Assignment 12

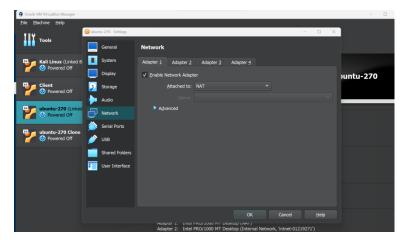
Step0: These are the steps that are included in the lab before you start working on the official steps.

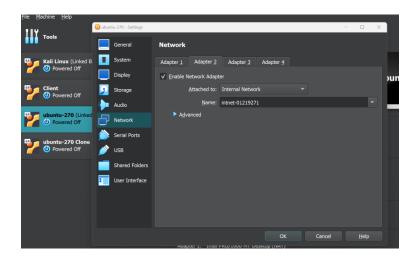
Cloning the current Ubuntu:



Step1: In the virtual box setting, connect two VMs in the same internal network, "internal_{UIN}".

Gateway adapters :





Client adapter:

-	VM VirtualBox Manager										-
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•••			General	Netwo	ork						
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64	ubuntu-270 Clone	>	Serial Ports								
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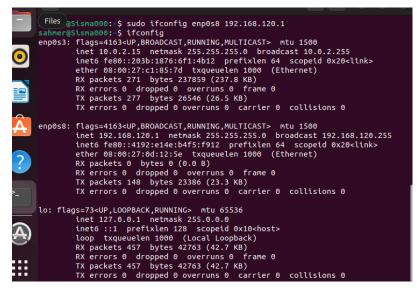
2: Change the hostname of the Client VM to "{MIDASname}-Client." Replace {MIDAS name} with

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

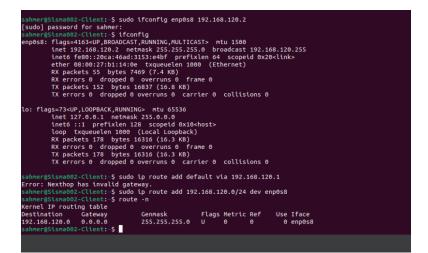
hostname.



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



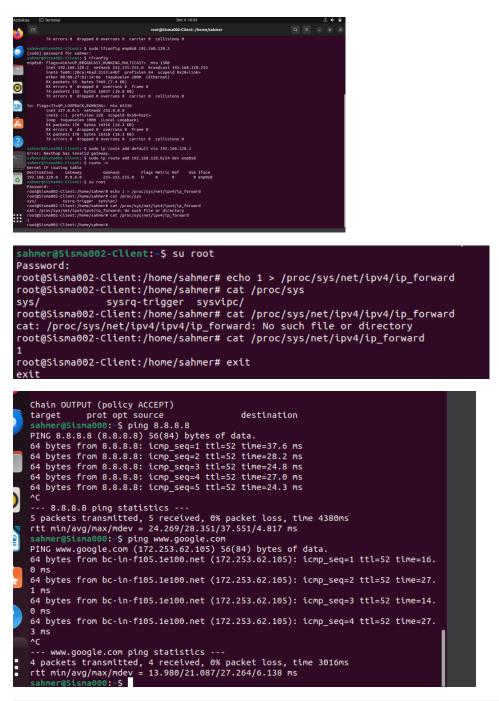
4. Configure the temporary IP address, routing table, and DNS server on Client VM as shown in:



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

<pre>sahmer@Sisma000:~\$ sudo iptables -t nat -A POSTROUTING -o enp0s3 -j MASQUERADE [sudo] password for sahmer: Sorry, try again. Found for actions</pre>									
[sudo] password for sahmer: sahmer@Sisma000:~\$ sudo iptables -A FORWARD -i enp0s3 -o enp0s8 -m state RELATE									
D,ESTABLISHED -j ACCEPT Bad argument `RELATED.ESTABLISHED'									
Try `iptables -h' or 'iptableshelp' for more information.									
<pre>sahmer@Sisma000:~\$ sudo iptables -A FORWARD -i enp0s3 -o enp0s8 -m statestat</pre>									
e RELATED,ESTABLISHED -j ACCEPT <pre>sahmer@Sisma000:~\$ sudo iptables -A FORWARD -i enp0s8 -o enp0s3 -j ACCEPT sahmer@Sisma000:~\$ sudo iptables -L</pre>									
Chain INPUT (policy ACCEPT)									
target prot opt source	destination								
Chain FORWARD (policy ACCEPT)									
g p	destination								
ACCEPT all anywhere ABLISHED	anywhere state RELATED,EST								
	anywhere								
Chain OUTPUT (policy ACCEPT) target prot opt source sahmer@Sisma000:~\$	destination								

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



 Configure the iptables on the gateway Ubuntu to block all the inbound ICMP packets from the Client VM.

\$ sudo iptables -A INPUT -s 192.168.120.2 -p tep -j DROP

Configure the iptables on the gateway Ubuntu to block all the outbound ICMP packets that

originated from the gateway Ubuntu itself.

