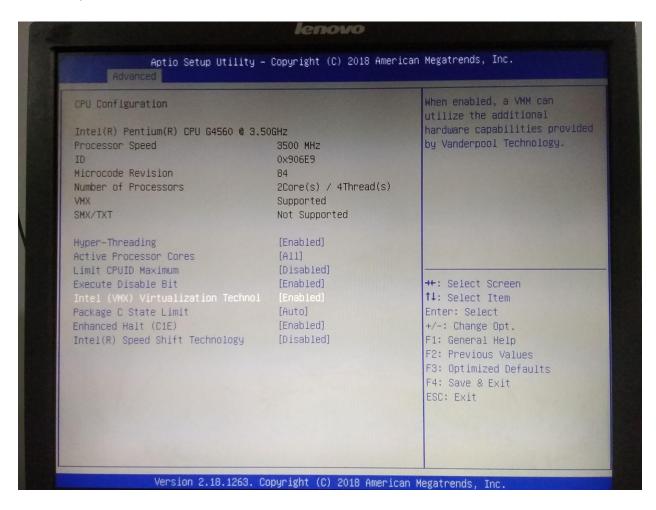
## Introduction to Zeek

### 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.

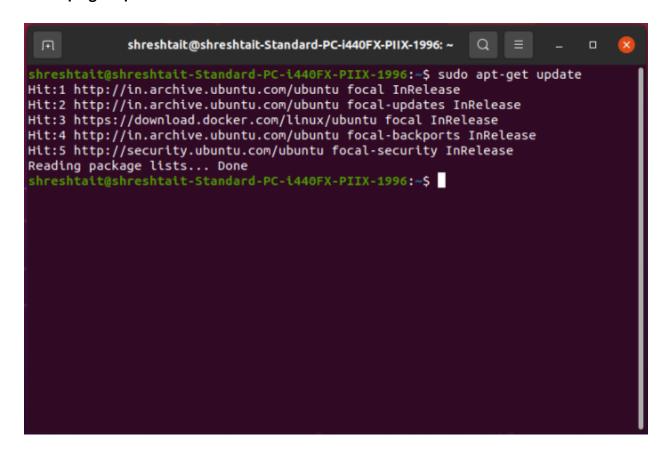


**Step 2:** Access <a href="https://docs.docker.com/engine/install/ubuntu/">https://docs.docker.com/engine/install/ubuntu/</a> and follow the steps to install docker or follow along,

#### Install docker using the official repository

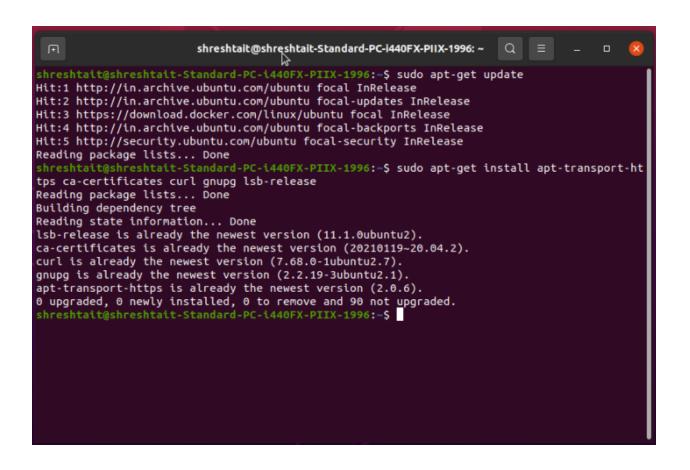
**Step 1:** Open a terminal and update the repositories

#### sudo apt-get update



Step 2: Install the dependency packages required by docker,

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



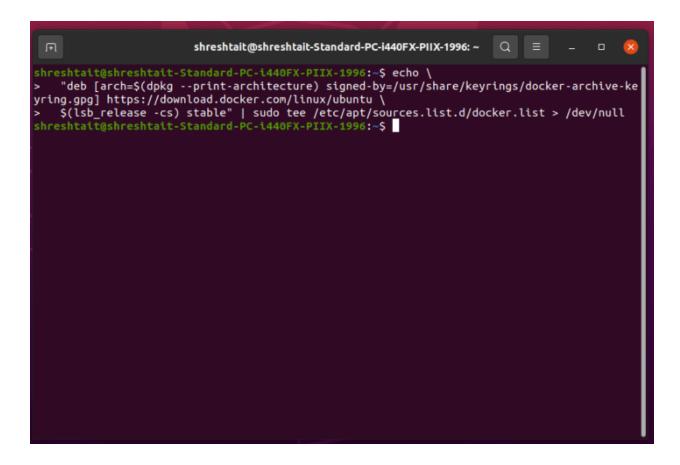
Step 3: Add Docker's official GPG key as follows,

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,

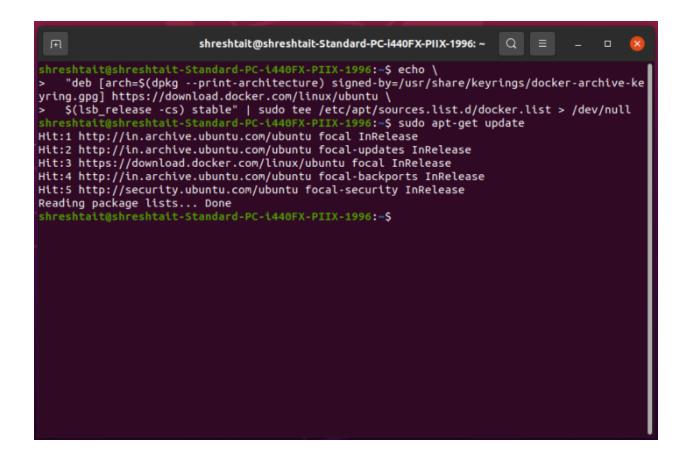
echo "deb [arch=\$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.gpg] https://download.docker.com/linux/ubuntu \$(lsb\_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null



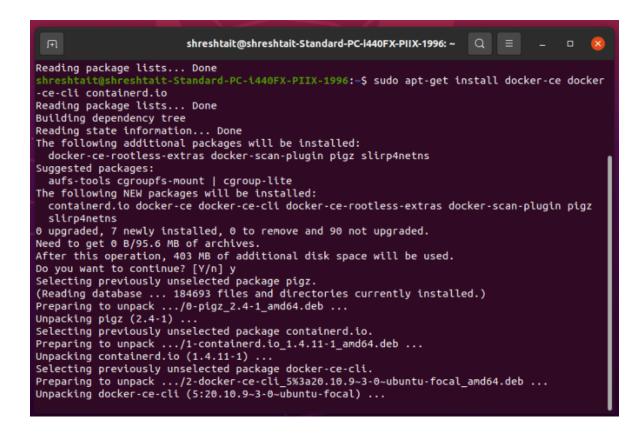
**Step 6:** Update the apt package index, and install the latest version of Docker Engine and containerd,

sudo apt-get update

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

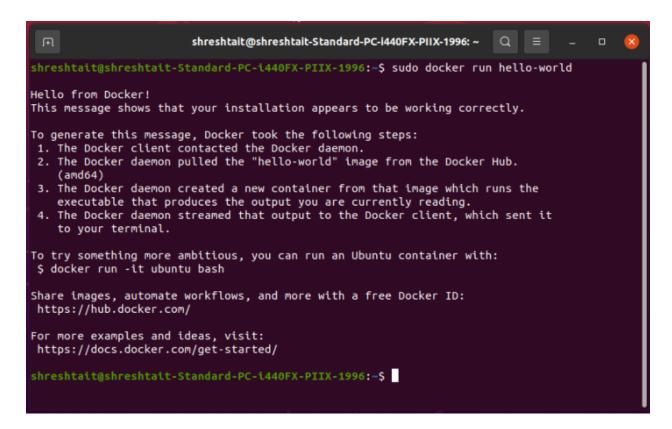


```
shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996: ~
shreshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$ echo \
    deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-ke"
yring.gpg] https://download.docker.com/linux/ubuntu \
    $(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/nulleshtait@shreshtait-Standard-PC-i440FX-PIIX-1996:~$ 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-2022

**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-2022 /bin/bash

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

#/opt/zeek/bin/zeek --version