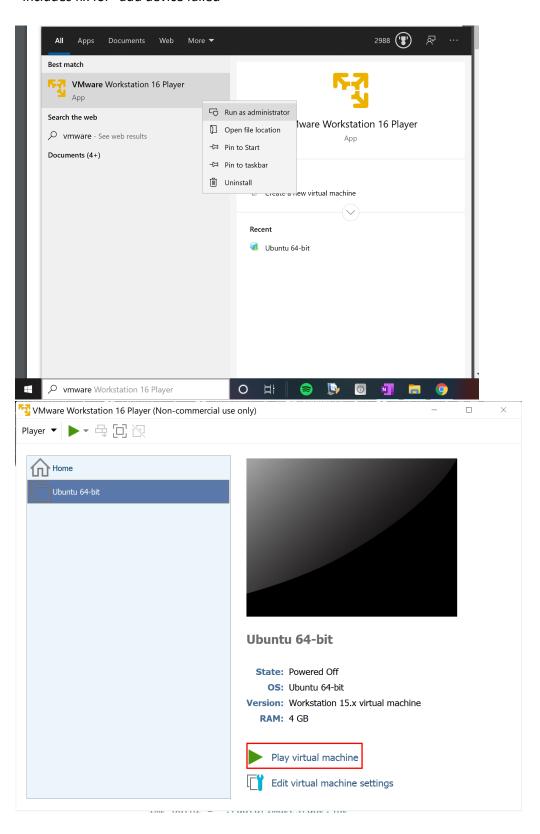
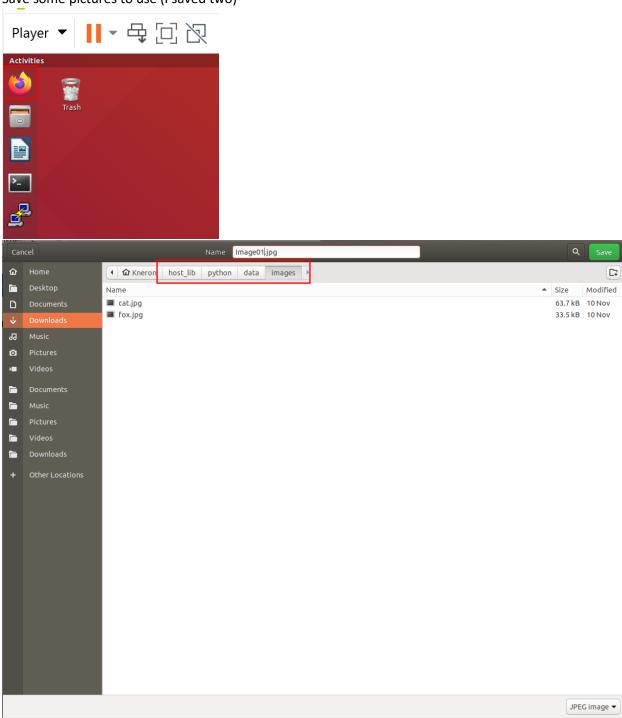
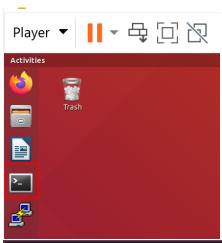
## \*Includes fix for "add device failed"



## Save some pictures to use (I saved two)





Kneron@ubuntu:~\$ cd host\_lib/python/examples/
Kneron@ubuntu:~/host\_lib/python/examples\$ gedit dme\_keras.py

Remove comment on some lines and rename the img path image name to your saved image

```
Open ▼
This is the example for dme keras single test.
from python_wrapper import kdp_wrapper
<del>import numpy as np</del>
from keras.applications.mobilenet_v2 import preprocess_input, decode_predictions
def top indexes(preds, n):
    sort_preds = np.sort(preds,1)
    sort_preds = np.flip(sort_preds)
    sort_index = np.argsort(preds,1)
    sort_index = np.flip(sort_index)
    for i in range(0, n):
        print(sort_index[0][i], sort_preds[0][i])
    return
def user test single dme(dev idx):
    """Test single dme.""
    # load model into Kneron device
    model path = "../test images/dme mobilenet"
    kdp wrapper.kdp dme load model(dev idx, model path)
    #get test images ready
    img_path = './data/images/Image01.
    img_path2 = './data/images/Image02.jpg'
    npraw_data = kdp_wrapper.kdp_inference(dev_idx, img_path)
    # Do postprocessing with keras
    preds = kdp_wrapper.softmax(npraw_data[0]).reshape(1, 1000)
    top_indexes(preds, 3)
    print('\nPredicted:', decode_predictions(preds, top=3)[0])
    npraw data = kdp wrapper.kdp inference(dev idx, img path2)
    # Do postprocessing with keras
    preds = kdp_wrapper.softmax(npraw_data[0]).reshape(1, 1000)
    top indexes(preds, 3)
    print('\nPredicted:', decode_predictions(preds, top=3)[0])
    kdp_wrapper.kdp_exit_dme(dev_idx)
def user_test_dme_keras(dev_idx, user_id):
    # dme test
    user_test_single_dme(dev_idx)
    return 0
Kneron@ubuntu:~/host_lib/python/examples$ cd ...
Kneron@ubuntu:~/host_lib/python$ python3 main.py -t dme keras
```

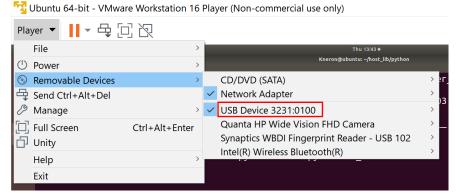
## Fix for add device failure:

1. Look for ID 3231:0100. It is missing in this image below.

```
Kneron@ubuntu:~/host_lib/python$ lsusb

Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 003 Device 004: ID 0e0f:0002 VMware, Inc. Virtual USB Hub
Bus 003 Device 003: ID 0e0f:0002 VMware, Inc. Virtual USB Hub
Bus 003 Device 002: ID 0e0f:0003 VMware, Inc. Virtual Mouse
Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
```

2. Connect your USB Device (Kneron)



3. 3231:0100 should appear now

```
Kneron@ubuntu:~/host_lib/python$ lsusb

Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub

Bus 003 Device 004: ID 0e0f:0002 VMware, Inc. Virtual USB Hub

Bus 003 Device 003: ID 0e0f:0002 VMware, Inc. Virtual USB Hub

Bus 003 Device 005: ID 3231:0100

Bus 003 Device 002: ID 0e0f:0003 VMware, Inc. Virtual Mouse

Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub

Bus 001 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub

Bus 002 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
```

## Result



Image01.jpg



Image02.jpg