

Software Installation Guide

Dell

Installing flexAlserver

This guide describes two methods for installing the **flexAlserver** software on a supported Dell PowerEdge server:

- **Method A:** Installation from a bootable USB drive
- **Method B:** Remote installation using Dell iDRAC Virtual Console and Virtual Media

Both methods use the same flexAlserver installation image. Once the installer has started, the remaining installation procedure is identical.

Prerequisites

Before starting the installation, make sure the following are available:

- flexAlserver ISO image. The ISO may be supplied inside a ZIP archive and must be extracted before use.
- Access to the Dell PowerEdge server.

For **Method A - USB**, you also need:

- A USB flash drive
- Physical access to the server
- A keyboard and, if required, a local display

For **Method B - iDRAC**, you need:

- Access to the Dell iDRAC interface
- Permission to use **Virtual Console** and **Virtual Media**

Important - Installing flexAlserver erases the selected target disk. Make sure that the correct server and target disk have been selected before continuing.

Method A – USB Drive

1. Create a Bootable USB Drive

Use a suitable image-writing tool such as **balenaEtcher** to write the flexAlserver ISO image to a USB flash drive:

<https://www.balena.io/etcher/>

Important - Writing the ISO image erases all existing data on the USB drive.

When the USB drive is ready:

1. Insert it into a USB port on the server.
2. Connect a keyboard.
3. Power on or restart the server.

2. Open the Boot Manager

During server startup, press **F11** to open the Dell Boot Manager.



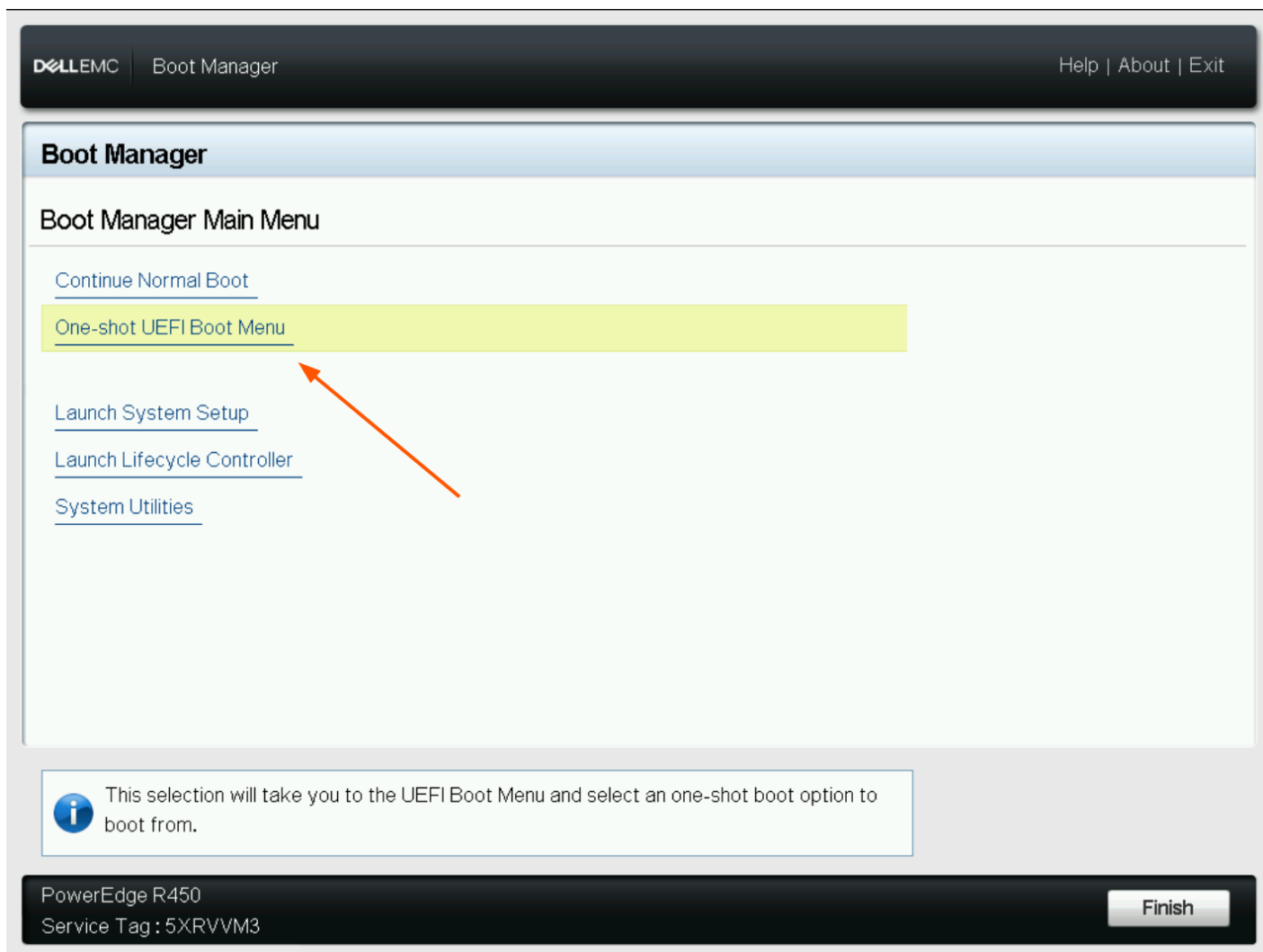
The screenshot shows a dark blue boot screen with white text. On the left, a list of function keys is displayed: F2 = System Setup, F10 = Lifecycle Controller (Config iDRAC, Update FW, Install OS), F11 = Boot Manager, and F12 = PXE Boot. On the right, system information for a PowerEdge R450 is shown, including BIOS Version: 1.8.2, iDRAC IPv4: 10.110.1.68 [Dedicated], and iDRAC IPv6: FDDF:2B27:43BB:DFB0:71E7:4386:FF49:B9E0 [Dedicated].

F2 = System Setup	PowerEdge R450
F10 = Lifecycle Controller (Config iDRAC, Update FW, Install OS)	BIOS Version: 1.8.2
F11 = Boot Manager	iDRAC IPv4: 10.110.1.68 [Dedicated]
F12 = PXE Boot	iDRAC IPv6: FDDF:2B27:43BB:DFB0:71E7:4386:FF49:B9E0 [Dedicated]

Dell PowerEdge boot screen - press F11 to open the Boot Manager.

3. Open the One-shot UEFI Boot Menu

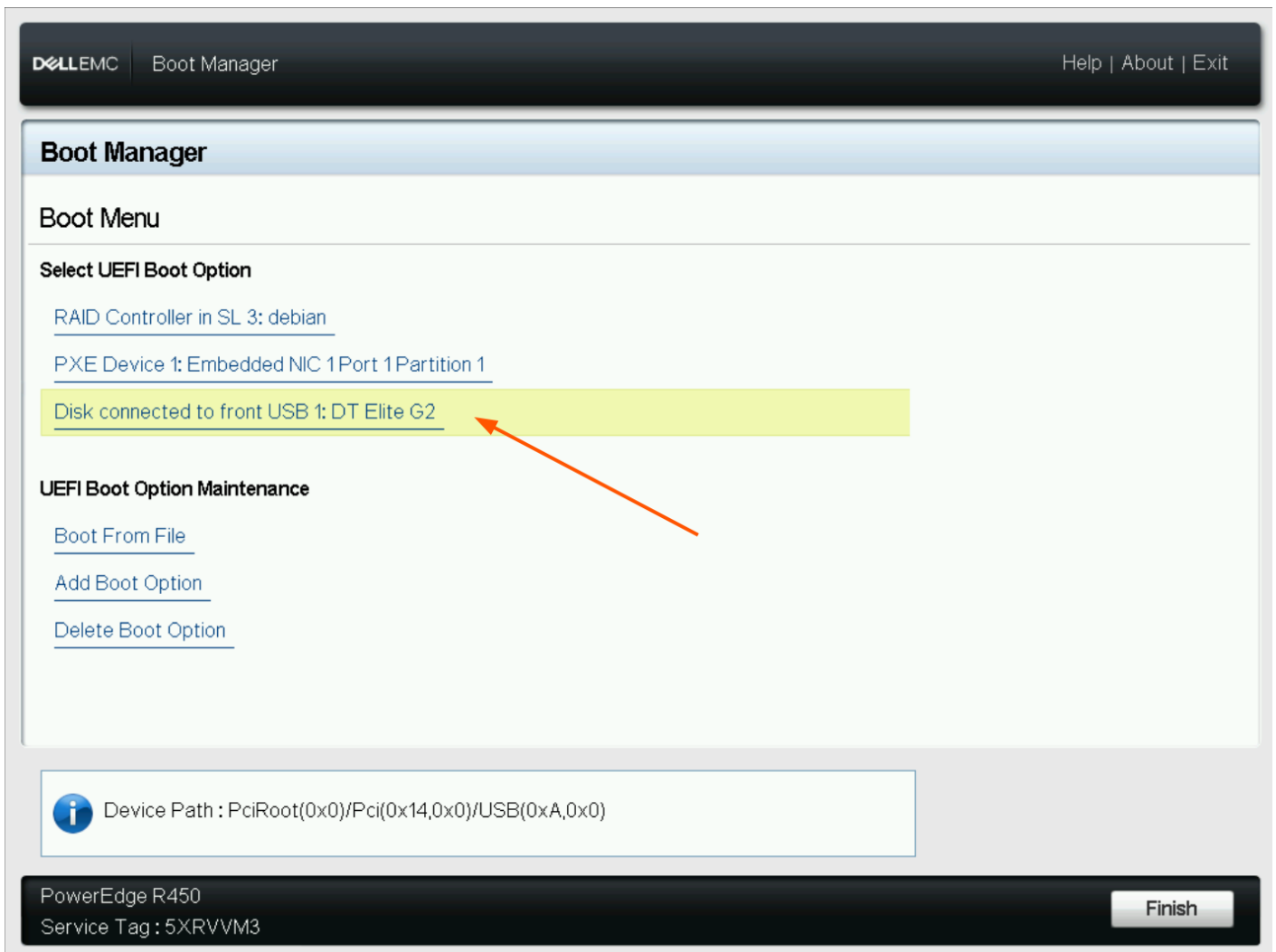
Select **One-shot UEFI Boot Menu**.



Boot Manager - select One-shot UEFI Boot Menu.

4. Select the USB Drive

In the UEFI boot list, select the entry corresponding to the connected USB drive.



Select the USB installation drive. USB installation only.

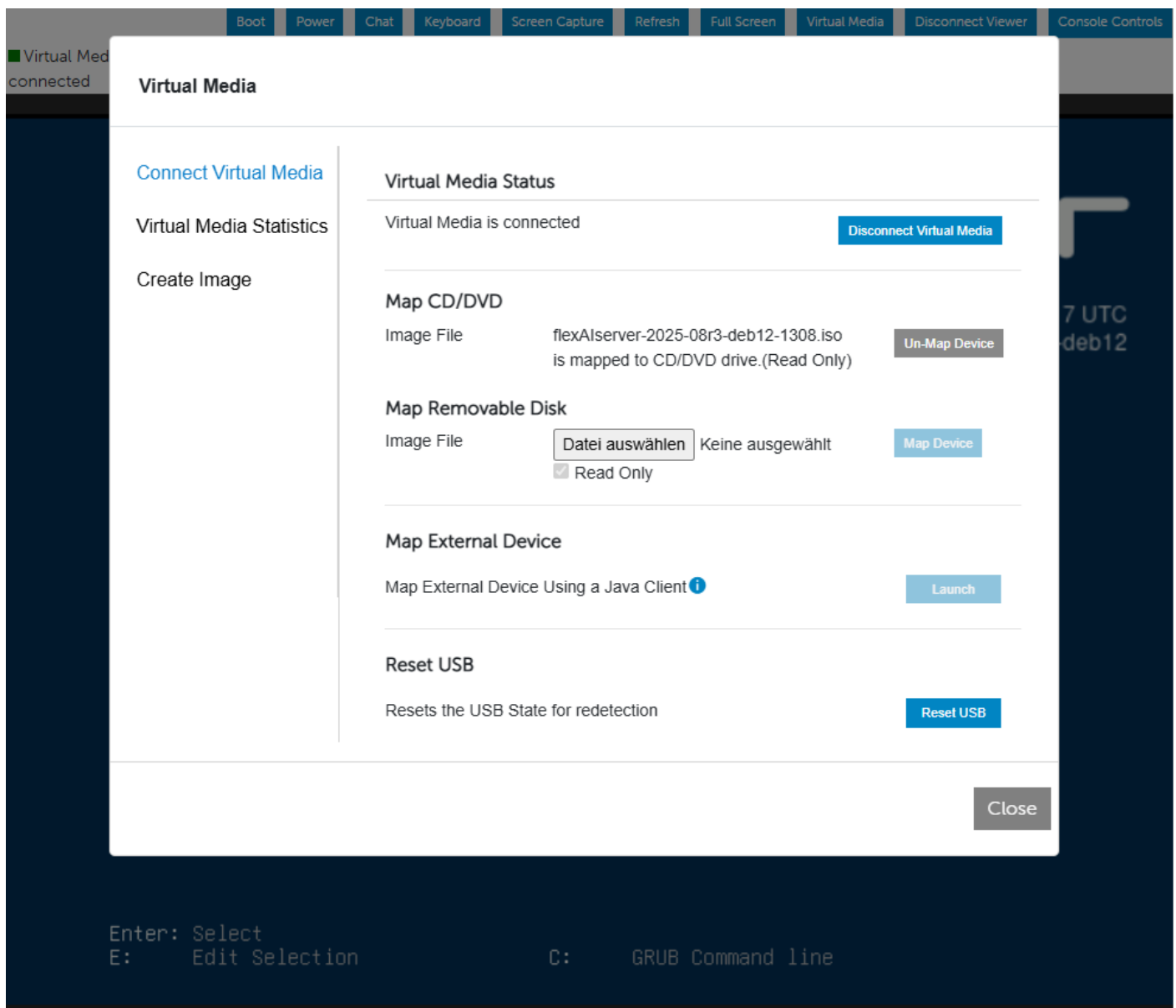
Continue with **Common Installation Steps** below.

Method B – Dell iDRAC Virtual Media

1. Map the ISO as Virtual Media

Open the Dell **iDRAC Virtual Console**.

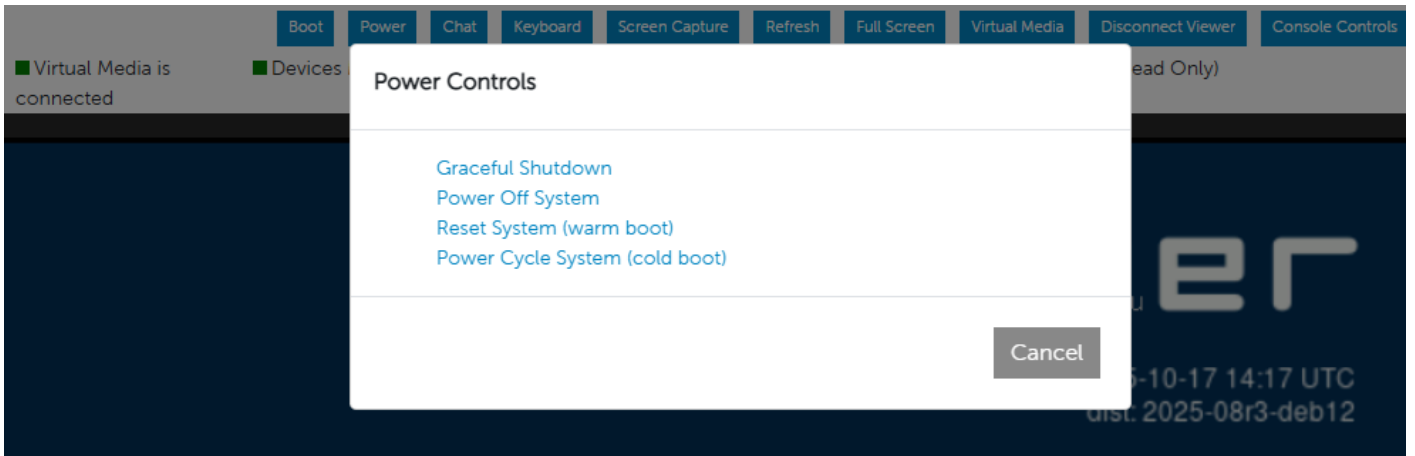
In the Virtual Console, open **Virtual Media** and map the flexAlserver ISO image as a virtual CD/DVD.



iDRAC - flexAlserver ISO mapped as Virtual CD/DVD. iDRAC installation only.

2. Restart the Server

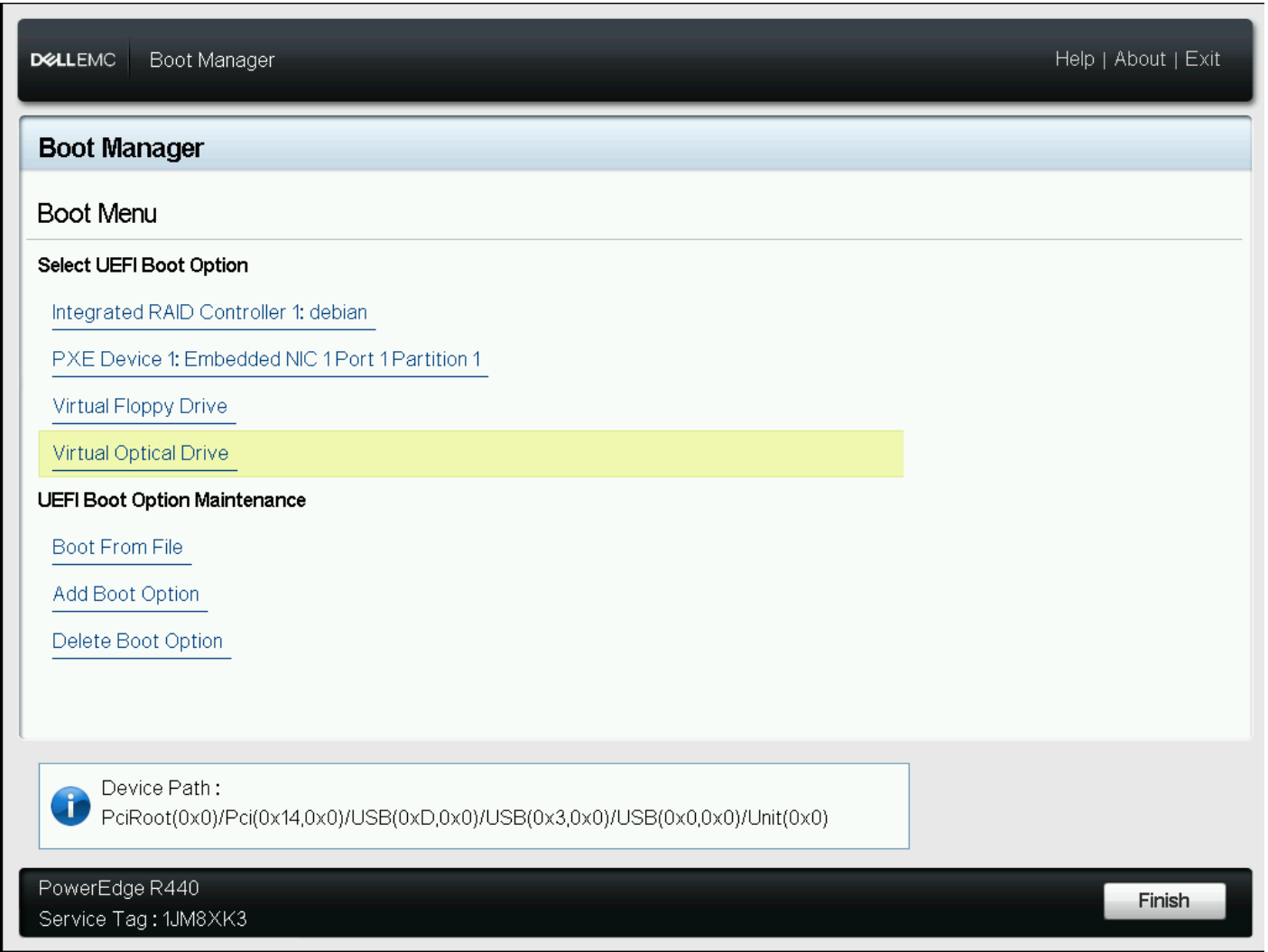
From iDRAC, select **Power > Reset System (warm boot)** to restart the server and make the virtual installation media available during boot.



iDRAC - restart the server using **Reset System (warm boot)**. iDRAC installation only.

3. Boot from the Virtual Optical Drive

During startup, open the **Boot Manager**, select **One-shot UEFI Boot Menu**, and then select **Virtual Optical Drive**.



Boot from **Virtual Optical Drive**. iDRAC installation only.

Continue with **Common Installation Steps** below.

Common Installation Steps

The following steps are identical for USB and iDRAC installations.

1. Start the Installer

In the GRUB menu, select **Graphical install** and press **Enter**.



GRUB - select Graphical install. Applies to both installation methods.

2. Set the Host Name

When prompted, enter the host name to be used by the flexAlserver.

For a Jünger Audio pre-configured system, the host name can follow the device serial number, for example:

flexAlserver-00119

Alternatively, use a suitable host name according to the naming conventions of your network environment.

A screenshot of the Debian 11 network configuration window. The window has a dark blue header with the Debian logo and 'debian 11'. Below the header, the title 'Configure the network' is displayed. The main content area contains instructions: 'Please enter the hostname for this system. The hostname is a single word that identifies your system to the network. If you don't know what your hostname should be, consult your network administrator. If you are setting up your own home network, you can make something up here.' Below this, the label 'Hostname:' is followed by a text input field containing 'flexAlserver-'. At the bottom of the window, there are three buttons: 'Screenshot', 'Go Back', and 'Continue'.

Enter the host name for the flexAlserver. Applies to both installation methods.

3. Select the Target Disk

Select the internal system disk on which flexAlserver should be installed.

On Dell PowerEdge systems with a PERC RAID controller, the internal storage may appear with a name such as **DELL PERC**.

For USB installations, make sure that you do **not** select the USB installation drive.

Partition disks

Note that all data on the disk you select will be erased, but not before you have confirmed that you really want to make the changes.

Select disk to partition:

SCSI1 (2,0,0) (sda) - 479.6 GB DELL PERC H355 Front

SCSI12 (0,0,0) (sdb) - 31.0 GB Kingston DT Elite G2

Screenshot

Go Back

Continue

Select the internal system disk. Do not select the USB installation drive. Applies to both installation methods.

Important - All existing data on the selected target disk will be erased during installation. Verify the selected disk carefully before continuing.

4. Complete the Installation

Allow the installer to complete the installation process.

Finish the installation



Installation complete

Installation is complete, so it is time to boot into your new system. Make sure to remove the installation media, so that you boot into the new system rather than restarting the installation.

Screenshot

Go Back

Continue

Installation complete. Applies to both installation methods.

Before rebooting:

- **USB installation:** Remove the USB installation drive.
- **iDRAC installation:** Unmap or disconnect the virtual installation media.

Restart the server and allow it to boot from the newly installed system disk.

Continue with the **Initial Setup** procedure to complete the flexAlserver configuration.

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