CCT College Dublin

Assessment Cover Page

Module Title:	Network Services & Virtualization
Assessment Title:	Proof of Concept Linux Virtual Network Project
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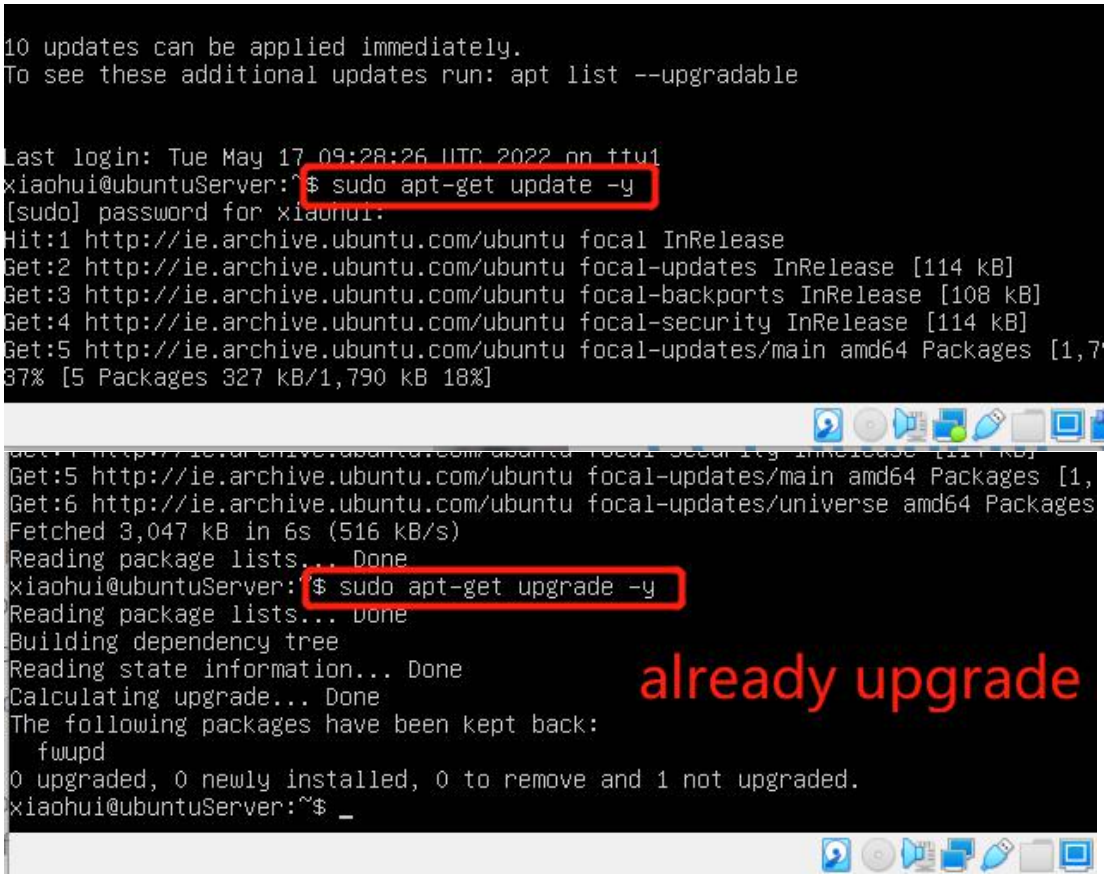
Date of Submission:	17th May 2022

Declaration

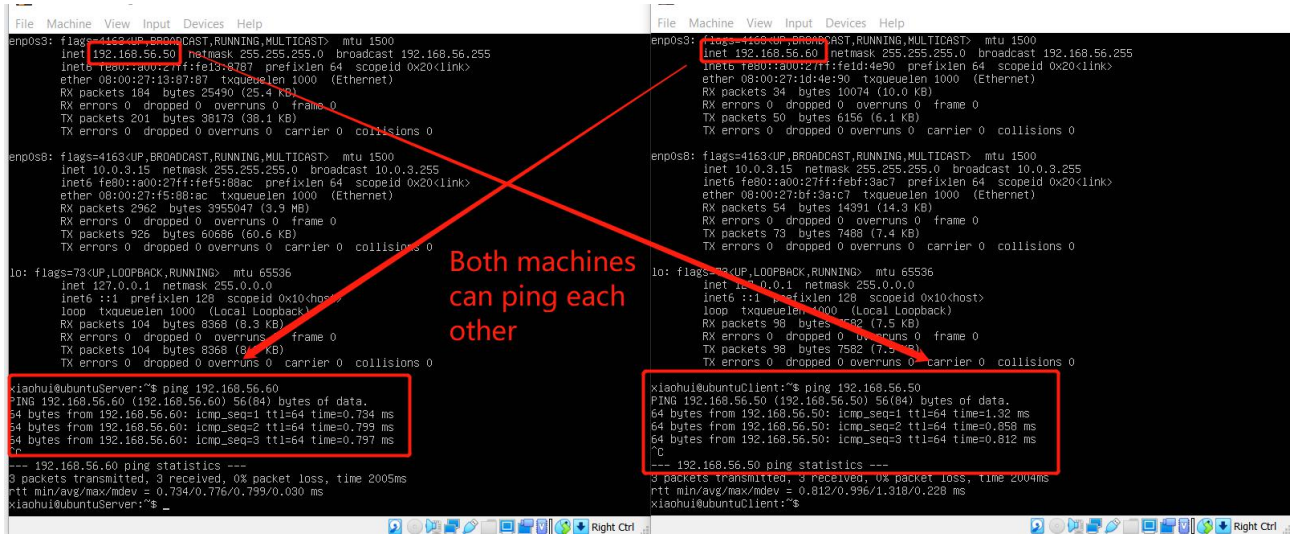
By submitting this assessment, I confirm that I have read the CCT policy on Academic Misconduct and understand the implications of submitting work that is not my own or does not appropriately reference material taken from a third party or other source. I declare it to be my own work and that all material from third parties has been appropriately referenced. I further confirm that this work has not previously been submitted for assessment by myself or someone else in CCT College Dublin or any other higher education institution.

Catalog

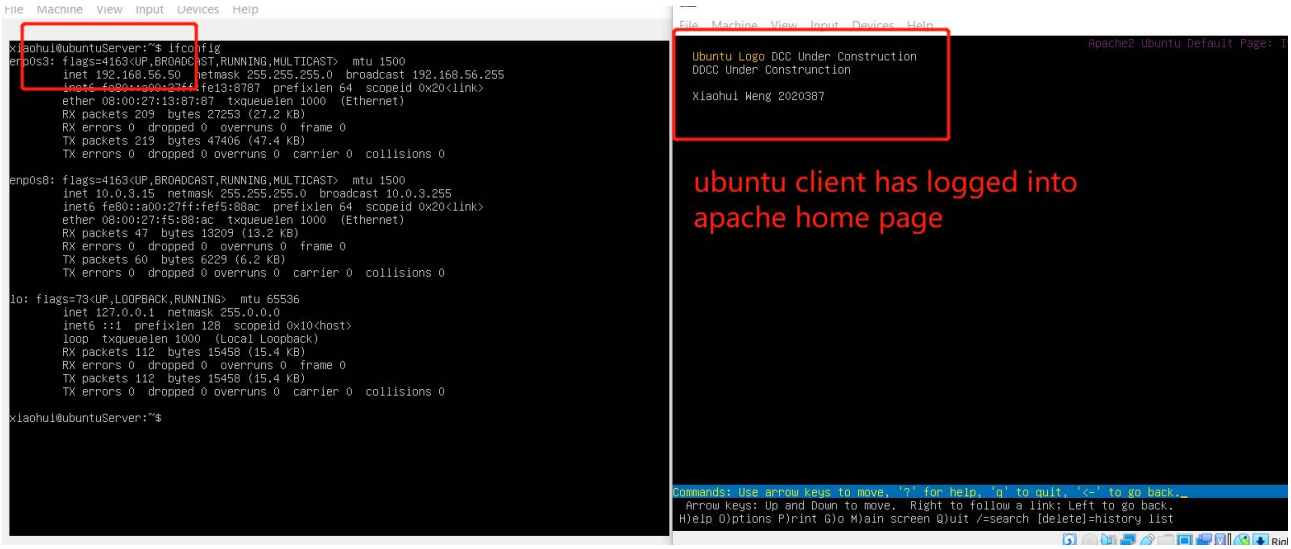
1.1 Using commands to update and upgrade both machines



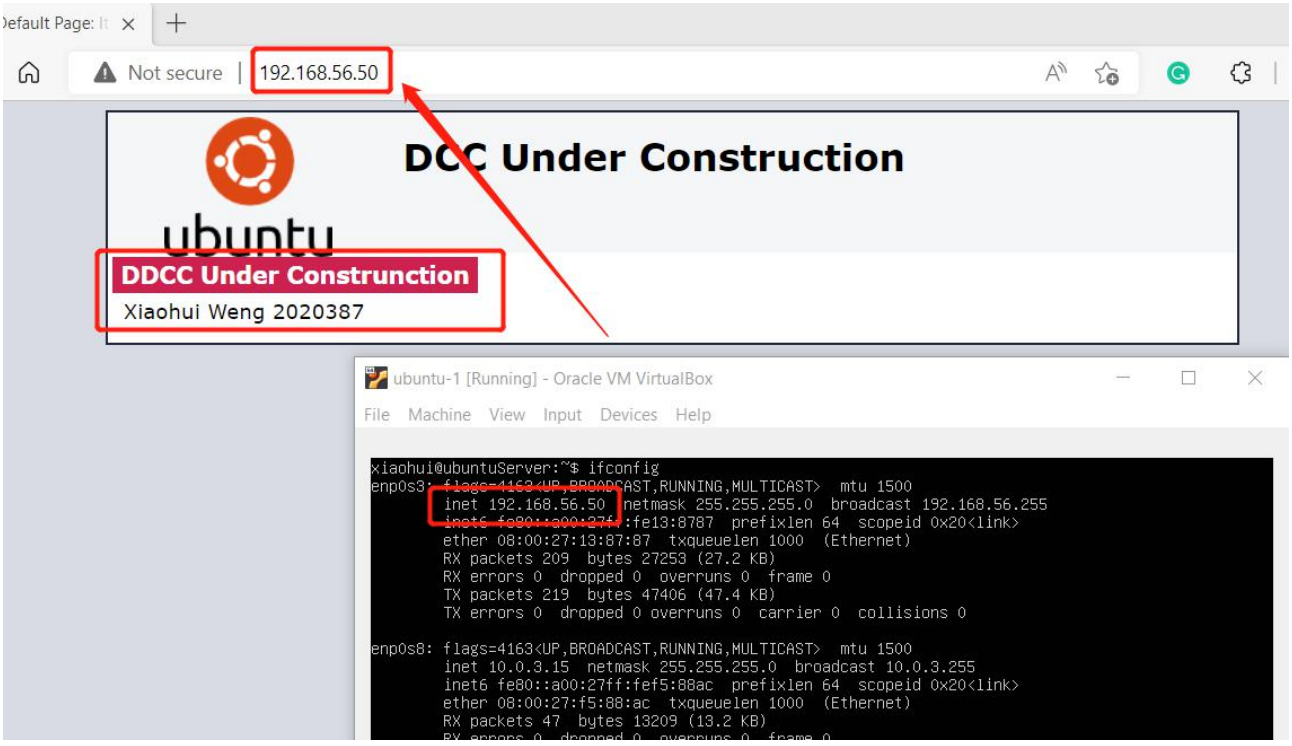
1.2 Connectivity between machines



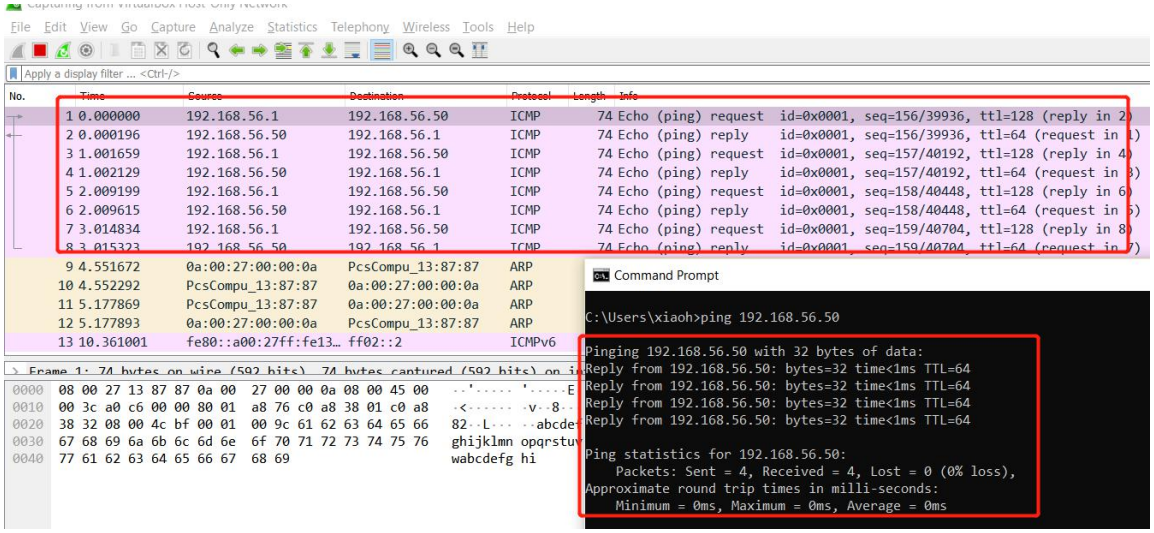
1.3 Ubuntu Client visit the Ubuntu Apache server website



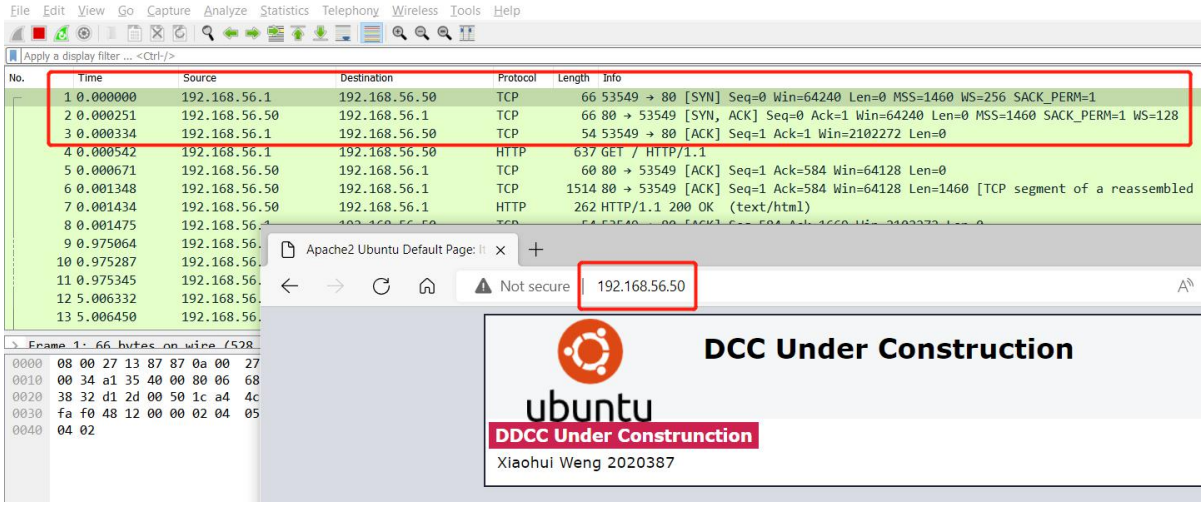
1.4 Host machine access into Apache home page



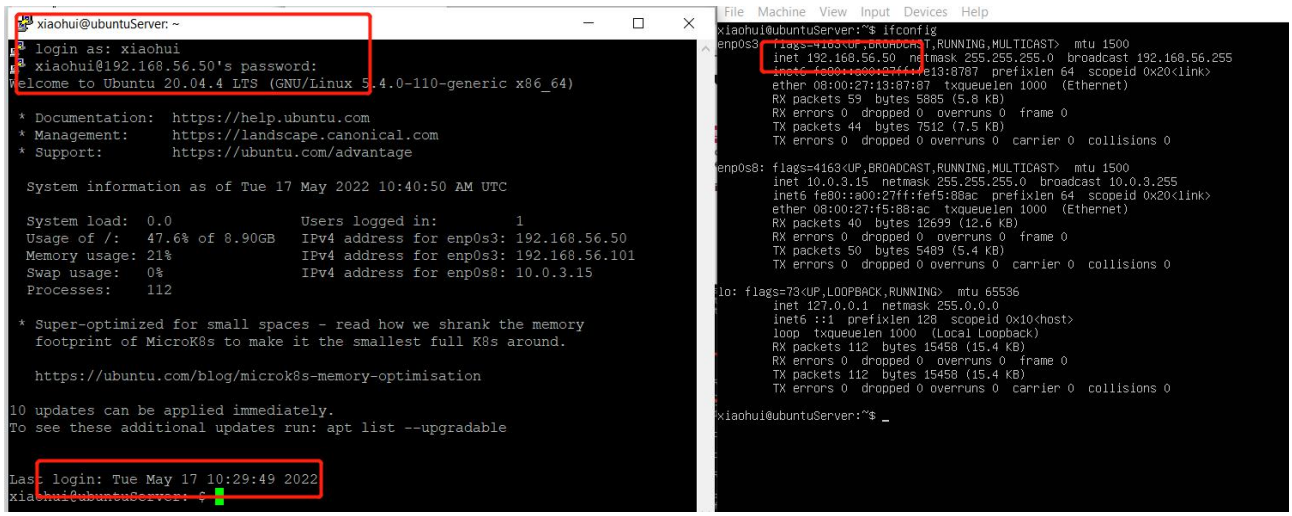
1.5 Wireshark about pinging ubuntuServer from host machines(ICMP)



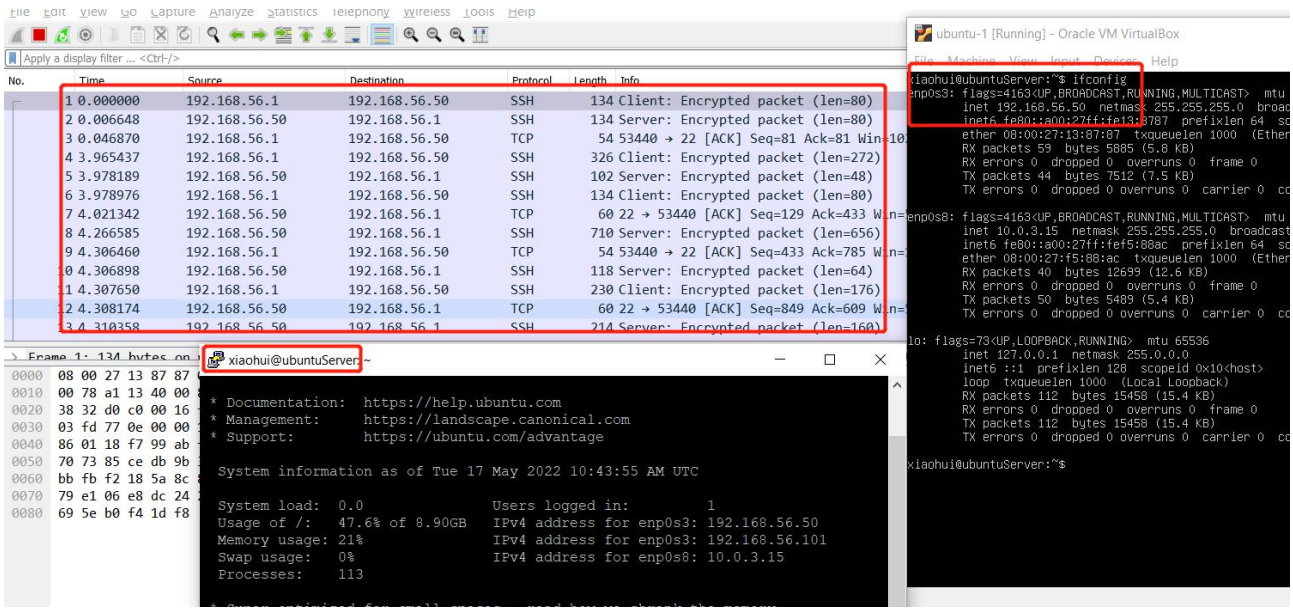
1.6 Three way handshake from host browser access into Apache website



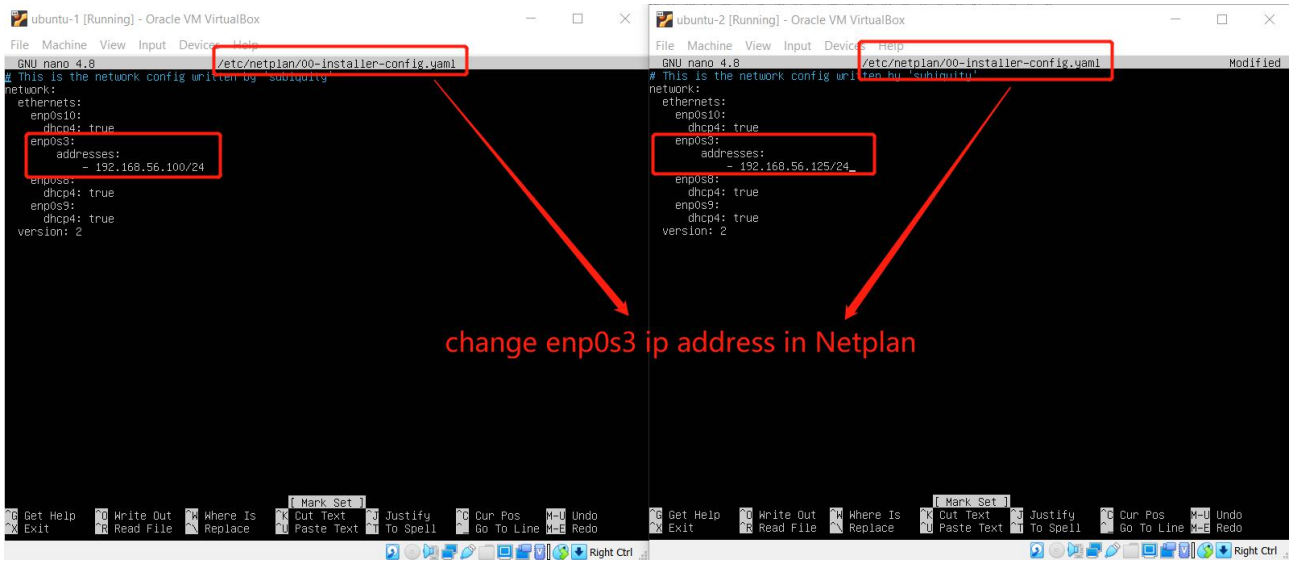
2.1 log into ubuntuServer using Putty

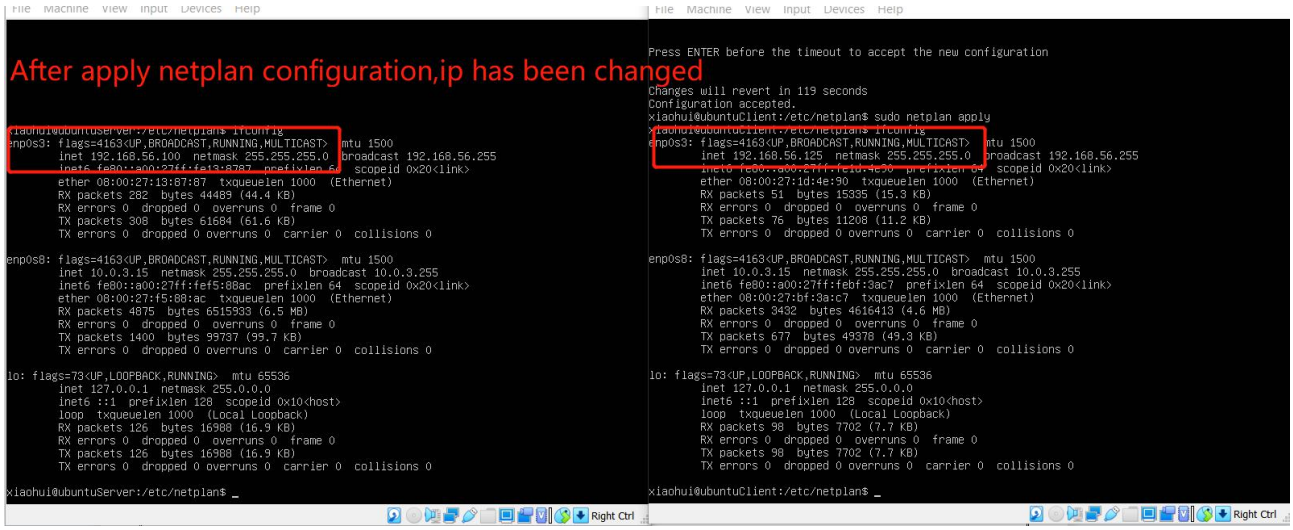


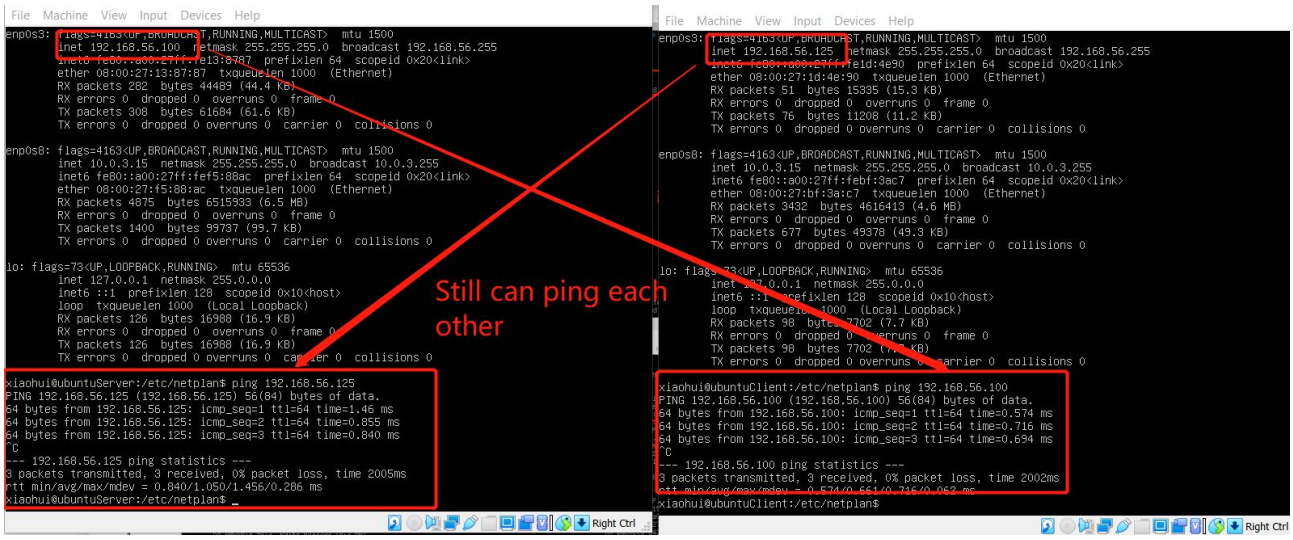
2.2 Wiresharke show the SSH traffic



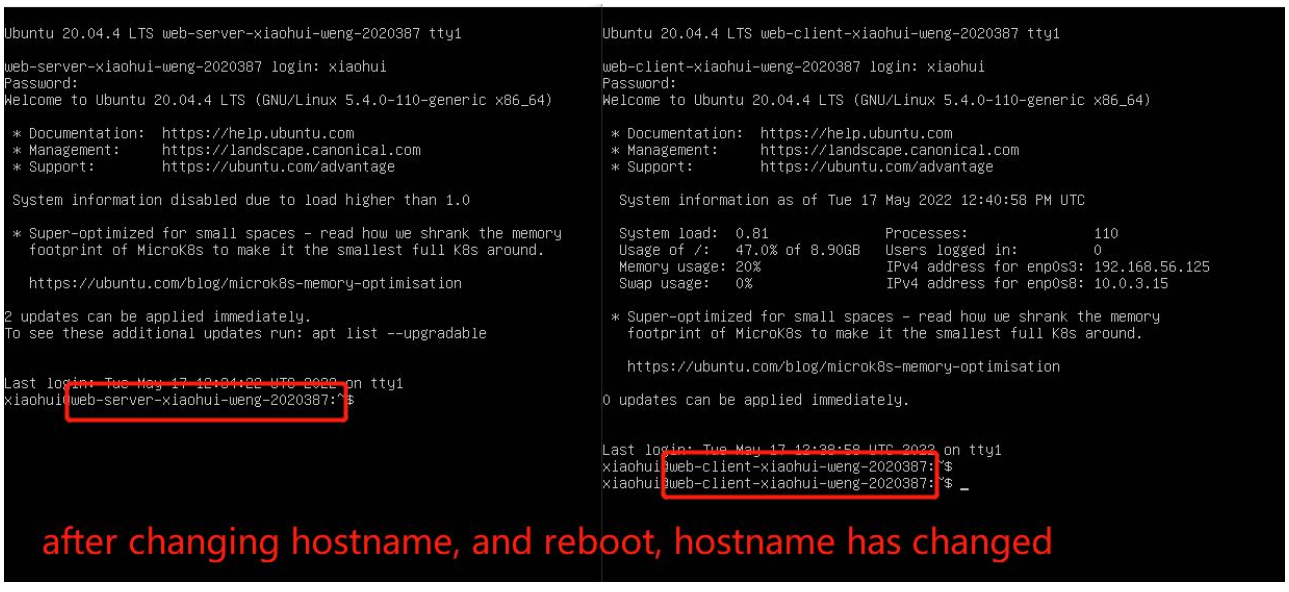
3.1 Make ip address to be permanent(Netplan configuration examples,05.2022)



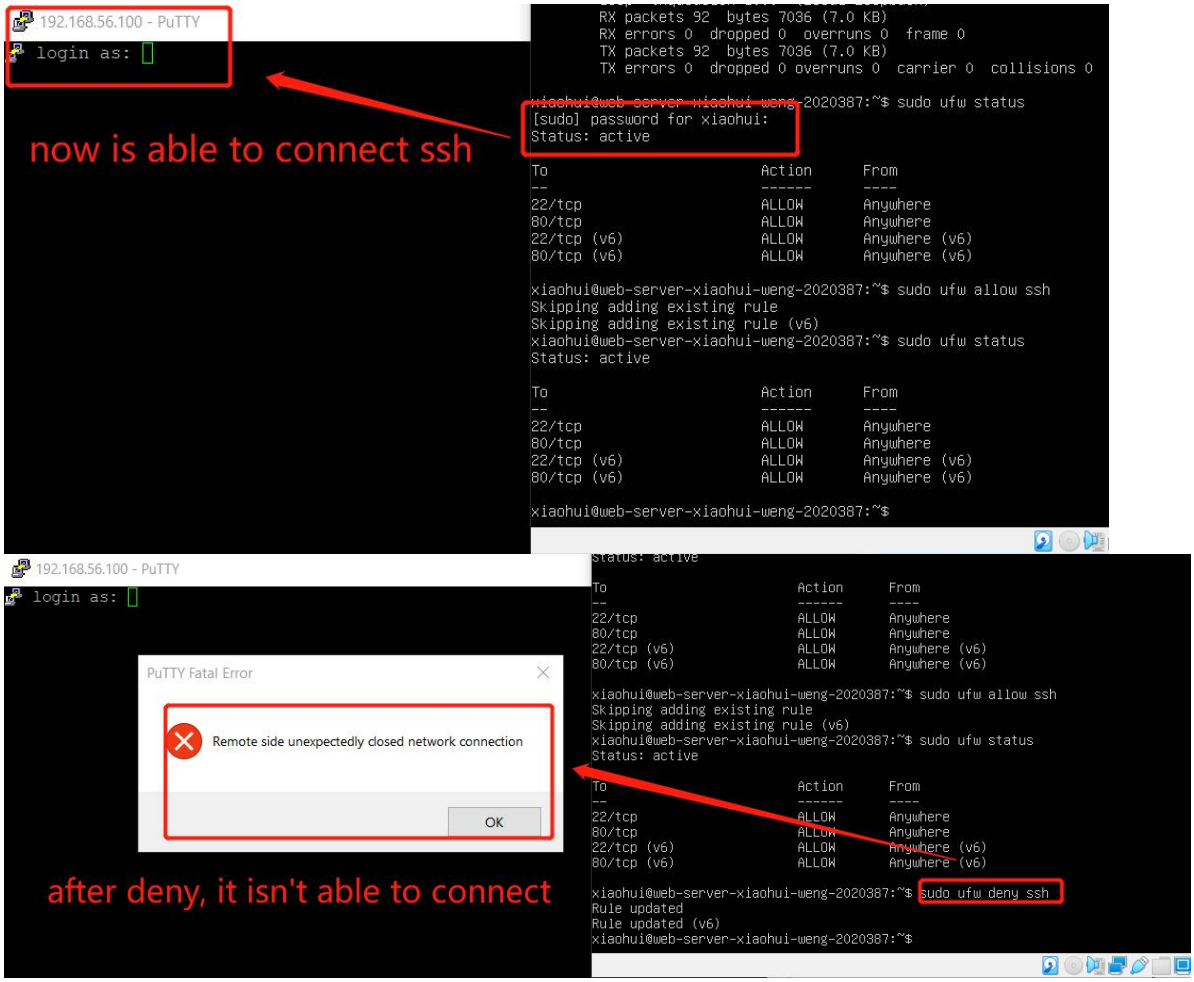




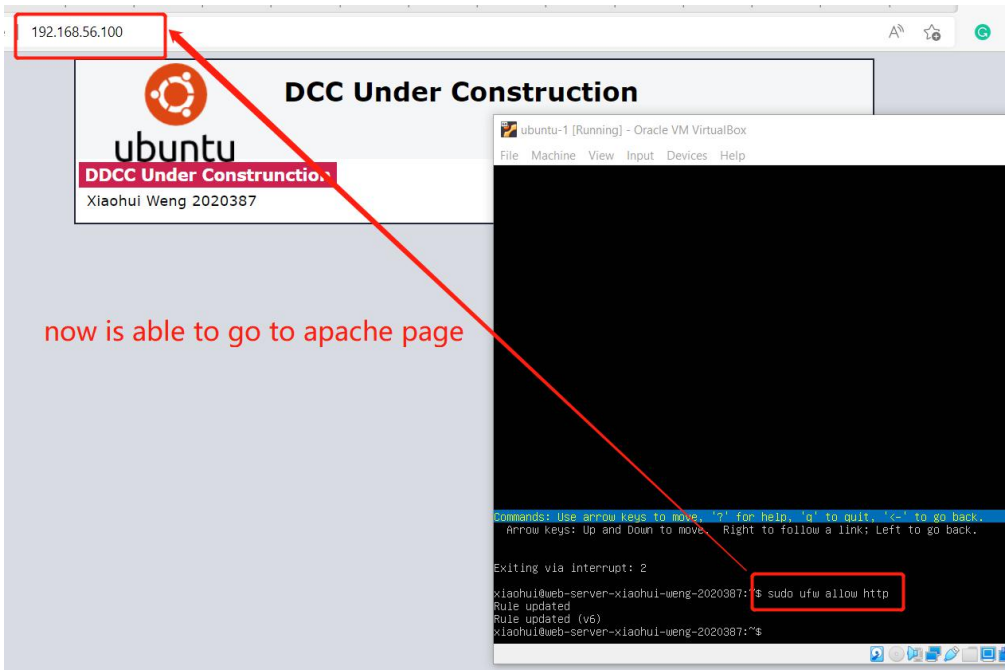
3.2 Rename Host-name

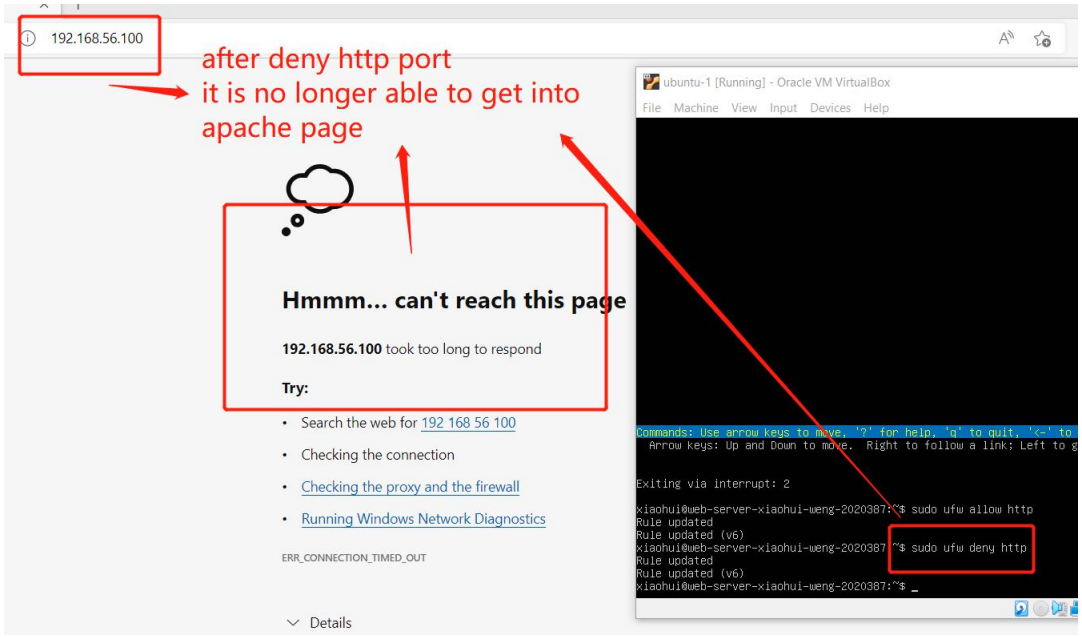


4.1 Firewall - SSH traffic



4.2 Firewall - http traffic




192.168.56.100
after deny http port
it is no longer able to get into
apache page
Hmmm... can't reach this page
192.168.56.100 took too long to respond
Try:
Search the web for 192 168 56 100
Checking the connection
Checking the proxy and the firewall
Running Windows Network Diagnostics
ERR_CONNECTION_TIMED_OUT
Details
ubuntu-1 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
Commands: Use arrow keys to move, '?' for help, 'q' to quit, '<' to
Arrow keys: Up and Down to move. Right to follow a link; Left to g
Exiting via interrupt: 2
xiaohui@web-server-xiaohui-weng-2020387:~$ sudo ufw allow http
Rule updated
Rule updated (v6)
xiaohui@web-server-xiaohui-weng-2020387:~$ sudo ufw deny http
Rule updated
Rule updated (v6)
xiaohui@web-server-xiaohui-weng-2020387:~$

5. Research

References

Netplan configuration examples [online] Available:https://netplan.io/examples/ [Accessed 17.05.2022]