**Packet loss percent:**

net.addlink(h1,s1,cls=TCLink,bw=10,delay=’1ms’ loss=50)

**To see every node:**

nodes

**To see network:**

net

dump

**To open terminal from host1:**

xterm h1

**pox controller:**

sudo pox/pox.py forwarding.l2\_learning openflow.spanning-tree –no-flood –hold-down log.level –DEBUG samples.preety\_log openflow.discovery host\_tracker info.packet\_dump

**to learn IP address:**

ifconfig

**to run linear topology:**

sudo mn –wifi --topo linear,5 –controller=remote,ip=192.75.168.128,port=6633

**to see ports:**

dpctl dump-ports-desc

**to test:**

pingall

sta1 ping sta2

**to see sta1 status:**

sta1 iw dev sta1-wlan0 link

**to disconnect from ap1:**

sta1 iw dev sta1-wlan0 disconnect

**to connect to ap2:**

sta1 iw dev sta1-wlan0 connect ssid\_ap2

**to see flow table status:**

dpctl dump-flows

**to exit mininet:**

exit

**to clean topology and controller:**

sudo mn –c

**to kill controller process:**

ps

kill -9 “process number”

**iperf:**

(testing TCP bandwidth)

iperf sta1 sta2

**distance:**

distance sta1 sta2

distance sta1 ap1

**info about sta1:**

sta1 iwconfig

sta1 iwconfig | grep –i --color quality

sta1 iwconfig | grep –i --color signal