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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) (<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 “`cached_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 .

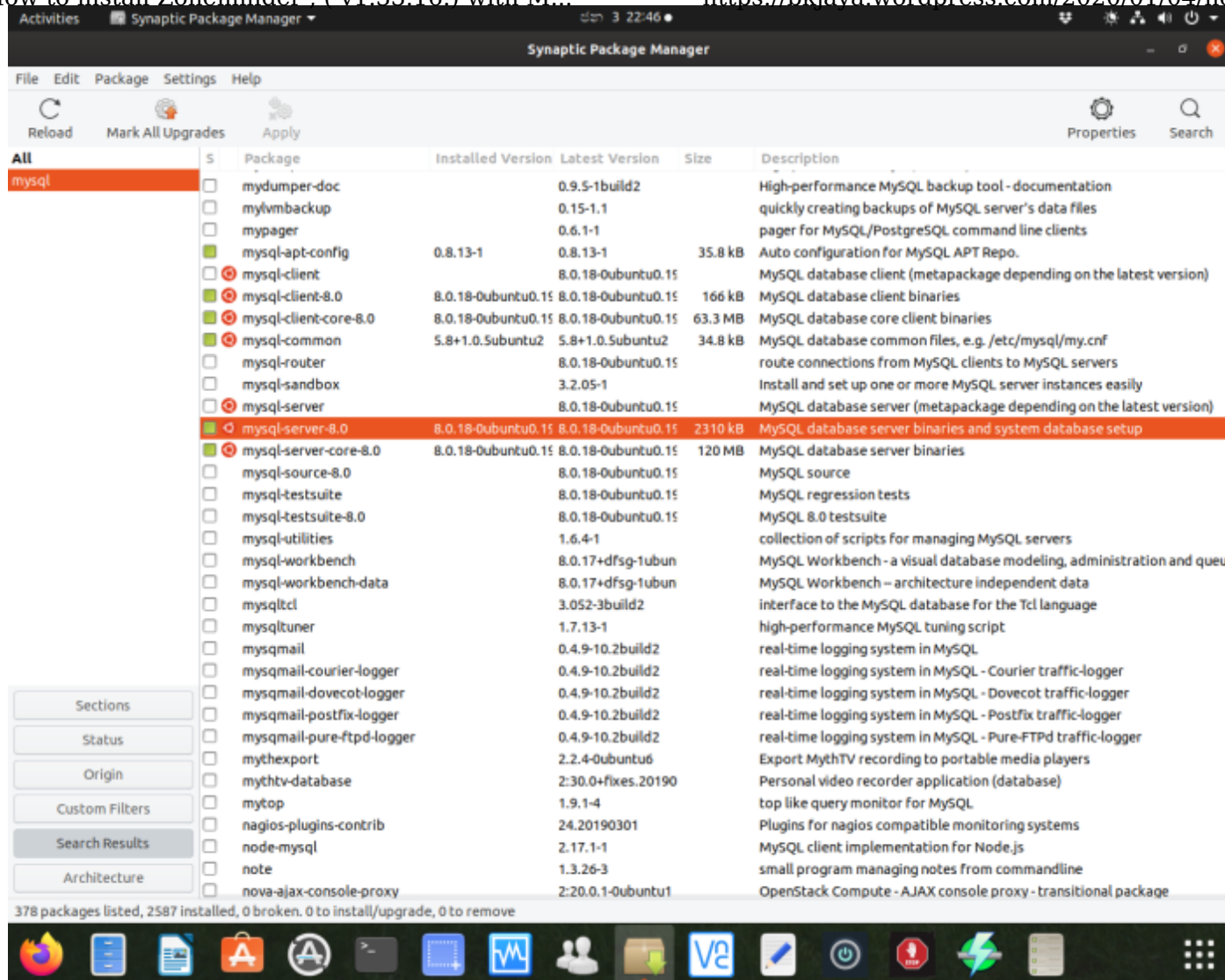


Figure:-1 Installed mysql-server-8 shown in synaptic package manager

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

```
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) (<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
```

```
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
```

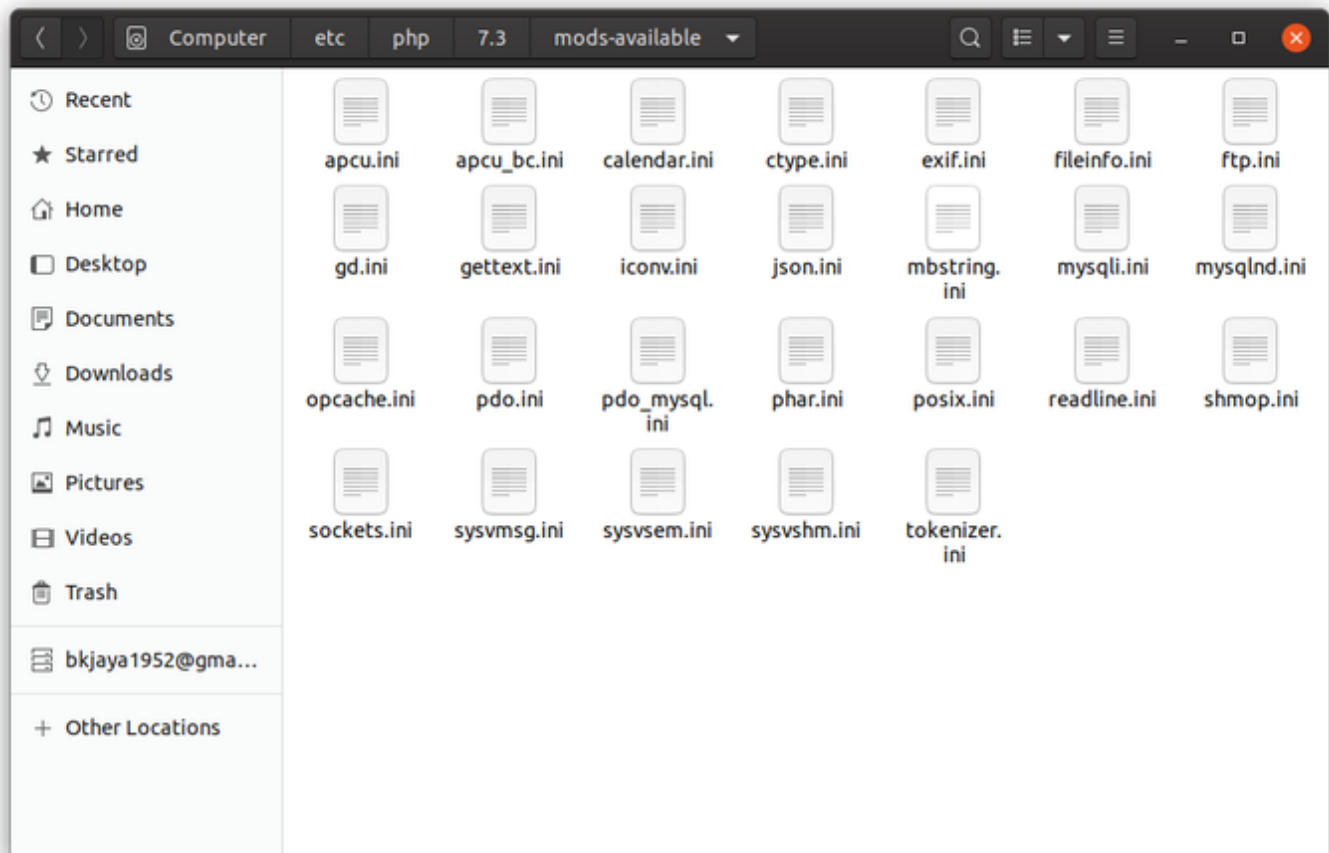


Figure:-3 After coping mysql*.ini files from /usr/share/php7.3-mysql/mysql/

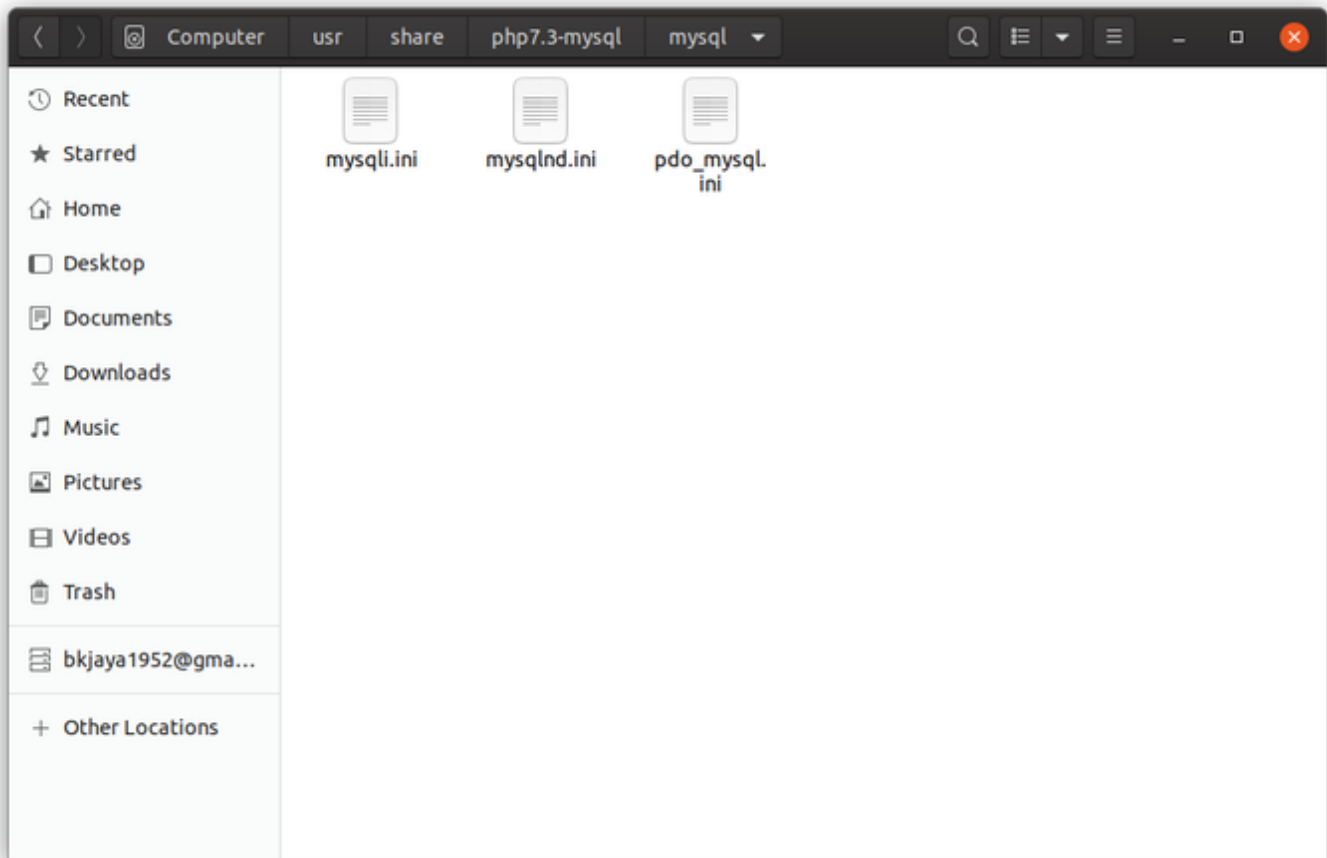


Figure:-4 mysql*.ini files in /usr/share/php7.3-mysql/mysql/

```
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

Open zoneminder web console (<http://localhost/zm/> (<http://localhost/zm/>))

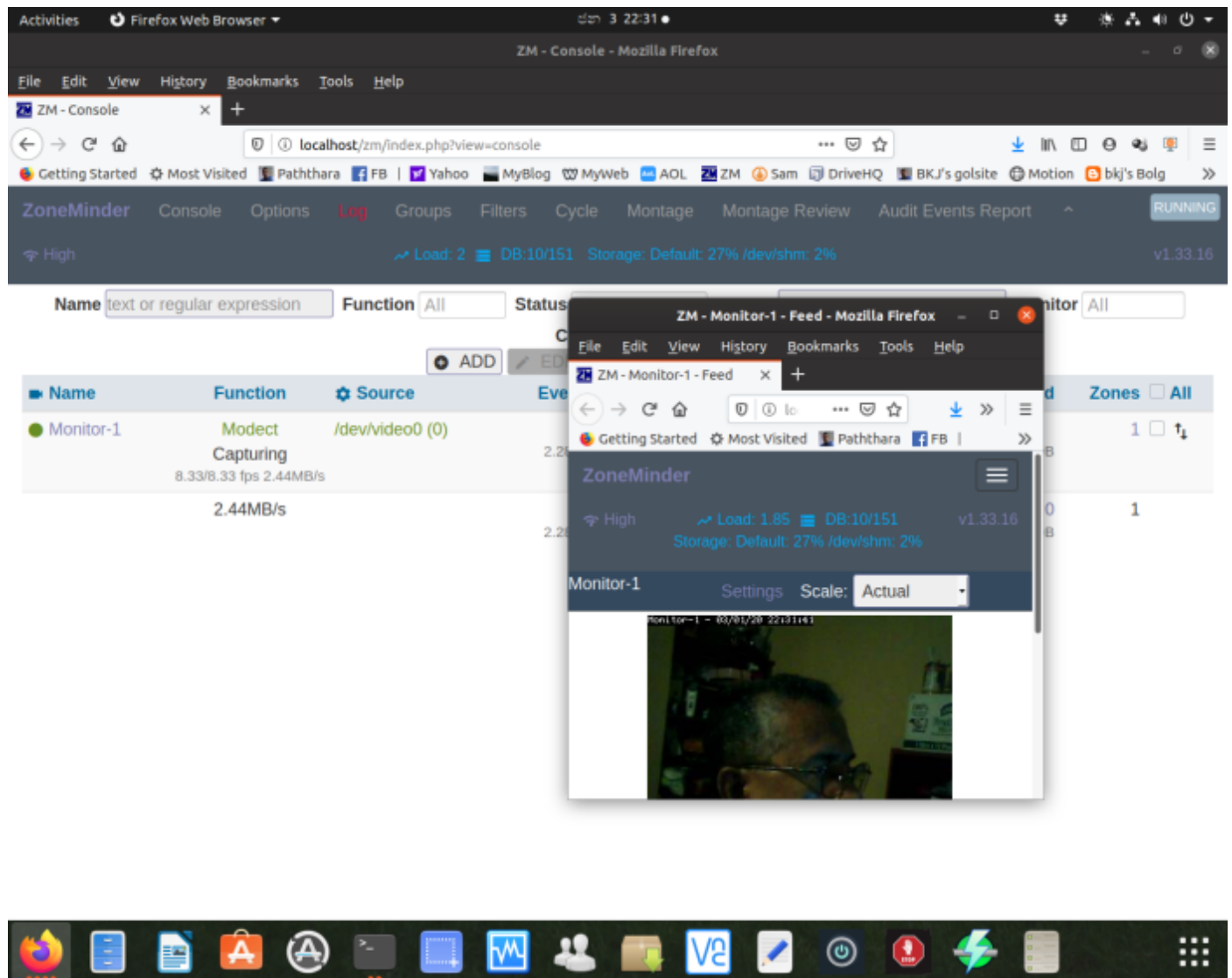


Figure:-5 Zoneminder Console , after adding an Usb camera

(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 )
```

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