## Required Python Libraries

### Qiling Framework

```

pip3 install qiling

```

### Unicorn Engine

```

pip install unicorn

```

### Capstone

```

pip install capstone

```

## Setup Test

After installing libraries run `cp\_test.py`. It it works and you get the following output then proceed to the next section.

```

0x1000: mov r0, #0x37

0x1004: sub r1, r2, r3

```

If `incompatible architecture (have 'x86\_64', need 'arm')` error or simlar error shows up when executing the python scipt try the following.

```

conda install -c conda-forge lxml

```

If the issue persists, kindly install an ubuntu virtual machine on your device and install the python libraries required for the lab on the VM

You can follow these video guides:

Windows : https://www.youtube.com/watch?v=v1JVqd8M3Yc

macOS Intel : https://www.youtube.com/watch?v=Hzji7w882OY

macOS M1/M2 : https://www.youtube.com/watch?v=1WWj6qoWhJw

## Initial setup

Download rootfs for the qiling framework

```

https://github.com/qilingframework/rootfs.git

```

Copy the pass binary to the `rootfs/arm\_linux/bin` folder