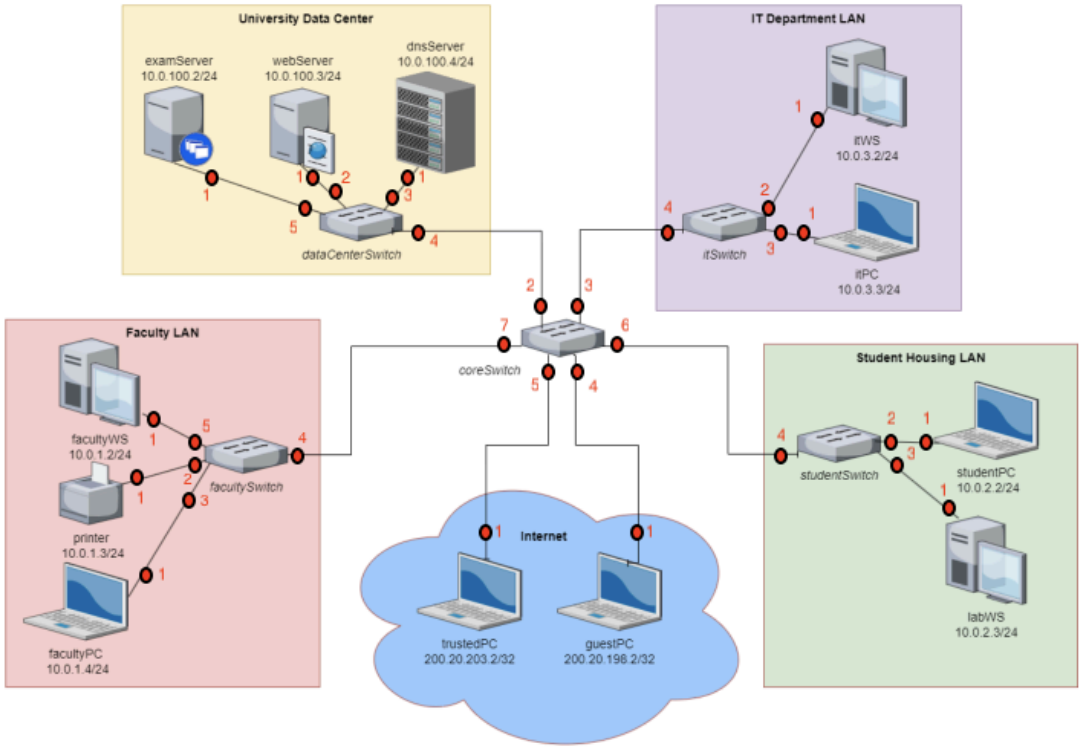
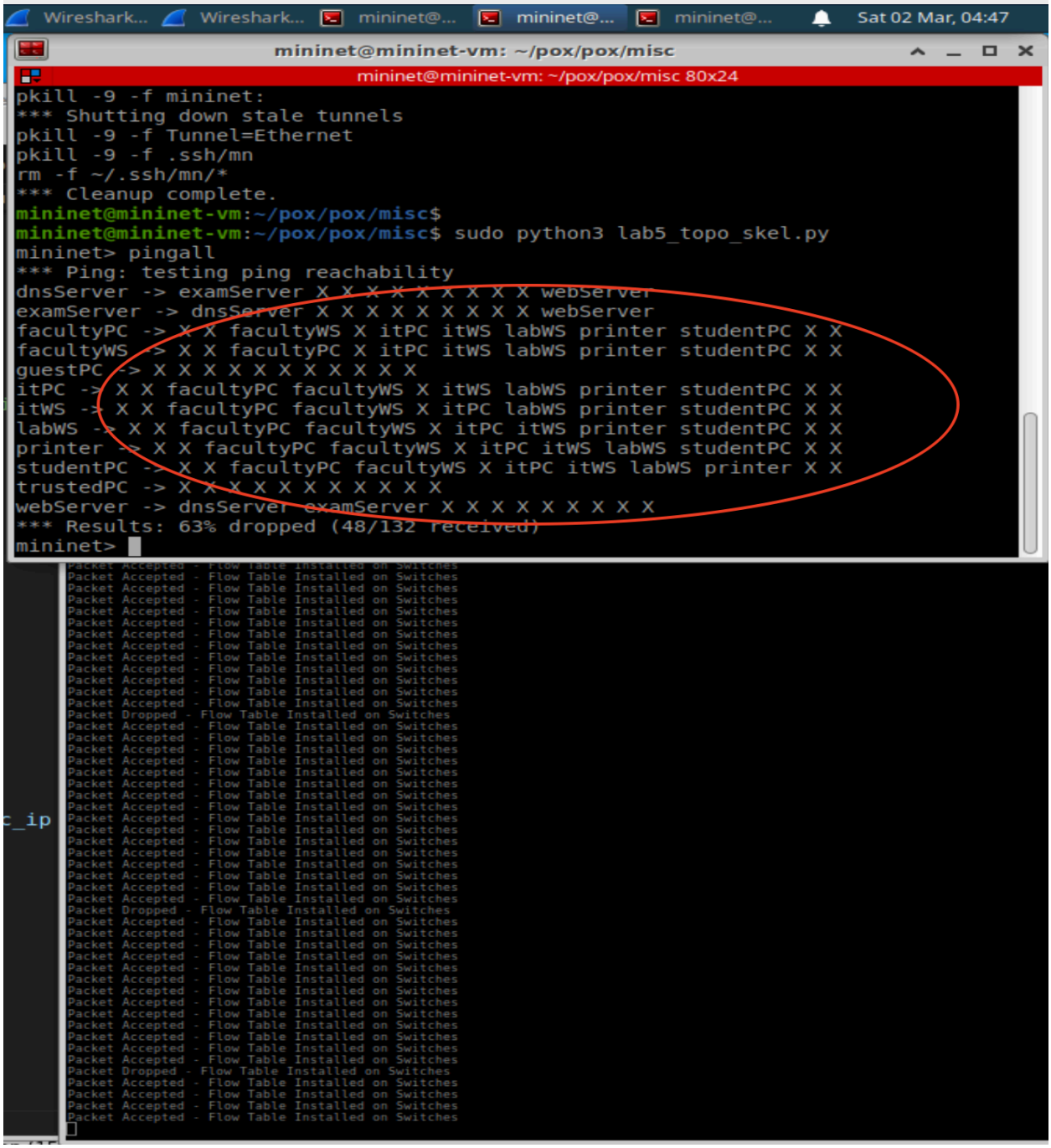


Figure 1

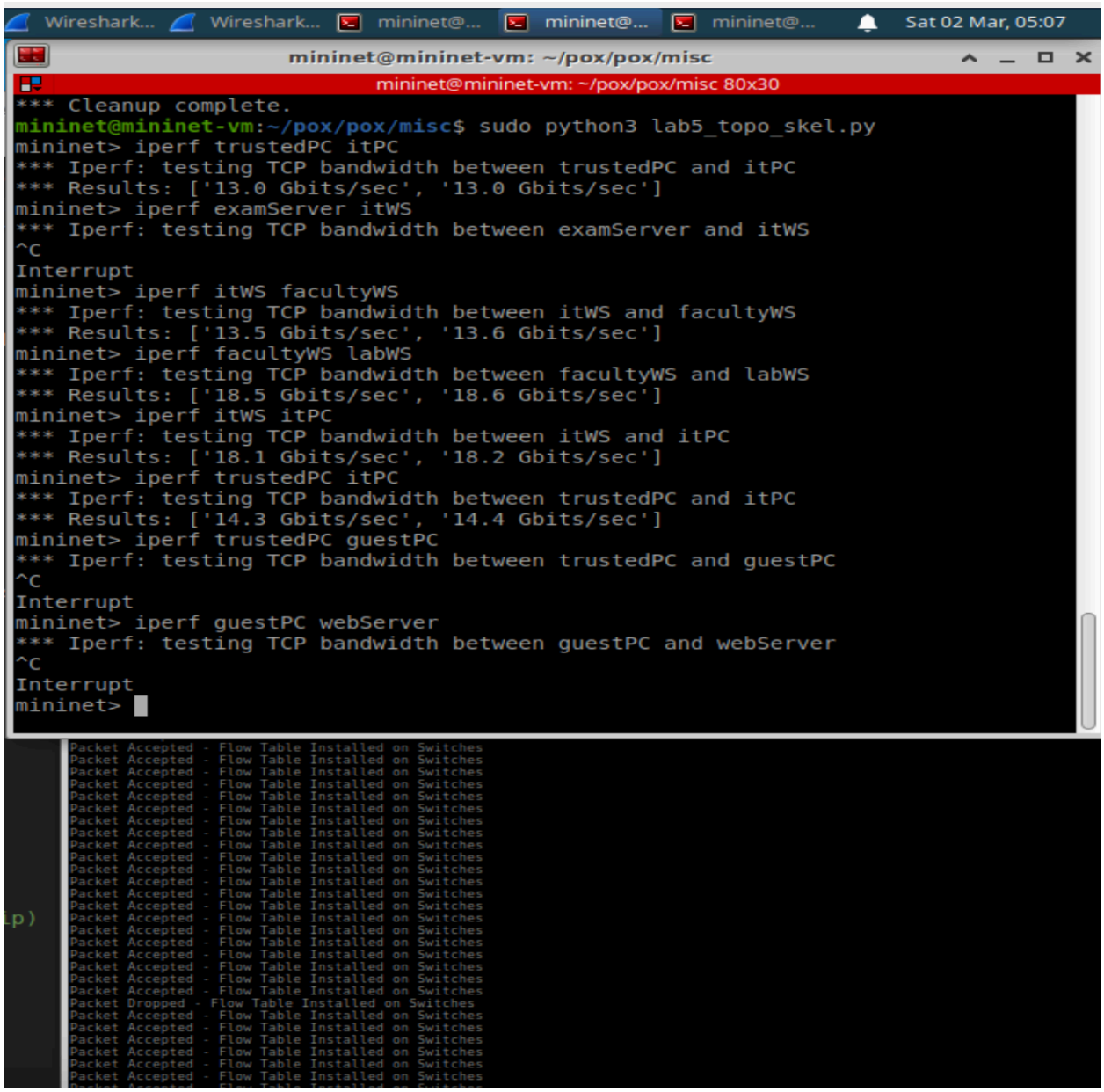
1.
2. Packets are forwarded differently in the accept() function for this lab because they require an end port and are therefore directed to a single host instead of being flooded to the ports of all hosts like in the last lab.
3. The screenshot of the pingall verifies that the rule #1 for ICMP is working as expected such that only communication between the faculty subnet, the IT subnet, and student subnet are allowed, as well as ICMP communication within the same subnet as observable through the University Data Center hosts being able to ping each other. Internet hosts are not part of a subnet in this network and therefore are blocked for all

pings on this network.



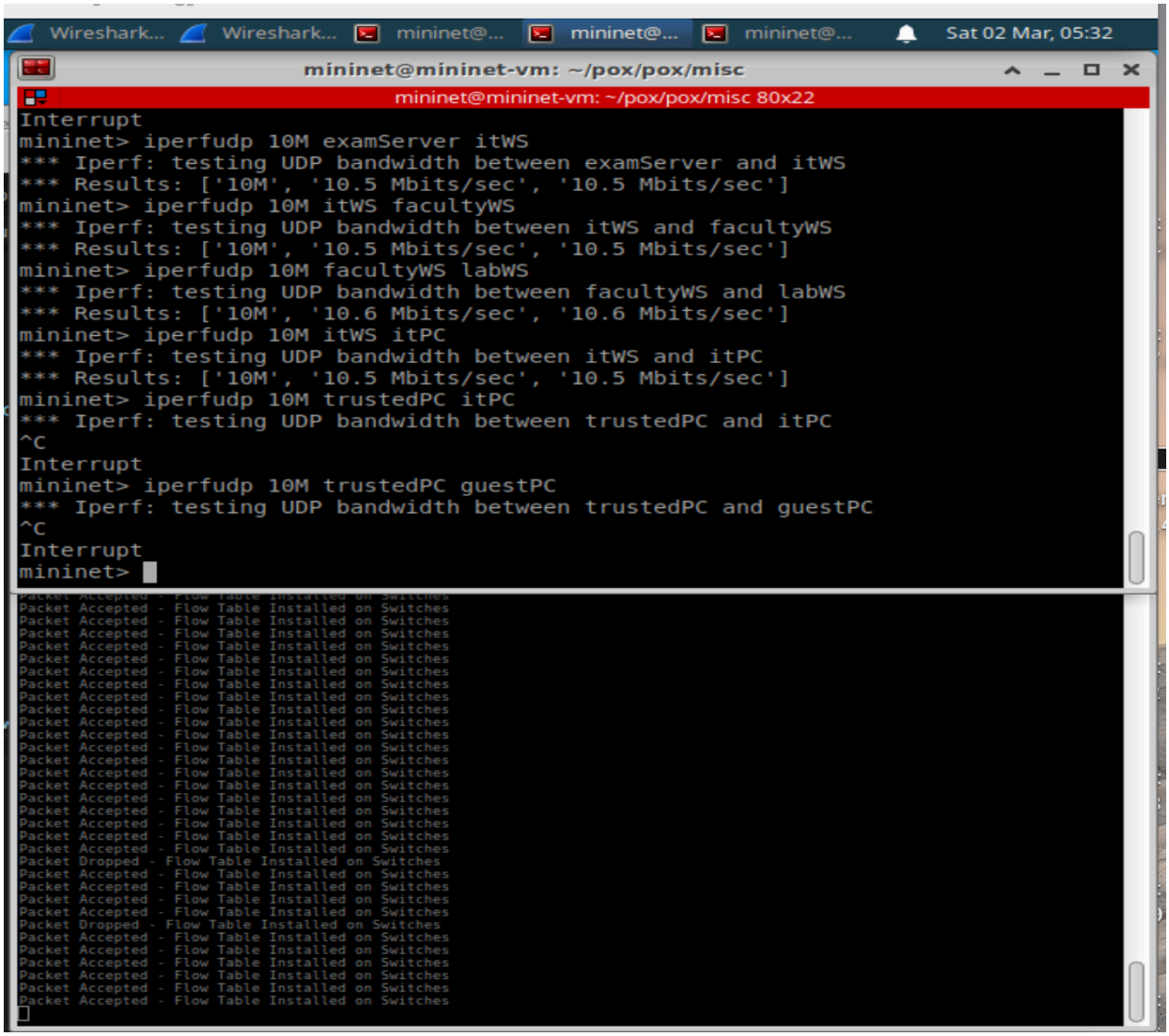
4. The screenshot shows that rule #2 for TCP packets is working as expected because iperf is working between all subnets and hosts within the same subnet, as well as with trustedPC, but it is not working between examServer and itWS because only hosts from the faculty subnet are allowed to send TCP packets to the exam server. It is also not

working for guestPC because the rule does not allow TCP packets to and from guestPC.



5. The individual results in the screenshot show that Rule #3 for UDP is working as expected such that all subnets can communicate with each other and hosts can communicate with each other within the same subnet. However, hosts on the internet cannot use iperfudp because the rule does not allow Internet hosts to send or receive

UDP packets.



Discord host communicates tcp, icmp, and udp only to and from student_subnet