note

You can see full usage screen for ufm-installation by running the container with -h or -help flag:

```
docker run --rm mellanox/ufm-enterprise-installer:latest -h
```

If an Internet connection is not available, perform the following:

- Copy the UFM image to your machine.
- Load the image from the file using this command:

```
docker image load -i <image-path>
```

## Step 2: Installing UFM Docker

### Installation Command Usage

```
docker run -it --name=ufm_installer --rm \  
-v /var/run/docker.sock:/var/run/docker.sock \  
-v /etc/systemd/system:/etc/systemd_files/ \  
-v /opt/ufm/files:/installation/ufm_files/ \  
-v [LICENSE_DIRECTORY]:/installation/ufm_licenses/ \  
mellanox/ufm-enterprise:latest \  
--install [OPTIONS]
```

Modify the variables in the installation command as follows:

- [UFM\_LICENSES\_DIR]: UFM license file or files location.

#### Note

Example: If your license file or files are located under  
/downloads/ufm\_license\_files/ then you must set this volume to be -v  
/downloads/ufm\_license\_files:/installation/ufm\_licenses/

- [OPTIONS]: UFM installation options. For more details see the table below.

### Command Options

| Flag                        | Description                   | Default Value |
|-----------------------------|-------------------------------|---------------|
| -f   --fabric-interface     | IB fabric interface name.     | ib0           |
| -g   --mgmt-interface       | Management interface name.    | eth0          |
| -h   --help                 | Show help                     | N/A           |
| -m   --multisubnet-consumer | UFM Multisubnet Consumer mode | N/A           |

# Installation Modes

UFM Enterprise installer supports several deployment modes:

- [Installing UFM on Docker Container - High Availability Mode](#)
- [Installing UFM on Docker Container - Standalone Mode](#)

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