

# How to Build a Zoneminder Docker Image (with MSMTMP) using a Dockerfile & push to Docker Hub , (Ubuntu 19.10)

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In this tutorial ,we are going to use [“Docker: Enterprise Container Platform”](#) ([docker.io](#)) on Ubuntu 19.10.

First

## Installation of Docker on Ubuntu 19.10

On the Ubuntu terminal

```
sudo apt install docker.io
```

Then a zoneminder-docker image is built using a Dockerfile and entrypoint.sh

Dockerfile contains the scripts to install free open-source software [Zoneminder](#) and entrypoint.sh has necessary commands to start Zoneminder ,Apache and other services and to keep the docker container running.

I have used my own Dockerfile and [entrypoint.sh prepared by Andrew Bauer](#)

The scripts in the Docker file are as shown in the following figure:- 1

```
FROM ubuntu:bionic
MAINTAINER B.K.Jayasundera

# Update base packages
RUN apt update \
    && apt upgrade --assume-yes

# Install pre-reqs
RUN apt install --assume-yes --no-install-recommends gnupg

# Configure Zoneminder PPA
RUN apt-key adv --keyserver keyserver.ubuntu.com --recv-keys ABE4C7F993453843F0AEB8154D0BF748776FFB04 \
    && echo deb http://ppa.launchpad.net/iconnor/zoneminder-1.32/ubuntu bionic main > /etc/apt/sources.list.d/zoneminder.list \
    && apt update
RUN apt update && apt install -y tzdata
RUN apt install -y msmtmp

# Install zoneminder
RUN apt install --assume-yes zoneminder

# Set our volumes before we attempt to configure apache
VOLUME /var/cache/zoneminder/events /var/lib/mysql /var/log/zm

RUN chmod 740 /etc/zm/zm.conf
RUN chown root:www-data /etc/zm/zm.conf
RUN adduser www-data video
RUN a2enmod cgi
RUN a2enconf zoneminder
RUN a2enmod rewrite
RUN chown -R www-data:www-data /usr/share/zoneminder/
RUN ln -s /usr/bin/msmtmp /usr/sbin/sendmail

# Expose http port
EXPOSE 80

COPY entrypoint.sh /entrypoint.sh
RUN chmod 777 /entrypoint.sh
ENTRYPOINT ["/entrypoint.sh"]
```

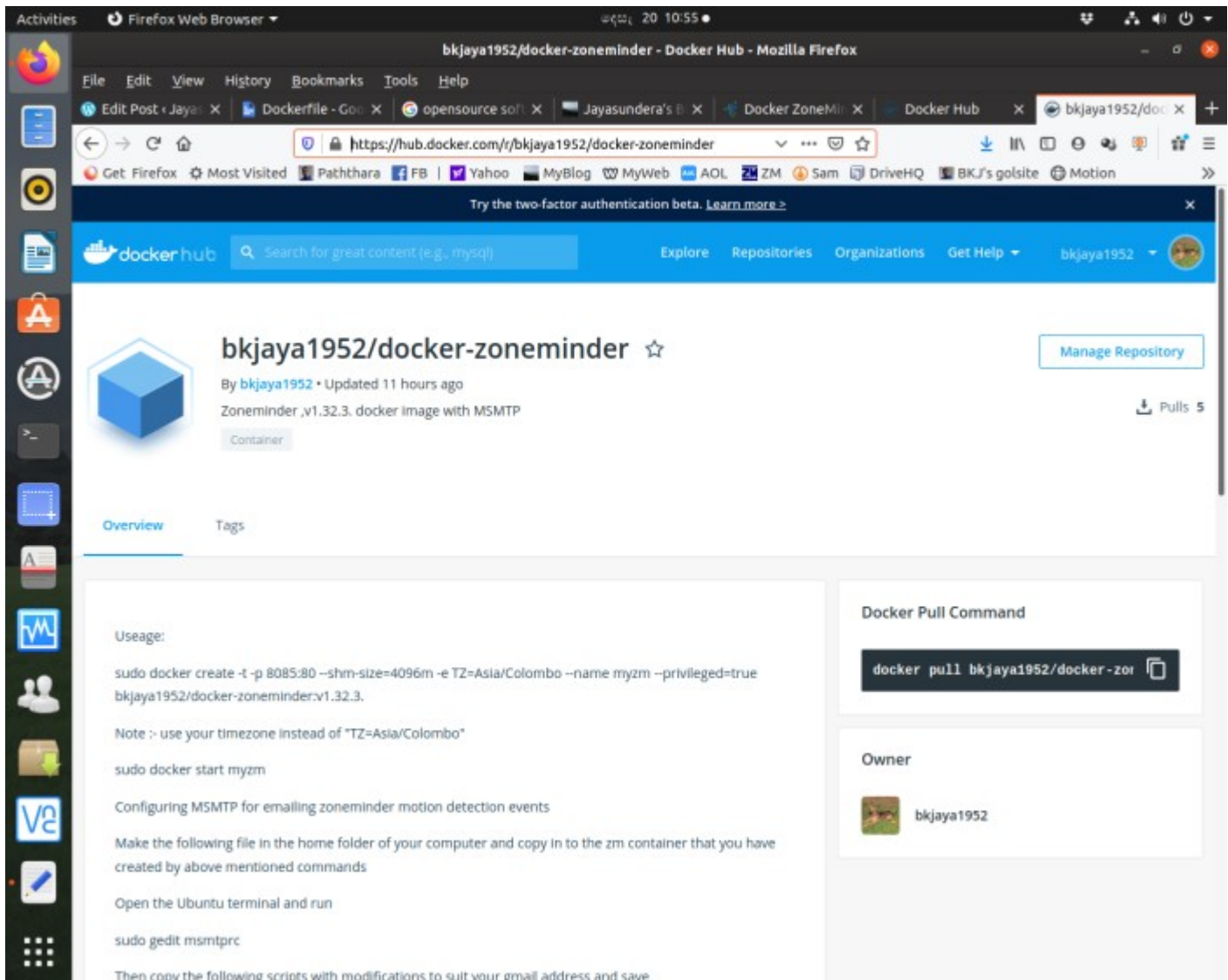


Figure:- 4 Pushed image at the Docker Hub

Please refer following site to get the installation details

[How to Build a Zoneminder Docker Image \(with MSMTTP\) using a Dockerfile & push to Docker Hub , \(Ubuntu 19.10\)](#)