

Install ZoneMinder 1.22.3

ZM is not difficult to install, if you follow below's steps:

- ZoneMinder application
- IP cams
- USB webcams with driver
- Firefox config (for the viewer)

Installation

```
apt-get install zoneminder
```

You need to sym-link the apache configuration file before the ZM pages can be served:

```
ln -s /etc/zm/apache.conf /etc/apache2/conf.d/zoneminder.conf  
/etc/init.d/apache2 restart
```

Setup ZM application

ZoneMinder installs the following server applications if not present in your system: Apache2, PHP5, MySQL2. events, images and sounds will be installed in ~/zm

Setup IP cams

The excellent Panasonic IP cams BL-C10/C30 are pre-configured in ZM, since the camera's documentation indicates the path to the mjpeg file stream, which is as

Setup OV511+ webcams

In Ubuntu Edgy, it is necessary to replace the drivers. I used the experimental version 2.32, which works well for me.

1. unload the old driver and physically remove it

```
modprobe -r ov511  
rm -R /lib/modules/`uname -r`/kernel/drivers/media/video/ov511
```

1. Download the driver at <http://alpha.ovcam.org/ov511/>
2. Decompress the tar file
3. cd to the newly created directory, e.g. {\${HOME}}/driver/ov511
4. vim Makefile and set INCLUDEDIR=/usr/src/linux-headers-`uname -r`/include
5. run *make* as regular user, then *make install* as super-user
6. Add *ov511* and *ovcamchip* to /etc/modules, one separate line each
7. Modify the driver settings in /etc/modprobe.d/options (the first option is mandatory for zm to

work, find details [here](#))

```
options ov511 force_palette=15 v4l2=1 lightfreq=0 cams=2 autobright=1 led=2
autoexp=1 i2c_clockdiv=0
```

1. Load the new modules

```
modprobe ov511
modprobe ovcamchip
```

You also need to set the group access right for ZM to access the video devices (/dev/video0). Add www-data to the video group for the device files

```
vim /etc/group
```

If this does not work, you can enable ZM to modify the permissions of the video device files on startup (/dev/video0). To be able to do so, you need to change the permissions of zmfux. Further info can be found at <http://www.zoneminder.com/forums/viewtopic.php?t=8621&highlight=zmfux+chmod>.

```
chmod 4755 /usr/bin/zmfux
```

Further info how to setup cameras: [zoneminder_install.doc](#)

Configuration for Firefox

You need to edit the following parameters in about:config of Firefox to allow sufficient connections to the ZM server (type about:config in the address bar and scroll to each parameter):

```
browser.cache.check_doc_frequency: 3 --> 1
browser.cache.disk.enable: true -> false
browser.cache.memory.enable: true --> false
network.http.use-cache: true --> false
network.http.max-connections: 24 --> 100
network.http.max-connections-per-server: 8 --> 100
network.http.max-persistent-connections-per-proxy: 4 --> 100
network.http.max-persistent-connections-per-server: 4 --> 100
```

Try the following:

Install ffmpeg sources

```
sudo apt-get build-dep ffmpeg
sudo apt-get install liblame-dev libfaad2-dev \
libfaac-dev libxvidcore4-dev checkinstall fakeroot
apt-get source ffmpeg
cd ffmpeg-0.cvs*
vim debian/rules
```

Add the following lines to `debian/rules`, under the other `confflags` lines:

```
confflags += --enable-mp3lame --enable-faad
confflags += --enable-faac --enable-xvid
```

Continuing in the terminal:

```
fakeroot debian/rules binary
sudo checkinstall
```

This will take some time, after which the process asks for some details. You can accept the default choices, except for the following changes:

- Set 'Name' to 'ffmpeg'.
- Set 'Version' to something newer than the currently installed ffmpeg (I called mine '3:0.cvs20050121-1ubuntu2').

After that, you should have a system-recognised, fully-loaded version of ffmpeg. If you have problems, leave a comment. The above method worked for me on 5.04; it might not work on also works on 5.10 according to reports. (Thanks, Kyle.)

I've made a small improvement to the `cd ffmpeg-0.cvs*` line in the instructions: it now uses a wildcard so that they can be copied and pasted directly into the command line.

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