Lab2 Mininet

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1.

Every pair is limited by 10Mbps bandwidth, except h1-h3.

2. Iperf shows data transfer passing links with packet loss is significantly slower, only h1-h3 is unaffected.

```
And the first controller

The Controller

The
```

After adding the new link, pingall command shows all host pairs are unreachable. The reason: The new link generates a loop in the network, and without flow control the traffic can get stuck in the loop forever and never reach destination.

The solution: I added flow rules to s1 and s2 so that the traffic no longer loops. You can see after adding flow rules, the network now works as intended (packet drop still make some seem unreachable, just like in 2.).

```
pecho "adding flow rules.."

sudo ovs-ofctl add-flow s1 "in_port=1 actions=output:2,4"

sudo ovs-ofctl add-flow s1 "in_port=2 actions=output:1,4"

sudo ovs-ofctl add-flow s1 "in_port=4 actions=output:1,2"

sudo ovs-ofctl add-flow s2 "in_port=2 actions=output:3,4"

sudo ovs-ofctl add-flow s2 "in_port=3 actions=output:2,4"

sudo ovs-ofctl add-flow s2 "in_port=4 actions=output:2,3"
```