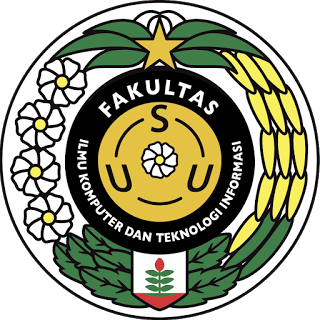
Laporan

MININET, MININAM, OpenFlow, dan POX Controller



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Kom C

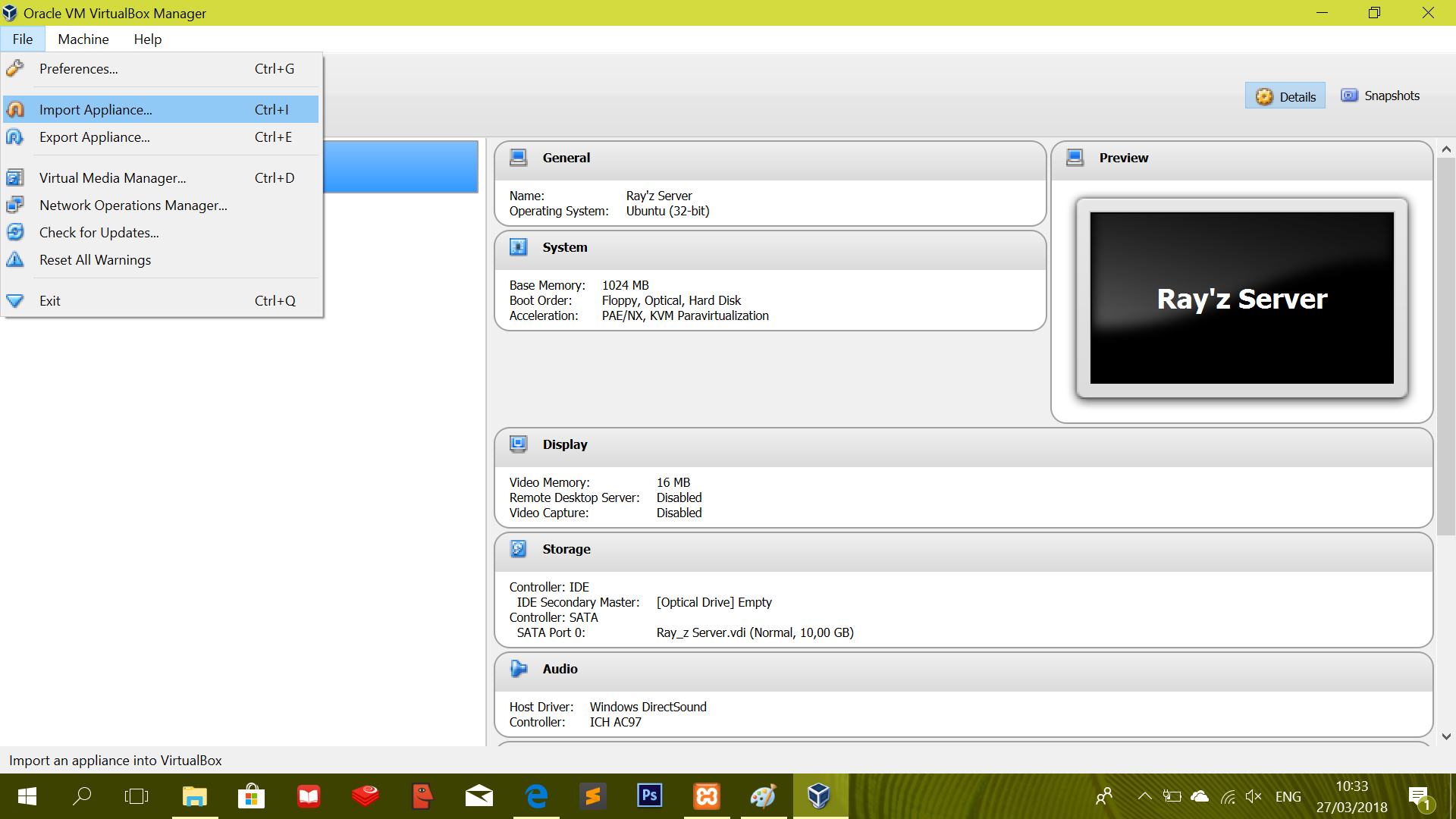
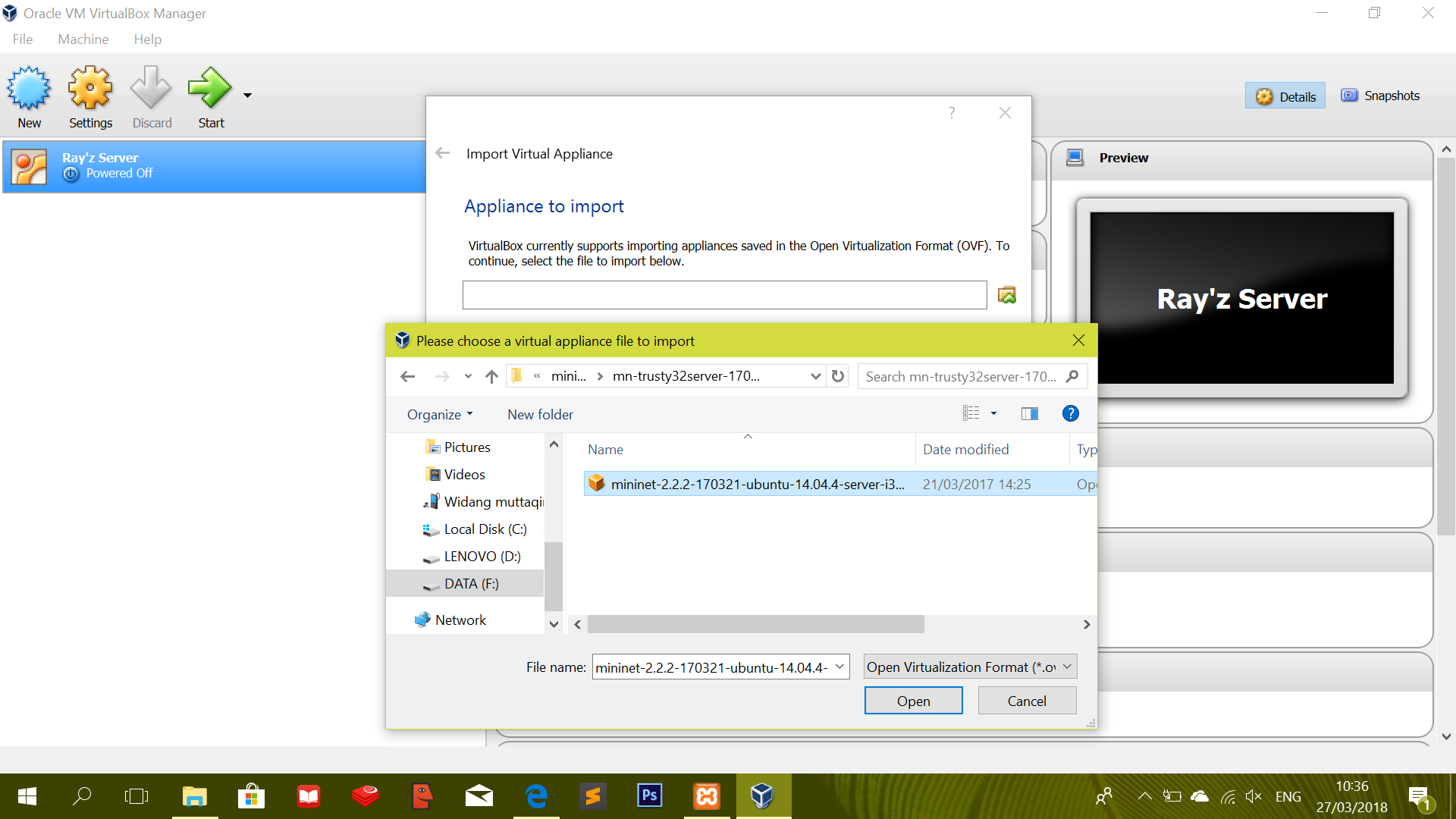
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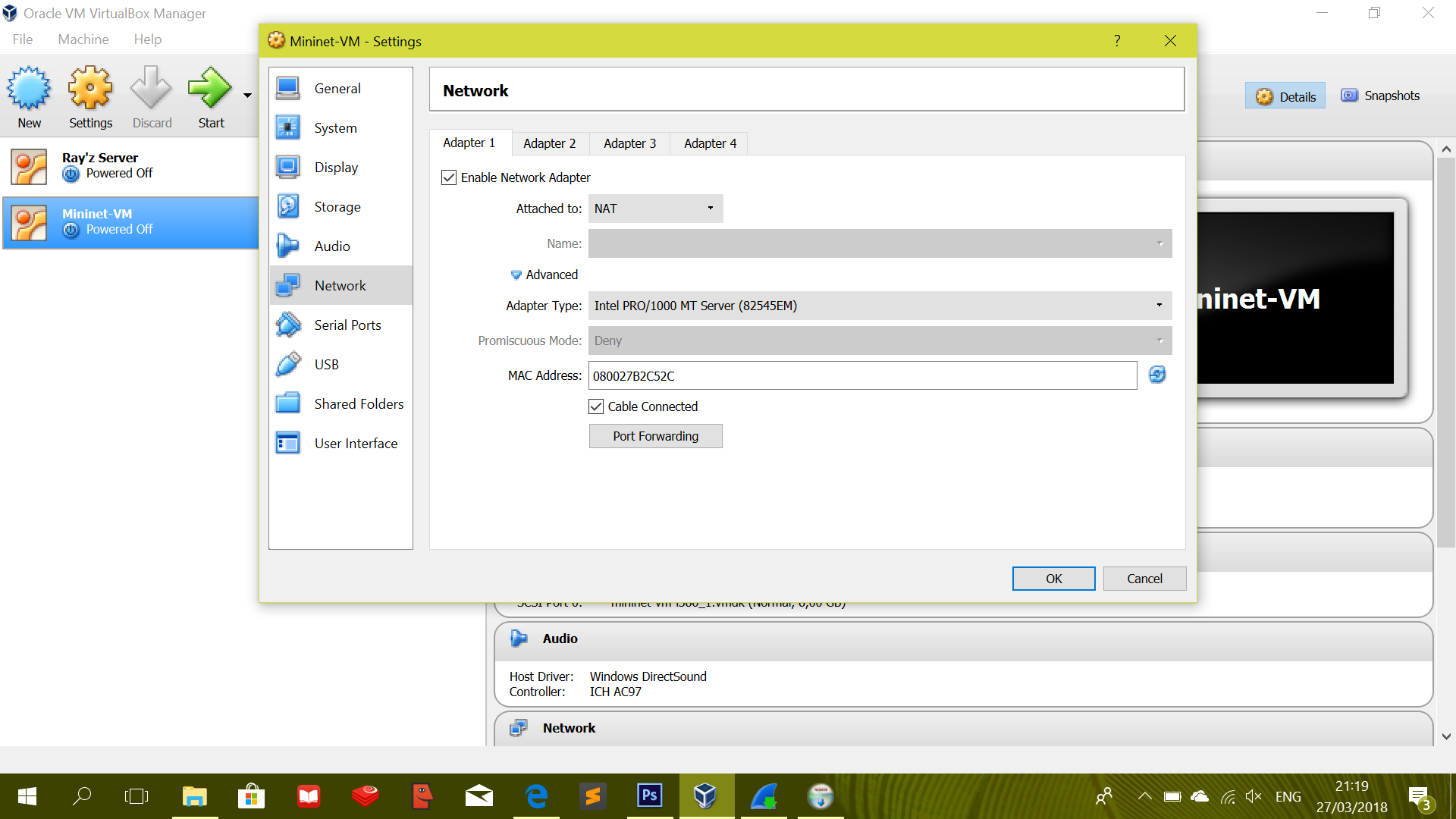
2018

**MININET :**

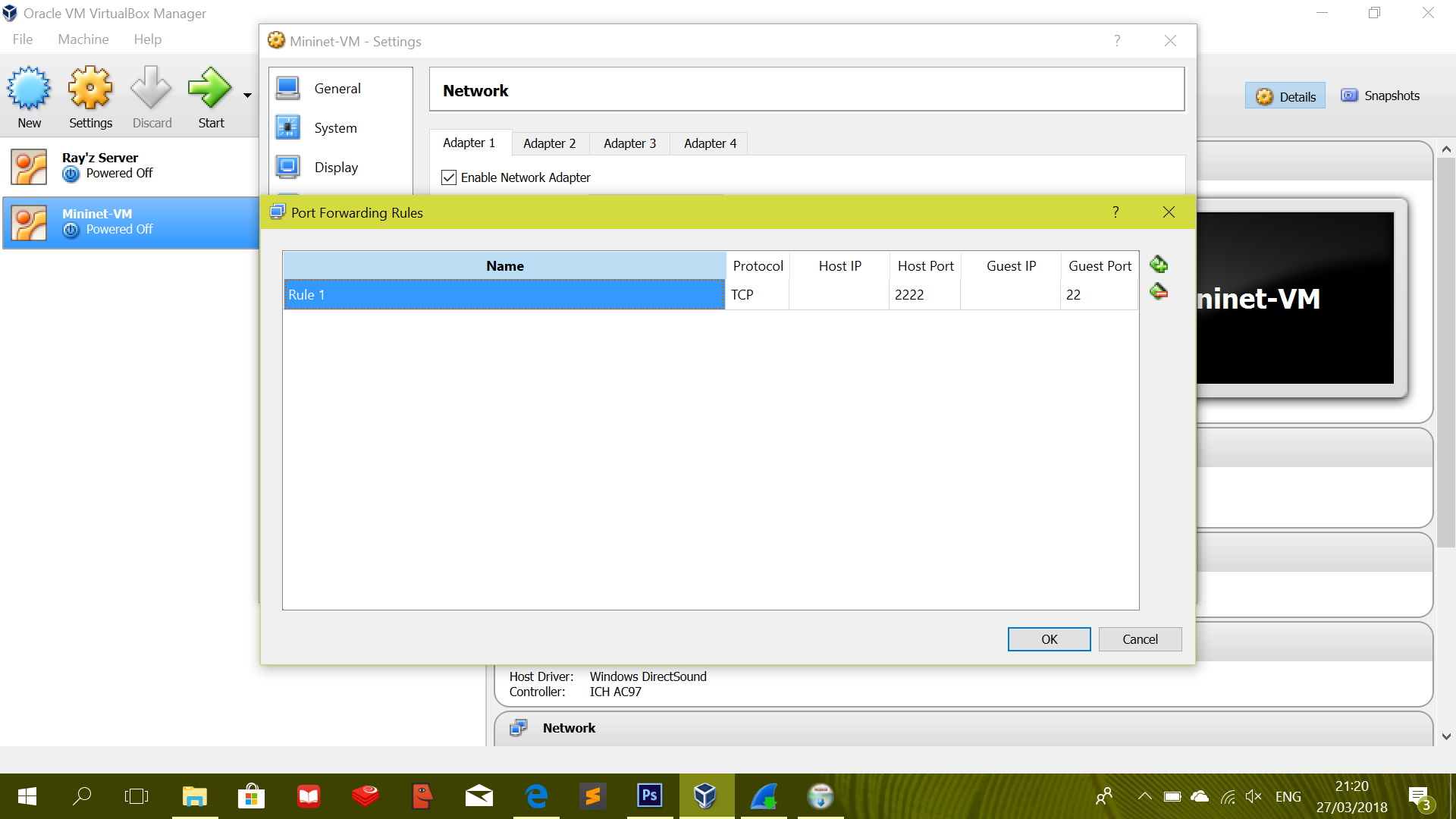
* **Import Appliance**



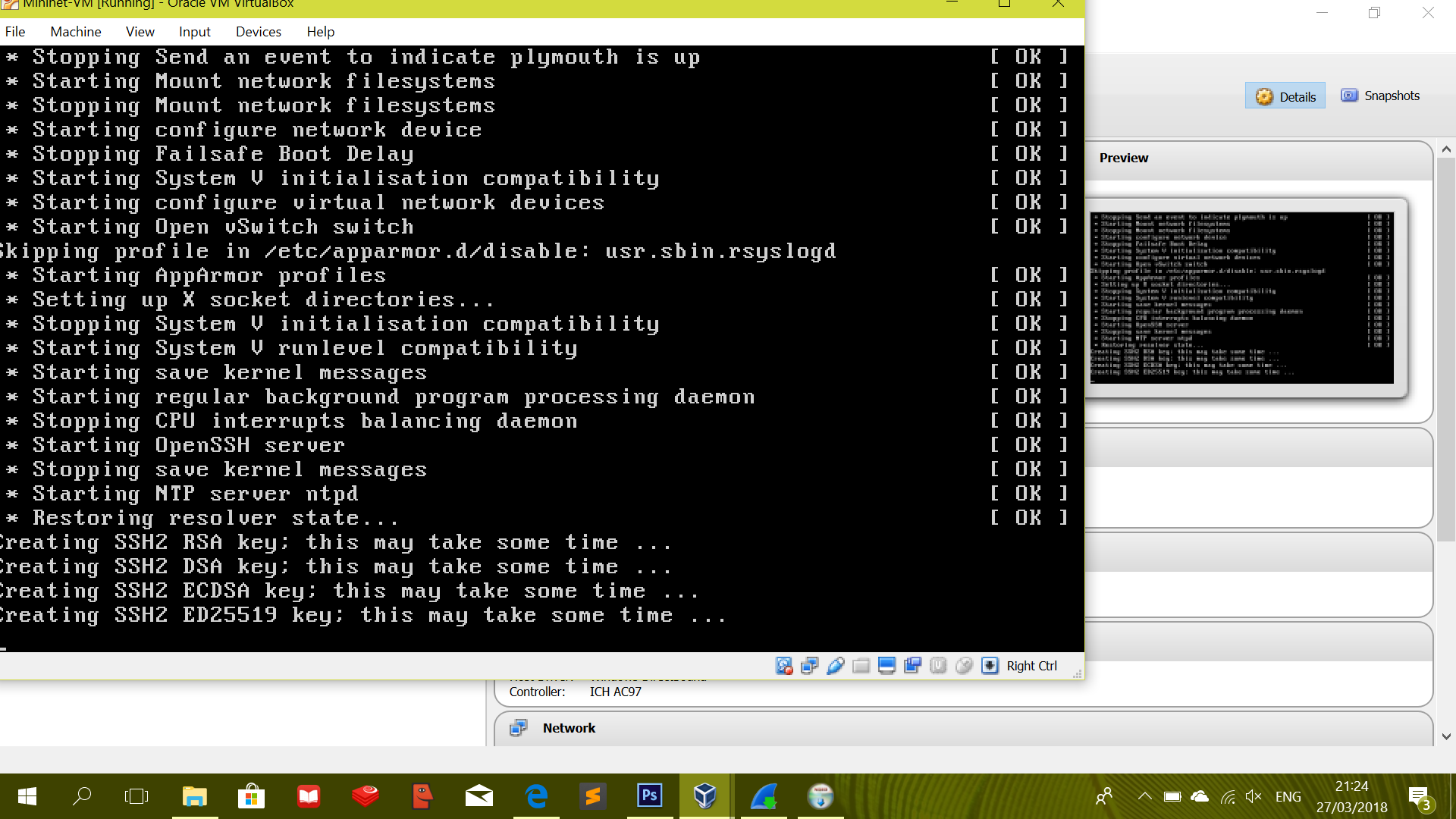
* **Configure Access**



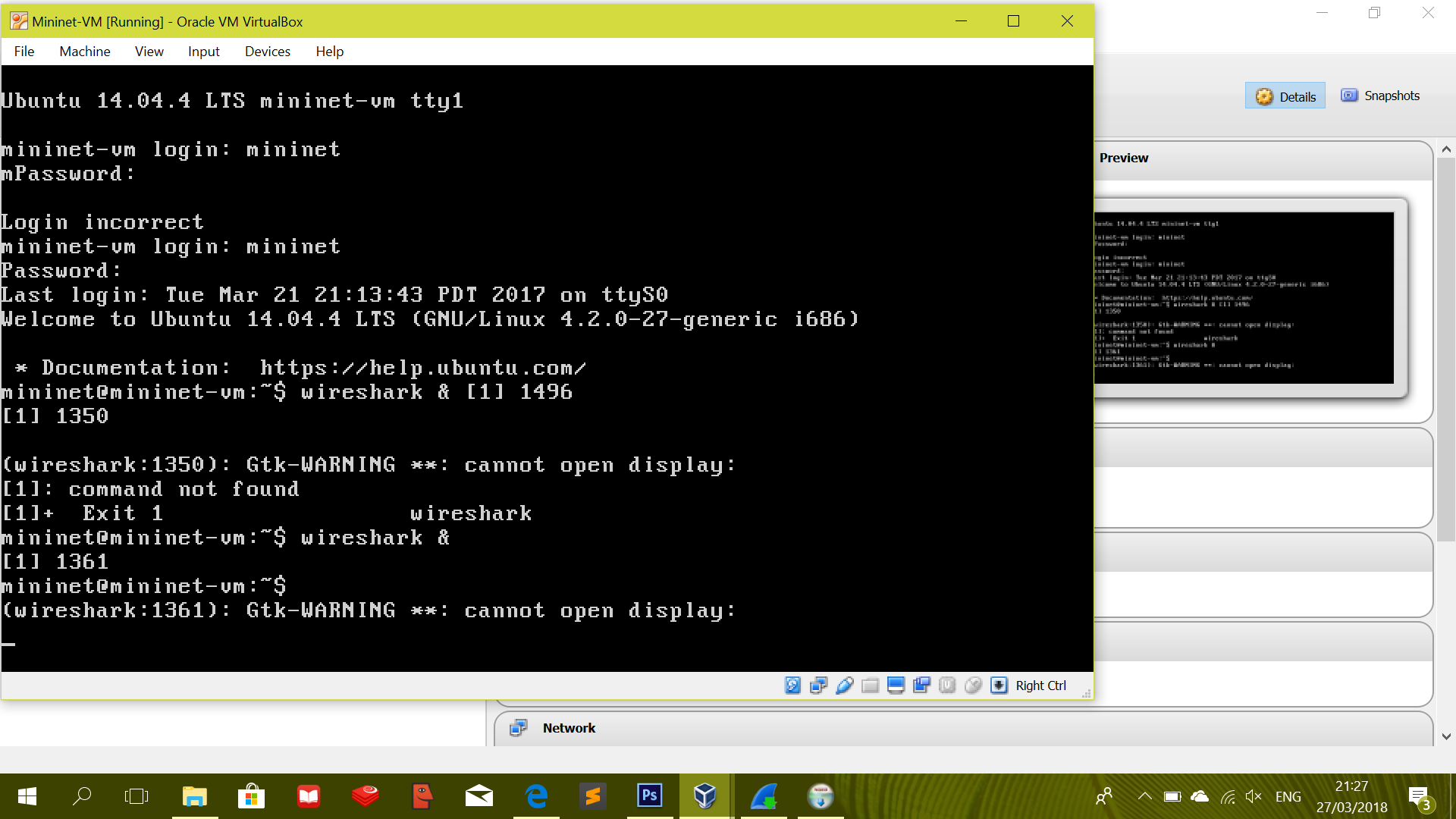
* **Port Forwarding**



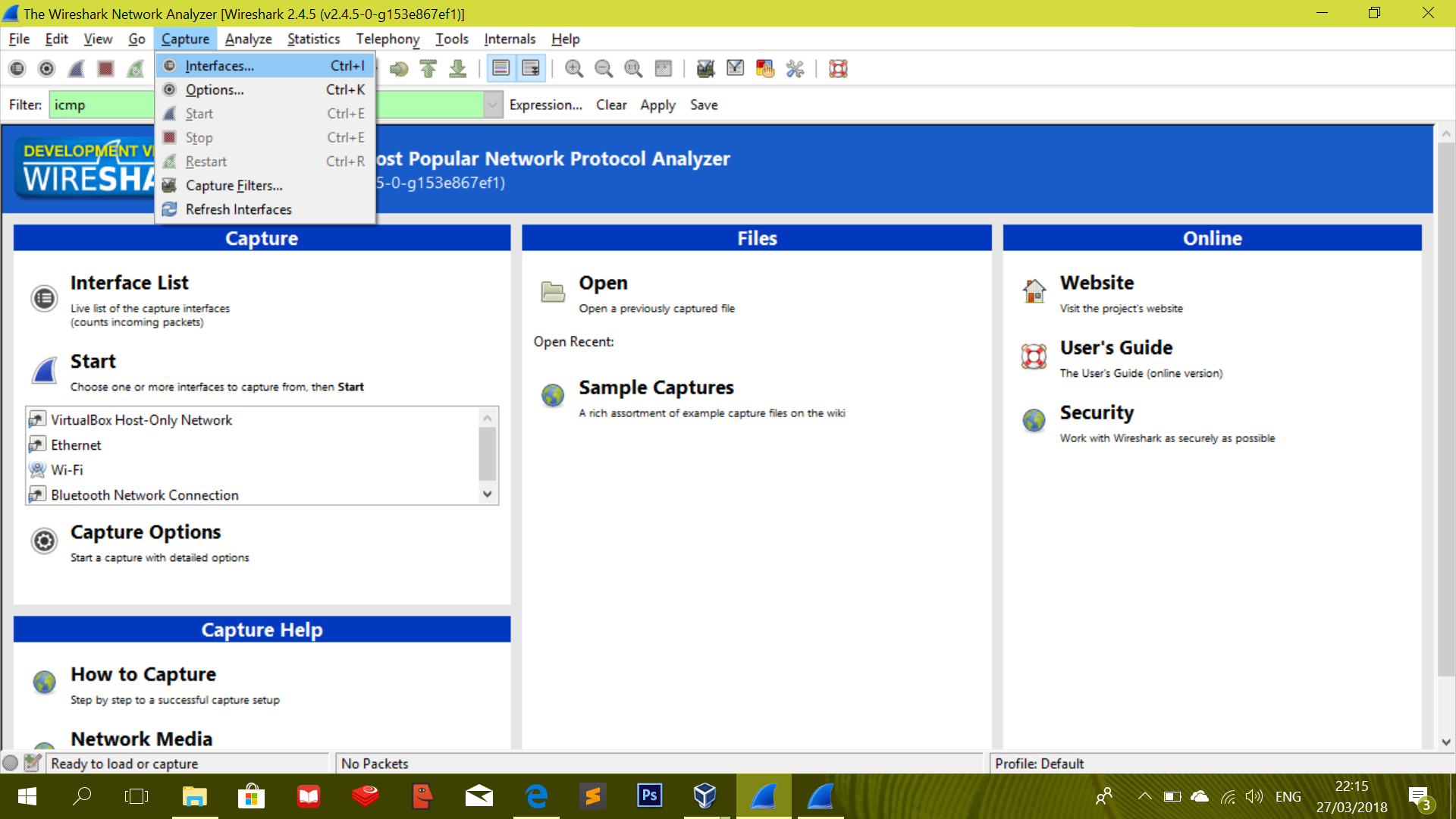
* **Access Via SSH**



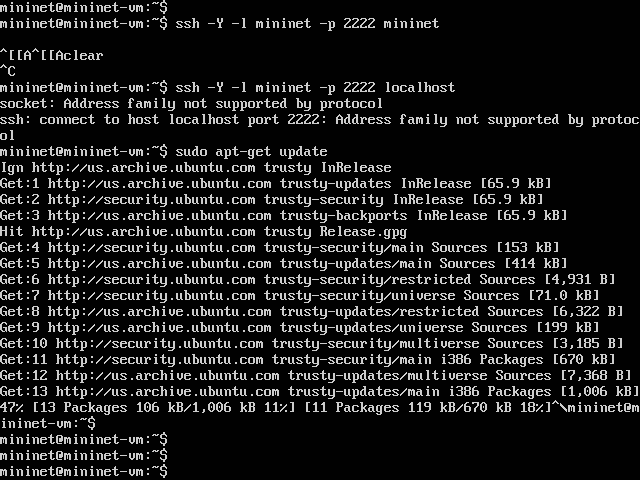
* **Test**



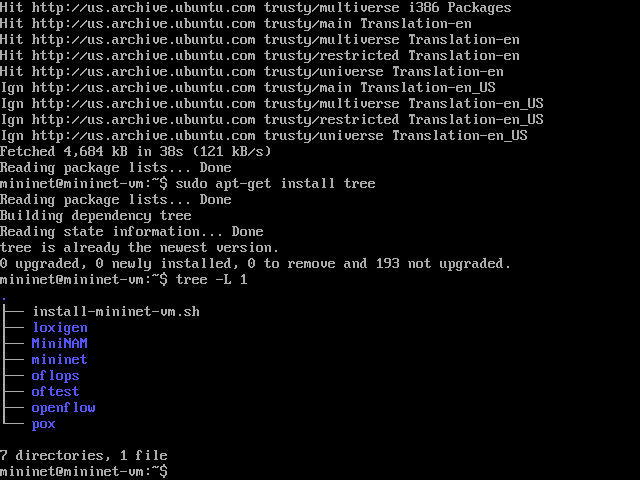
* **Test WireShark**



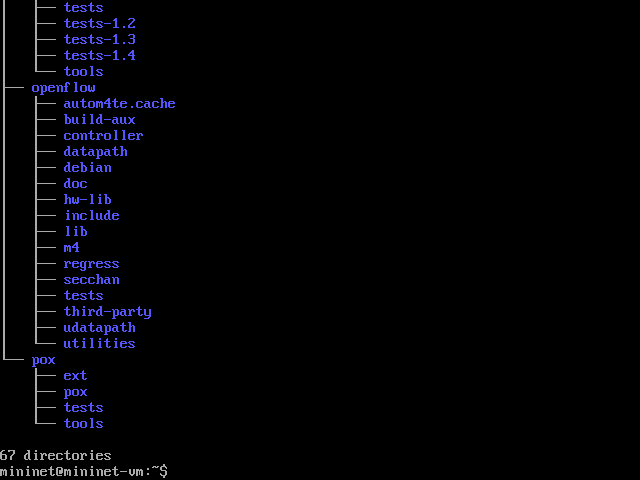
* **Check**



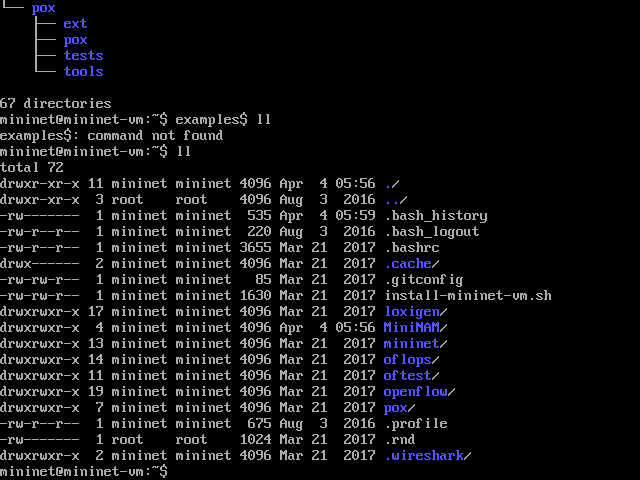
* **Tree –L 1**



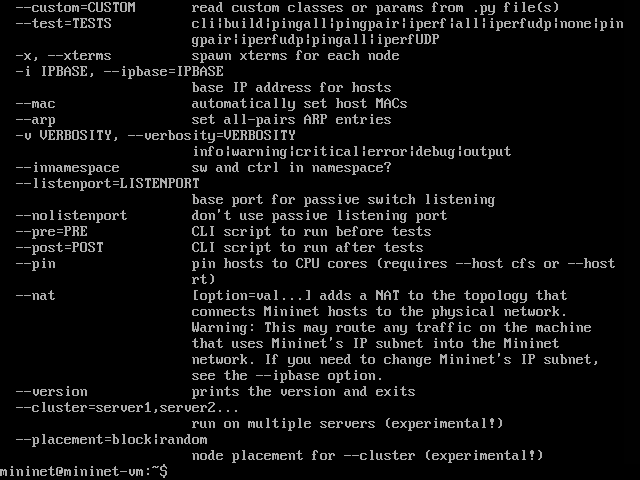
* **Tree –L 2 -d**



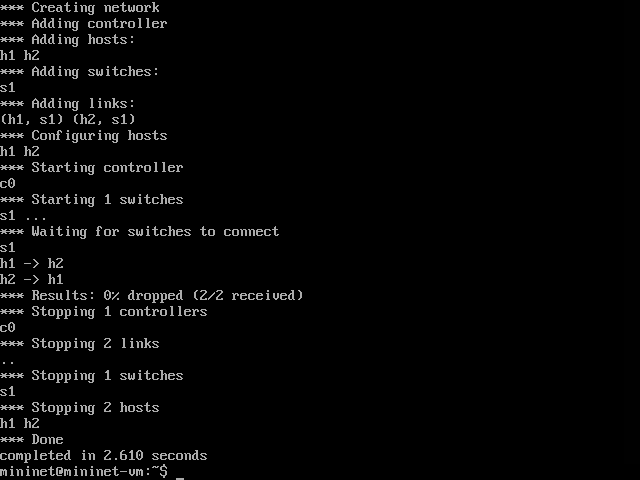
* **LL**



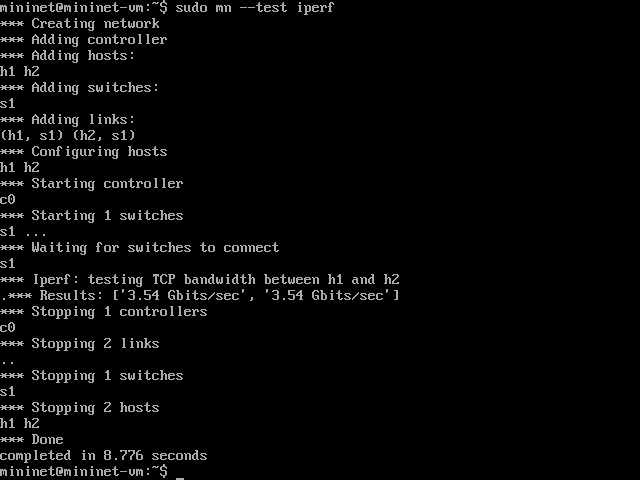
* **Sudo mn [--topo=minimal]**



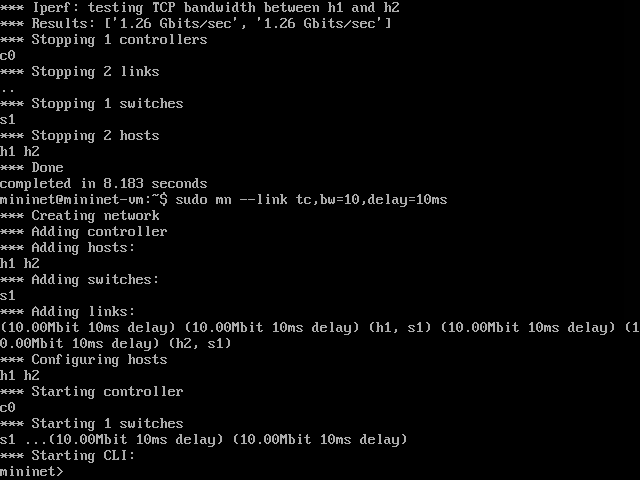
* **Sudo mn --test pingpair**



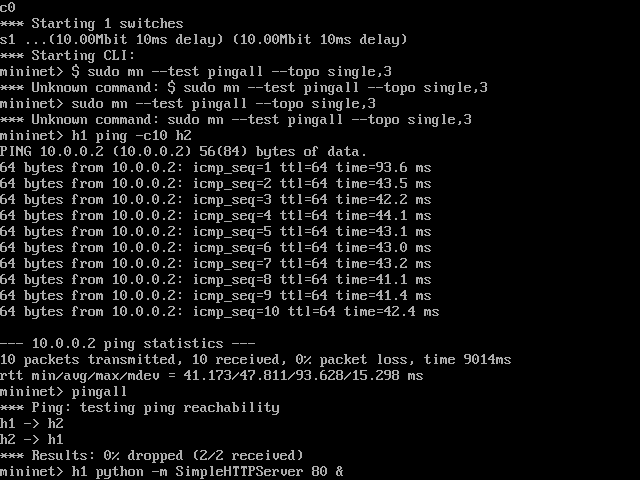
* **Sudo --test iperf**



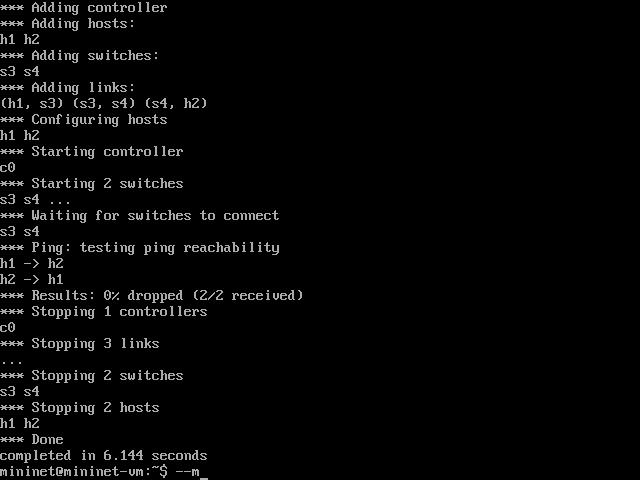
* **sudo mn –link tc,bw=10,delay=10ms**



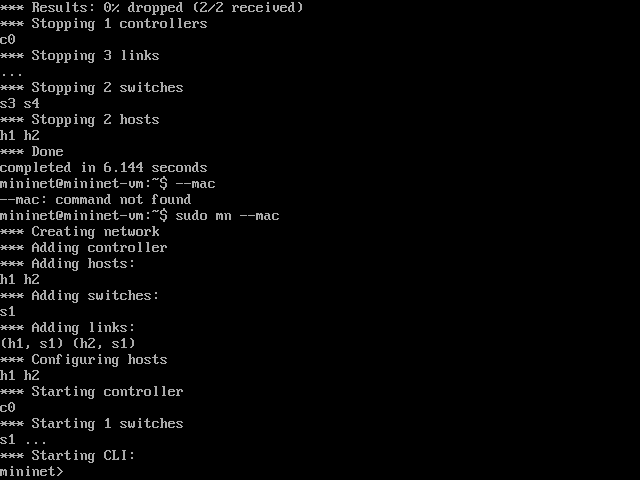
* **sudo mn –test pingall –topo single,3**



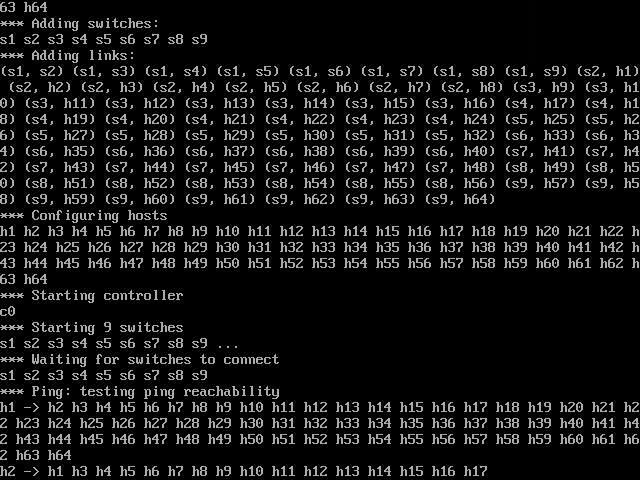
* **sudo mn –test pingall –topo mytopo –custom ~MiniNET/custom/topo-2sw-2host.py**



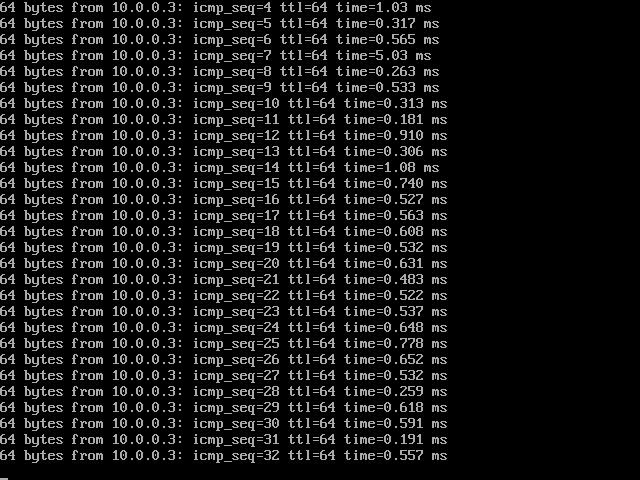
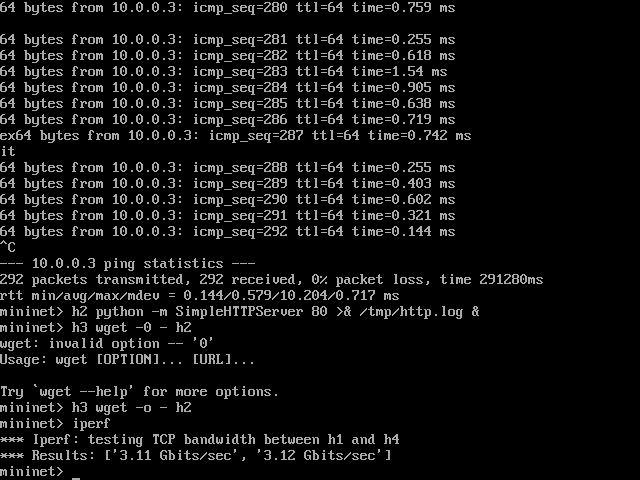
* **sudo mn –mac**



* **Sample Creating A Network**

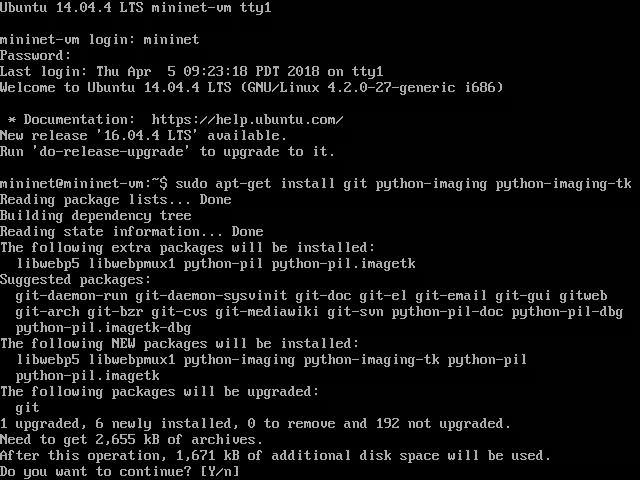


* **Interacting with Network**

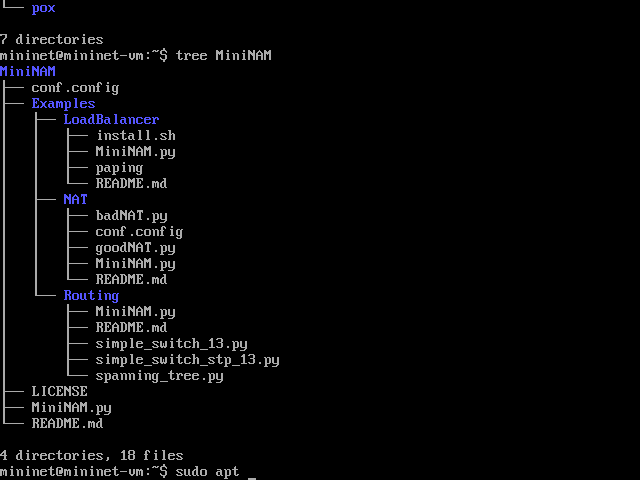


**MININAM :**

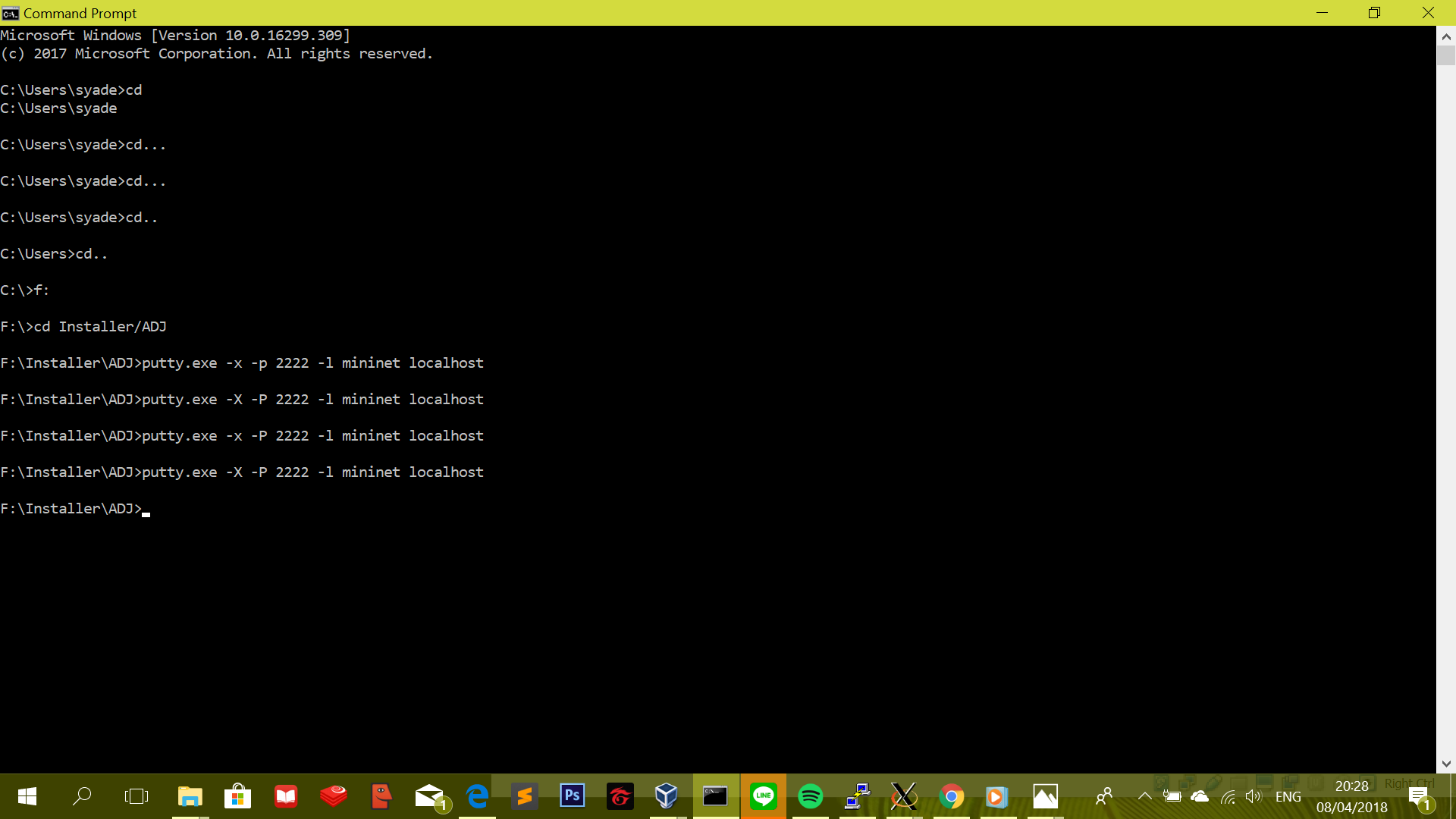
* **sudo apt-get install git python-imaging python-imaging.tk**



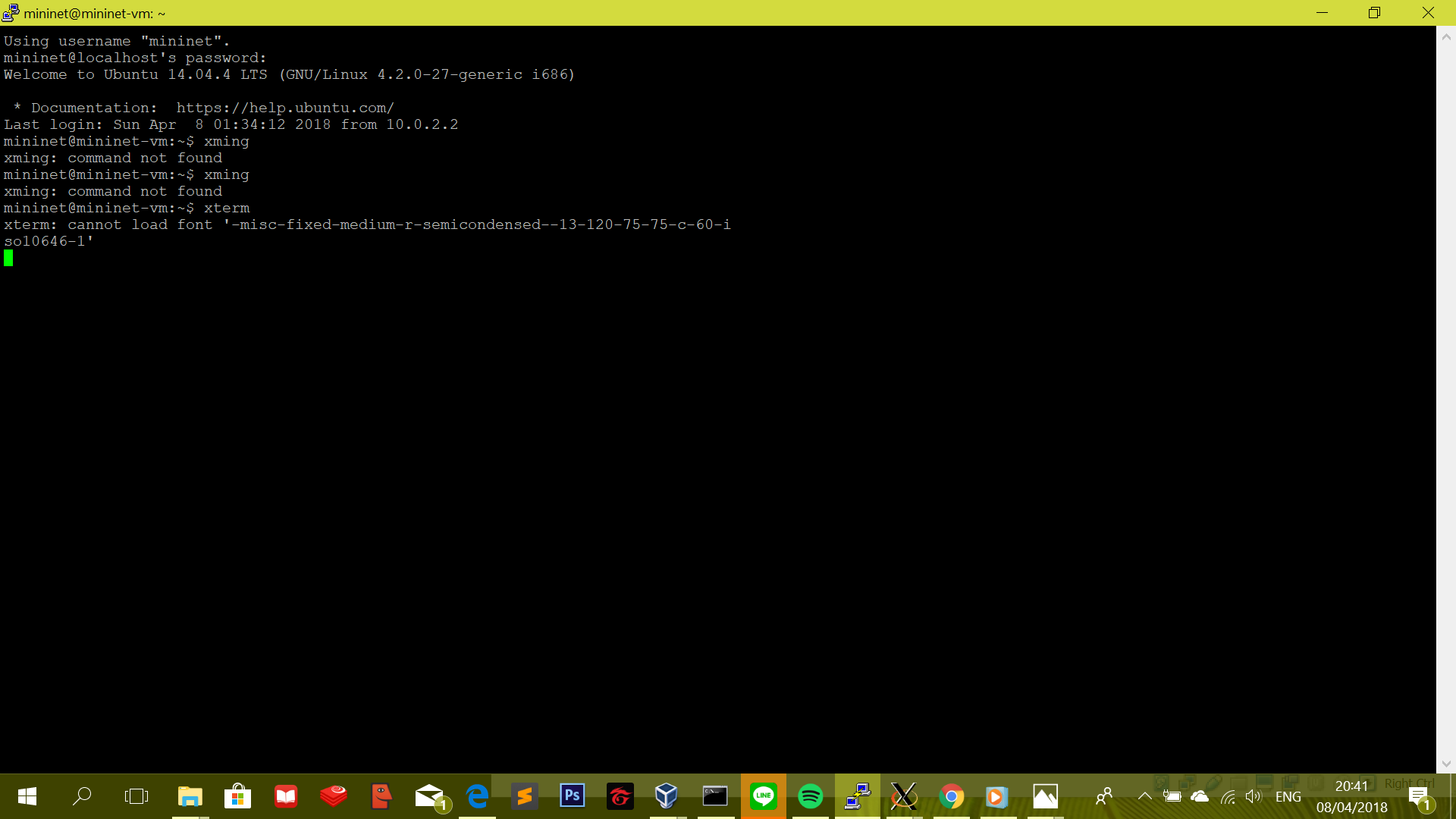
* **tree**



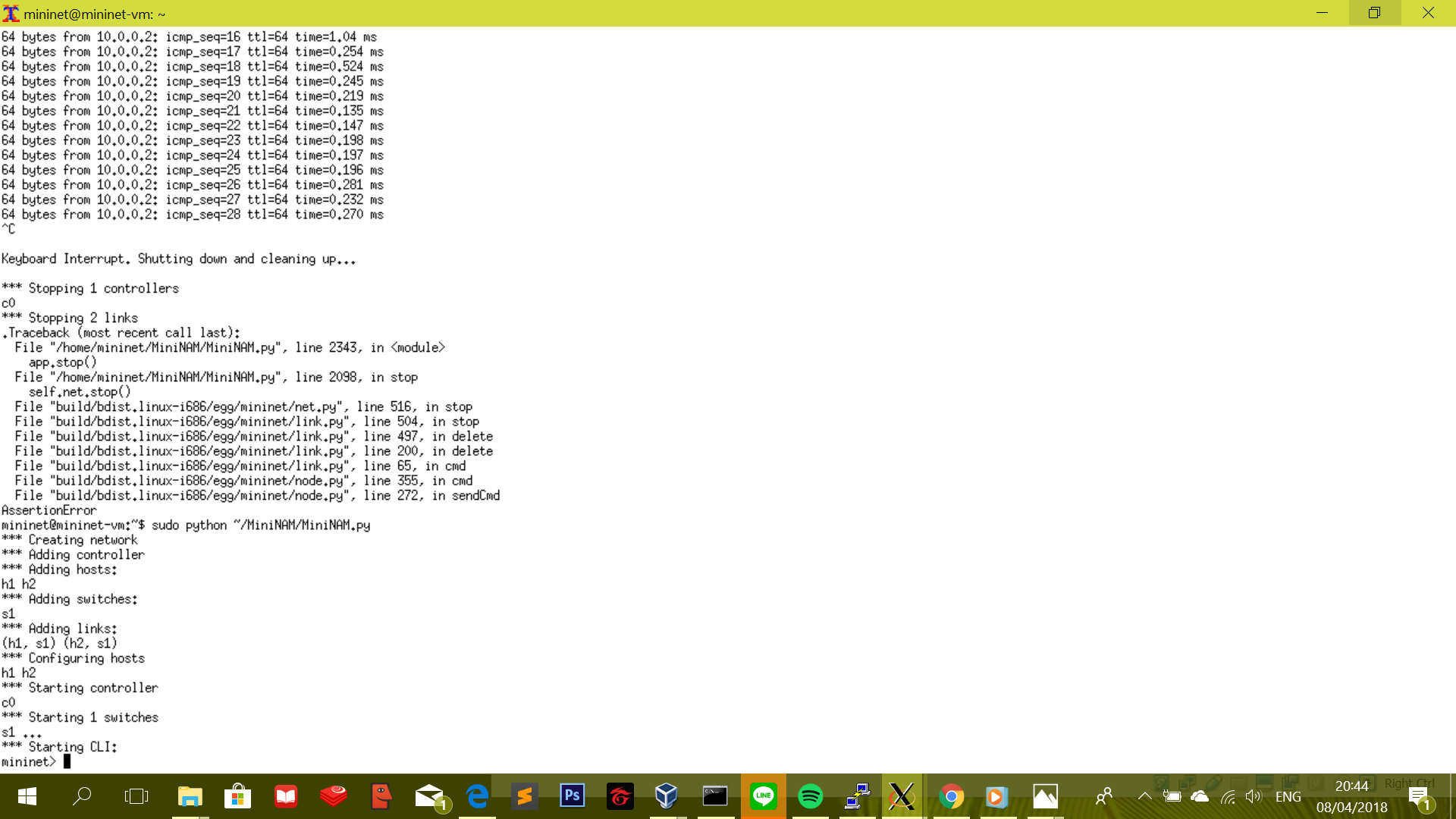
* **putty.exe –X –P 2222 –l mininet localhost**



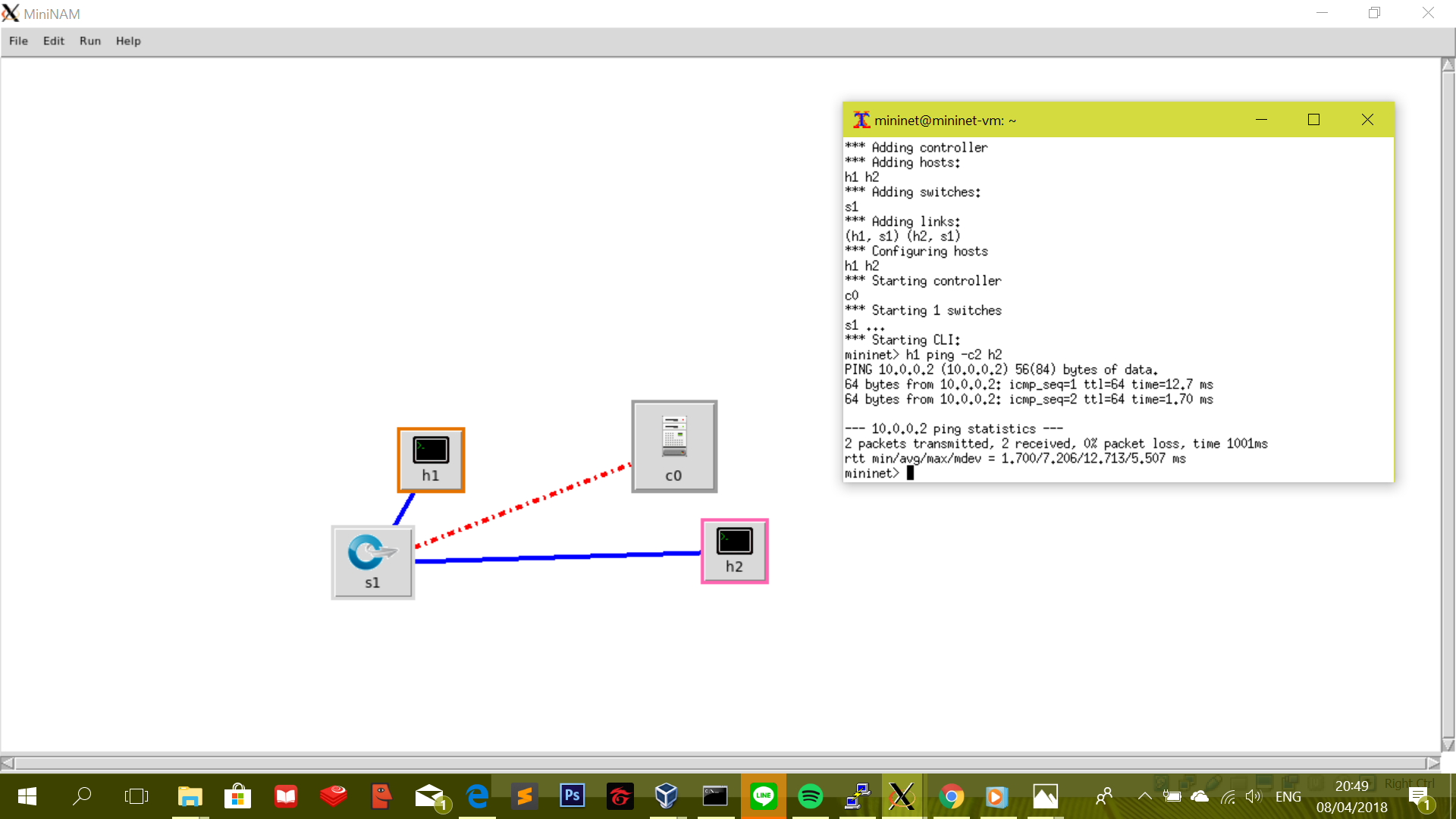
* **xterm**



* **sudo python ~/MiniNAM/MiniNAM.py**

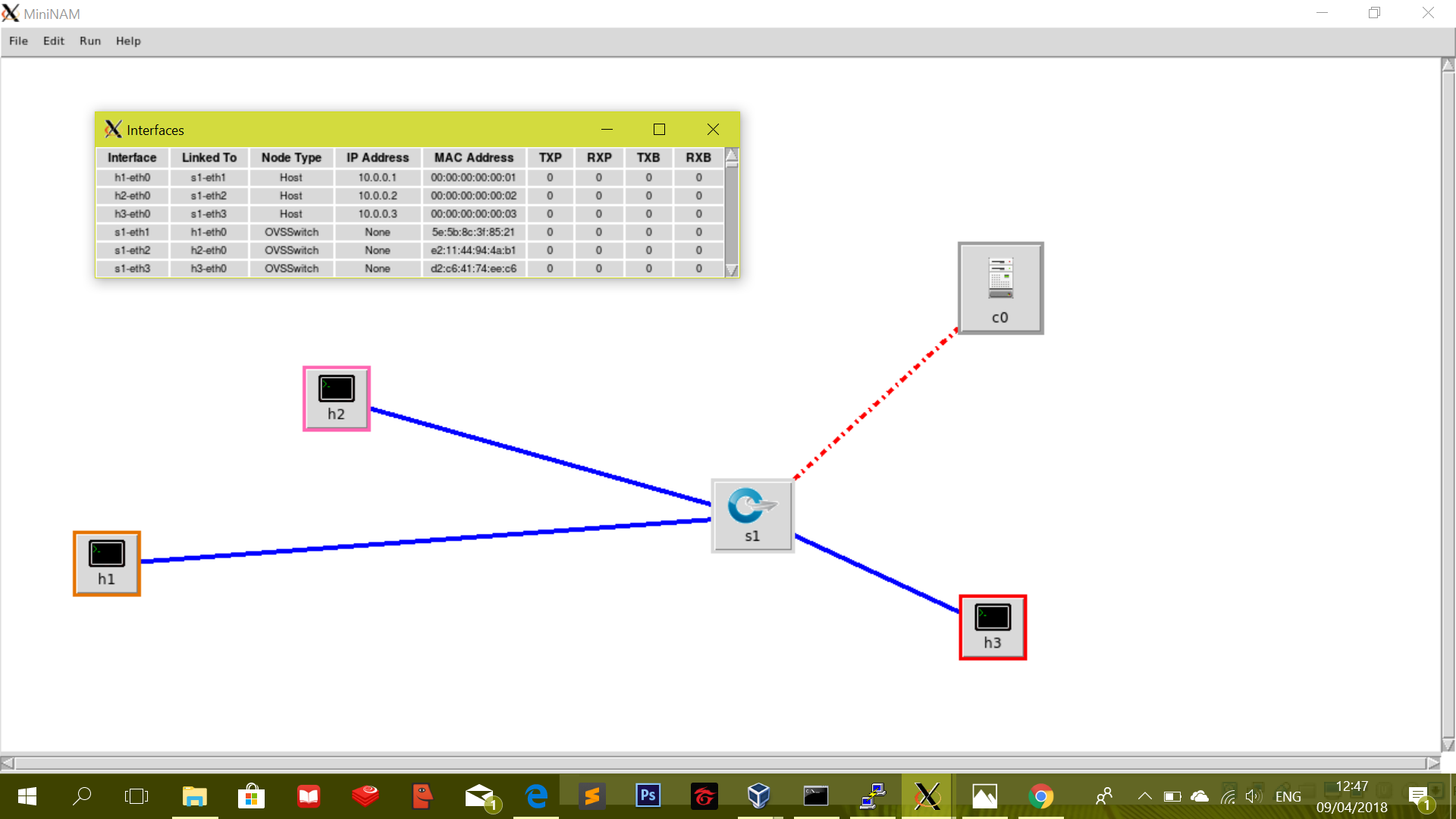


* **h1 ping –c2 h2**

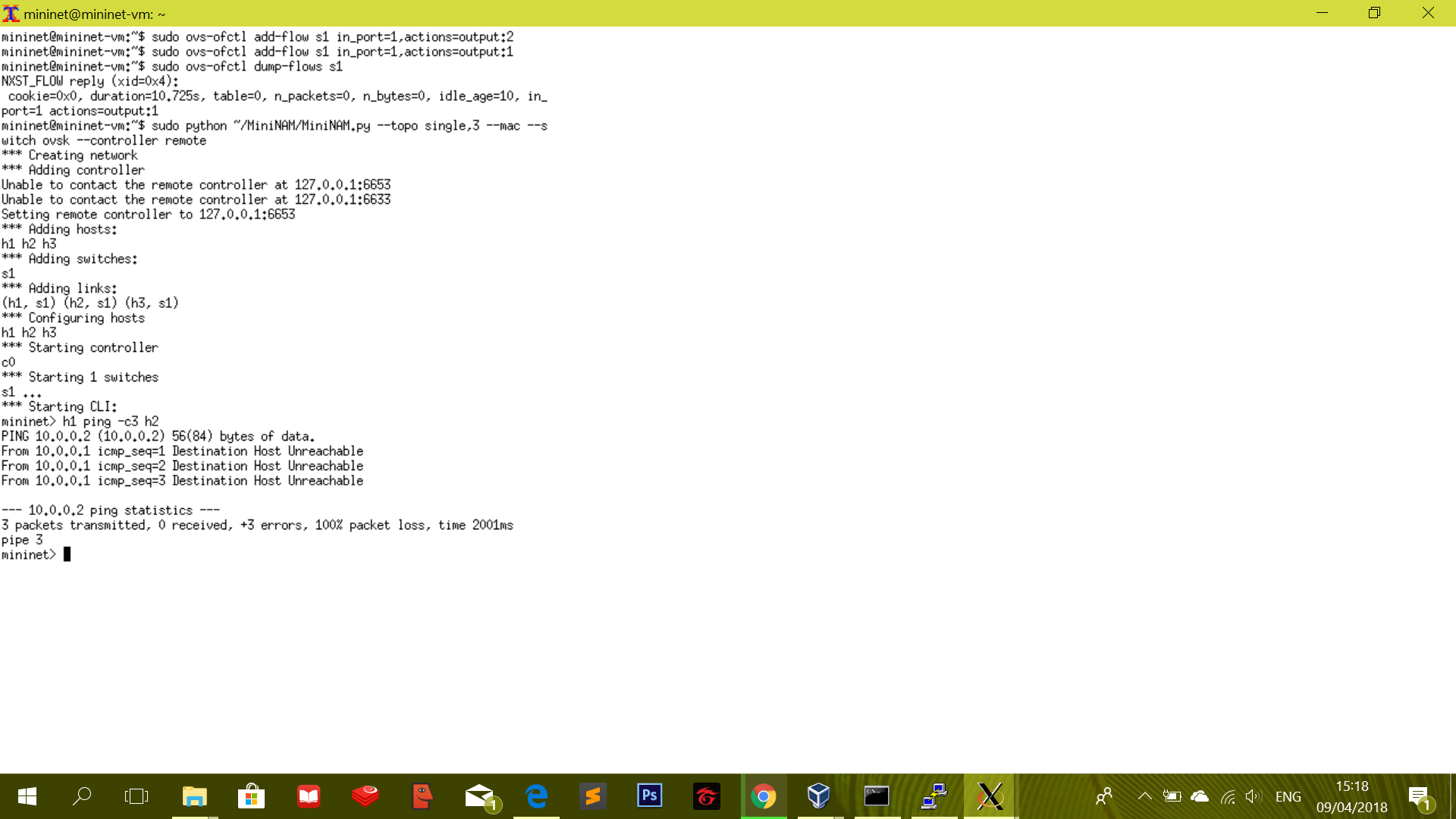


**OPENFLOW :**

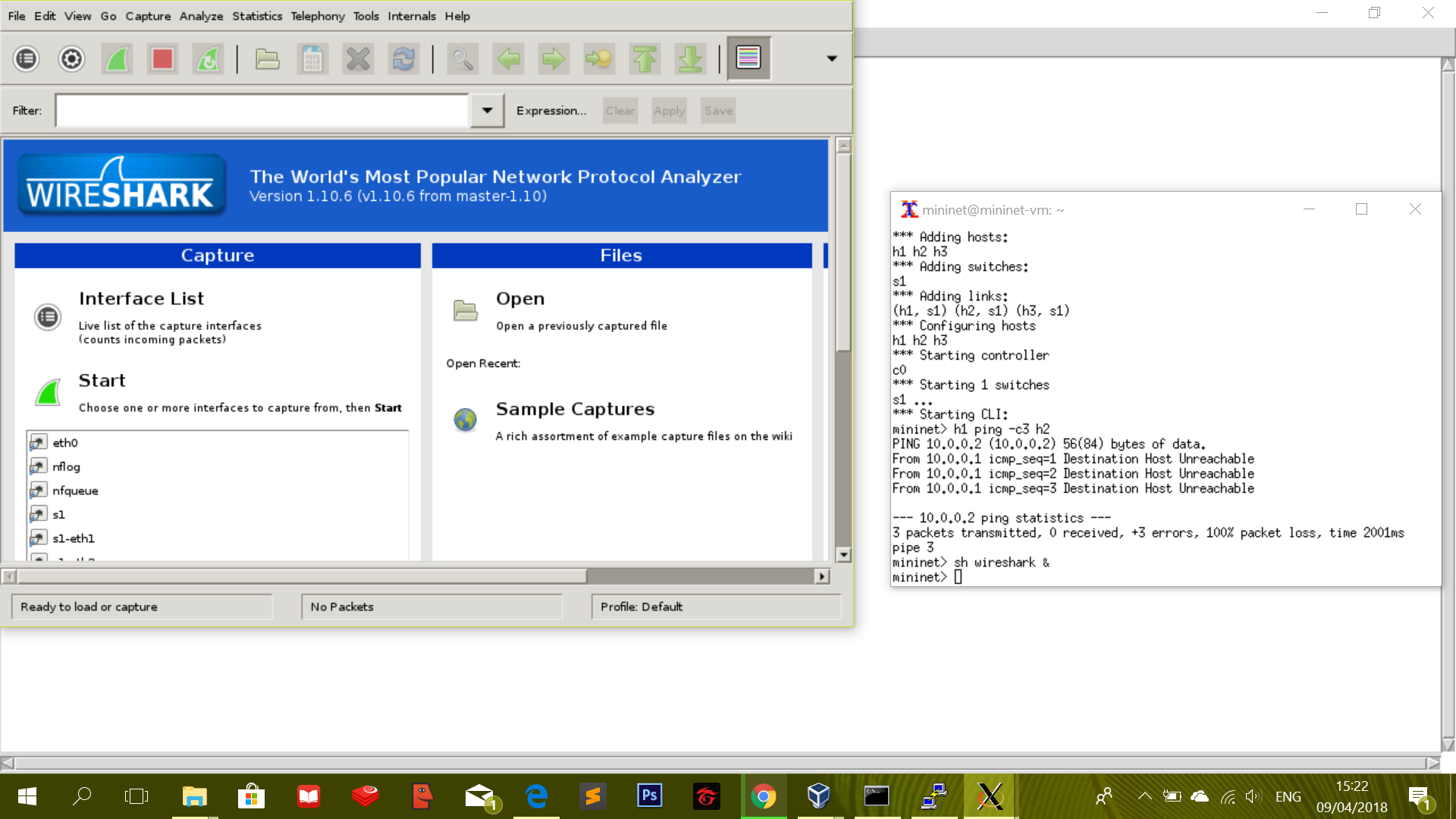
* **sudo python ~/MiniNET/MiniNET.py –topo single,3 –mac –switch ovsk –controller remote**



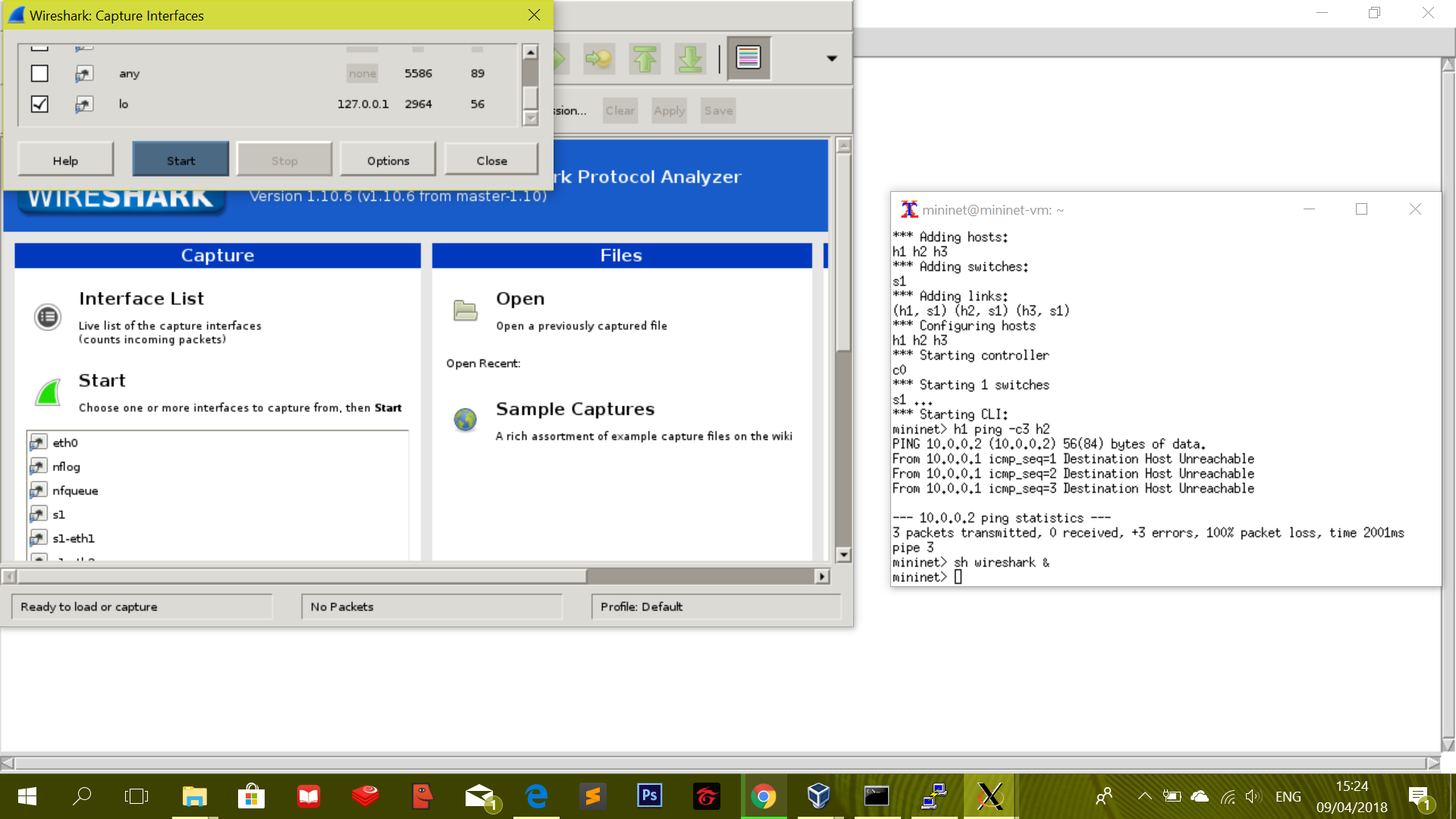
* **Manual Flow Entry**



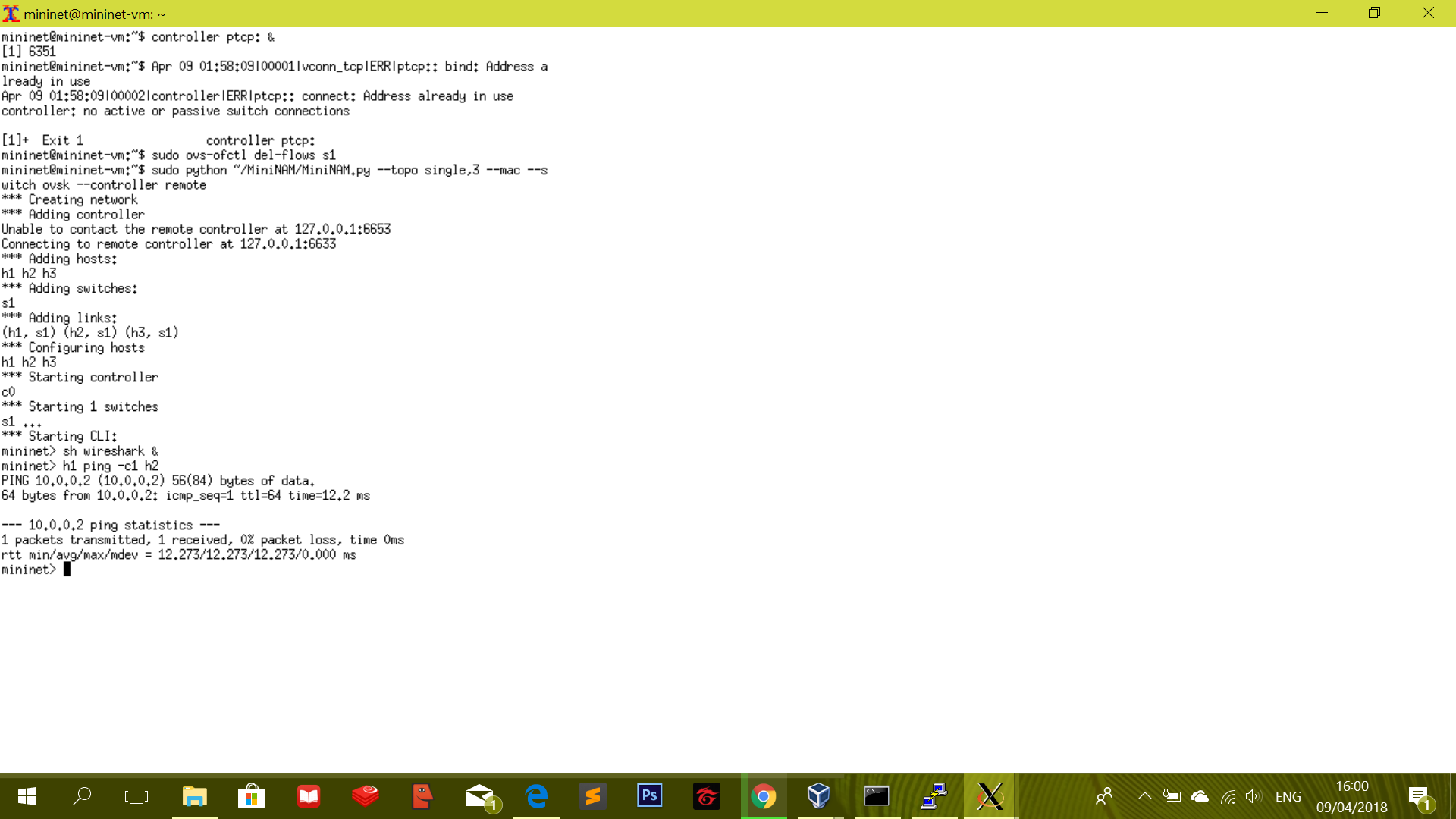
* **sh sudo wireshark &**



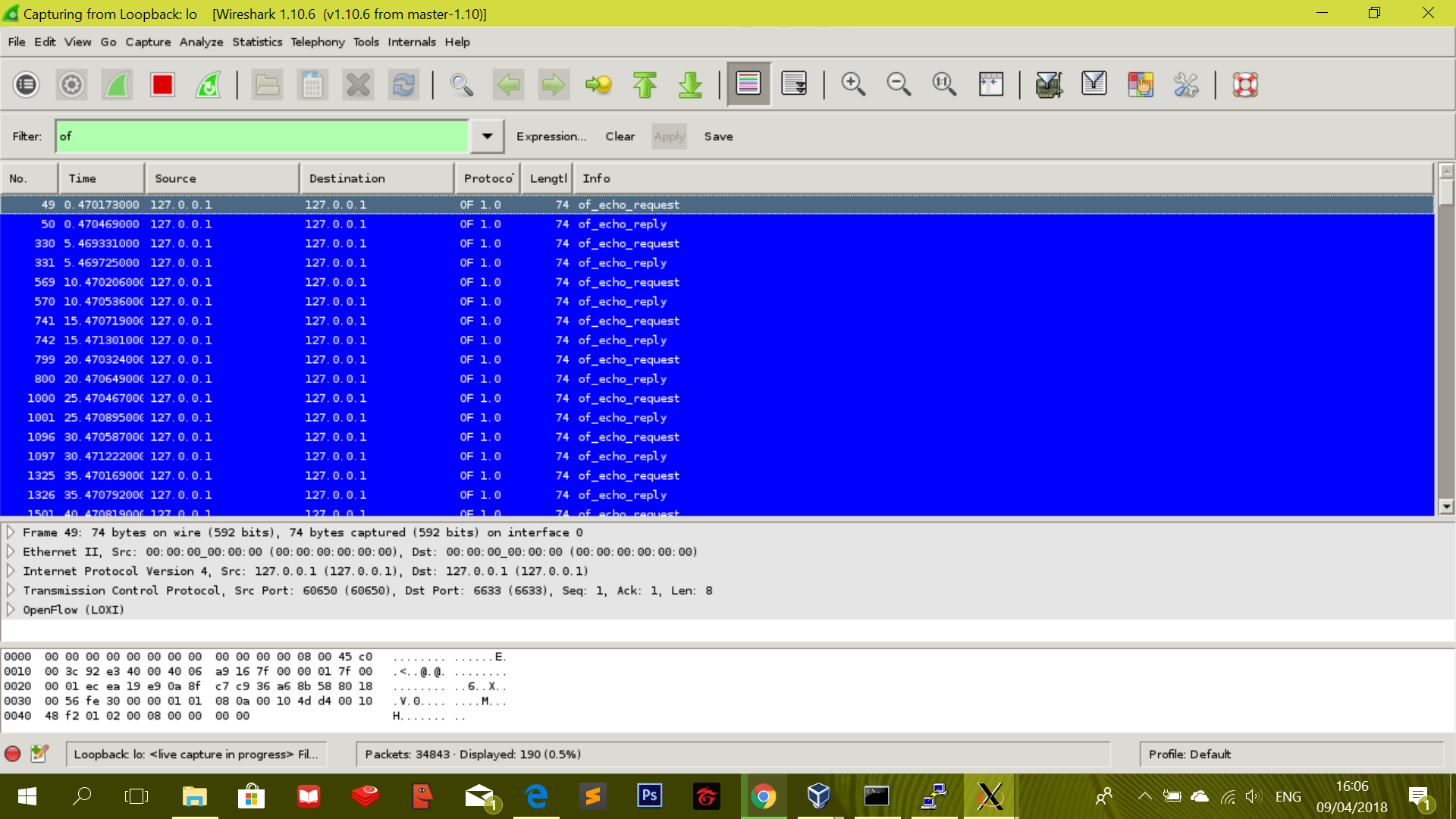
* **LoopBack**



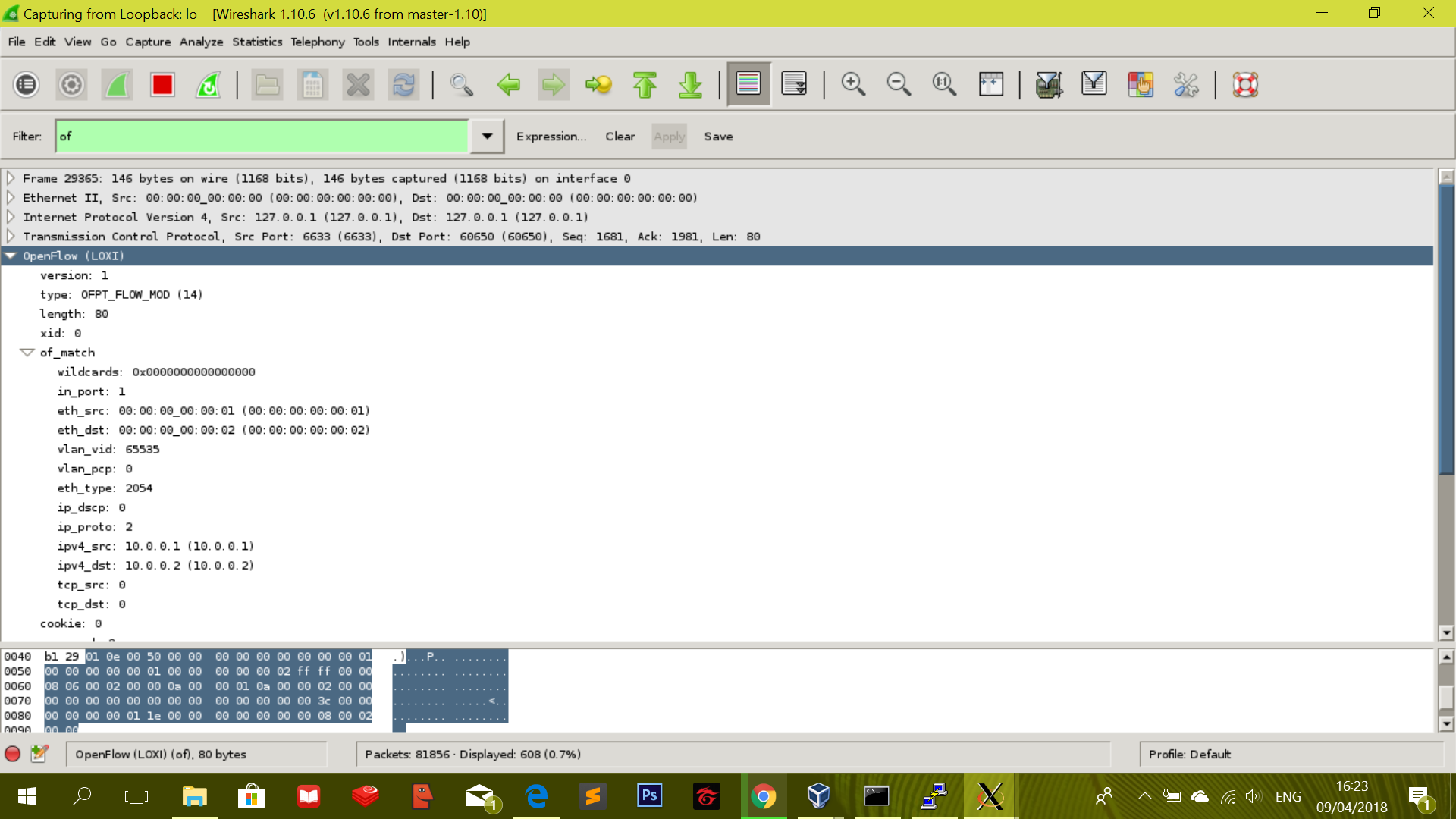
* **Starting Controller OF Reference Controller**



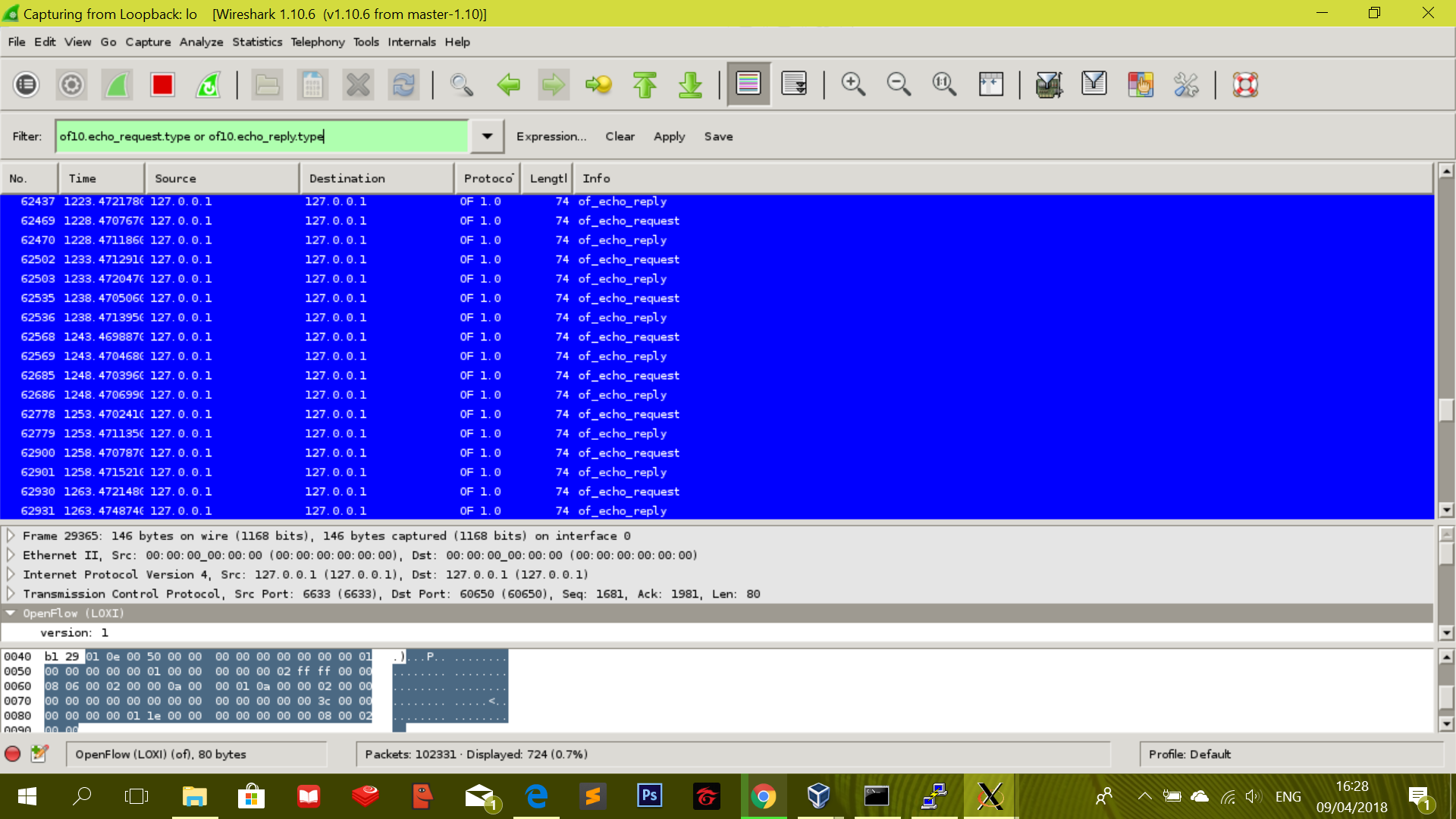
* **Filter OF**



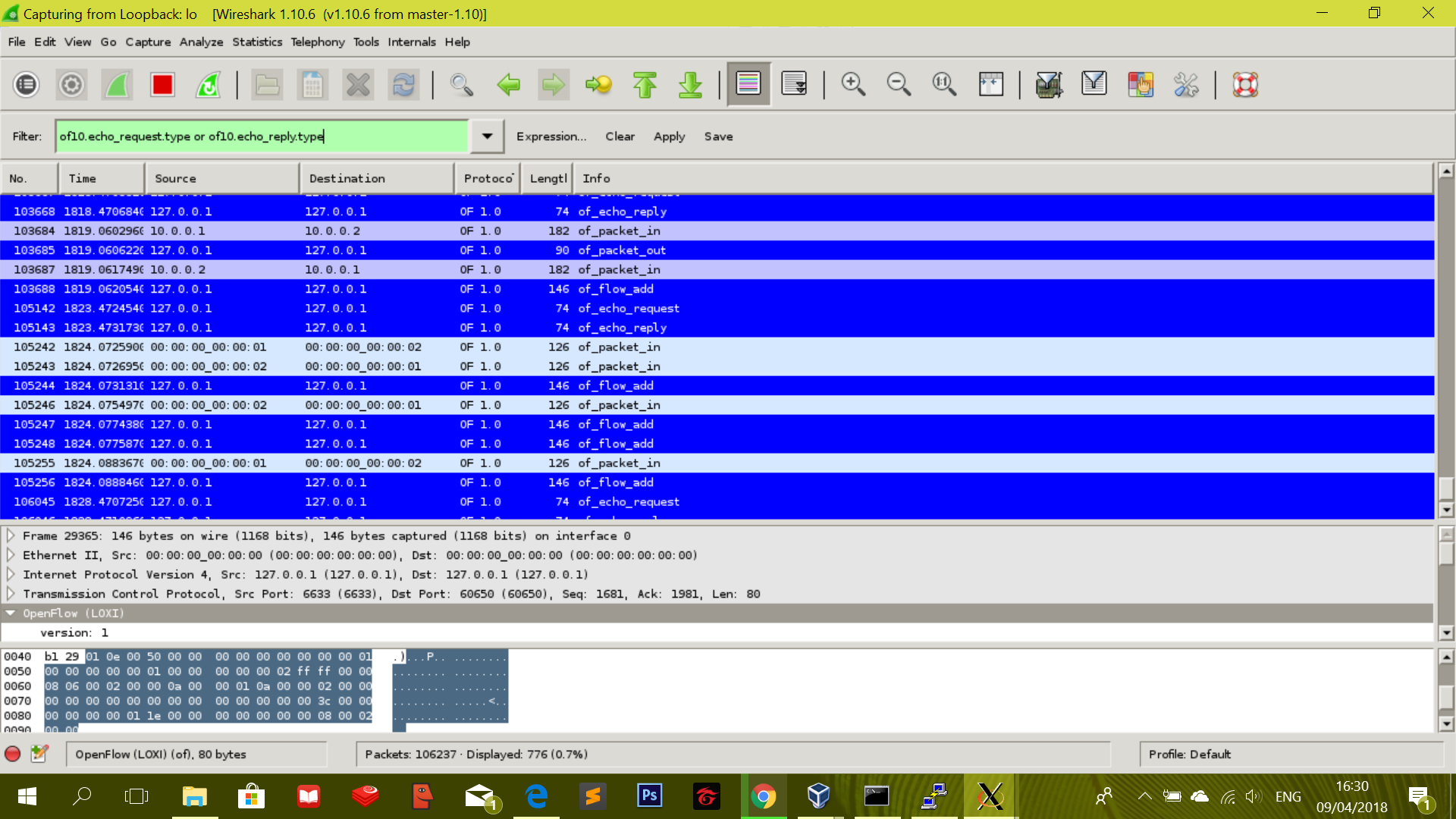
* **Inspect Packet**



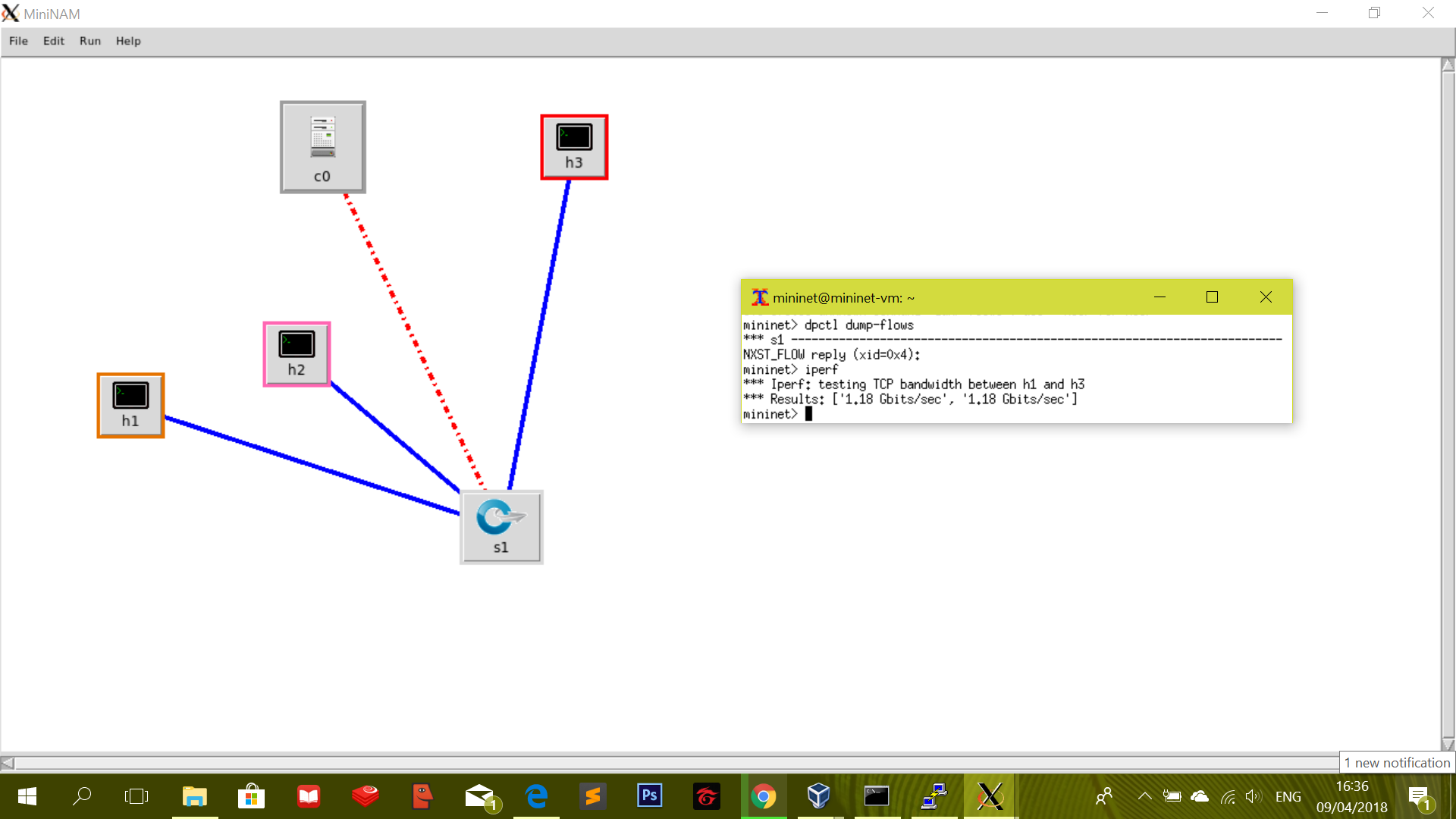
* **Of and Not**



* **h1 ping –c1 h2**

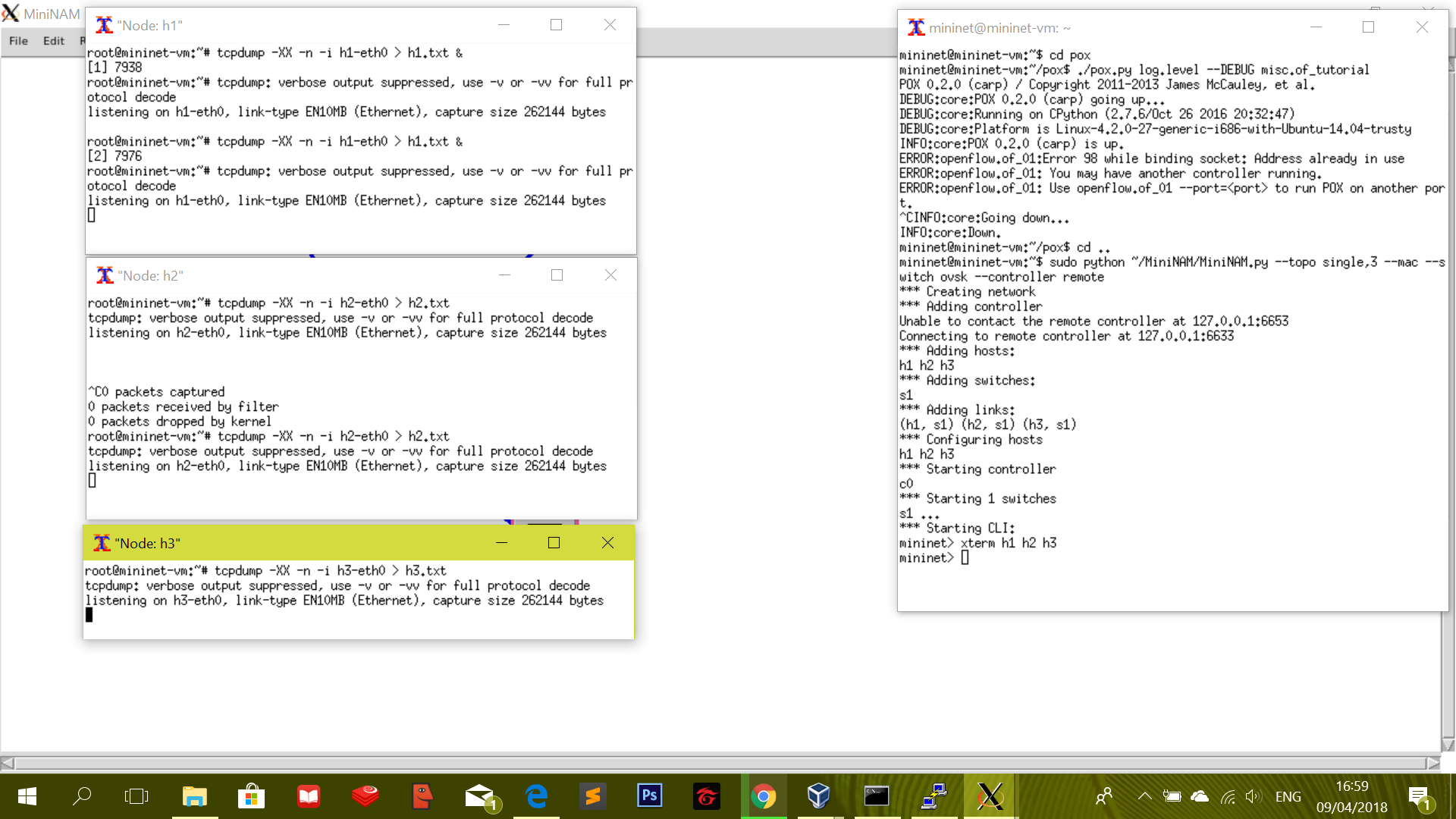
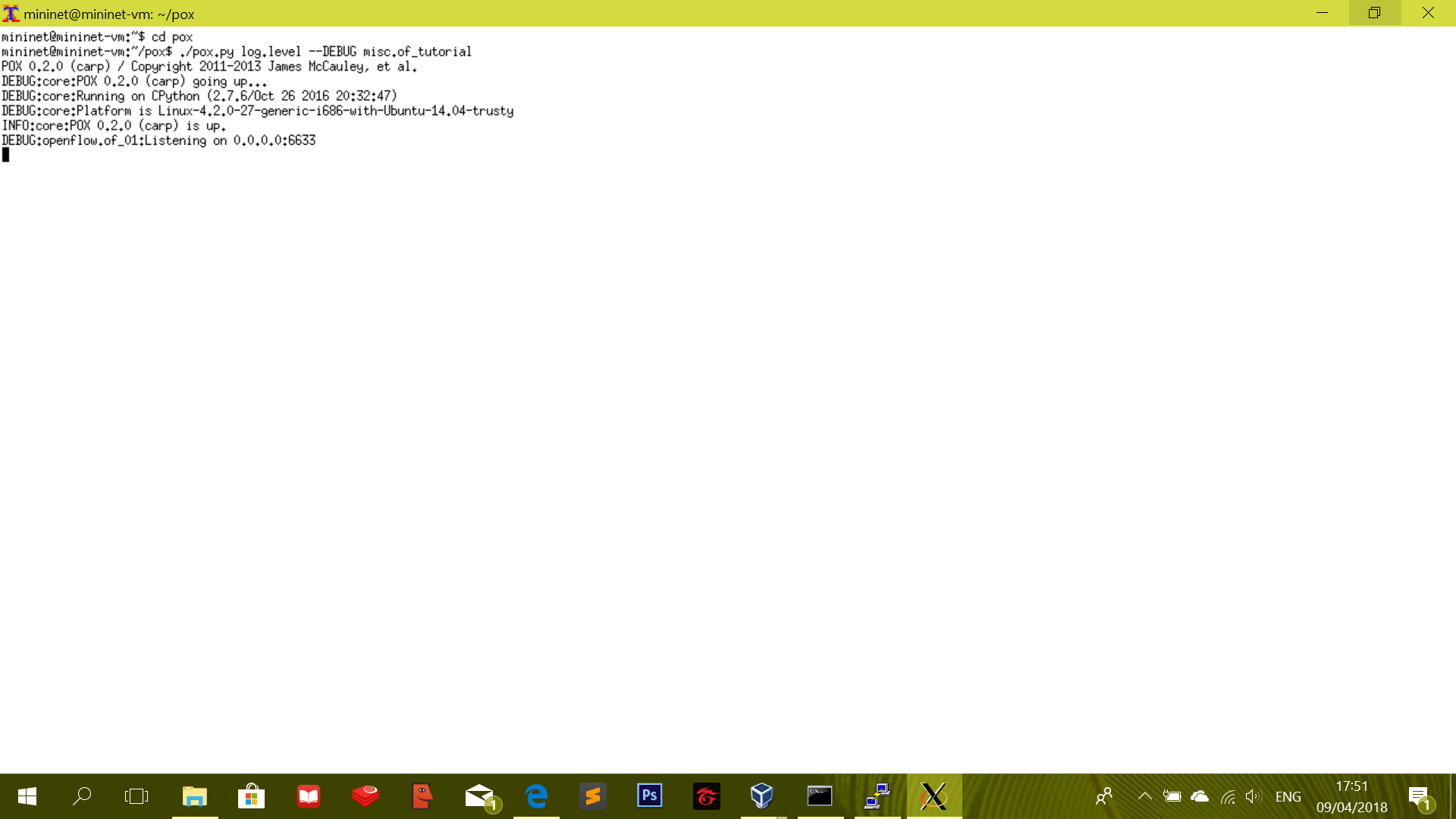


* **Benchmark with –kernel**

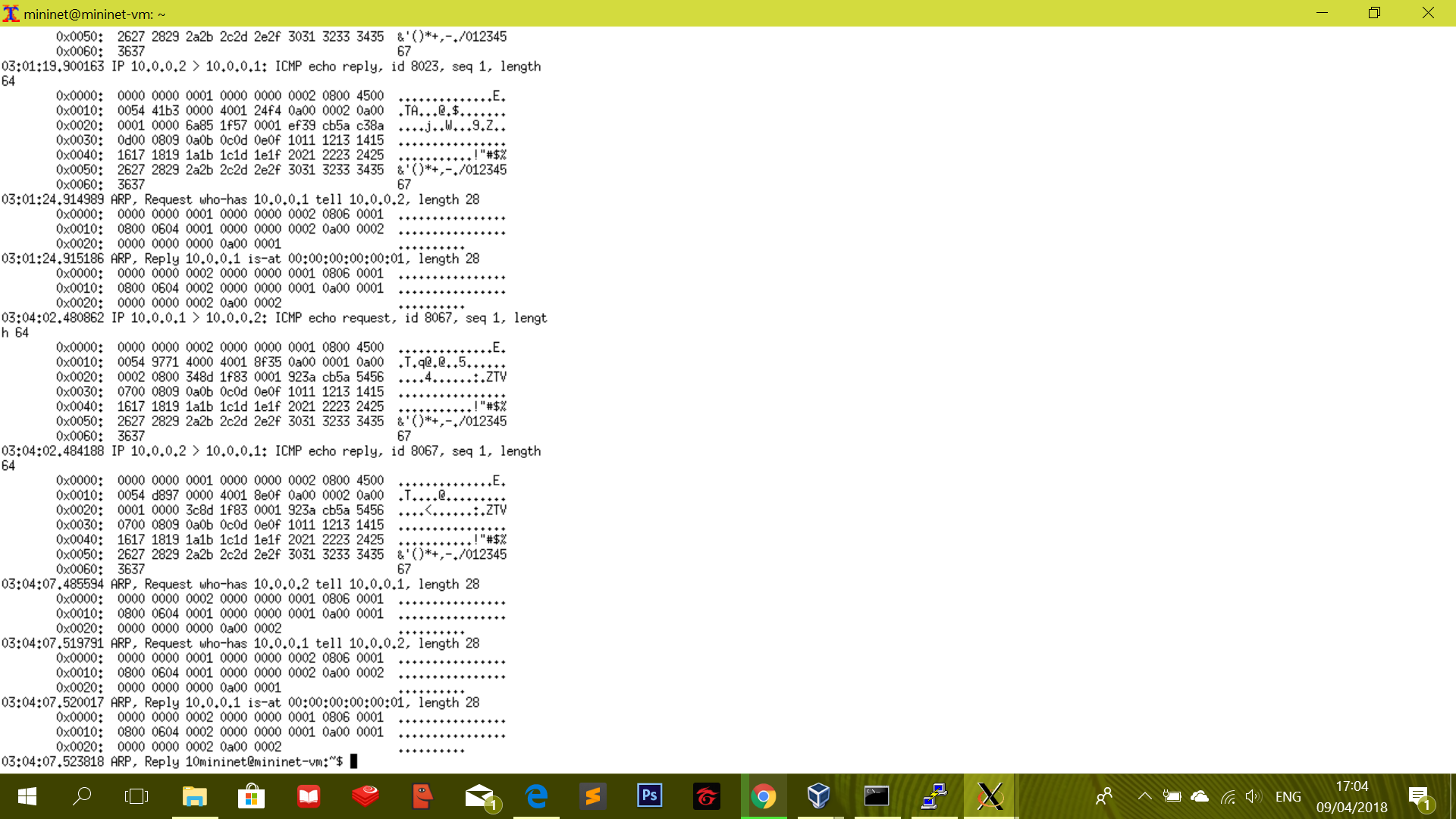


**POX Controller :**

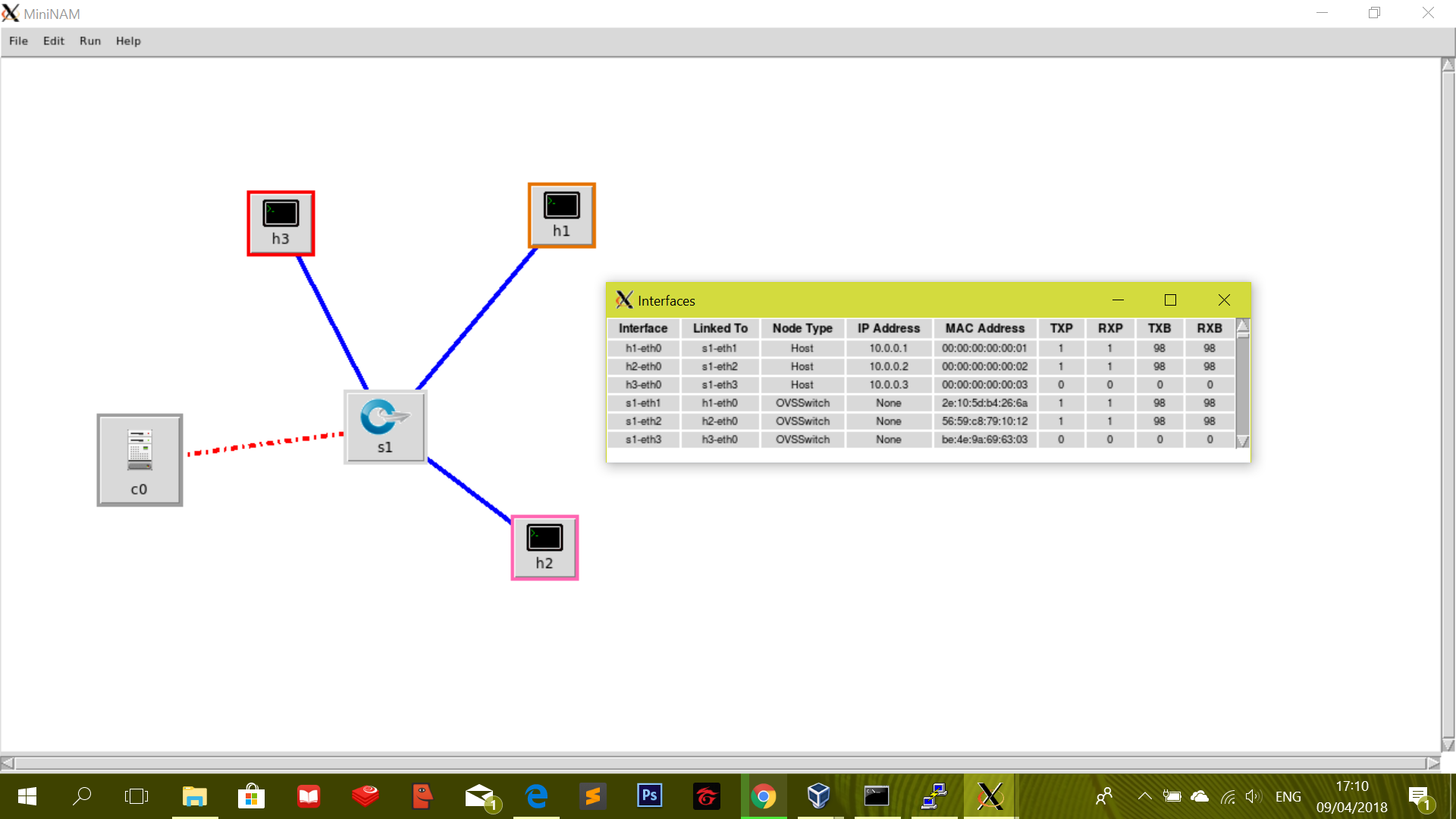
* **POX Controller HUB Behavior**



* **cat h1.txt, h2.txt, and h3.txt**



* **h1 ping –c1 10.0.0.2**



* **h1 ping –c1 10.0.0.5**

