ASUS
IN SEARCH OF INCREDIBLE

Intel OpenVINO Installation Guide

CONFIDENTIAL AND PROPRIETARY INFORMATION

Content

- Before Installation
- Install OpenVINO
- Run the demo

CONFIDENTIAL AND PROPRIETARY INFORMATION

IN SEARCH OF INCREDIBLE

Before Installation

CONFIDENTIAL AND PROPRIETARY INFORMATION

Before Installation

Please get this things ready

1. Make sure ASUS Mini PC PL63 is well-connected to internet.

2. Install one of the below Operating Systems:

- Ubuntu* 18.04 LTS with Kernel 5.4
- Ubuntu 20.04 LTS with Kernel 5.4 or 5.8
- Debian 10

CONFIDENTIAL AND PROPRIETARY INFORMATION

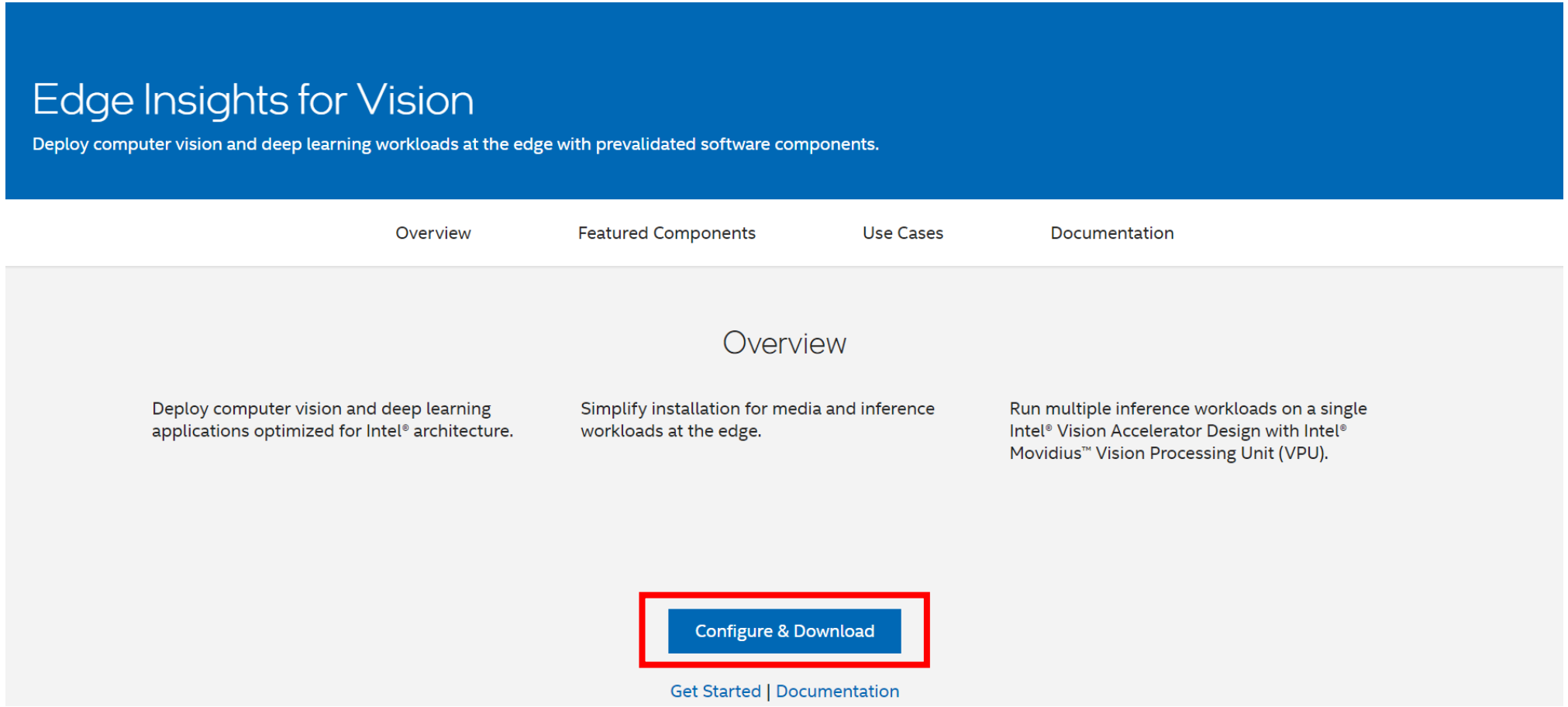
IN SEARCH OF INCREDIBLE

Install OpenVINO

CONFIDENTIAL AND PROPRIETARY INFORMATION

Install OpenVINO

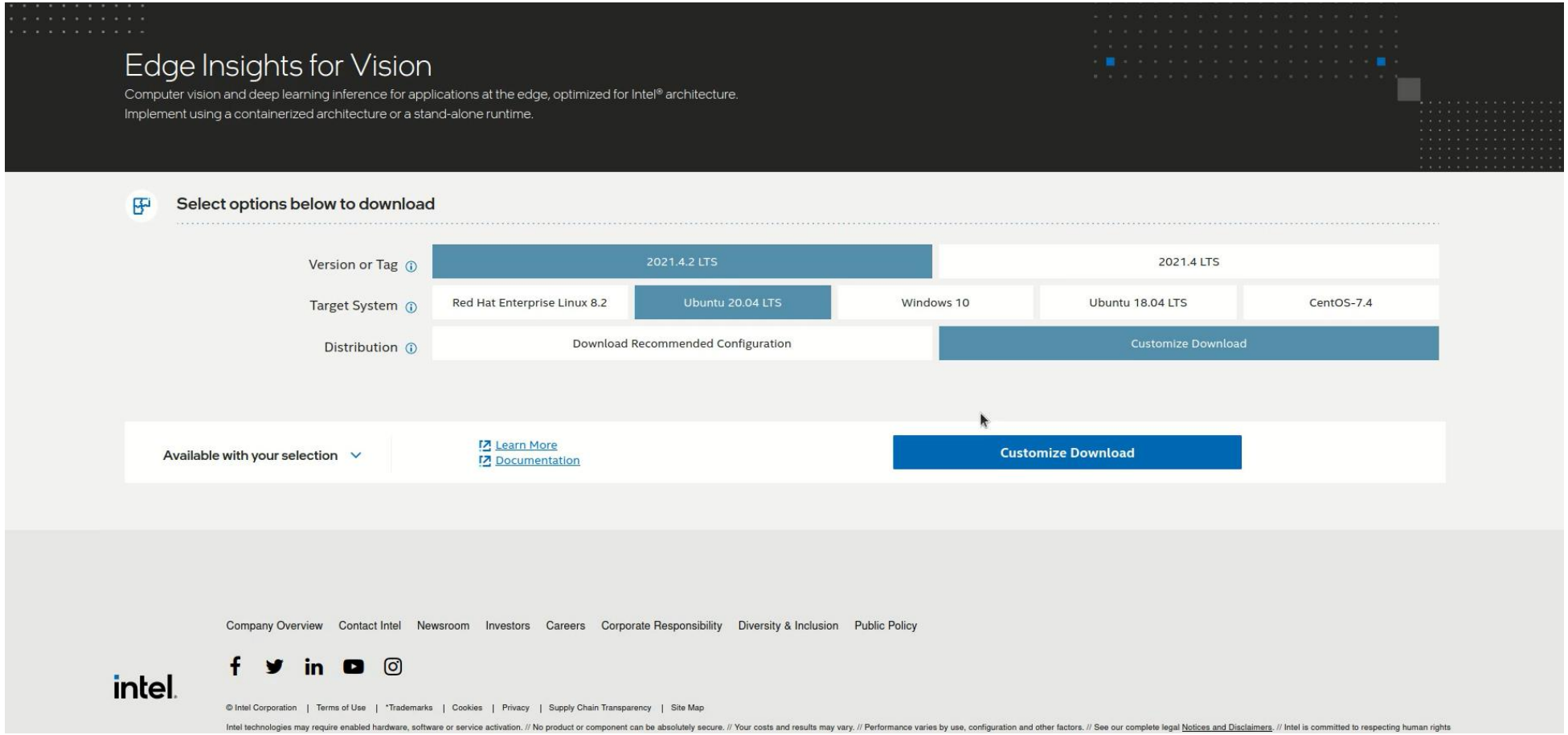
1. Go to Edge Insights for Vision (intel.com).
2. Click “Configure & Download” .



CONFIDENTIAL AND PROPRIETARY INFORMATION

Install OpenVINO

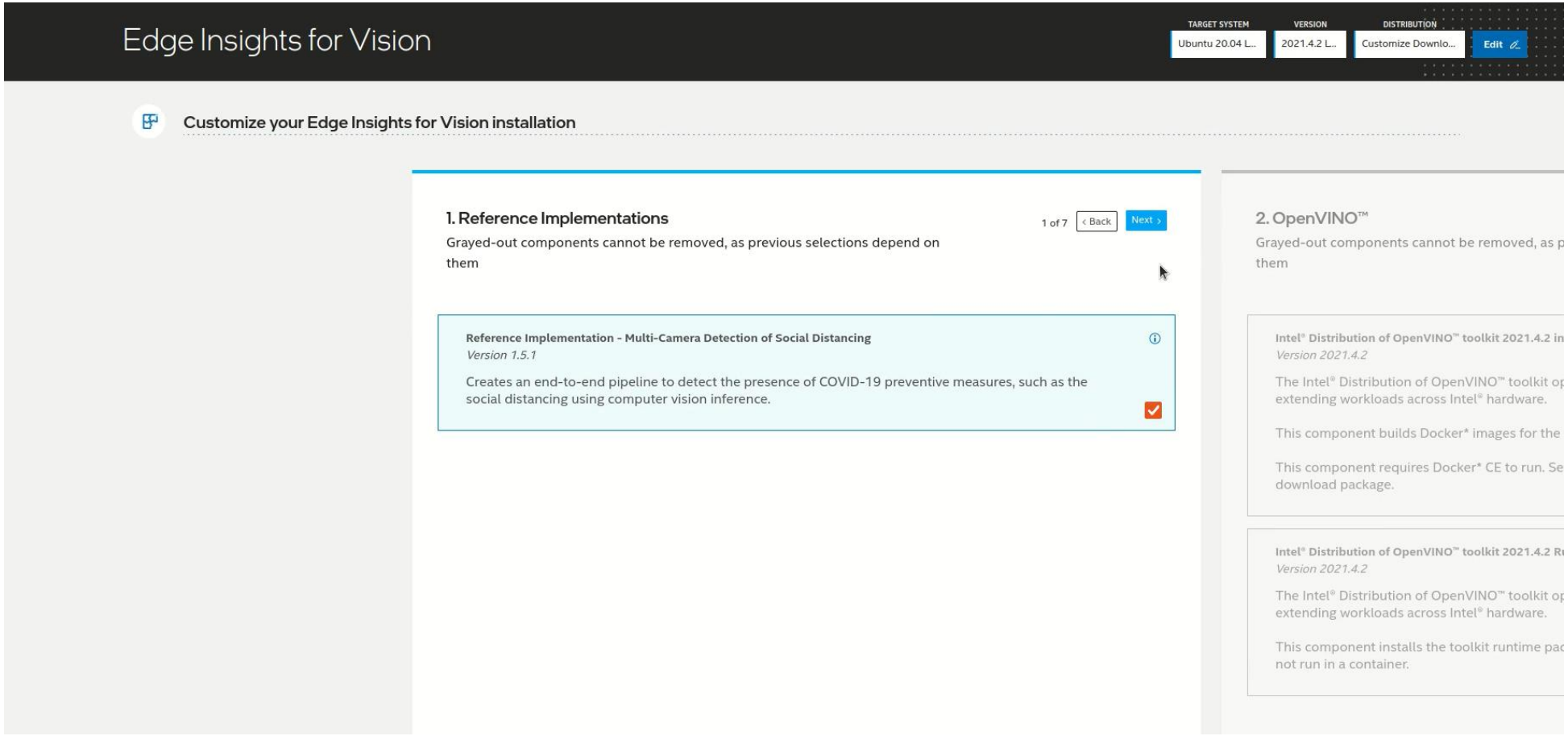
3. Choose target system and distribution.
4. Click “Customize Download”.



CONFIDENTIAL AND PROPRIETARY INFORMATION

Install OpenVINO

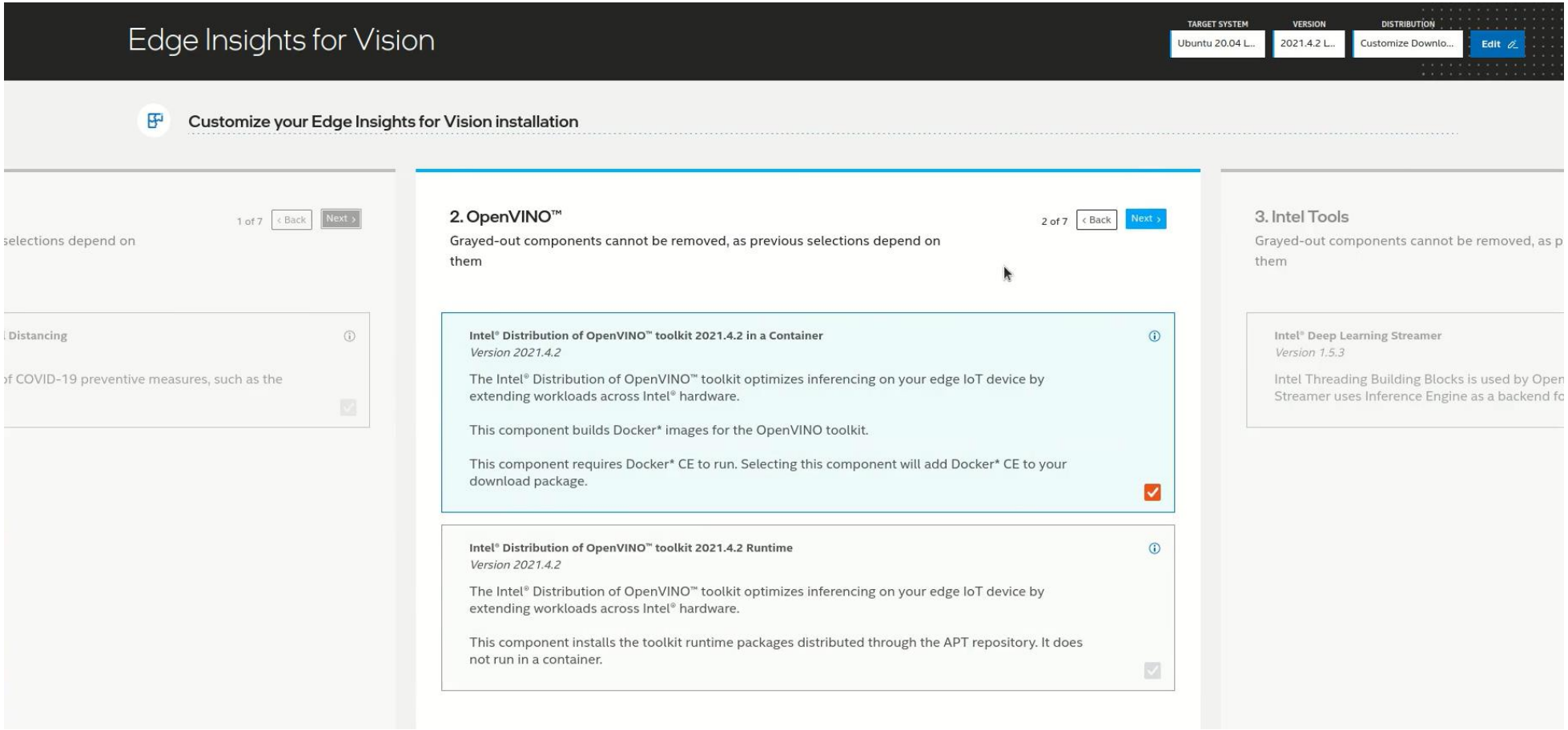
5. Select the Multi-Camera Detection if need to detect social distancing.



CONFIDENTIAL AND PROPRIETARY INFORMATION

Install OpenVINO

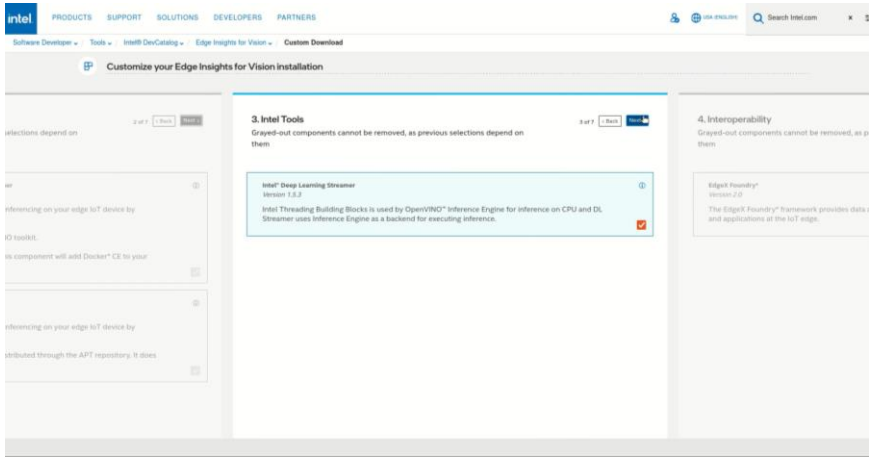
6. Select “Intel Distribution of OpenVINO toolkit 2021.4.2 in a Container”.

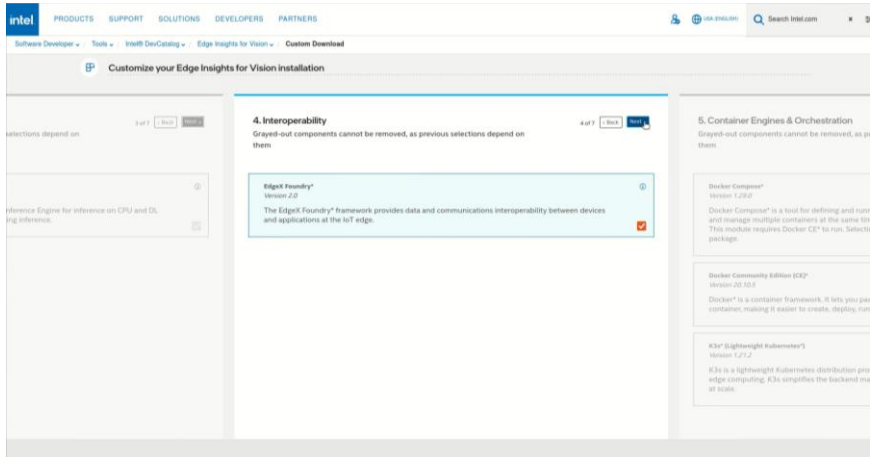


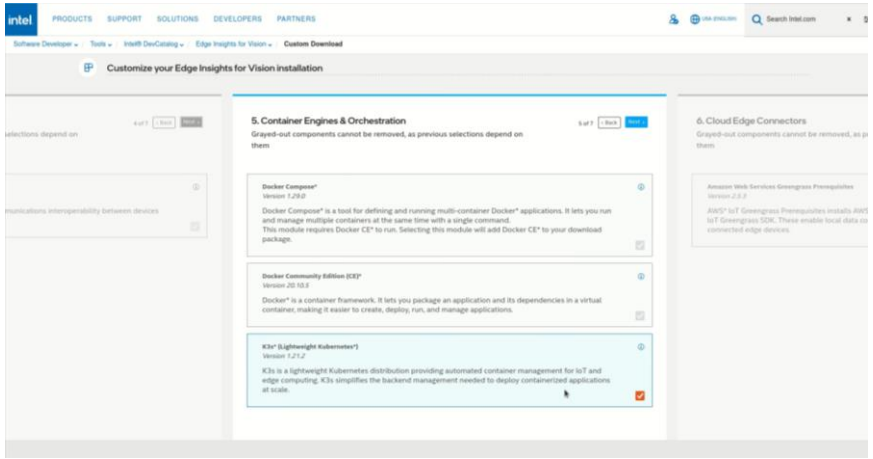
CONFIDENTIAL AND PROPRIETARY INFORMATION

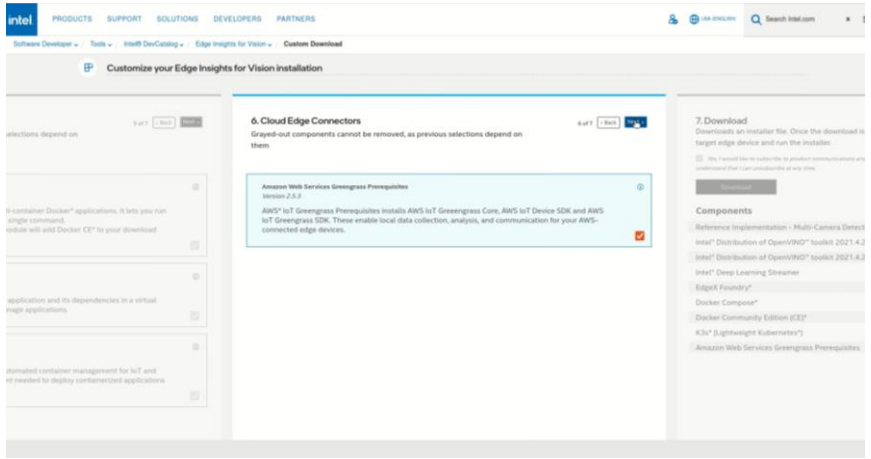
Install OpenVINO

7. Select other tools if needed.





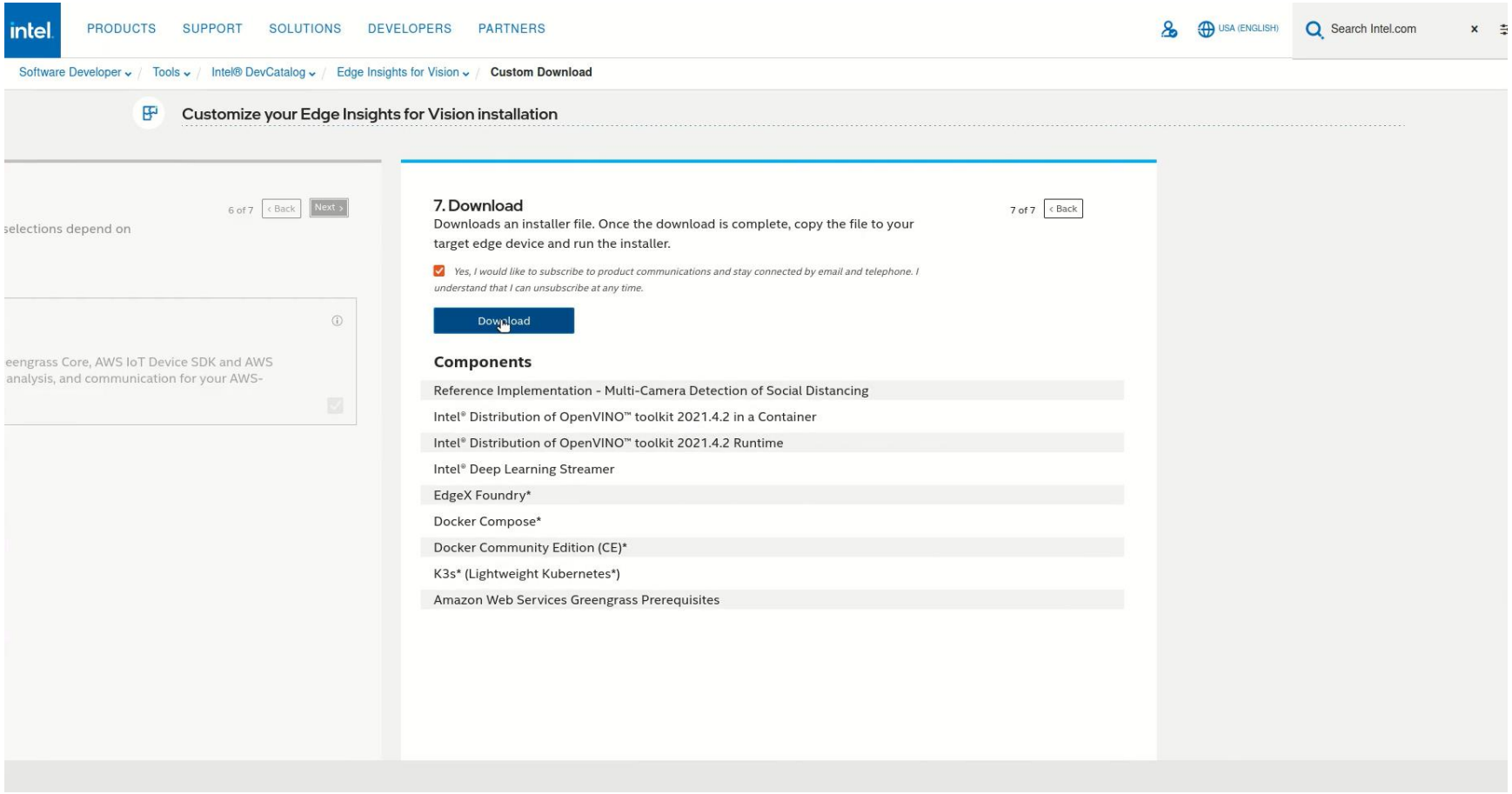




CONFIDENTIAL AND PROPRIETARY INFORMATION

Install OpenVINO

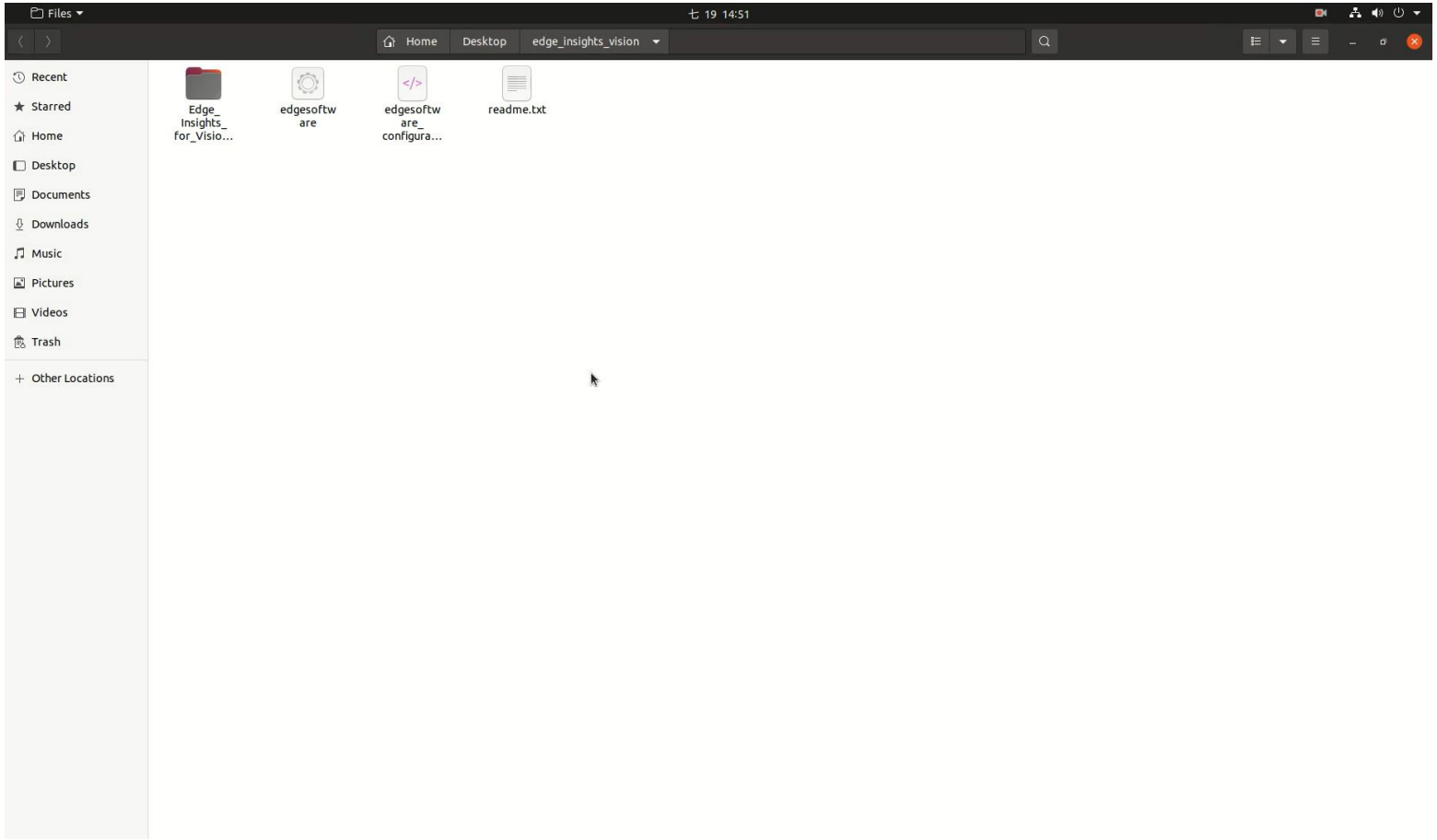
8. Download the package.



CONFIDENTIAL AND PROPRIETARY INFORMATION

Install OpenVINO

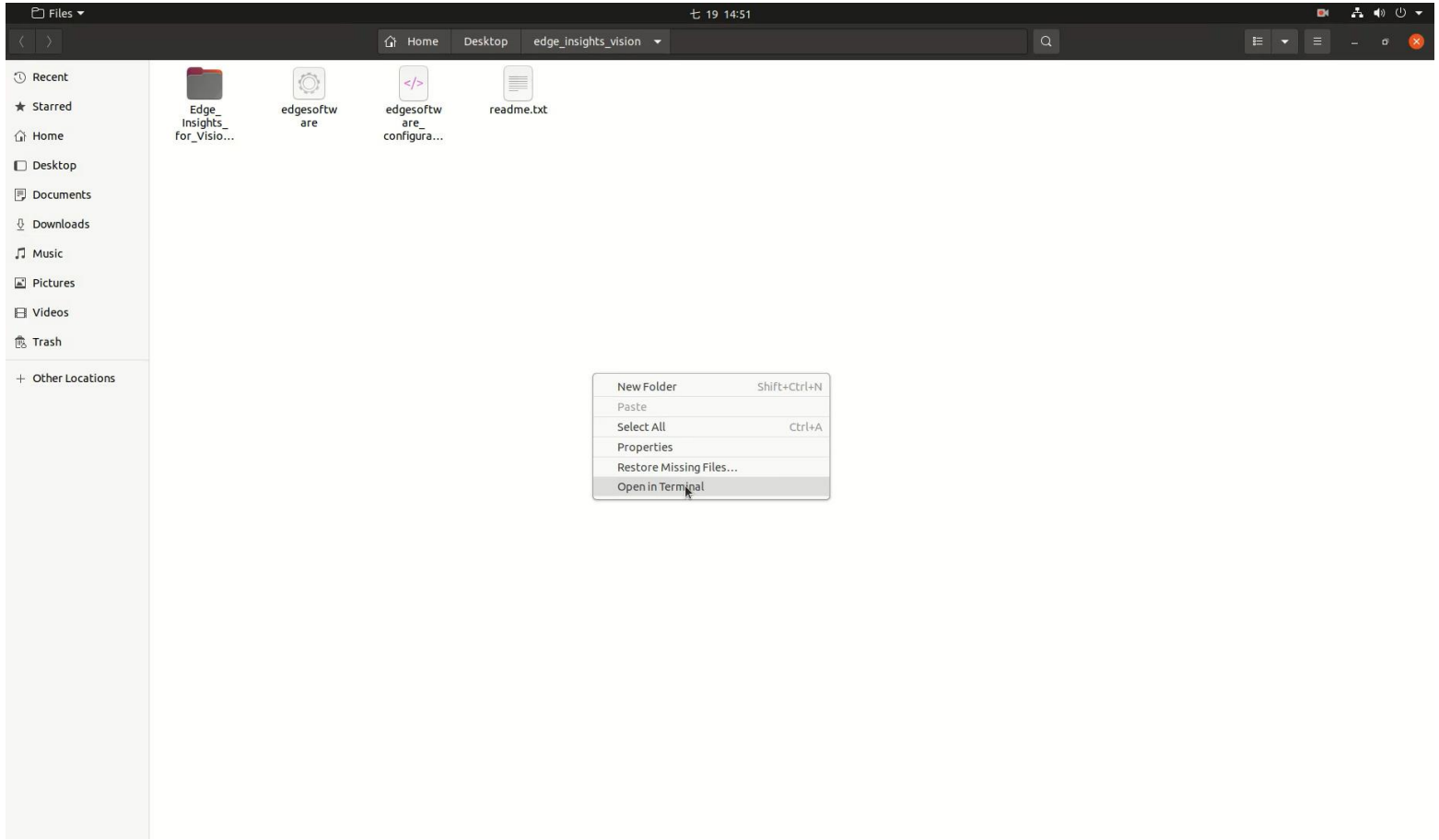
9. Copy the .zip file to folder.



CONFIDENTIAL AND PROPRIETARY INFORMATION

Install OpenVINO

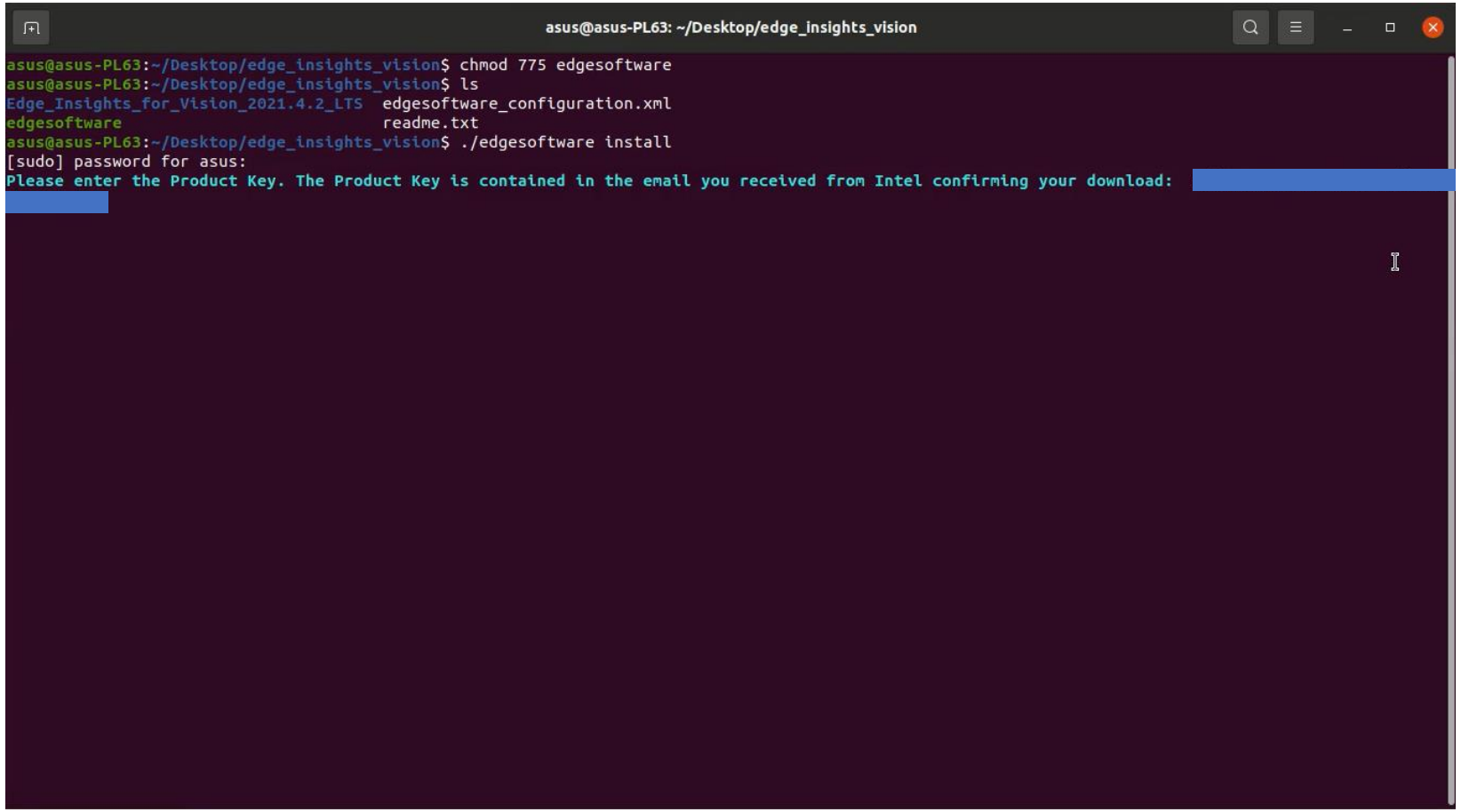
10. Choose “Open in Terminal”.



CONFIDENTIAL AND PROPRIETARY INFORMATION

Install OpenVINO

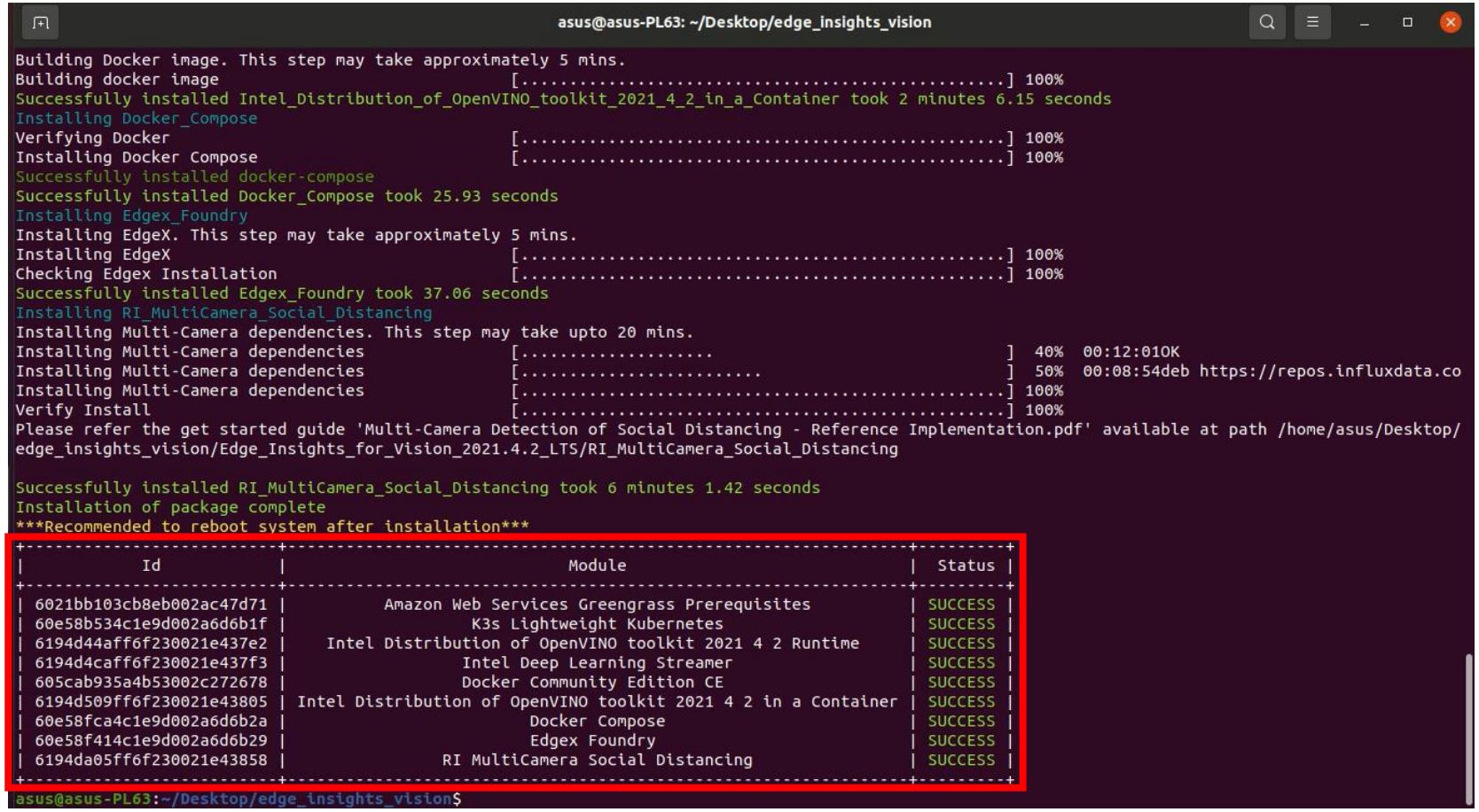
11. Type the white words and product key.



CONFIDENTIAL AND PROPRIETARY INFORMATION

Install OpenVINO

12. Wait for download. When the installation is complete, you will see the installation status for each module.



CONFIDENTIAL AND PROPRIETARY INFORMATION

Run the demo

CONFIDENTIAL AND PROPRIETARY INFORMATION

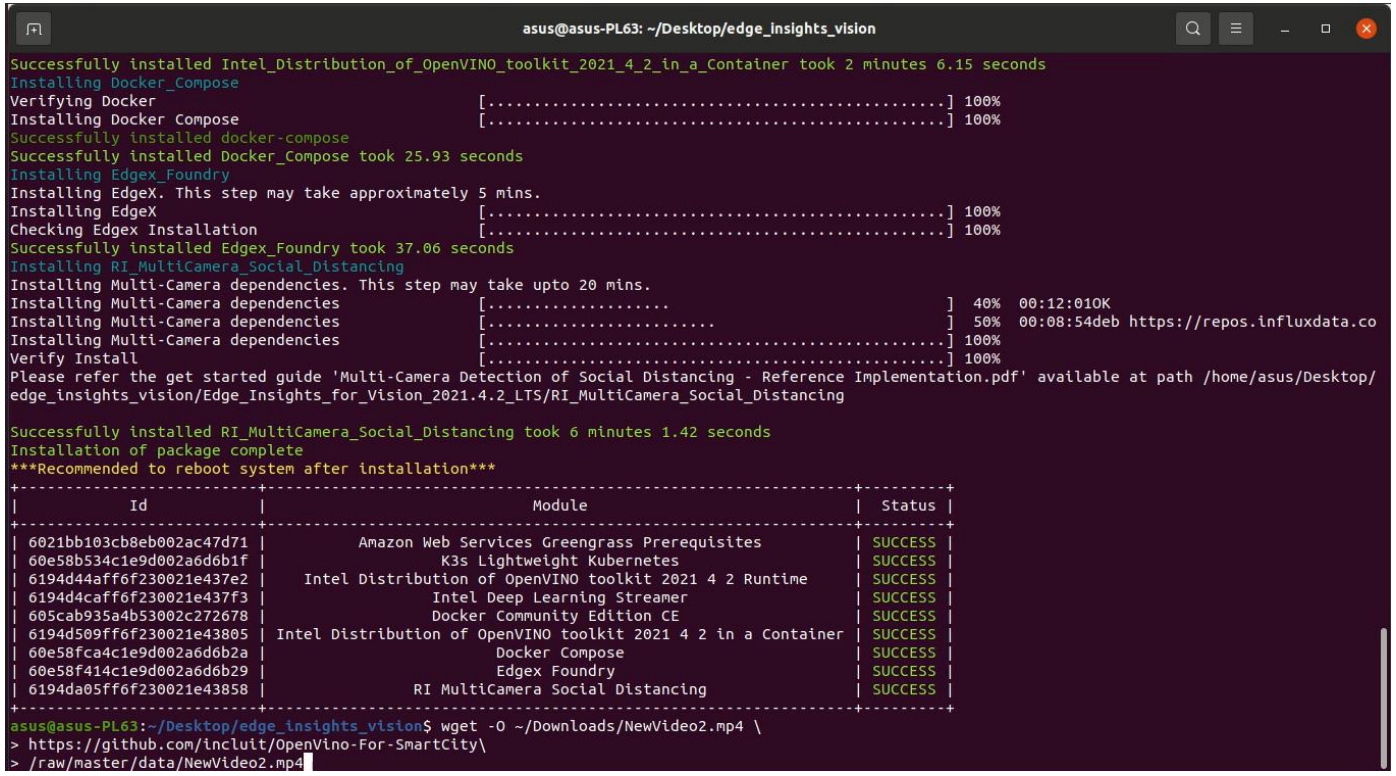
Run the demo

1. To get the demo video, please type words as below.

$ wget -O ~/Downloads/NewVideo2.mp4 \

https://github.com/incluit/OpenVino-For-SmartCity\

/raw/master/data/NewVideo2.mp4

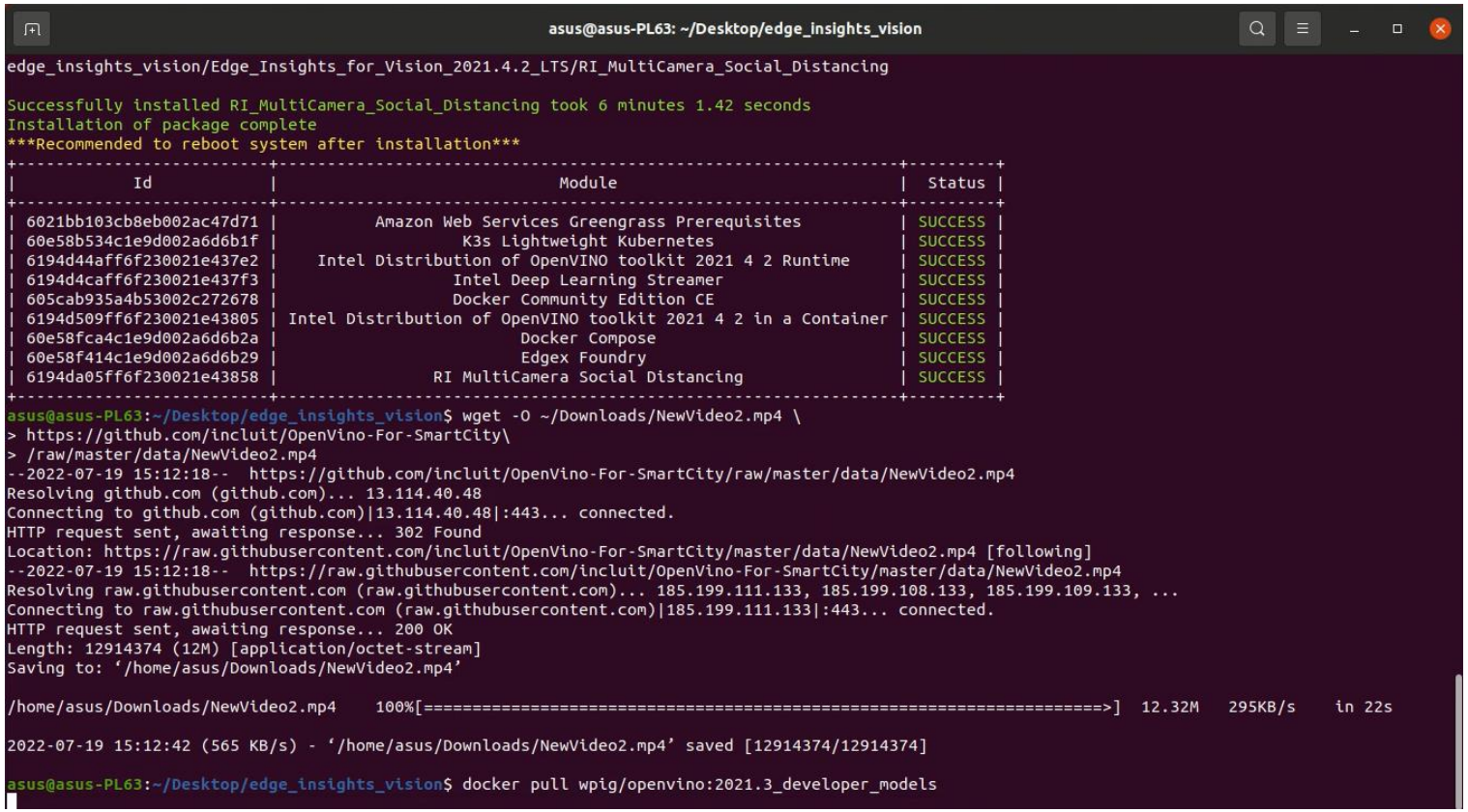


CONFIDENTIAL AND PROPRIETARY INFORMATION

Run the demo

2. Pull image from Docker Hub. Please type words as below.

$ docker pull wpig/openvino:2021.3_developer_models



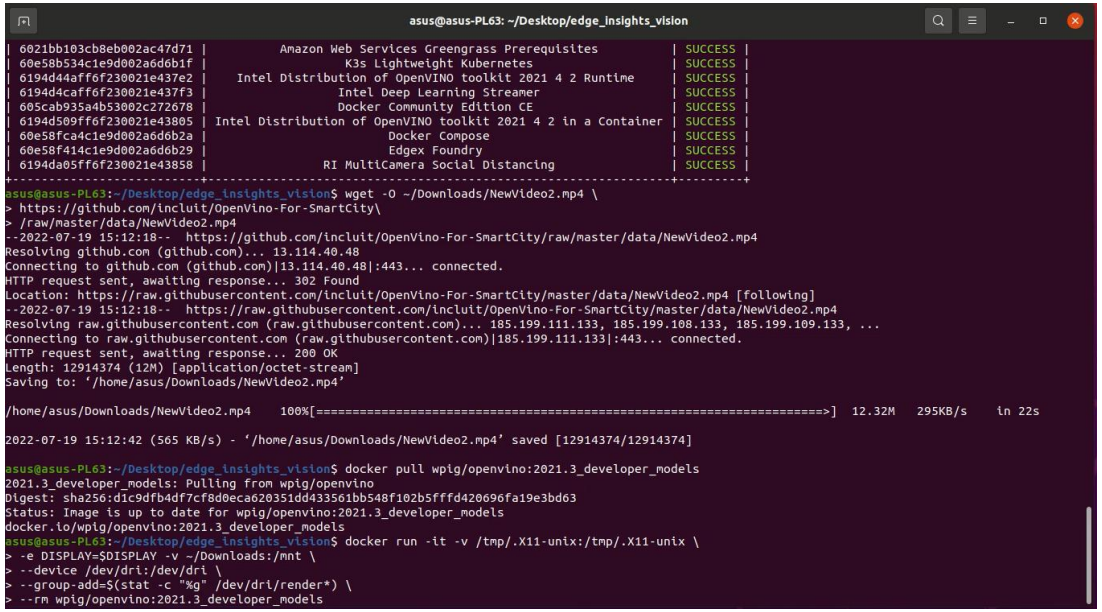
NOTE "wpig" should be changed to existing resource locations: sertek or synnexgrp or wt1com

CONFIDENTIAL AND PROPRIETARY INFORMATION

Run the demo

3. Run smart city demo. Please type words as below.

```
$ docker run -it -v /tmp/.X11-unix:/tmp/.X11-unix \
-e DISPLAY=$DISPLAY -v ~/Downloads:/mnt \
--device /dev/dri:/dev/dri \
--group-add=$(stat -c "%g" /dev/dri/render*) \
--rm wpig/openvino:2021.3_developer_models
```

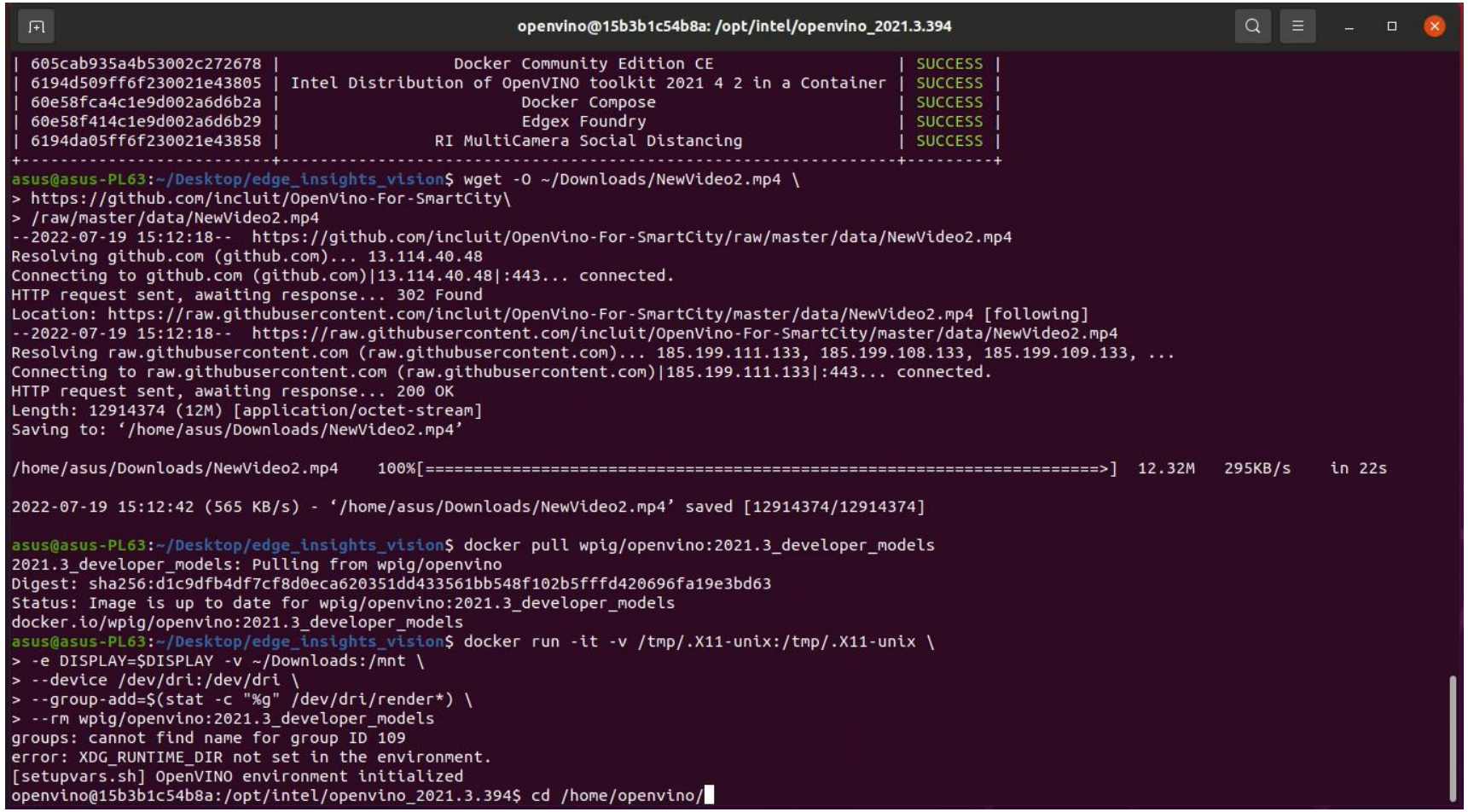


CONFIDENTIAL AND PROPRIETARY INFORMATION

Run the demo

4. Please type words as below.

$ cd /home/openvino/

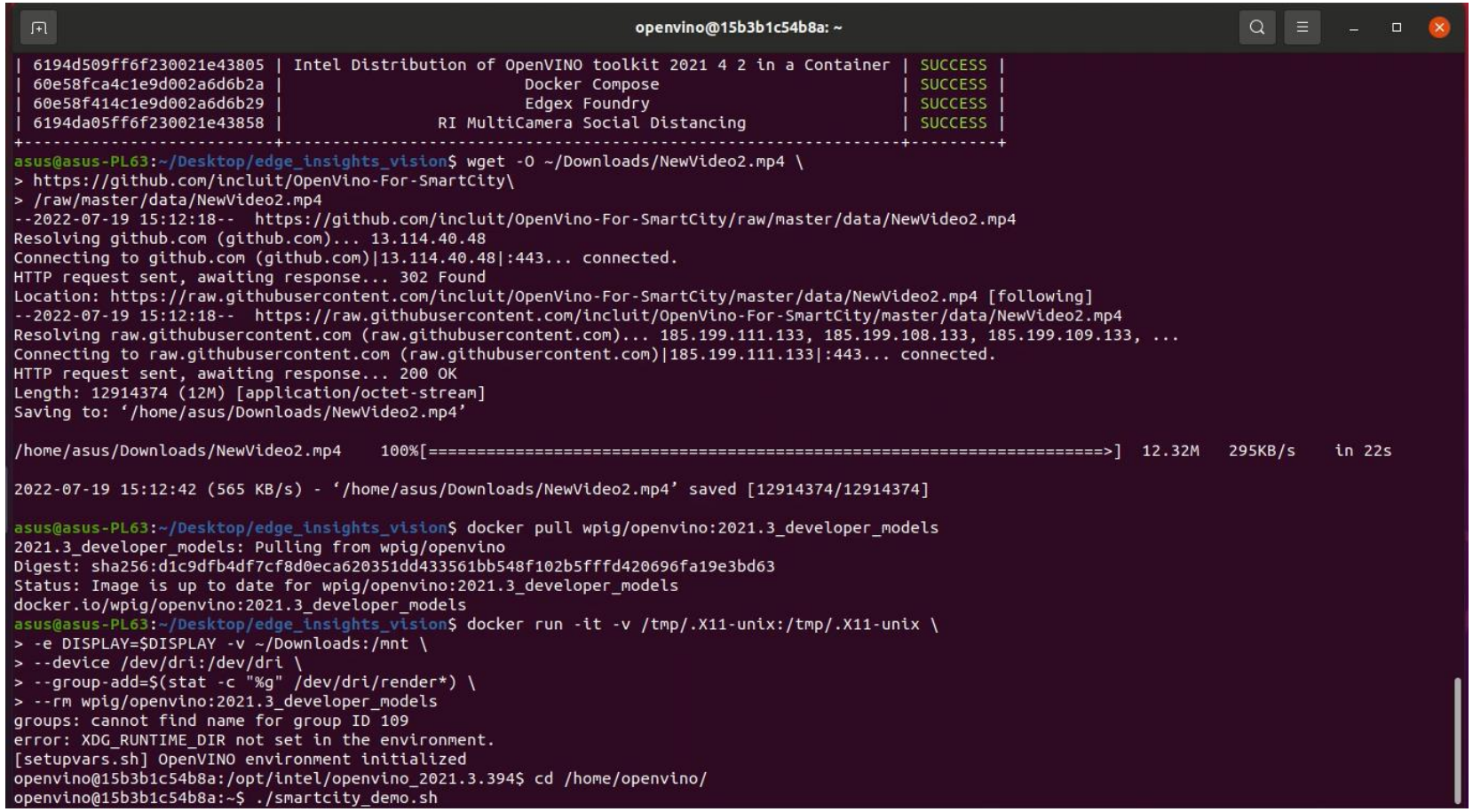


CONFIDENTIAL AND PROPRIETARY INFORMATION

Run the demo

5. Please type words as below.

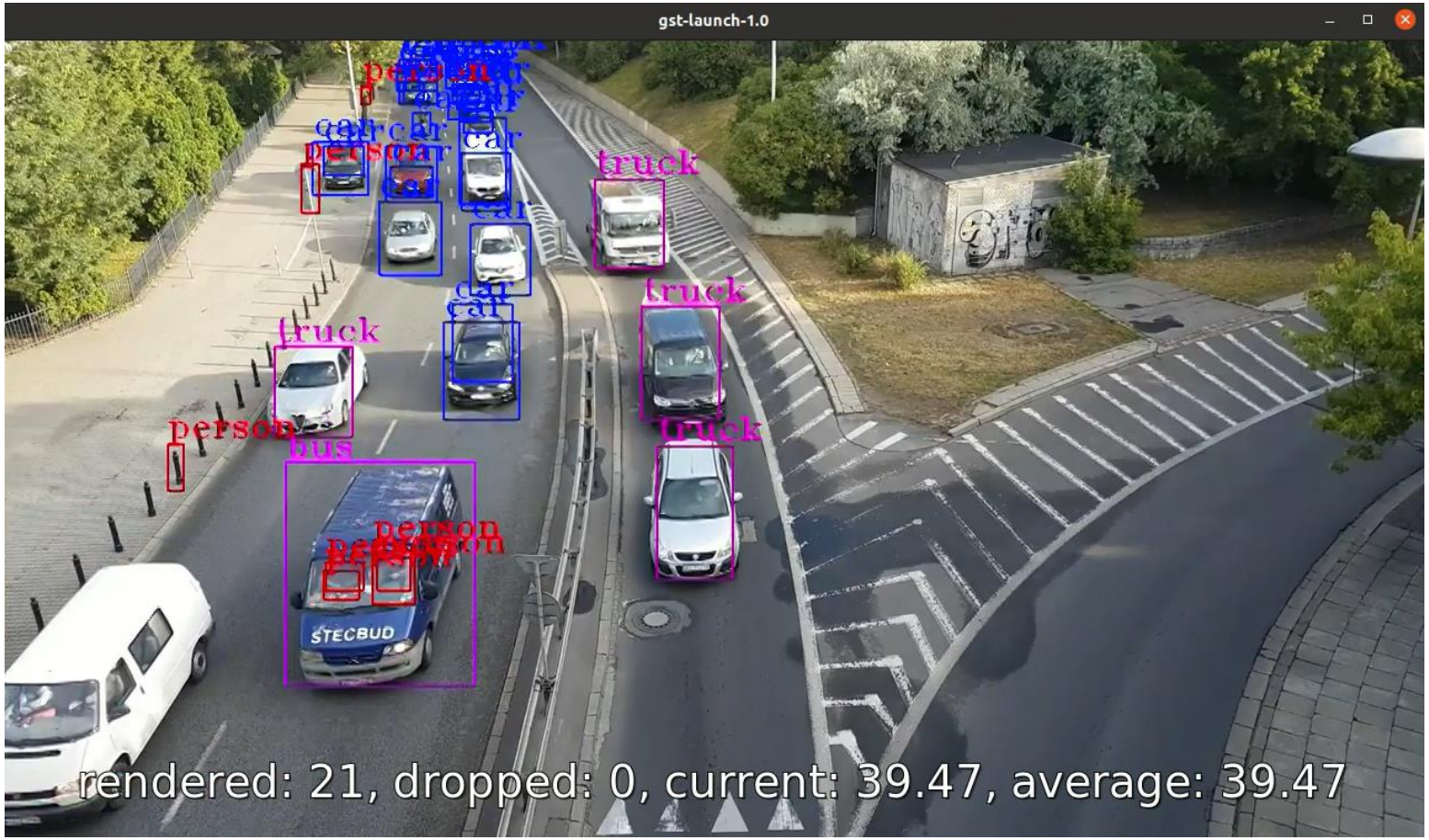
$ ./smartcity_demo.sh



CONFIDENTIAL AND PROPRIETARY INFORMATION

Run the demo

6. Run the smart city video.



CONFIDENTIAL AND PROPRIETARY INFORMATION

Run the demo

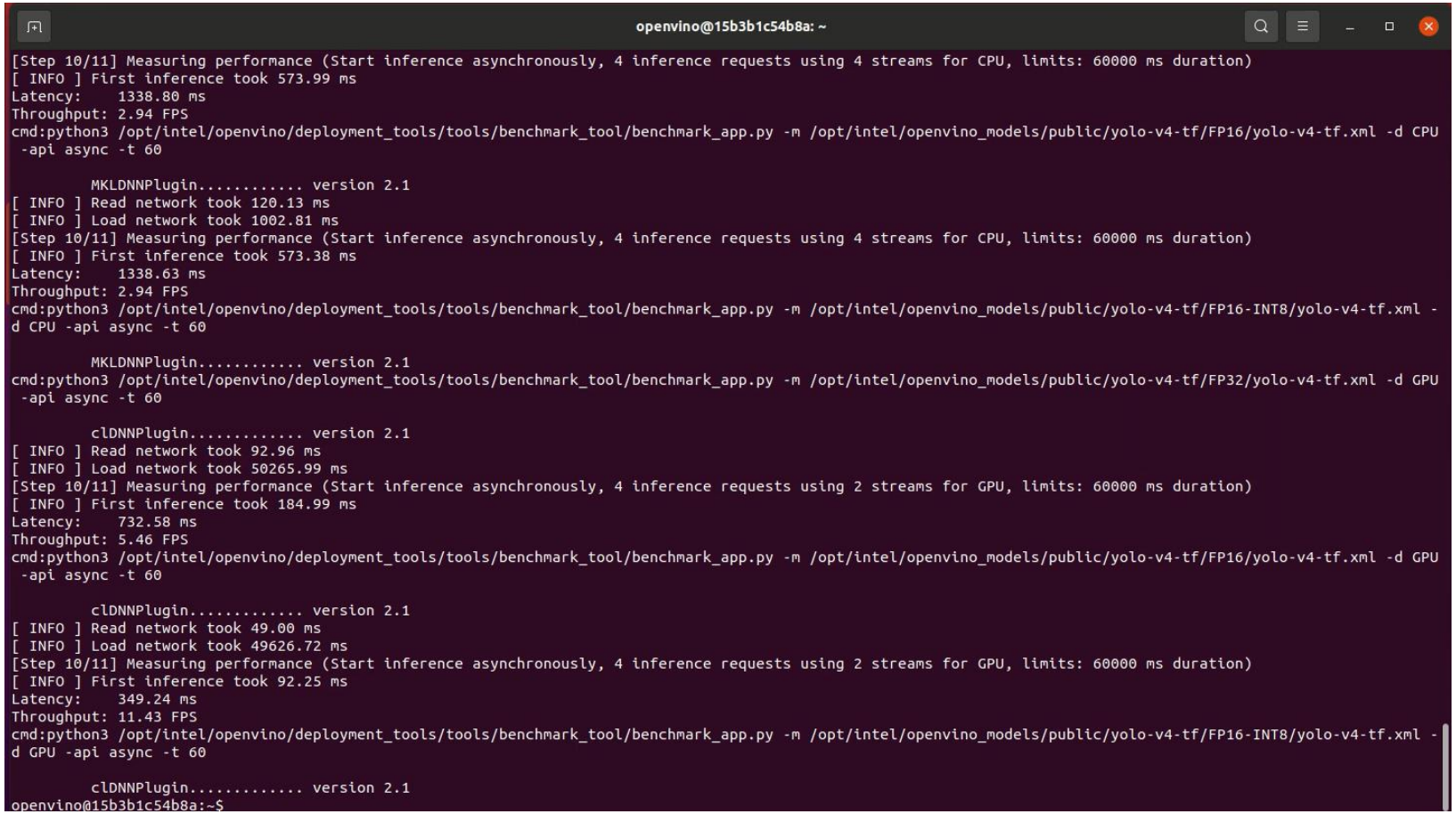
7. Prepare for the benchmark.

```
$ docker run -it -v /tmp/.X11-unix:/tmp/.X11-unix \
-e DISPLAY=$DISPLAY -v ~/Downloads:/mnt \
--device /dev/dri:/dev/dri \
--group-add=$(stat -c "%g" /dev/dri/render*) \
--rm wpig/openvino:2021.3_developer_models
$ cd /home/openvino/
$ python3 run_command.py
```


CONFIDENTIAL AND PROPRIETARY INFORMATION

Run the demo

8. Benchmark results.



CONFIDENTIAL AND PROPRIETARY INFORMATION

Thank you

CONFIDENTIAL AND PROPRIETARY INFORMATION