Part 3:

1)

Pingall

```
mininet> pingall
*** Ping: testing ping reachability
h10 -> h20 h30 X serv1
h20 -> h10 h30 X serv1
h30 -> h10 h20 X serv1
hnotrust1 -> X X X X
serv1 -> h10 h20 h30 X
*** Results: 40% dropped (12/20 received)
```

2)

Iperf

```
mininet> iperf hnotrust1 h10
*** Iperf: testing TCP bandwidth between hnotrust1 and h10
*** Results: ['34.4 Gbits/sec', '34.4 Gbits/sec']
mininet> iperf h10 serv1
*** Iperf: testing TCP bandwidth between h10 and serv1
*** Results: ['32.2 Gbits/sec', '32.3 Gbits/sec']
mininet>
```

3)

dpctl dump-flows

```
mininet> dpctl dump-flows
*** cores21 ------------------------------------------------------------------
 cookie=0x0, duration=345.593s, table=0, n_packets=2, n_bytes=196, priority=200,ip,nw_src=172.16.10.100,nw_dst=10.0.4.10 actions=drop
 cookie=0x0, duration=345.593s, table=0, n_packets=6, n_bytes=588, priority=200,icmp,nw_src=172.16.10.100 actions=drop
 cookie=0x0, duration=345.592s, table=0, n_packets=869771, n_bytes=21563111810, priority=100,ip,nw_dst=10.0.1.10 actions=output:"cores21-eth1"
 cookie=0x0, duration=345.591s, table=0, n_packets=6, n_bytes=588, priority=100,ip,nw_dst=10.0.2.20 actions=output:"cores21-eth2"
 cookie=0x0, duration=345.591s, table=0, n_packets=6, n_bytes=588, priority=100,ip,nw_dst=10.0.3.30 actions=output:"cores21-eth3"
 cookie=0x0, duration=345.591s, table=0, n_packets=457794, n_bytes=20204425252, priority=100,ip,nw_dst=10.0.4.10 actions=output:"cores21-eth4"
 cookie=0x0, duration=345.590s, table=0, n_packets=413548, n_bytes=27294492, priority=100,ip,nw_dst=172.16.10.100 actions=output:"cores21-eth5"
 cookie=0x0, duration=345.589s, table=0, n_packets=161, n_bytes=10570, priority=50 actions=FLOOD
*** dcs31 -------------------------------------------------------------------
 cookie=0x0, duration=345.585s, table=0, n_packets=840102, n_bytes=20229657896, priority=100 actions=FLOOD
*** s1 ----------------------------------------------------------------------
 cookie=0x0, duration=331.618s, table=0, n_packets=1741265, n_bytes=41794841214, priority=100 actions=FLOOD
*** s2 ----------------------------------------------------------------------
 cookie=0x0, duration=345.597s, table=0, n_packets=173, n_bytes=11754, priority=100 actions=FLOOD
*** s3 ----------------------------------------------------------------------
 cookie=0x0, duration=345.600s, table=0, n_packets=173, n_bytes=11754, priority=100 actions=FLOOD
mininet>
```