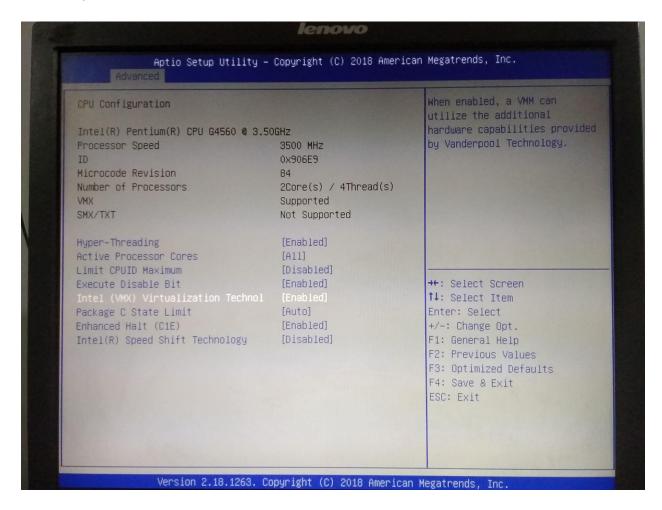
ZeekWeek21 - Introduction to Zeek

Instructions for installation of Zeek in Ubuntu 20.04

Step 1: We will be installing Zeek using docker. To install docker, first, we have to enable Virtualization in the BIOS. On most systems, the BIOS is accessible by pressing the F2 key or Del key on boot.



Step 2: Access https://docs.docker.com/engine/install/ubuntu/ and follow the steps to install docker or follow along,

Install docker using the official repository

Step 1: Open a terminal and update the repositories

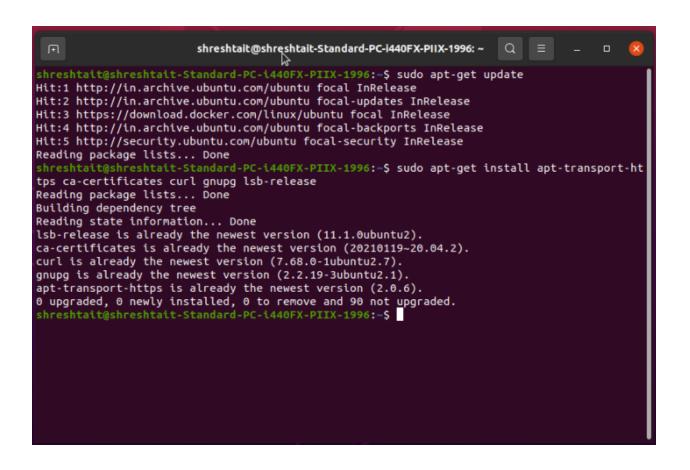
sudo apt-get update

```
shreshtait@shreshtait-Standard-PC-I440FX-PIIX-1996:~ Q = - □ &

shreshtait@shreshtait-Standard-PC-I440FX-PIIX-1996:~ $ sudo apt-get update
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 https://download.docker.com/linux/ubuntu focal InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:5 http://security.ubuntu.com/ubuntu focal-security InRelease
Reading package lists... Done
shreshtait@shreshtait-Standard-PC-I440FX-PIIX-1996:~$
```

Step 2: Install the dependency packages required by docker,

sudo apt-get install apt-transport-https ca-certificates curl gnupg lsb-release



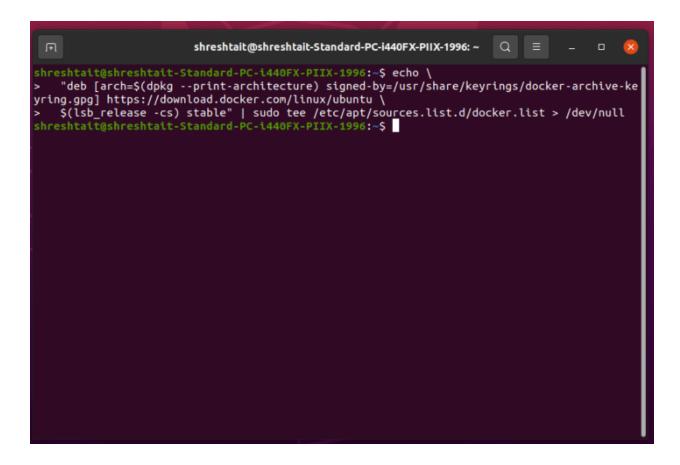
Step 3: Add Docker's official GPG key as follows,

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg

```
shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996: ~
 shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$ sudo apt-get update
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 https://download.docker.com/linux/ubuntu focal InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:5 http://security.ubuntu.com/ubuntu focal-security InRelease
Reading package lists... Done
                  eshtait-Standard-PC-i440FX-PIIX-1996:~$ sudo apt-get install apt-transport-ht
tps ca-certificates curl gnupg lsb-release
Reading package lists... Done
Building dependency tree
Reading state information... Done
lsb-release is already the newest version (11.1.0ubuntu2).
ca-certificates is already the newest version (20210119~20.04.2).
curl is already the newest version (7.68.0-1ubuntu2.7). gnupg is already the newest version (2.2.19-3ubuntu2.1).
apt-transport-https is already the newest version (2.0.6). 0 upgraded, 0 newly installed, 0 to remove and 90 not upgraded.
                             tandard-PC-1440FX-PIIX-1996:~$ curl -fsSL https://download.docker.co
m/linux/ubuntu/gpg | sudo gpg --dearmor -o /usr/share/keyrings/docker-archive-keyring.gpg
File '/usr/share/keyrings/docker-archive-keyring.gpg' exists. Overwrite? (y/N) y shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$
```

Step 5: Use the following command to add the docker repository in apt,

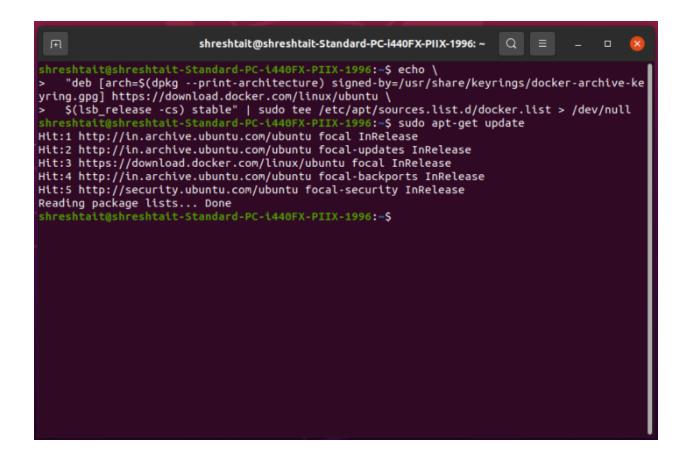
echo "deb [arch=\$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu \$(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null



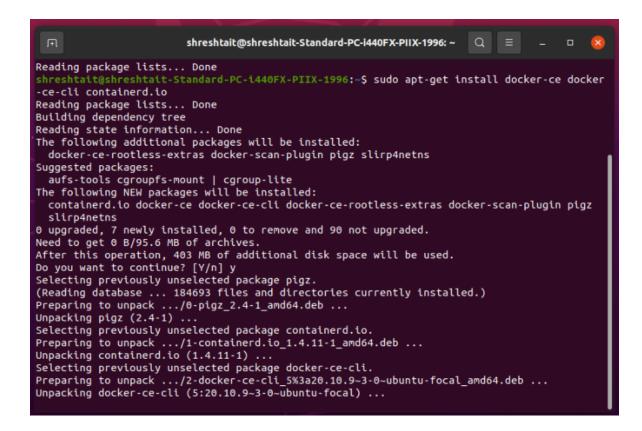
Step 6: Update the apt package index, and install the latest version of Docker Engine and containerd,

sudo apt-get update

sudo apt-get install docker-ce docker-ce-cli containerd.io

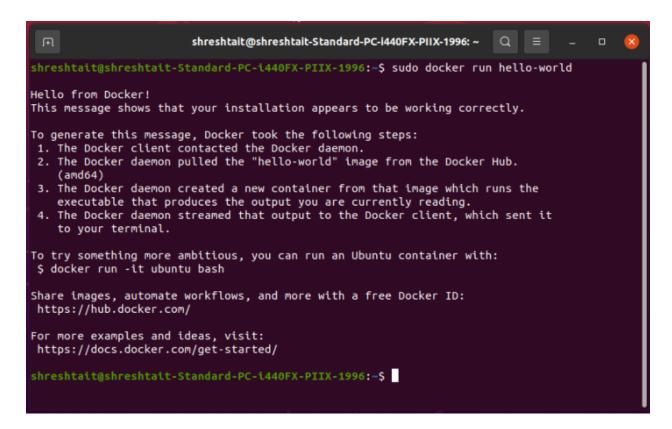


```
shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996: ~
shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$ echo \
    deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-ke"
yring.gpg] https://download.docker.com/linux/ubuntu \
    $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/nulleshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$ sudo apt-get update
shreshtai
Hit:1 http://in.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://in.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 https://download.docker.com/linux/ubuntu focal InRelease
Hit:4 http://in.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:5 http://security.ubuntu.com/ubuntu focal-security InRelease
Reading package lists... Done
shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$ sudo apt-get install docker-ce docker
-ce-cli containerd.io
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  docker-ce-rootless-extras docker-scan-plugin pigz slirp4netns
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite
The following NEW packages will be installed:
  containerd.io docker-ce docker-ce-cli docker-ce-rootless-extras docker-scan-plugin pigz
  slirp4netns
0 upgraded, 7 newly installed, 0 to remove and 90 not upgraded.
Need to get 0 B/95.6 MB of archives.
After this operation, 403 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```



Step 7: Verify that the Docker engine is installed correctly by running the hello-world image.

sudo docker run hello-world



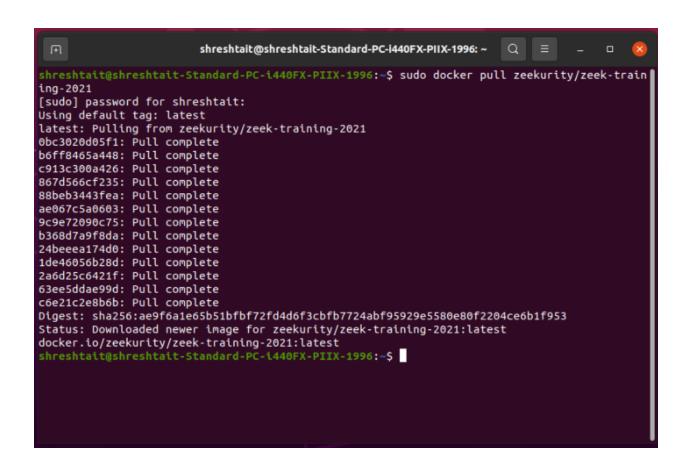
The above command downloads a test image and runs it in a container. When the container runs, it prints a message and exits.

Steps to pull the Zeek Docker Image and start a docker container

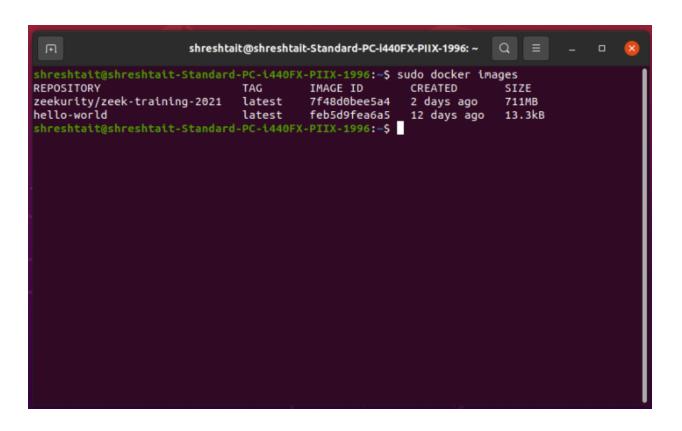
Step 1: Open a terminal and pull the Zeek image,

sudo docker pull zeekurity/zeek-training-2021

```
shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996: ~
                                                                     Q =
shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$ sudo docker pull zeekurity/zeek-train
[sudo] password for shreshtait:
Using default tag: latest
latest: Pulling from zeekurity/zeek-training-2021
0bc3020d05f1: Pull complete
b6ff8465a448: Extracting 6.638MB/6.638MB
c913c300a426: Download complete
867d566cf235: Download complete
88beb3443fea: Download complete
ae067c5a0603: Download complete
9c9e72090c75: Download complete
b368d7a9f8da: Download complete
24beeea174d0: Download complete
1de46056b28d: Download complete
2a6d25c6421f: Downloading 10.7MB/214.4MB
63ee5ddae99d: Waiting
c6e21c2e8b6b: Waiting
```

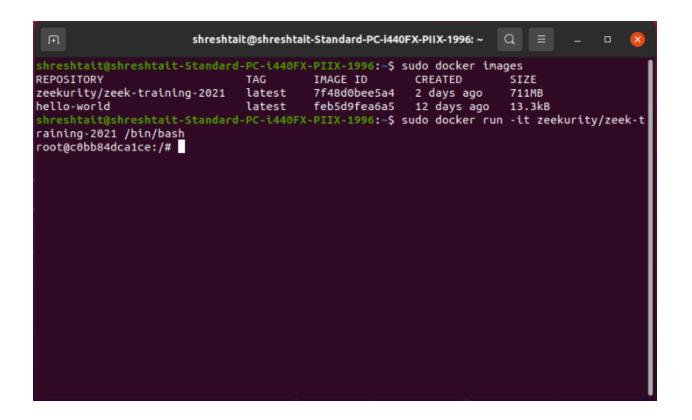


Step 2: After pulling the zeek image, verify the image is available, sudo docker images



Step 3: Start a docker container using the Zeek image,

sudo docker run -it zeekurity/zeek-training-2021/bin/bash



Step 4: Once the container starts successfully, it will drop us into a shell. Verify Zeek command is accessible,

zeek --version

```
shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~ Q = - □ &

shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$ sudo docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

zeekurity/zeek-training-2021 latest 7f48d0bee5a4 2 days ago 711MB

hello-world latest feb5d9fea6a5 12 days ago 13.3kB

shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$ sudo docker run -it zeekurity/zeek-t

raining-2021 /bin/bash

root@c@bb84dca1ce:/# zeek --version

zeek version 4.0.3

root@c@bb84dca1ce:/# ■
```

Happy ZeekWeek21!