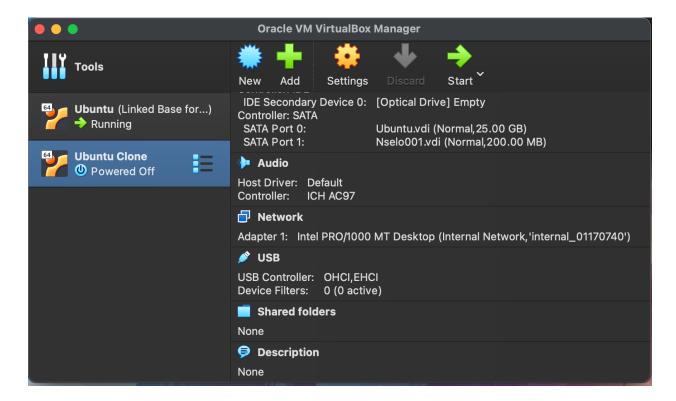
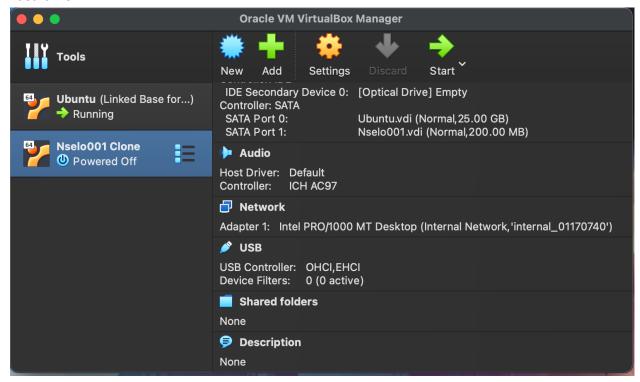
Task A –Network Configuration (60 points)
Please submit the screenshot for all the steps.

1. In the virtual box setting, connect two VMs in the same internal network, "internal\_{UIN}". Replace {UIN} with your real UIN.

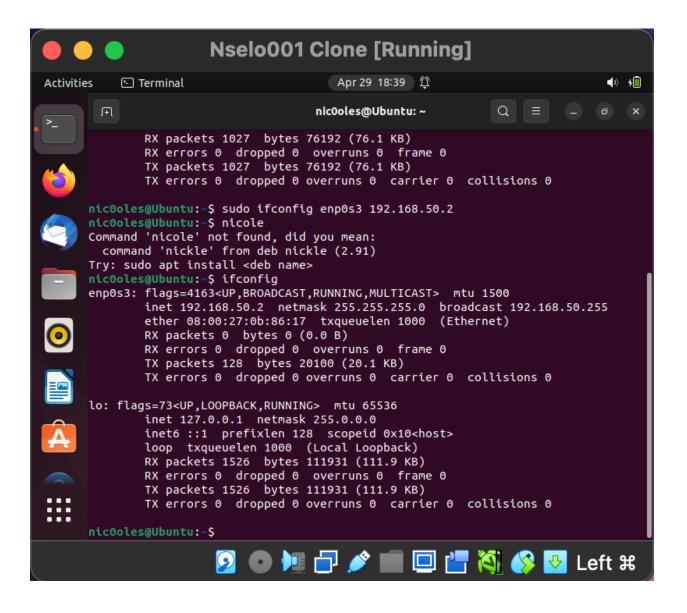


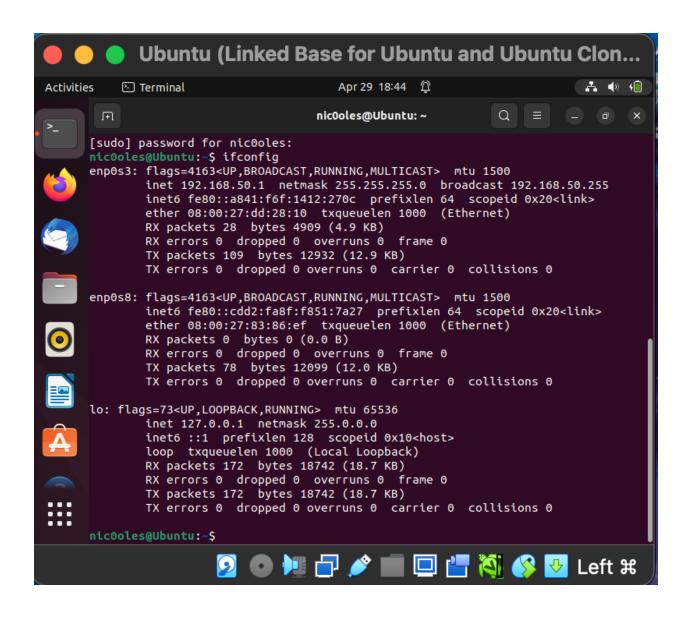
2. Change the hostname of the Client VM to "{MIDASname}-Client." Replace {MIDAS name} with

your real MIDAS name. Don't forget to reboot your client VM to reflect the change in hostname.

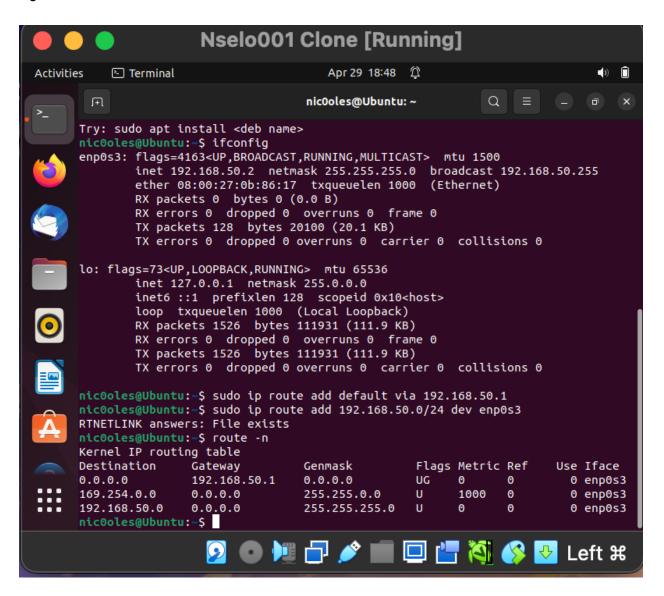


3. Configure the temporary IP address on the Gateway Ubuntu, as shown in Figure 1.

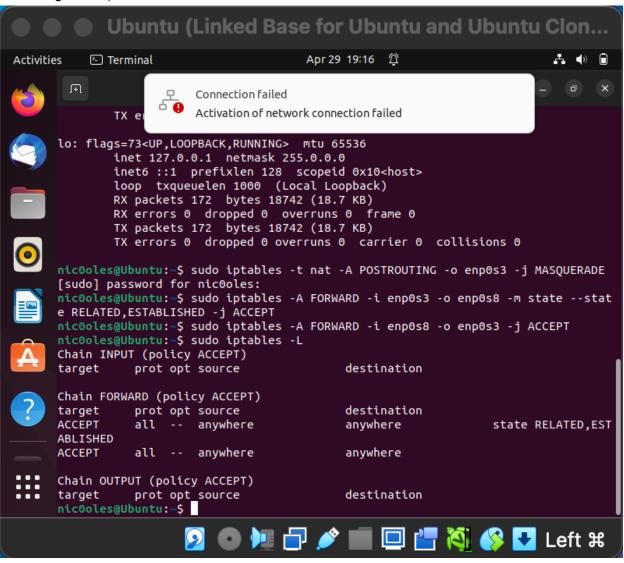




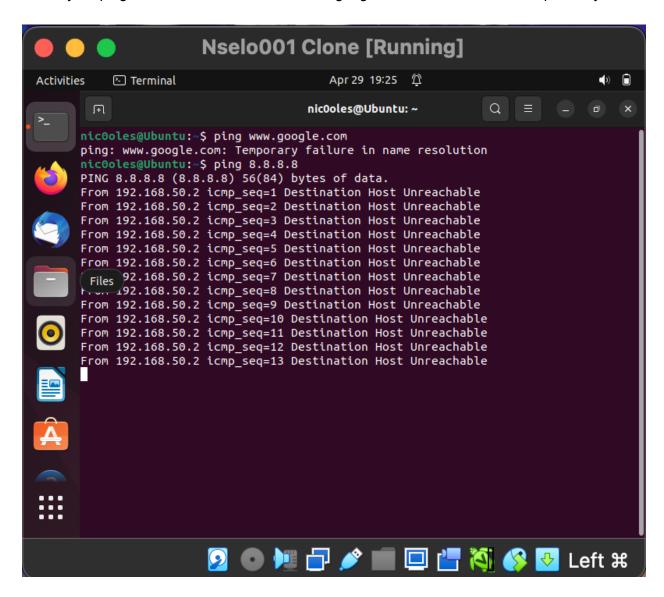
4. Configure the temporary IP address, routing table, and DNS server on Client VM as shown in Figure 1.



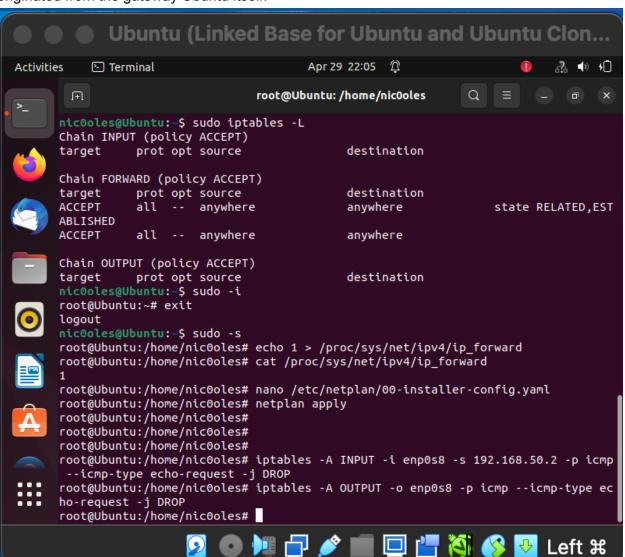
5. Configure gateway Ubuntu to enable IP forwarding (to forward the traffic) (also NATconfiguration)



6. Test your ping connection to 8.8.8.8 and www.google.com in the client VM, respectively.



- 1. Configure the iptables on the gateway Ubuntu to block all the inbound ICMP packets from the Client VM.
- 2. Configure the iptables on the gateway Ubuntu to block all the outbound ICMP packets that originated from the gateway Ubuntu itself.



Extra credit:

Set the permanent IP address on the Client Ubuntu based on the above network topology.

