

Connect the camera



Check port connection -> Received 2 ports: /dev/video0 and /dev/video1

```
Terminal
user@eti-loaner-kit: ~
user@eti-loaner-kit:~$ ls /dev/video*
/dev/video0 /dev/video1
user@eti-loaner-kit:~$
```

For pushing eti docker images to registry
(useful in multi-node deployment scenarios)
: docker-compose push

For deployment via helm, successfully created consolidated
values.yaml at ./helm-eti/eti-deploy/.
Successfully copied all templates files of each eti modules to
./helm-eti/eti-deploy/templates/.
Refer ./helm-eti/README.md for deployment details.

****NOTE**:**
Please re-run the 'builder.py' whenever the individual docker-compose.yml,
config.json files of individual services are updated
and you need them to be considered

Reverting VideoAnalytics config from MultiModalVisualizationStreaming interface

Run the program `./setup_demo.sh` with option 2

```
done.
Notice: Trust flag u is set automatically if the private key is present.
user@eii-loaner-kit:~/Desktop$ ./setup_demo.sh
RTNETLINK answers: Network is unreachable
Please select one of the following video analytics demos:
1: PCB Defects Detection Demo
2: Safety Gear Detection Demo
3: Human Pose Estimation Demo
4: PCB Defects Detection + Safety Gear Detection + Human Pose Estimation Demo
5: Stop all running demos
Demo selected:
2
*****
Safety Gear Detection Demo
*****
Fetching required services from usecases/video-streaming-evam-datastore.yml...

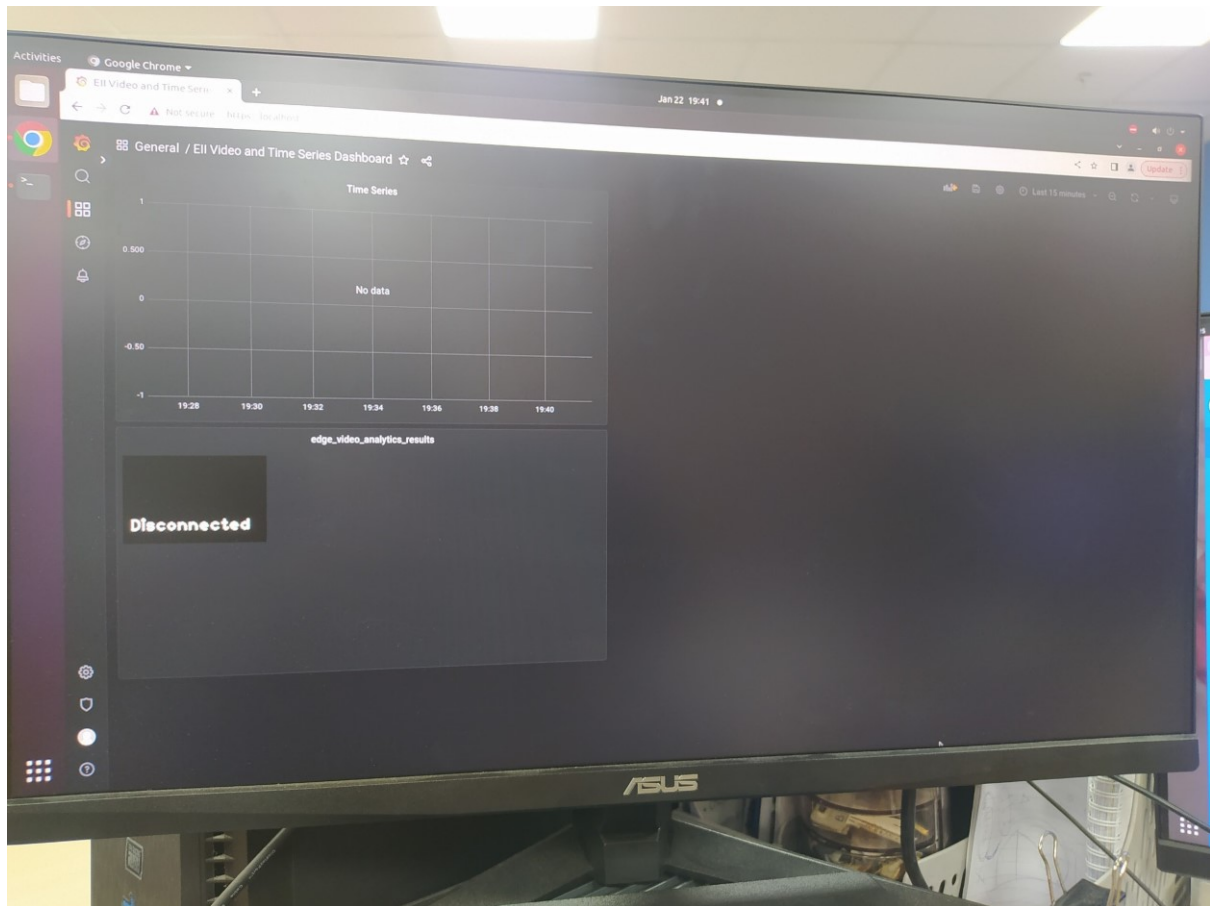
For deployment on single/multiple nodes,
successfully created below consolidated files:
* Required docker compose files: `docker-compose.yml`
* Consolidated config json of required EII services in
`docker-compose.yml` at `./eii_config.json`
Please run the below commands to bring up the EII stack:
Run:
# For building EII services
$ docker-compose build
# For running EII services
$ docker-compose up -d
# For pushing EII docker images to registry
(useful in multi-node deployment scenarios)
$ docker-compose push

For deployment via helm, successfully created consolidated
values.yaml at ./helm-eii/eii-deploy/.
Successfully copied all templates files of each eii modules to
./helm-eii/eii-deploy/templates/.
Refer `./helm-eii/README.md` for deployment details.

**NOTE**:
Please re-run the `builder.py` whenever the individual docker-compose.yml,
config.json files of individual services are updated
and you need them to be considered

Removing VideoAnalytics config from MultiModalVisualizationStreaming interface
Removing VideoAnalytics config from MultiModalVisualization interface
Removing VideoAnalytics config from DataStore interface
760fcc4b49bf
77cd900a93f4
bca8f7d10942
7c027dfaad52
3526ed1eadf6
c66bfca02343
Creating ia_edge_video_analytics_microservice ... done
Creating multimodal-data-visualization ... done
Creating ia_etcd_ui ... done
Creating ia_configmgr_agent ... done
Creating ia_datastore ... done
Creating multimodal-data-visualization-streaming ... done
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
Notice: Trust flag u is set automatically if the private key is present.
user@eii-loaner-kit:~/Desktop$
```

Result: Camera cannot be opened, camera stream data does not appear on the web



Run the program `./setup_demo.sh` with option 3

```
done.
Notice: Trust flag u is set automatically if the private key is present.
user@eii-loaner-kit:~/Desktop$ ./setup_demo.sh
RTNETLINK answers: Network is unreachable
Please select one of the following video analytics demos:
1: PCB Defects Detection Demo
2: Safety Gear Detection Demo
3: Human Pose Estimation Demo
4: PCB Defects Detection + Safety Gear Detection + Human Pose Estimation Demo
5: Stop all running demos
Demo selected:
3
*****
Human Pose Estimation Demo
*****
Fetching required services from usecases/video-streaming-evam-datastore.yml...

For deployment on single/multiple nodes,
successfully created below consolidated files:
* Required docker compose files: 'docker-compose.yml'
* Consolidated config json of required EII services in
'docker-compose.yml' at './ei_config.json'
Please run the below commands to bring up the EII stack:
Run:
# For building EII services
$ docker-compose build
# For running EII services
$ docker-compose up -d
# For pushing EII docker images to registry
(useful in multi-node deployment scenarios)
$ docker-compose push

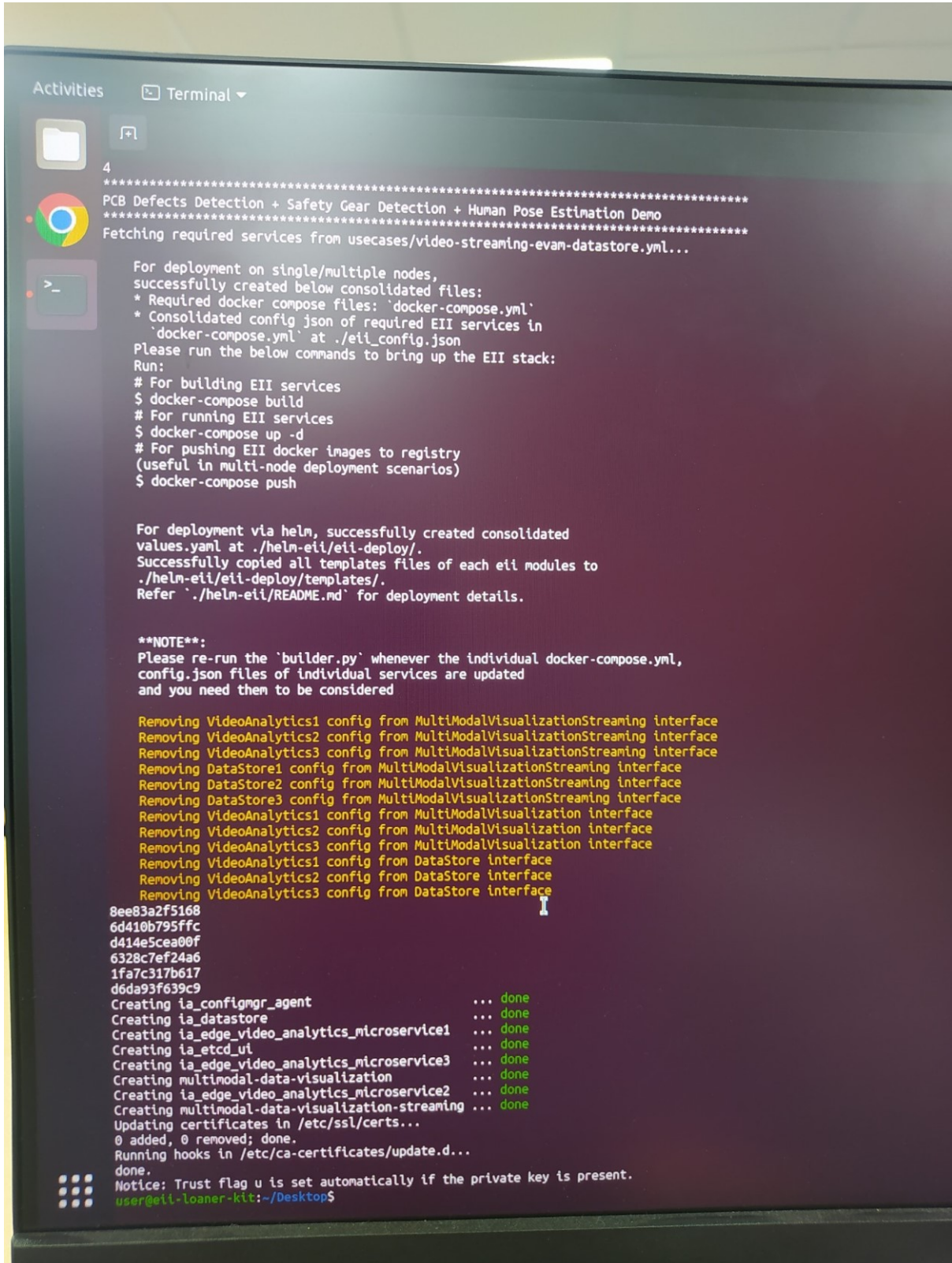
For deployment via helm, successfully created consolidated
values.yaml at './helm-eii/eii-deploy/'.
Successfully copied all templates files of each eii modules to
./helm-eii/eii-deploy/templates/.
Refer './helm-eii/README.md' for deployment details.

**NOTE**:
Please re-run the 'builder.py' whenever the individual docker-compose.yml,
config.json files of individual services are updated
and you need them to be considered

Removing VideoAnalytics config from MultiModalVisualizationStreaming interface
Removing VideoAnalytics config from MultiModalVisualization interface
Removing VideoAnalytics config from DataStore interface
0c35800d63b5
e11c9c499d70
78dd7d3d83fd
168b1504f8a1
37651ccd3e72
6910c0cf1df5
Creating multimodal-data-visualization-streaming ... done
Creating multimodal-data-visualization ... done
Creating ia_datastore ... done
Creating ia_etcd_ui ... done
Creating ia_configmgr_agent ... done
Creating ia_edge_video_analytics_microservice ... done
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
Notice: Trust flag u is set automatically if the private key is present.
user@eii-loaner-kit:~/Desktop$
```

Result: The test result is the same as case 2

Run the program `./setup_demo.sh` with option 4



```
Activities Terminal
4
*****
PCB Defects Detection + Safety Gear Detection + Human Pose Estimation Demo
*****
Fetching required services from usecases/video-streaming-evan-datastore.yml...

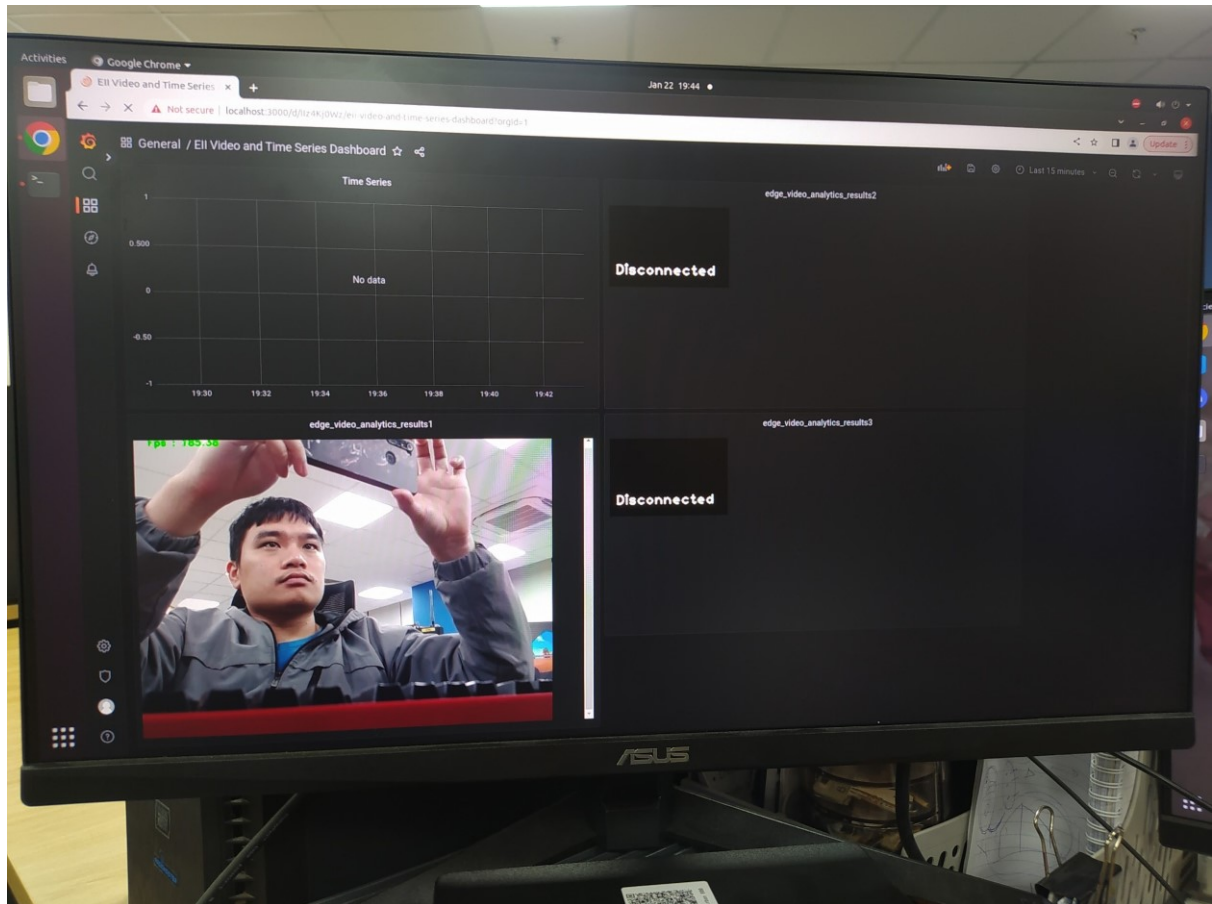
For deployment on single/multiple nodes,
successfully created below consolidated files:
* Required docker compose files: 'docker-compose.yml'
* Consolidated config json of required EII services in
'docker-compose.yml' at './eii_config.json'
Please run the below commands to bring up the EII stack:
Run:
# For building EII services
$ docker-compose build
# For running EII services
$ docker-compose up -d
# For pushing EII docker images to registry
(useful in multi-node deployment scenarios)
$ docker-compose push

For deployment via helm, successfully created consolidated
values.yaml at './helm-eii/eii-deploy/'.
Successfully copied all templates files of each eii modules to
./helm-eii/eii-deploy/templates/.
Refer './helm-eii/README.md' for deployment details.

**NOTE**:
Please re-run the 'builder.py' whenever the individual docker-compose.yml,
config.json files of individual services are updated
and you need them to be considered

Removing VideoAnalytics1 config from MultiModalVisualizationStreaming interface
Removing VideoAnalytics2 config from MultiModalVisualizationStreaming interface
Removing VideoAnalytics3 config from MultiModalVisualizationStreaming interface
Removing DataStore1 config from MultiModalVisualizationStreaming interface
Removing DataStore2 config from MultiModalVisualizationStreaming interface
Removing DataStore3 config from MultiModalVisualizationStreaming interface
Removing VideoAnalytics1 config from MultiModalVisualization interface
Removing VideoAnalytics2 config from MultiModalVisualization interface
Removing VideoAnalytics3 config from MultiModalVisualization interface
Removing VideoAnalytics1 config from DataStore interface
Removing VideoAnalytics2 config from DataStore interface
Removing VideoAnalytics3 config from DataStore interface
8ee83a2f5168
6d410b795ffc
d414e5cea00f
6328c7ef24a6
1fa7c317b617
d6da93f639c9
Creating ia_configmgr_agent ... done
Creating ia_datastore ... done
Creating ia_edge_video_analytics_microservice1 ... done
Creating ia_etcd_ui ... done
Creating ia_edge_video_analytics_microservice3 ... done
Creating multimodal-data-visualization ... done
Creating ia_edge_video_analytics_microservice2 ... done
Creating multimodal-data-visualization-streaming ... done
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
Notice: Trust flag u is set automatically if the private key is present.
user@eii-loaner-kit:~/Desktop$
```

Result: Can connect to Camera, Stream frame 1 camera on the web with high latency. The stream on frame 2 and 3 does not appear



Testing with protective suits also did not show the results as described in the document

