

How to use a partition of a disk as a Dedicated Drive for ZoneMinder, v1.31.46. on Ubuntu 18.04 LTS Computer

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This post explains how to use a partition of a disk of a PC to store zoneminder events instead of saving on the computer (At /var/cache/zoneminder/events).

To enable to write data of zoneminder to the partition of the drive , It is necessary to mount the usb drive on the file system of the PC .

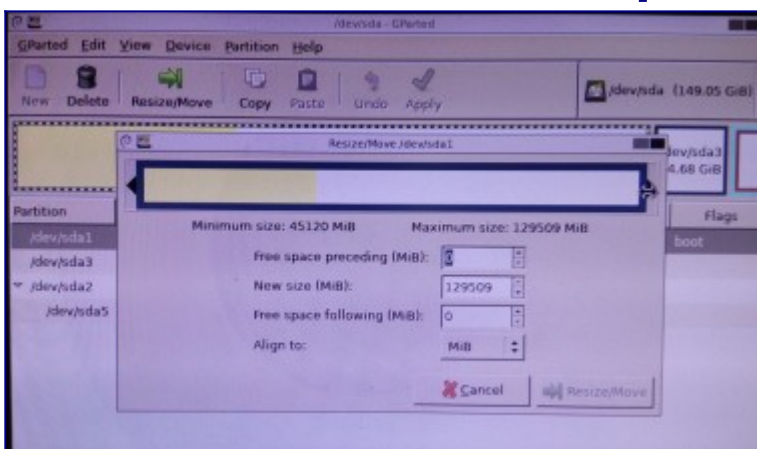
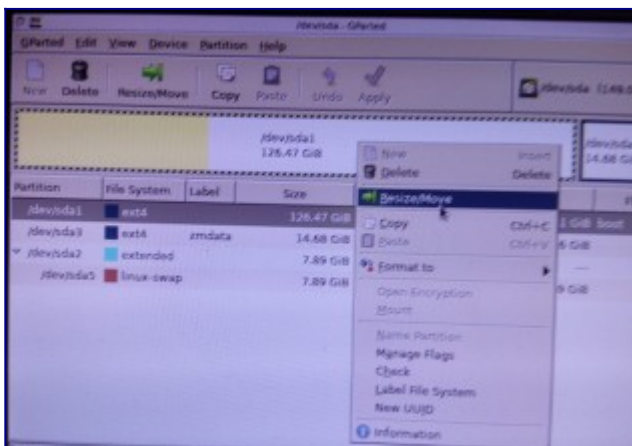
For the installation details of Zoneminder please refer my [earlier post](#)

For the latest details please refer the following site

[How to use a partition of a disk as a Dedicated Drive for ZoneMinder](#)

First make a partition of the disk and formatted it to ext4 .

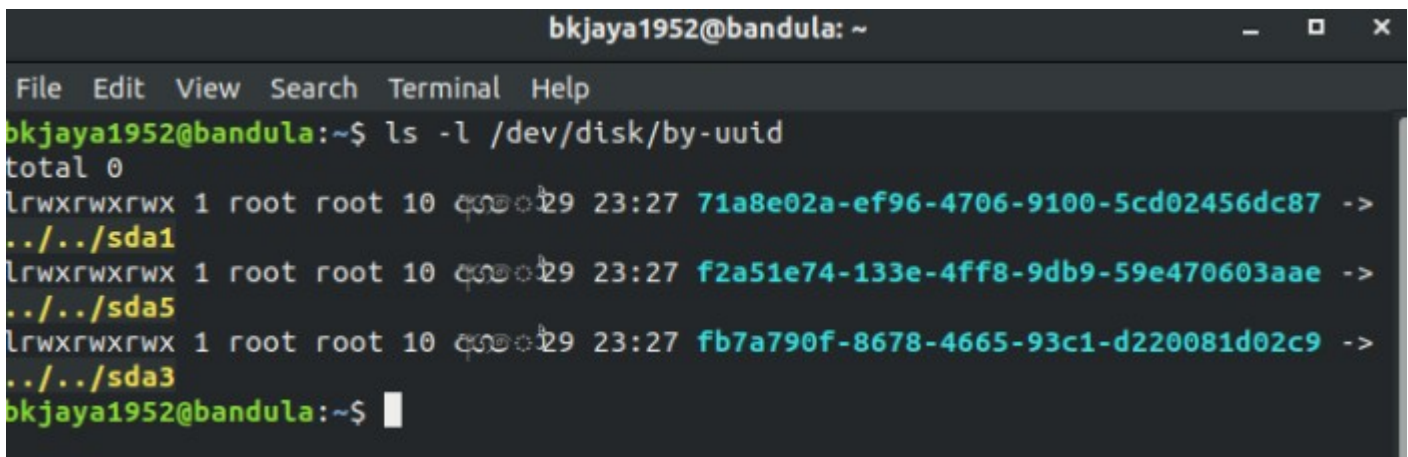
For partitioning , It is easy to use GParted-LiveCD Ref <https://gparted.org/download.php> (You will have to download GParted live and write it to a cd)



After rebooting you will be able to see the partition using following methods

Open the Ubuntu terminal

ls -l /dev/disk/by-uuid



```
bkjaya1952@bandula: ~  
File Edit View Search Terminal Help  
bkjaya1952@bandula:~$ ls -l /dev/disk/by-uuid  
total 0  
lrwxrwxrwx 1 root root 10 2023-09-29 23:27 71a8e02a-ef96-4706-9100-5cd02456dc87 ->  
../sda1  
lrwxrwxrwx 1 root root 10 2023-09-29 23:27 f2a51e74-133e-4ff8-9db9-59e470603aae ->  
../sda5  
lrwxrwxrwx 1 root root 10 2023-09-29 23:27 fb7a790f-8678-4665-93c1-d220081d02c9 ->  
../sda3  
bkjaya1952@bandula:~$
```

Figure 1 :-Getting details of disk using the Ubuntu terminal (ls -l /dev/disk/by-uuid)

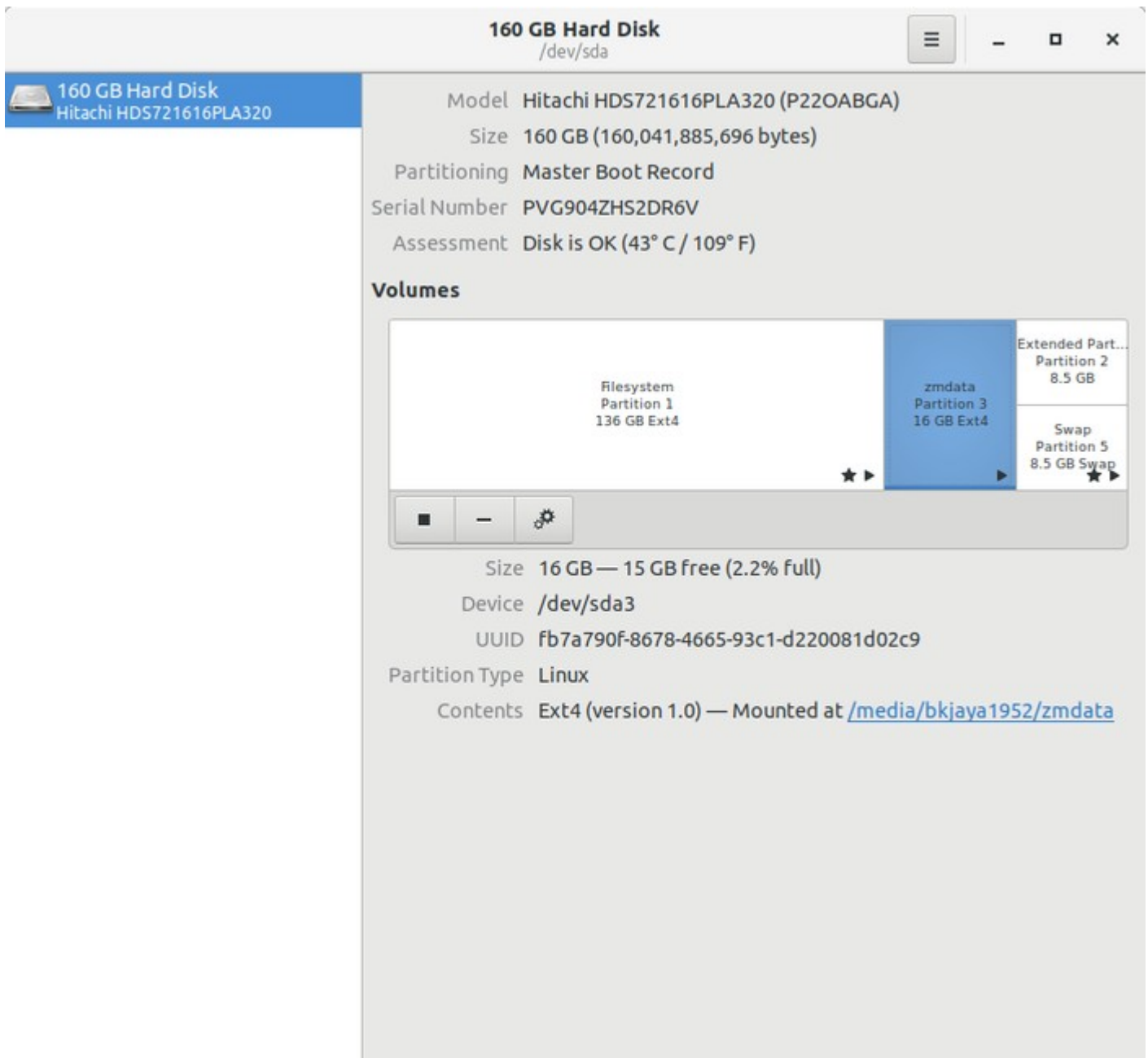


Figure 2:- Getting details of disk using gnome-disk-utility

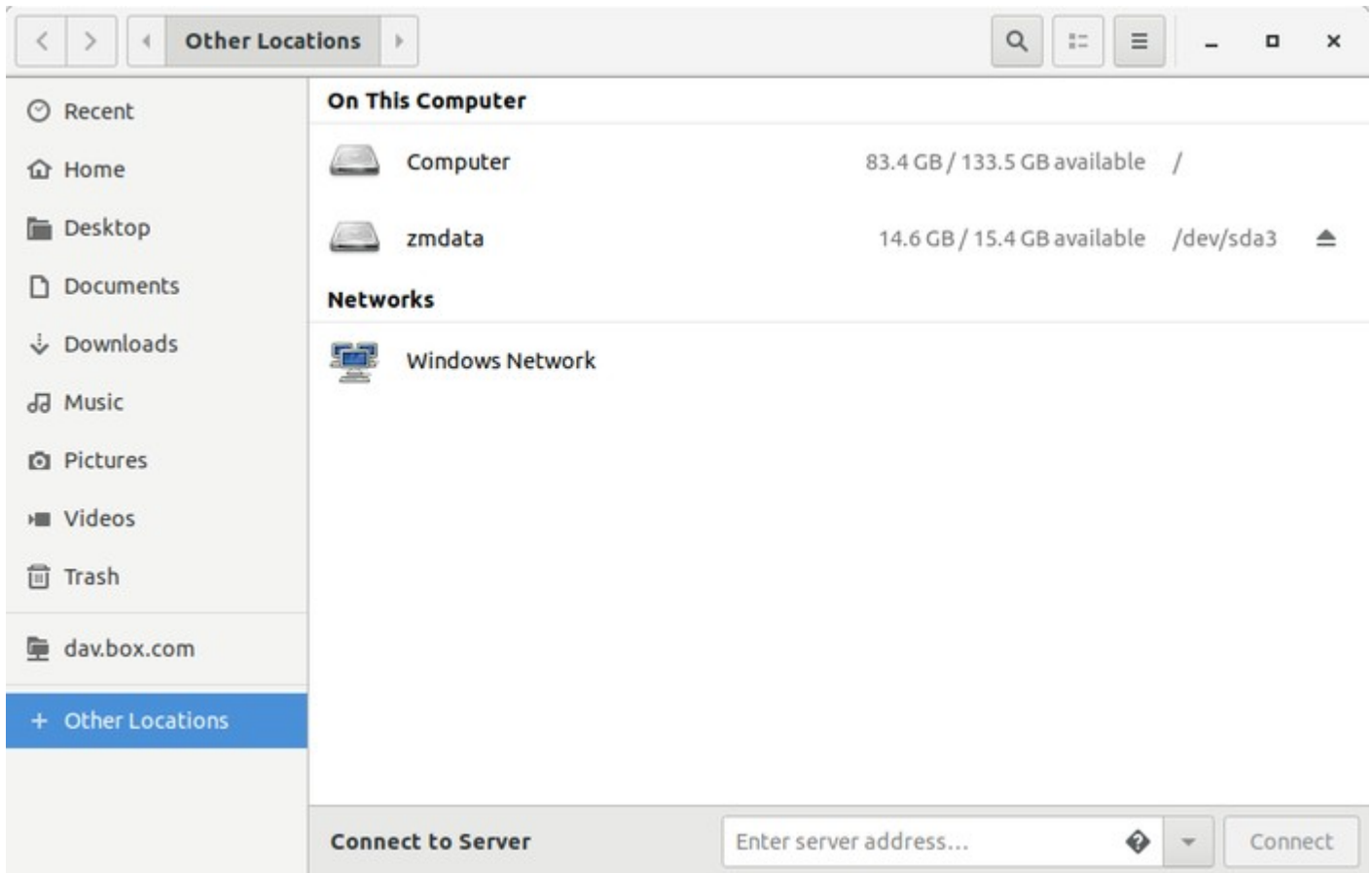


Figure 3:-mounted disks. The sda3 was named as zmdata during the partitioning

You can see the sda3 is mounted on /media/bkjaya1952/zmdata. But without mounting on the file system of the PC zoneminder will not be able to write data in to sda3. Therefore you will have to create a Systemd Mount Unit.

Creating Systemd Mount Unit

Open the Ubuntu terminal

```
sudo mkdir /mnt/sda3
```

```
sudo gedit /etc/systemd/system/mnt-sda3.mount
```

and paste the following codes into mnt-sda3.mount and save (details of uuid of usb was taken from figure 1 and figure 2)

```
Activities Text Editor 30, 4:29 PM
mnt-sda3.mount
/etc/systemd/system

1 # systemd mount unit for ZoneMinder event storage
2
3 [Unit]
4 Description=systemd mount unit for ZoneMinder event storage
5 Before=zoneminder
6
7 [Mount]
8 What=/dev/disk/by-uuid/fb7a790f-8678-4665-93c1-d220081d02c9
9 Where=/mnt/sda3
10 Type=ext4
11 Options=defaults
12
13 [Install]
14 WantedBy=multi-user.target
```

Figure 4:-Codes in mnt-sda3.mount

sudo systemctl enable mnt-sda3.mount

sudo systemctl start mnt-sda3.mount

Then restart the computer

Now if you see the folder /mnt/sda3 ,you can see that the disk partition is mounted on /mnt

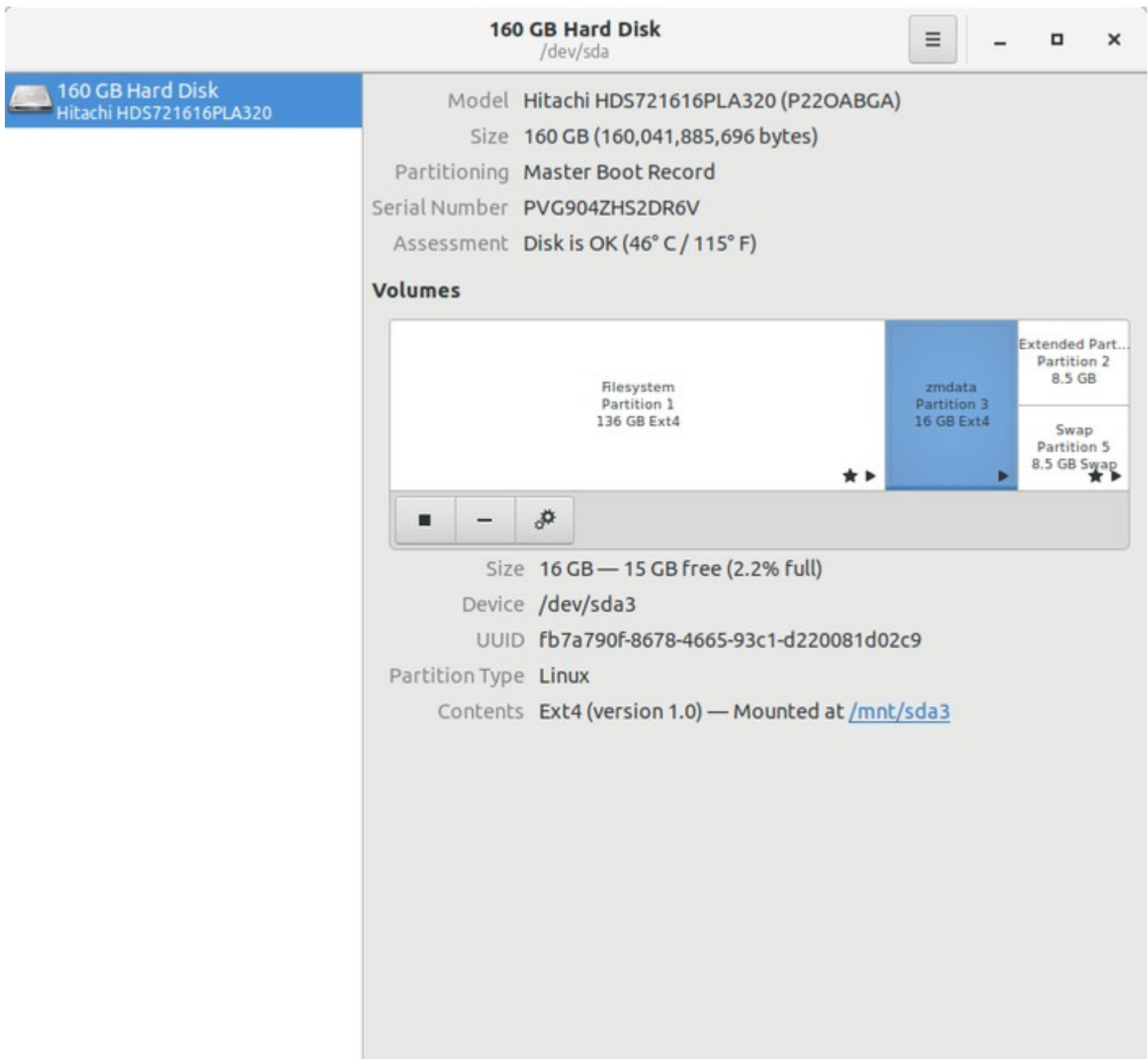


Figure 5:-The sda3 Partition is now mounted on the file system of the PC

If you compare Figure 2 and Figure 5 You can see the sda3 is mounted on the file system now

Create a folder called “zoneminder” on the mounted sda3. Then create folders “events” within the folder “zoneminder”

Open the ubuntu terminal

```
cd /mnt/sda3
```

```
mkdir zoneminder
```

```
cd zoneminder
```

```
mkdir events
```

```
sudo chown -R www-data:www-data /mnt/sda3/zoneminder
```

sudo chown -R www-data:www-data /mnt/sda3/zoneminder/events

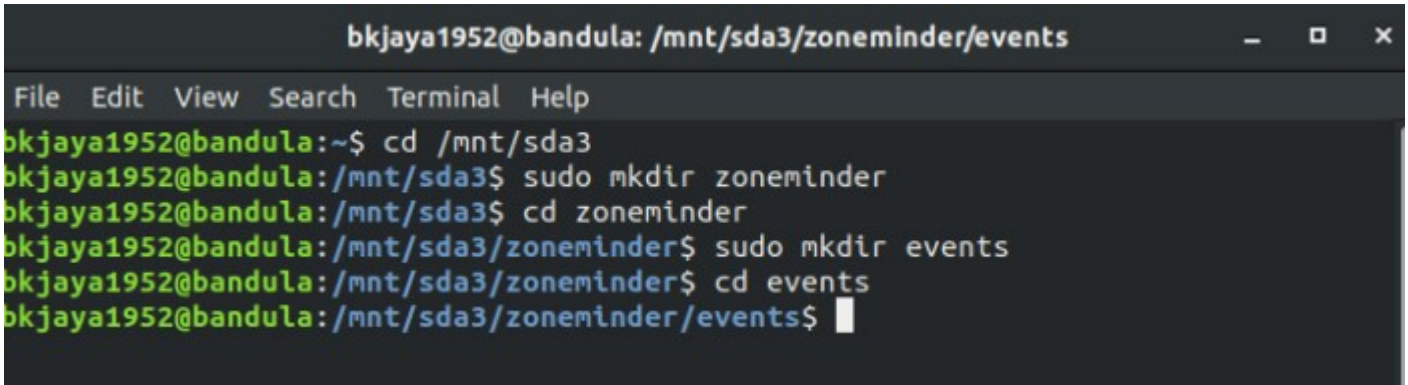


Figure 6:-

Create a config file under /etc/zm/conf.d . Name the file anything you want just as long as it ends in “.conf”. Add the following content to the file and save your changes:

(In my case I have used ajp.conf as the file name)

sudo gedit /etc/zm/conf.d/ajp.conf

and pasted following codes and saved the file in /etc/zm/conf.d

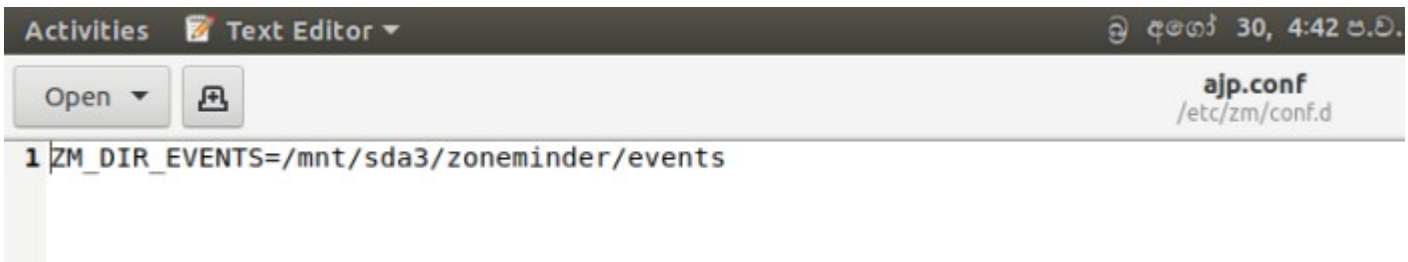
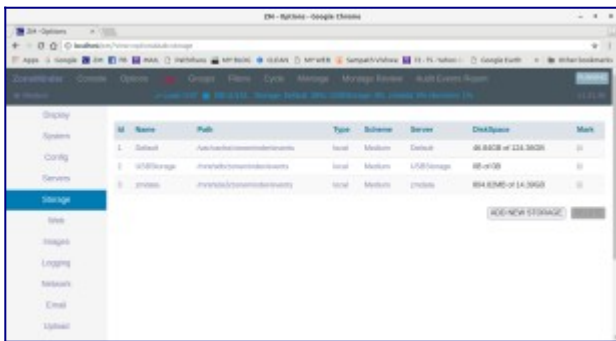


Figure 7:-

Open the ZM console and go to Options/Storage and add a NewStorage added Storage path as /mnt/sda3/zoneminder/events

Please refer the following figure for the details



ZM - Storage - zmdata - Google Chrome

localhost/zm/?view=storage&id=3&popup=1

Storage - zmdata

Name:

Path:

Url:

Server: Remote / No Specific Server ▾

Type: Local ▾

Scheme: Medium ▾

StorageDoDelete: Yes No

ZM - Monitor - Monitor-1 - Google Chrome

localhost/zm/?view=monitor&mid=1&popup=1

Monitor - Monitor-1 (1)

General Source Storage Timestamp Buffers Misc

Name:

Server: None ▾

Storage Area: zmdata ▾

Source Type: Local ▾

Function: Modect ▾

Enabled:

Linked Monitors:

Groups:

Analysis FPS:

Maximum FPS:

Alarm Maximum FPS:

Reference Image Blend %ge: 6.25% (Indoor) ▾

Alarm Reference Image Blend %ge: 6.25% ▾

Triggers: None available

Figure 8:-Creating a New Storage for the Monitor

Then enter following command on the Ubuntu terminal to start zoneminder.

```
sudo systemctl start zoneminder
```

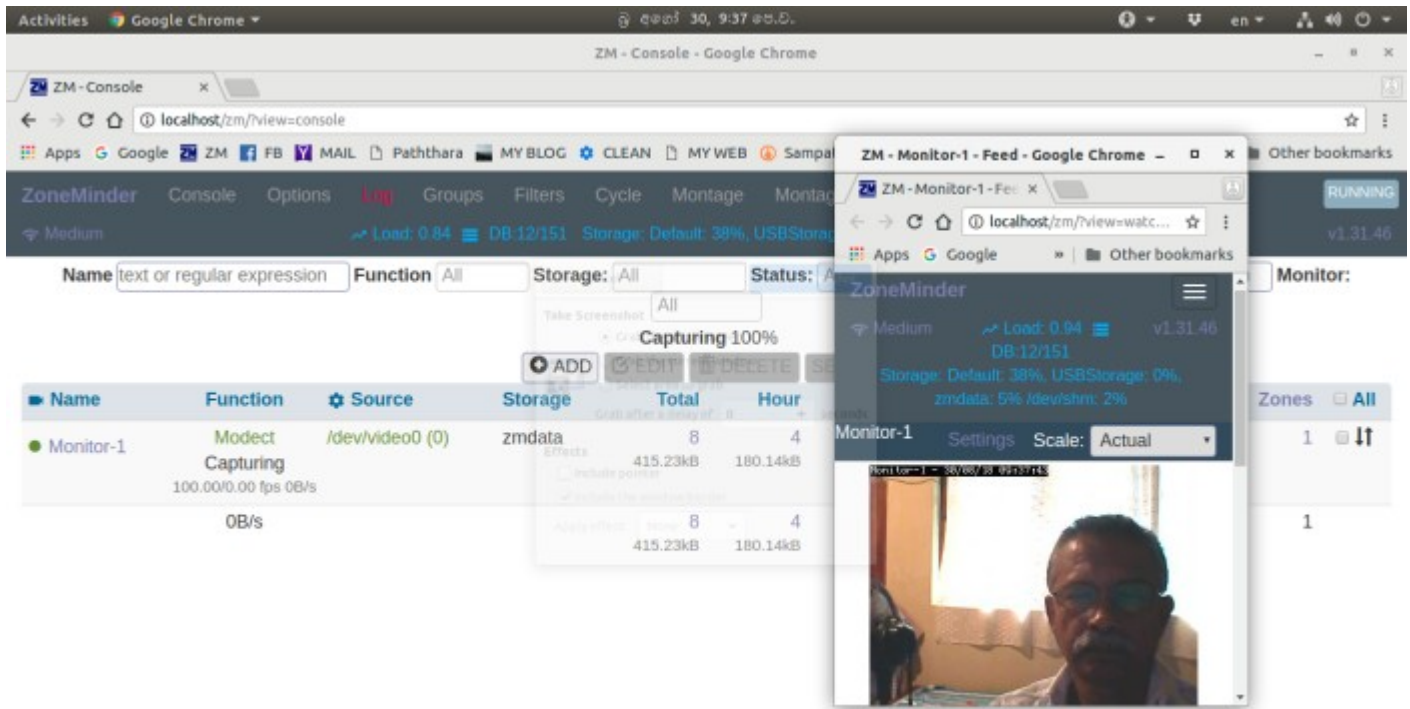



Figure 9:-ZM Console and the monitor

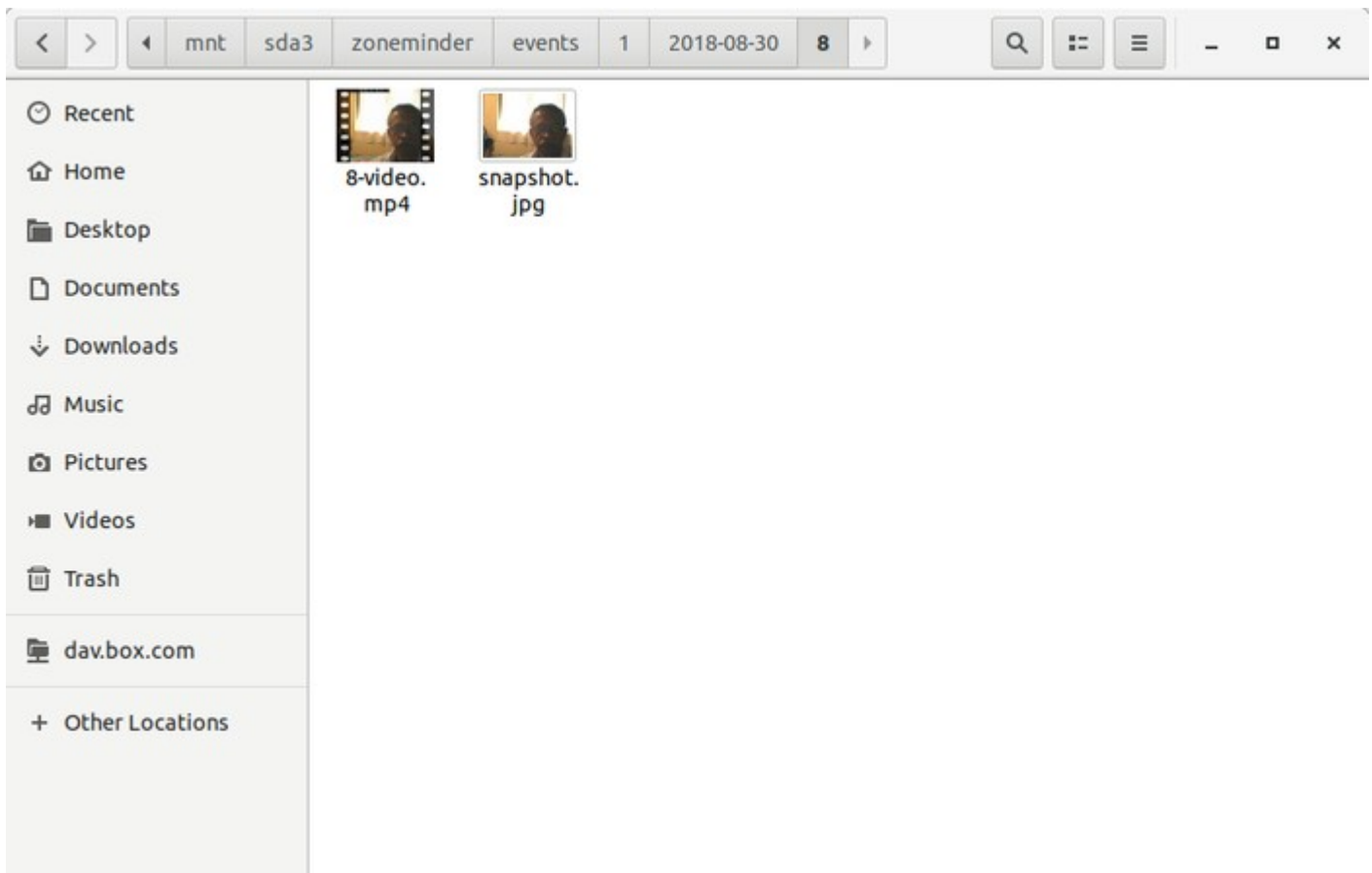


Figure 10:- Saved ZM events on the mounted disk partition

(At/mnt/sda3/zoneminder/events)

Please refer the following link to get more details

<https://bkjaya.wordpress.com/2018/08/30/how-to-use-a-partition-of-a-disk-as-a-dedicated-drive-for-zoneminder-v1-31-46-on-ubuntu-18-04-lts-computer/>

Reference :-

[Zoneminder Official Installation Guide](#)

[Andrew Bauer's blog-page](#)