pingall

```
vagrant@ubuntu-focal:~$ sudo python ~/461 mininet/topos/part4.py
Unable to contact the remote controller at 127.0.0.1:6653
mininet> pingall .1
*** Ping: testing ping reachability
h10 -> X X X X
h20 -> X X X X
h30 -> X h20 X X
hnotrust1 -> X X X X
serv1 -> X h20 h30 X
*** Results: 85% dropped (3/20 received)
mininet> pingall .1
*** 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)
mininet>
```

iperf

```
mininet> iperf hnotrust1 h10

*** Iperf: testing TCP bandwidth between hnotrust1 and h10

*** Results: ['33.6 Gbits/sec', '33.6 Gbits/sec']
mininet> iperf h10 serv1

*** Iperf: testing TCP bandwidth between h10 and serv1

*** Results: ['33.3 Gbits/sec', '33.4 Gbits/sec']
mininet>
```

dpctl dump-flows

```
mininet> dpctl dump-flows
*** cores21 -----
cookie=0x0, duration=75.726s, table=0, n packets=29, n bytes=2842, priority=2,icmp.nw src=172.16.10.100 actions=drop
cookie=0x0, duration=75.726s, table=0, n packets=0, n bytes=0, priority=2,ip,in port="cores21-eth5",nw src=172.16.10.100,nw dst=10.0.4.10 actions=drop
cookie=0x0, duration=18.931s, table=0, n packets=6, n bytes=588, priority=1,ip,nw dst=10.0.4.10 actions=mod dl dst:00:00:00:00:00:00:00:04,output:"cores21-eth4"
cookie=0x0, duration=19.165s, table=0, n packets=0, n bytes=0, priority=1,icmp,nw dst=10.0.1.10 actions=mod dl dst:00:00:00:00:00:00:00:00:00:cores21-eth1"
*** dcs31 -----
cookie=0x0, duration=75.712s, table=0, n packets=65, n bytes=5834, actions=FLOOD
*** S1 -----
cookie=0x0, duration=75.741s, table=0, n packets=70, n bytes=6316, actions=FLOOD
*** s? -----
cookie=0x0, duration=75.730s, table=0, n packets=69, n bytes=6206, actions=FLOOD
cookie=0x0, duration=75.742s, table=0, n packets=68, n bytes=6108, actions=FLOOD
```