

SSD6200 Data RAID Linux Installation Guide

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Overview

This guide includes important hardware/software requirements, installation procedures, and troubleshooting tips for using SSD6202, SSD6204 NVMe RAID controllers with a Linux operating system.

Prerequisites

This section describes the base hardware and software requirements for the SSD6202, SSD6204 NVMe RAID Controllers.

Management Software Installation

This section explains how to download and install the SSD6202, SSD6204 RAID Management Software Suite for Linux distributions. The download includes both the Web RAID Management Interface (WebGUI), and the CLI (Command Line Interface).

Troubleshooting

Please consult this section if you encounter any difficulties installing or using the SSD6202, SSD6204 NVMe RAID controllers. It includes solutions and description for commonly reported technical issues.

Prerequisites for a Data-RAID Configuration

Though primarily designed to support bootable NVMe RAID volumes, the SSD6202, SSD6204 controllers can be used to support data-only NVMe storage configurations. In order to configure a non-bootable NVMe RAID array, you will need the following:

1. **An NVMe SSD must be installed.** You must have at least one NVMe SSD installed into the SSD6202, 6204 RAID controller.
2. **A PCIe 3.0/4.0 slot with x8 or x16 lanes.**
3. **Make sure any HighPoint NVMe drivers are uninstalled.** It may prevent the SSD6200 from functioning properly.

Installing the HighPoint RAID Management Software (WebGUI & CLI)

This guide provides an overview of the Web-RAID Management graphical user interface, also known as the WebGUI. The WebGUI is an intuitive, yet comprehensive management tool designed for users of any experience level.

Download the latest software package from the HighPoint website:

SSD6202/6204:

https://www.highpoint-tech.com/USA_new/series-ssd6200-overview.html

Using the system terminal with root privileges, browse to the directory where the driver download, and enter the following commands to extract the management software package:

tar zxvf RAID_Manage_Linux_vx.x.xx_xx_xx_xx.tgz

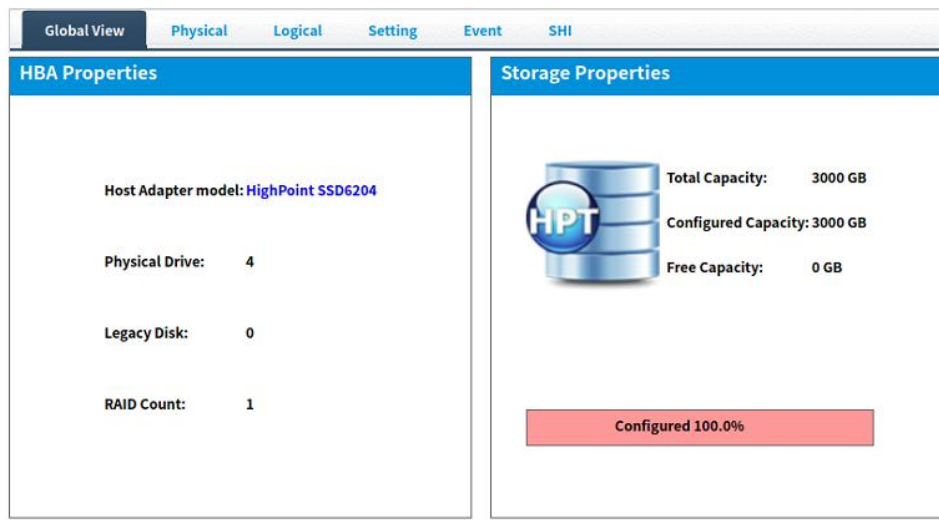
```
root@test-X299-UD4-Pro:/home/test/Documents# tar zxvf RAID_Manage_Linux_v2.4.1_21_04_23.tgz
HPT_CLI_Guide.pdf
README.txt
RAID_Manage_Linux_v2.4.1_21_04_20.bin
```

1. Install the HighPoint RAID management software (WebGUI & CLI) using the following command:

./RAID_Manage_Linux_vx.x.xx_xx_xx_xx.bin

```
root@2:/home/test/Documents# ./RAID_Manage_Linux_v2.4.1_21_04_20.bin
-----
Install .....
Package readline lib is already installed!
readline/hptsvr_2.4.1_amd64.deb will be installed!
Selecting previously unselected package hptsvr.
(Reading database ... 184603 files and directories currently installed.)
Preparing to unpack .../hptsvr_2.4.1_amd64.deb ...
Unpacking hptsvr (2.4.1) ...
Setting up hptsvr (2.4.1) ...
Starting hptsvr daemon.
Clean .....
Finish .....
root@2:/home/test/Documents#
```

2. After the software is installed, open the WebGUI to make sure it can connect to the SSD6200 series RAID controller.
3. You can also check the controller using the CLI (command line interface). Using the system terminal, enter the following command: **hptraidconf**
4. If the WebGUI/CLI can connect to the controller and recognized the NVMe SSD's, the driver has been installed and is functioning normally:



Uninstalling the HighPoint RAID Management Software (WEBGUI & CLI)

Open the system terminal with root privileges. Enter the following commands to uninstall the driver:

dpkg -r hptsvr (or rpm -e hptsvr-https)

```
root@test-X570-AORUS-MASTER:/home/test# dpkg -r hptsvr
(Reading database ... 226781 files and directories currently installed.)
Removing hptsvr (2.4.1) ...
root@test-X570-AORUS-MASTER:/home/test#
```

Enter the following command to check if the WebGUI has been removed successfully:

hptraidconf

after uninstall:

```
root@test-X299-UD4-Pro:/home/test/Desktop# hptraidconf
hptraidconf: command not found
root@test-X299-UD4-Pro:/home/test/Desktop#
```

Troubleshooting

WebGUI

1. The WebGUI fails to install

If you use an Ubuntu system, the system may prompt you about the lack of a **readline7** package when installing the WebGUI – this will interrupt the installation process.

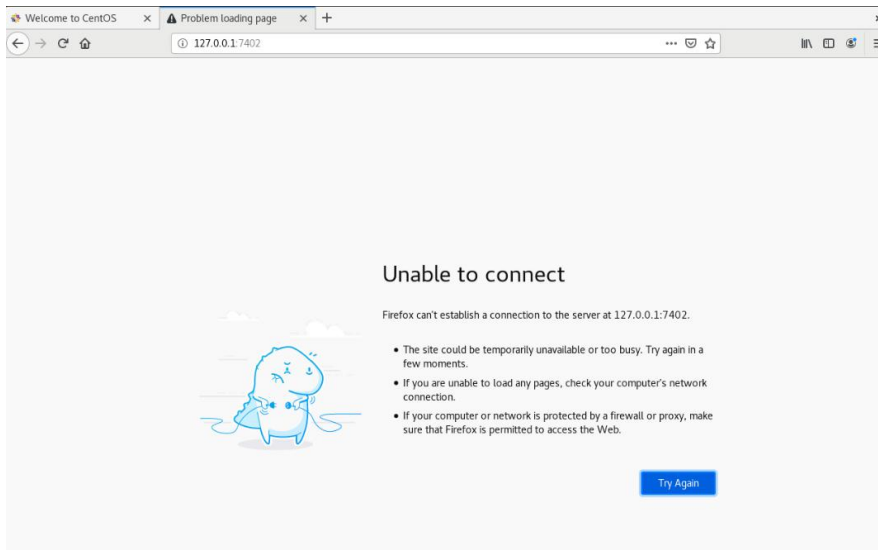
```
root@test-PRIME-Z390-A:/home/test/Downloads# sh RAID_Manage_Linux_v2.3.14_17_07_26.bin
-----
Install .....
Package readline lib not found! will be installed!
Install paran error!
Clean .....
Finish .....
```

Solution:

- a. With root permissions enabled, you can use the following command to load **readline7** at using a terminal, and will be allowed to install the WebGUI:
apt-get install libreadline7
- b. Once complete, restart the WebGUI installation procedure.

2. The WebGUI cannot connect to the controller

If you are unable to access the SSD6200 series RAID controller or enclosure using the WebGUI:



- a. **WebGUI service did not start successfully.**

Solution:

Start the WebGUI by opening the system terminal with root privileges and entering the following command:

hptsvr

- b. **The hardware is not recognized by Linux.**

The figure shows that the hardware is correctly recognized.

lspci |grep Marvell

```
root@test-X570-AORUS-MASTER:/home/test# lspci |grep Marvell
01:00.0 Non-Volatile memory controller: Marvell Technology Group Ltd. 88NR2241 Non-Volatile memory controller (rev 20)
root@test-X570-AORUS-MASTER:/home/test#
```

If the interface does not display “Marvell Technology Group Ltd. 88NR2241”, then the motherboard does not recognize the SSD6200.

- a. Power down the system, and make sure the SSD6200 controller is securely installed into the PCIe slot.

If you experience any other WebGUI or CLI related problems, please submit a support ticket using our [Online Support Portal](#), which includes a description of the problem in as much detail as possible, and upload the following: