### Install the AMD-RAID drivers during an Ubuntu Desktop Linux Installation

**NOTE**: Prior to starting this procedure, obtain the AMD-RAID drivers from your system supplier or motherboard vendor.

Copy the AMD-RAID drivers to a **dd** directory on a USB flash drive. See Copy AMD-RAID drivers: Linux.

**NOTE**: The Ubuntu driver CD-ROM .iso image contains all Linux variations for a particular release.

**NOTE**: Not all of the windows indicated in this procedure will appear during the installation.

1. Power-on the system.
2. Remove the **Ethernet cable** from the system.
3. Insert the Ubuntu Desktop Linux operating system CD-ROM or DVD into the system’s CD or DVD drive.
4. Boot to the Ubuntu Desktop CD-ROM, DVD or USB Flash drive, this will bring you to the GNU Grub Window
   * Select **Ubuntu**
   * Press the **E** key

At the end of the Boot Options linux string add the following:

* + **Type: break=mount modprobe.blacklist=ahci,nvme**

**Note:** The string should look like:   
**splash --- break=mount modprobe.blacklist=ahci,nvme**

* + Press **F10**

**NOTE**: If the BusyBox shell does not appear (the screen is black) reset and try with the settings below

* + **Type: break=mount modprobe.blacklist=ahci,nvme nomodeset**

**Note:** The string should look like:   
**splash --- break=mount modprobe.blacklist=ahci,nvme nomodeset**

* + Press **F10**

1. When the BusyBox shell appears do the following:
   * Insert the USB flash drive
   * Type: **mount –t vfat /dev/sdb1 /tmp**

**Note:** /dev/sdb1 may need to be changed to /dev/sdc1 or /dev/sdd1…depending on the number of devices.

* + Type: **cp –ap /tmp/dd /**
  + Type: **/dd/pre\_install**
  + Type: **umount /tmp**
  + Type: **exit**
  + Remove the USB flash drive

1. Wait patiently for the **Install, Welcome** screen to appear.

* Click the **Install Ubuntu**

1. From the **Keyboard layout** window
   * Select the desired **Language**

* Click **Continue**

1. From the **Updates and Other Software** Window
   * Select **Normal Installation**
   * Click **Continue**
2. From the **Installation Type** Window
   * Select **Erase Disk and install Ubuntu**

* Click **Install Now**

1. From the **Write Changes to Disks?** window
   * Click **Continue**
2. Select the desired **Time Zone**

* Click **Continue**

1. Enter valid entries for the following:
   * **Your name**
   * **Computer name**
   * **Username**
   * **Password**
   * **Confirm Password**
   * Click **Continue**
2. When the **“Installation Complete”** window appears, do the following:
   * Press **CTRL+ALT+F2**
   * From the **Ubuntu Login** prompt

Enter: **ubuntu**, then press **Enter**

If asked for a password, press **Enter**, with no password entered

* + Insert the USB flash drive used above
  + Enter: **sudo mount –t vfat /dev/sdb1 /mnt**

**Note:** /dev/sdb1 may need to be changed to /dev/sdc1 or /dev/sdd1…depending on the number of devices.

* + Enter: **sudo cp –ap /mnt/dd /**
  + Enter: **sudo /dd/post\_install**

1. Wait for the **Setup is Complete**

* Press **CTRL+ALT+F1**
  + Click **Restart Now**, to finish the installation
  + remove the installation media
  + remove the USB flash drive from the system.
* When installation media has been removed
* Press **Enter** or **Reboot** the system.

1. Reconnect the **Ethernet Cable**

### Install the AMD-RAIDXpert2 Management Application

1. Contact your system supplier or motherboard vendor to obtain the new AMD-RAID Linux Management Application.
2. Copy the AMD-RAID 9.3.0-00xyz\_linux\_raidxpert2.tgz to a USB flash drive.
3. Insert a USB flash drive containing the AMD-RAID 9.3.0-00xyz\_linux\_raidxpert2.tgz package.
4. Click / open **Files**
   * Select the USB that was inserted above
   * Locate and select the AMD-RAID 9.3.0-00xyz\_linux\_raidxpert2.tgz package and drag it to the **/home** section
5. Install the AMD RAIDXpert2 Management Application
   * Open a **Terminal** session
   * cd to the location of the AMD-RAID 9.3.0-00xyz\_linux\_raidxpert2.tgz package
   * Enter – **sudo tar xzvf 9.3.0-00xyz\_linux\_raidxpert2.tgz -C /opt**
6. To open the AMD-RAID RAIDXpert2 Management Application
   * Open a **Terminal** session
   * Enter – **cd /opt/raidxpert2/bin**
   * Enter – **sudo bash**
   * Enter – ./**RAIDXpert2 &**

### Ubuntu – update drivers or resync with an updated Ubuntu kernel

1. If not already done, complete Section 2 to get the latest AMD-RAID driver\_sdk.
2. Open a **Terminal** session
   1. Network must be enabled, configured and connected.
   2. Enter – **sudo apt-get update**
   3. Enter – **sudo apt-get install -y build-essential**

**Warning:** If the systems kernel version has been updated, perform step 3 before the system is rebooted, failing to do so may result in the system failing to boot.

1. Change directory to the RAIDXpert2 driver\_sdk directory and enter the following:

* **cd /opt/raidxpert2/driver\_sdk**
* **sudo ./install**

1. Wait for command to complete.
2. Reboot the System.

### Ubuntu – update the AMD-RAIDXpert2 Management Application

1. Contact your system supplier or motherboard vendor to obtain the new AMD-RAID Linux Management Application.
2. Copy the AMD-RAID 9.3.0-00xyz\_linux\_raidxpert2.tgz to a USB flash drive.
3. Insert a USB flash drive containing the AMD-RAID 9.3.0-00xyz\_linux\_raidxpert2.tgz package.
4. Click / open **Files**
   * Select the USB that was inserted above
   * Locate and select the AMD-RAID 9.3.0-00xyz\_linux\_raidxpert2.tgz package and drag it to the **/home** section
5. Install the AMD RAIDXpert2 Management Application
   * Open a **Terminal** session
   * cd to the location of the AMD-RAID 9.3.0-00xyz\_linux\_raidxpert2.tgz package
   * Enter – **sudo tar xzvf 9.3.0-00xyz\_linux\_raidxpert2.tgz -C /opt**
6. To open the AMD-RAID RAIDXpert2 Management Application
   * Open a **Terminal** session
   * Enter – **cd /opt/raidxpert2/bin**
   * Enter – **sudo bash**
   * Enter – ./**RAIDXpert2 &**