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How to install Zoneminder , (v1.33.16.) with Mysql 8 on Ubuntu 19.10

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Since the official Zoneminder eoan has Dependency wait on lgw01-amd64-051 (https://launchpad.net/builders/lgw01-amd64-051) , We will have to install Zoneminder disco on Ubuntu 19.10.

There is a problem in the present PHP release which make errors with the "caching_sha2_password" introduced in the Mysql 8 by default .
Please refer the following link
https://www.php.net/manual/en/mysqli.requirements.php (https://www.php.net/manual/en/mysqli.requirements.php)
Therefore , we will have to use "mysql_native_password" method in Mysql 8.

First of all we will have to install mysql-server-8 on Ubuntu 19.10 and enable mysql_native_password

The installation of mysql-server-8.0 can be done using the synaptic package manager .
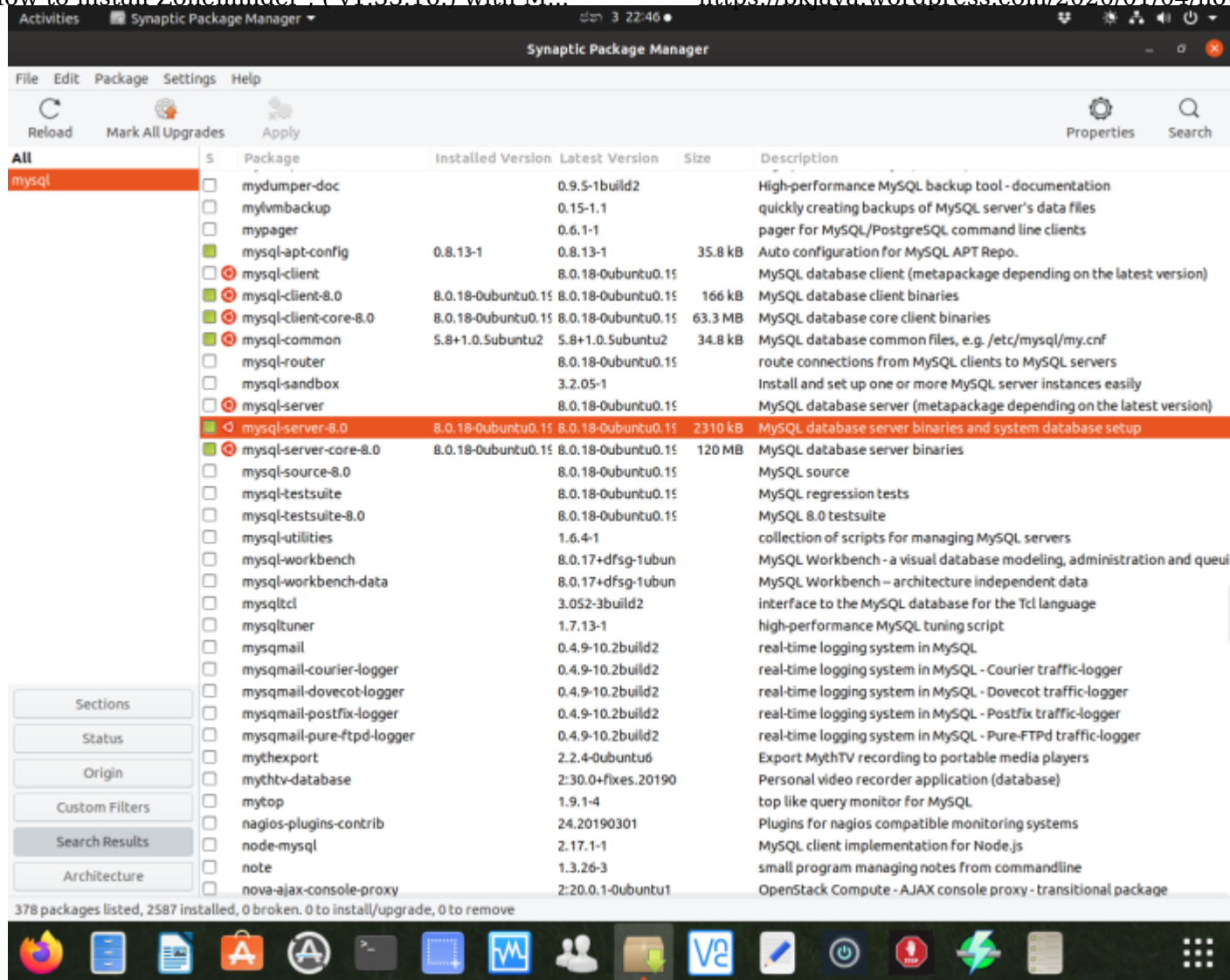
Figure:-1 Installed mysql-server-8 shown in synaptic package manager

Then open the Ubuntu terminal

sudo su

```
rm /etc/mysql/my.cnf
cp /etc/mysql/mysql.conf.d/mysqld.cnf /etc/mysql/my.cnf
```

gedit /etc/mysql/my.cnf

Then enter the following line below [mysqld] on the opened my.cnf file and save the file

[mysqld]

default_authentication_plugin= mysql_native_password

```
12 # The following values assume you have at least 32M ram
13
14 [mysqld]
15 default_authentication_plugin= mysql_native_password
16 #
17 # * Basic Settings
```

Figure:-2 Amended /etc/mysql/my.cnf

Then on the Ubuntu terminal

systemctl restart mysql

Then enter the following commands on the terminal to set root password for mysql server

```
mysql CREATE USER 'admin'@'localhost' IDENTIFIED WITH
mysql_native_password BY 'your password';
```

```
mysql GRANT ALL PRIVILEGES ON *.* TO 'admin'@'localhost' WITH GRANT
OPTION;
```

```
mysql FLUSH PRIVILEGES ;
```

```
systemctl restart mysql
```

Then install Zoneminder

The Zoneminder disco deb file is downloaded from https://launchpad.net/~iconnor/+archive/ubuntu/zoneminder-master/+build/18492553/+files/zoneminder_1.33.16~20191229135312-disco_amd64.deb (https://launchpad.net/~iconnor/+archive/ubuntu/zoneminder-master/+build/18492553/+files/zoneminder_1.33.16~20191229135312-disco_amd64.deb)

GDebi Package Installer can be used to install the Zoneminder disco deb file

Before installing Zoneminder disco deb file to overcome dependency issues we will have to download libmysqlclient20 (https://www.ubuntuupdates.org/package/core/disco/main/updates/libmysqlclient20)and install first using the GDebi Package Installer.

Then install Zoneminder disco deb file that we have downloaded .

Creating user and zmpass

Open the Ubuntu terminal and enter following 5 commands

sudo su

```
mysql -uroot -p < /usr/share/zoneminder/db/zm_create.sql

mysql

CREATE USER 'zmuser'@localhost IDENTIFIED WITH mysql_native_password BY
'zmpass';

GRANT ALL PRIVILEGES ON zm.* TO 'zmuser'@'localhost' WITH GRANT OPTION;

FLUSH PRIVILEGES ;

mysqladmin -uroot -p reload
```

It was observed that there are missing *.ini files in /etc/php/7.3/mods-available/ which
will make problems in getting zoneminder Console.

Therefore the necessary files have to be copied from /usr/share/php7.3-mysql/mysql

```
sudo cp /usr/share/php7.3-mysql/mysql/*.ini /etc/php/7.3/mods-available/

sudo service apache2 reload
```
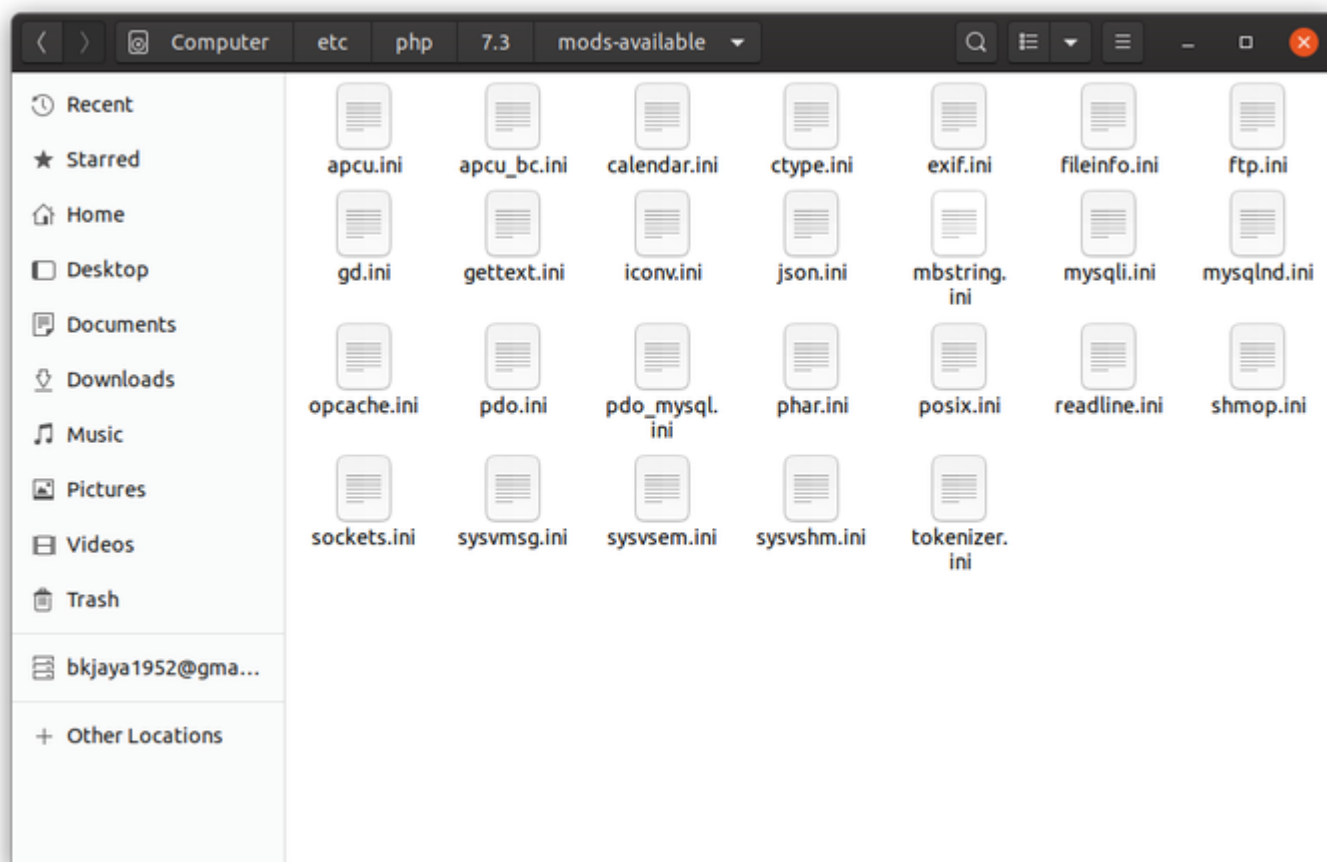

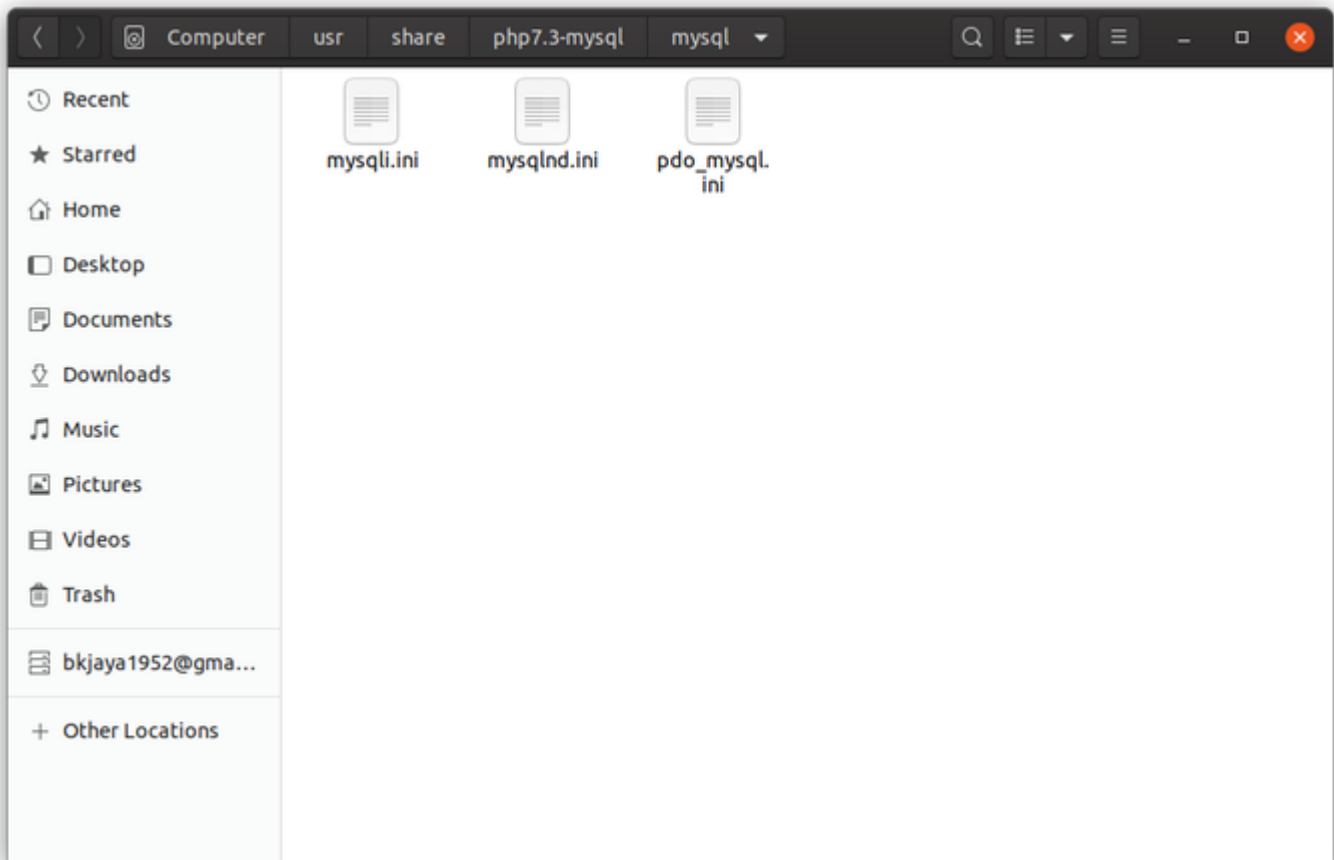Figure:-3 After coping mysql*.ini files from /usr/share/php7.3-mysql/mysql/

Figure:-4 mysql*.ini files in /usr/share/php7.3-mysql/mysql/

```
chmod 740 /etc/zm/zm.conf
chown root:www-data /etc/zm/zm.conf
adduser www-data video
a2enmod cgi
a2enconf zoneminder
a2enmod rewrite
chown -R www-data:www-data /usr/share/zoneminder/
systemctl enable zoneminder
service zoneminder start
```

Add timezone to PHP (This step is not essential for Zoneminder 1.33 as you can change the TIMEZONE later under Options/System/TIMEZONE)

```
gedit /etc/php/7.3/apache2/php.ini
```

edit line 956 with your timezone
Then

```
sudo service apache2 reload
```

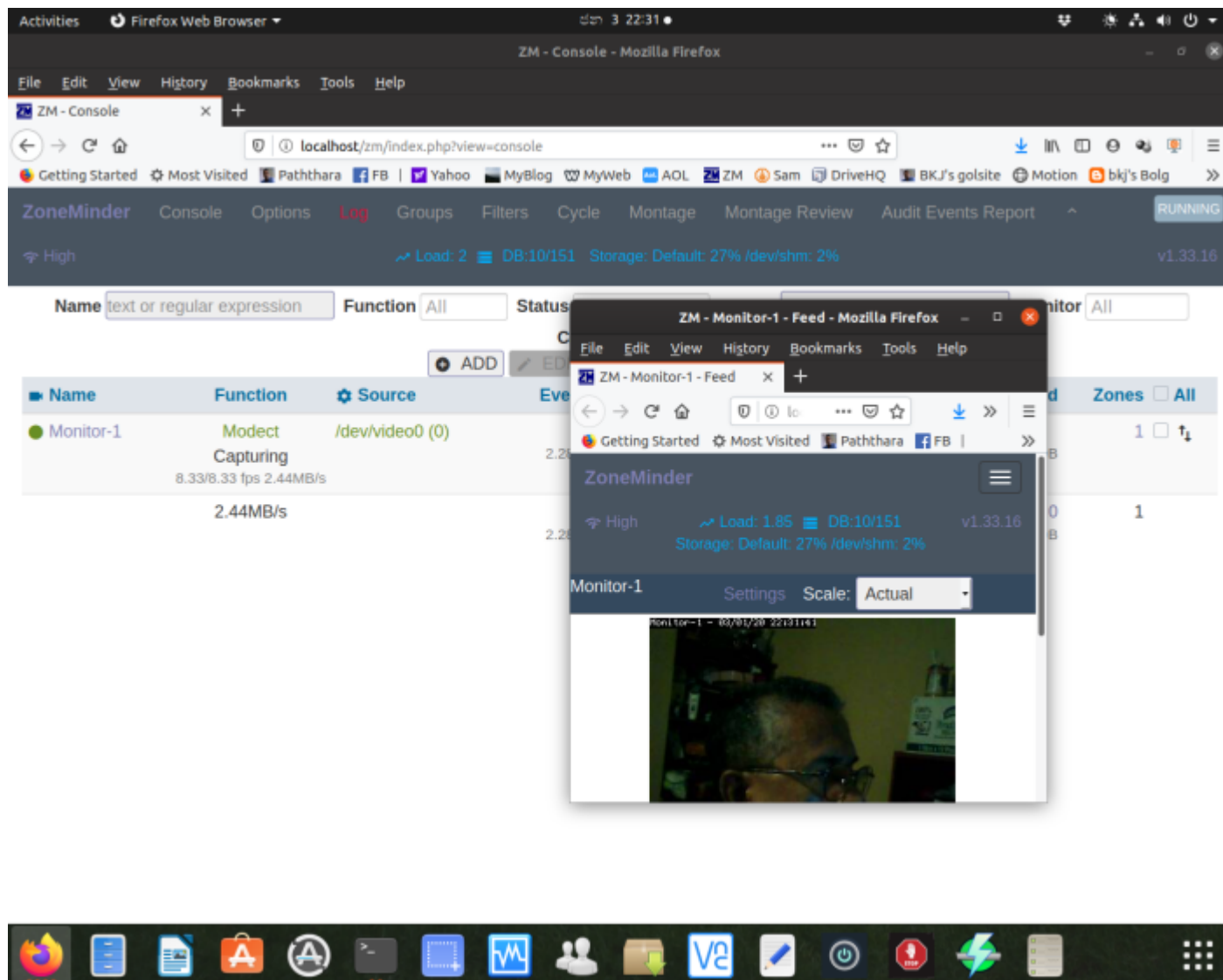Open zoneminder web console (http://localhost/zm/_(http://localhost/zm/))

Figure:-5 Zoneminder Console , after adding an Usb camera

```
(Note :-
In order to have  clean mysql-server-8.0 install , it is better to
completely delete exiting mysql as follows
sudo apt remove --purge mysql-server mysql-client mysql-common
sudo apt  autoremove
sudo apt autoclean  )
```