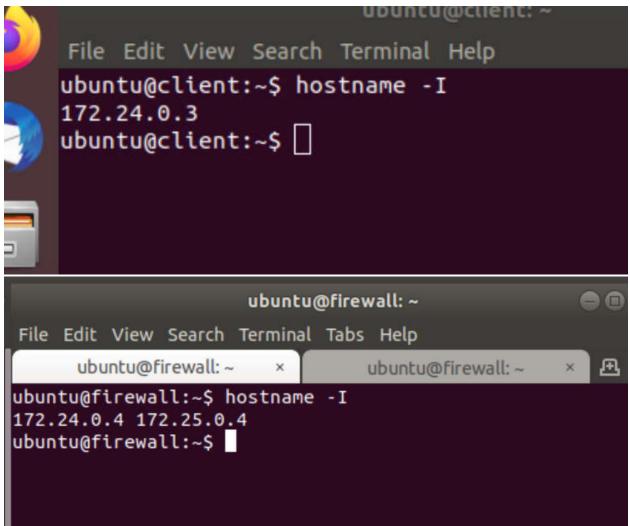
## Homework 4 – Linux Firewall

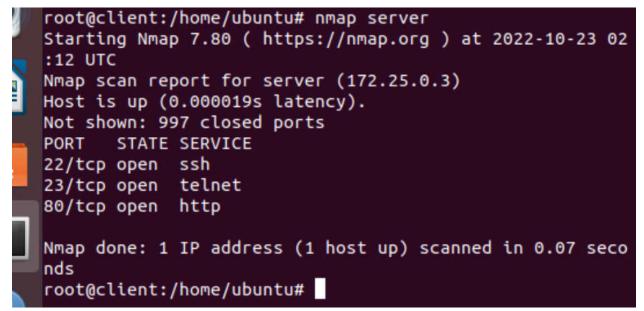
## Task 1. Find IP addresses

- a) Find the IP address of <u>the client and the firewall</u>.
- b) Show the addresses in screenshots.



Task 2. Nmap scan

a) Perform a nmap scan on the client for open ports on the server. Show the output in a screenshot.



b) Run *wget* and report captured packets on wireshark in a screenshot. To capture packets for a new command, you need to stop/start capturing without exiting wireshark.

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	Apply a display filter .	<ctri-></ctri->			🖃 • ) 4
No.	Time	Source	Destination	Protocol	Lengt Info
Г	1 0.000000000	172.24.0.3	172.25.0.3	TCP	74 35792 - 80 [SYN] Seg=0 Win=29200 Len=0 MSS=1460 SACK PERM=1 T_
	2 0.000035513	172.25.0.3	172.24.0.3	TCP	74 80 → 35792 [SYN, ACK] Seq=0 Ack=1 Win=28960 Len=0 MSS=1460 SA.
	3 0.000050129	172.24.0.3	172.25.0.3	TCP	66 35792 → 80 [ACK] Seq=1 Ack=1 Win=29312 Len=0 TSval=3356129334.
	4 0.000171677	172.24.0.3	172.25.0.3	HTTP	199 GET / HTTP/1.1
	5 0.000185700	172.25.0.3	172.24.0.3	TCP	66 80 → 35792 [ACK] Seq=1 Ack=134 Win=30080 Len=0 TSval=14735087.
	6 0.000973350	172.25.0.3	172.24.0.3	TCP	83 80 → 35792 [PSH, ACK] Seq=1 Ack=134 Win=30080 Len=17 TSval=14_
	7 0.001054533	172.25.0.3	172.24.0.3	HTTP	1078 HTTP/1.0 200 OK (text/html)
	8 0.001093175	172.24.0.3	172.25.0.3	TCP	66 35792 → 80 [ACK] Seq=134 Ack=18 Win=29312 Len=0 TSval=3356129.
	9 0.001105805	172.24.0.3	172.25.0.3	TCP	66 35792 → 80 [ACK] Seq=134 Ack=1031 Win=31232 Len=0 TSval=33561.
	10 0.001421013	172.24.0.3	172.25.0.3	TCP	66 35792 → 80 [FIN, ACK] Seq=134 Ack=1031 Win=31232 Len=0 TSval=.
-	11 0.001437723	172.25.0.3	172.24.0.3	TCP	66 80 → 35792 [ACK] Seq=1031 Ack=135 Win=30080 Len=0 TSval=14735.
	12 5.106257934	02:42:ac:18:00:04	02:42:ac:18:00:03	ARP	42 Who has 172.24.0.37 Tell 172.24.0.4
	13 5.106313035	02:42:ac:18:00:03	02:42:ac:18:00:04	ARP	42 Who has 172.24.0.4? Tell 172.24.0.3
	14 5.106329735	02:42:ac:18:00:04	02:42:ac:18:00:03	ARP	42 172.24.0.4 is at 02:42:ac:18:00:04
	15 5.106331169	02:42:ac:18:00:03	02:42:ac:18:00:04	ARP	42 172.24.0.3 is at 02:42:ac:18:00:03
	come 1, 74 huter a	musica (503 bits) 7	A butos contured (502	hitel on	interface athe id a
			4 bytes captured (592		
			4.0.3, Dst: 172.25.0.		:18:00:04 (02:42:ac:18:00:04)

- Internet Protocol Version 4, Src: 172.24.0.3, Dst: 172.25.0.3
   Transmission Control Protocol, Src Port: 35792, Dst Port: 80, Seq: 0, Len: 0
- c) Run ssh and report captured packets on wireshark in a screenshot.

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	Apply a displa	y filter	. <ctrl-></ctrl->								
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	2 0.0000		172.25.0.		172.24.0.		TCP				ACK] Seg=0 Ack=1 Win=28960 Len=0 MSS=1460
_	3 0.000		172.24.0.		172.25.0.		TCP				Seg=1 Ack=1 Win=29312 Len=0 TSval=3356197
	4 0.0020		172.24.0.		172.25.0.		SSHv2				(SSH-2.0-OpenSSH 8.2p1 Ubuntu-4ubuntu0.2)
	5 0.0021	101178	172.25.0.	3	172.24.0.	3	TCP				Seg=1 Ack=42 Win=29056 Len=0 TSval=147357
	6 0.0242	213094	172.25.0.	3	172.24.0.	3	SSHv2				(SSH-2.0-OpenSSH_8.2p1 Ubuntu-4ubuntu0.2)
	7 0.0242		172.24.0.	3	172.25.0.	.3	TCP	66 379	16 - 22	[ACK]	Seq=42 Ack=42 Win=29312 Len=0 TSval=33561
	8 0.0244		172.24.0.		172.25.0.		SSHv2				ange Init
	9 0.0244		172.25.0.		172.24.0.		TCP				Seq=42 Ack=1554 Win=32000 Len=0 TSval=147
	10 0.0268		172.25.0.		172.24.0.		SSHv2				ange Init
	11 0.0289		172.24.0.		172.25.0.		SSHv2				ellman Key Exchange Init
	12 0.0341		172.25.0.		172.24.0.		SSHv2				ellman Key Exchange Reply, New Keys, Encry
	13 0.0760		172.24.0.		172.25.0.		TCP				Seq=1602 Ack=1606 Win=33536 Len=0 TSval=3
	14 5.1282		02:42:ac: 02:42:ac:		02:42:ac: 02:42:ac:		ARP				.37 Tell 172.24.0.4 .47 Tell 172.24.0.3
	16 5 128		A7:47:ac:		A7:42:40:		ARP				A7.47.101112.24.0.5
41											TTP: UKP PTT TPT TTT TTM
• E	Ethernet II,	Src: 6	n wire (59 2:42:ac:18	2 bits), 74 :00:03 (02	:42:ac:18:0	tured (592 b 0:03), Dst: n wiresh	02:42:ac	::18:00:04	(02:42	:ac:18:	:00:04)
• E	Ethernet II, n <i>telnet</i> a	Src: 0 nd re	n wire (59: 2:42:ac:18 port cap	2 bits), 74 :00:03 (02 otured p	:42:ac:18:0 ackets o Cap	0:03), Dst:	02:42:ad ark in eth0 (or	::18:00:04 a scree n firewall)	(02:42	:ac:18:	:00:04)
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Frame 1: 74 bytes on wire (592 bits), 74 bytes captured (592 bits) on interface eth0, id 0 → Ethernet II. Src: 02:42:ac:18:00:03 (02:42:ac:18:00:03). Dst: 02:42:ac:18:00:04 (02:42:ac:18:00:04)

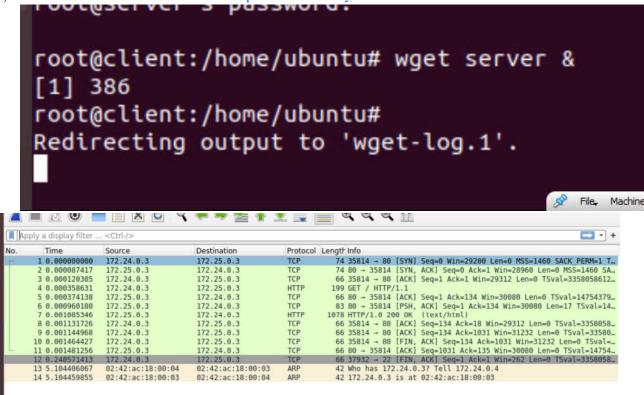
## Task 3. Use iptables to limit traffic to the server

a) Show that ssh traffic is allowed. On the client, run ssh while capturing traffic on the firewall. Report these two activities in two screenshots. Explain how you know ssh traffic is allowed.

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ptables Esc Ubi sel roc roc No. Tim 10.0 2 0.0 4 0.0 5 0.0 6 0.0 7 0.0 8 0.0 9 0.0	s -A INPUT -i cape chara untu 20.04 rver login ot@client: ot@server' splayfilter <ctrl></ctrl> ne Source 0000038561 172.25.0.3 0009365184 172.25.0.3 009965290 172.24.0.3 009965290 172.24.0.3 009965290 172.24.0.3 00996517 172.25.0.3 00996517 172.25.0.3 00996517 172.25.0.3 009869290 172.24.0.3 01018161 172.25.0.3	lo -p al cter is .2 LTS : Conne /home/u s passw Destination 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0	L -j ACCE ction ( buntu# vord:	PT closed by foreign hose ssh server e e • • • • • • • • • • • • • • • • • •	<pre>\$\$5-1460 SACK PERM-1 T. 960 Len=0 MS5=1460 SAL en=0 TSval=3357831692. Ubuntu-4ubuntu8.2) Len=0 TSval=335783170. Ubuntu-4ubuntu8.2) Len=0 TSval=14752110.</pre>
ptables Esc Ub Sel FOC FOC No. Tim 10.0 30.0 40.0 50.0 60.0 60.0 80.0 90.0 100.0	s -A INPUT -i cape chara untu 20.04 rver login ot@client: ot@server' splay filter <ctrl-> ne expenses splay filter<ctrl-> ne splay filter<ctrl-> splay filter<ctr< td=""><td>lo -p al cter is .2 LTS : Conne /home/u s passw Destinatio 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0</td><td>L -j ACCE ction ( ibuntu# vord:</td><td>PT         closed by foreign ho:         ssh server         ssh server         via 37932 - 22 [SYN] Seq-0 Win-29200 Len-0 M         74 37932 - 22 [SYN] Seq-0 Win-29200 Len-0 M         74 37932 - 22 [ACK] Seq-1 Ack-1 Win-29312         66 37932 - 22 [ACK] Seq-1 Ack-1 Win-29312 L         107 Server: Protocol (SSH-2.0-OpenSSH 8.2p1         66 37932 - 22 [ACK] Seq-1 Ack-42 Win-29312         107 Client: Protocol (SSH-2.0-OpenSSH 8.2p1         66 22 - 37932 [ACK] Seq-42 Ack-1554 Win-29056         1578 Client: Key Exchange Init         66 22 - 37932 [ACK] Seq-42 Ack-1554 Win-3206         21122 Server: Key Exchange Init         6122 - 100 [Stifie-Hellman Key Exchange Init         612 - 1122 Server: Key Exchange Init         1122 Server: Key Exchange Init</td><td><pre>\$\$5-1460 SACK PERM-1 T. 960 Len=0 MS5=1460 SAL en=0 TSval=3357831692. Ubuntu-4ubuntu0.2) Len=0 TSval=335783170. Ubuntu-4ubuntu0.2) Len=0 TSval=14752110. 00 Len=0 TSval=147521.</pre></td></ctr<></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl-></ctrl->	lo -p al cter is .2 LTS : Conne /home/u s passw Destinatio 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0	L -j ACCE ction ( ibuntu# vord:	PT         closed by foreign ho:         ssh server         ssh server         via 37932 - 22 [SYN] Seq-0 Win-29200 Len-0 M         74 37932 - 22 [SYN] Seq-0 Win-29200 Len-0 M         74 37932 - 22 [ACK] Seq-1 Ack-1 Win-29312         66 37932 - 22 [ACK] Seq-1 Ack-1 Win-29312 L         107 Server: Protocol (SSH-2.0-OpenSSH 8.2p1         66 37932 - 22 [ACK] Seq-1 Ack-42 Win-29312         107 Client: Protocol (SSH-2.0-OpenSSH 8.2p1         66 22 - 37932 [ACK] Seq-42 Ack-1554 Win-29056         1578 Client: Key Exchange Init         66 22 - 37932 [ACK] Seq-42 Ack-1554 Win-3206         21122 Server: Key Exchange Init         6122 - 100 [Stifie-Hellman Key Exchange Init         612 - 1122 Server: Key Exchange Init         1122 Server: Key Exchange Init	<pre>\$\$5-1460 SACK PERM-1 T. 960 Len=0 MS5=1460 SAL en=0 TSval=3357831692. Ubuntu-4ubuntu0.2) Len=0 TSval=335783170. Ubuntu-4ubuntu0.2) Len=0 TSval=14752110. 00 Len=0 TSval=147521.</pre>
ptables Esc Ub sel roc roc v No. Tim 10.0 30.0 40.0 50.0 60.0 60.0 90.0 90.0 10.0 110.0 110.0 110.0	s -A INPUT -i cape chara untu 20.04 rver login ot@client: ot@server' splay filter   0t@server'   0t@server' <td>lo -p al cter is .2 LTS : Conne /home/u s passw Destinatio 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0 172.25.0</td> <td>L -j ACCE Ction ( buntu# vord:</td> <td>PT         closed by foreign ho:         ssh server         ssh server         e e a 37932 - 22 [SYN] Seq=0 Win=29200 Len=0 M         74 37932 - 22 [SYN] Seq=0 Win=29200 Len=0 M         74 22 - 37932 [SYN, ACK] Seq=0 Ack=1 Win=29312         66 37932 - 22 [ACK] Seq=1 Ack=1 Win=29312         107 Server: Protocol (SSH-2.0-0penS5H 8.2p1         66 37932 - 22 [ACK] Seq=4 Ack=42 Win=29312         107 Client: Protocol (SSH-2.0-0penS5H 8.2p1         66 22 - 37932 [ACK] Seq=42 Ack=42 Win=29056         1578 Client: Key Exchange Init         66 22 - 37932 [ACK] Seq=42 Ack=1554 Win=320         1122 Server: Key Exchange Init         66 22 - 37932 [ACK] Seq=42 Ack=42 Win=29056         114 Client: Diffie-Hellman Key Exchange Init         2112 Server: Diffie-Hellman Key Exchange Repl         2112 Server: Diffie-Hellman Key Exchange Repl         2112 Server: New Keys</td> <td>SS=1460 SACK PERM=1 T. 960 Len=0 MSS=1460 SA. en=0 TSval=3357831692. 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I know ssh traffic is allowed because the client and server are successfully exchanging packets per the above wireshark screenshot. The server allows me to attempt to login. The iptables rule specifically accepts packets through port 22.

b) Show that HTTP traffic is allowed. Report the same as you did for ssh traffic.



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I know http traffic is allowed because wget to the server receives packets in response per the above wireshark screenshot. The iptables rule specifically allows traffic through port 80.

c) Show that telnet traffic is blocked. Report the same as you did for ssh traffic.

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I know telnet traffic is blocked because the client never receives a response from the server with a telnet request. The client just continually tries to connect. Per the wiresharkscreenshot, the client sends a packet and a packet is never received back. The iptables rule specifically rejects traffic to the server's port 23.

d) At the end, perform a nmap scan on the client for open ports on the server. Show the output in a screenshot.

root@client:/home/ubuntu# nmap server Starting Nmap 7.80 ( https://nmap.org ) at 2022-10-23 02:54 UTC Nmap scan report for server (172.25.0.3) Host is up (0.000068s latency). Not shown: 998 filtered ports PORT STATE SERVICE 22/tcp open ssh 80/tcp open http
Nmap done: 1 IP address (1 host up) scanned in 4.38 seconds root@client:/home/ubuntu#

## Task 4. Open a new service port

a) Show that wizbang traffic is allowed. On the client, run wizbang while capturing traffic on the firewall. Report these two activities in two screenshots. Explain how you know wizbang traffic is allowed.

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	pply a display filter	. <ctrl-></ctrl->	* * 2 * :	Ł 💷 (	■ <b></b>
No.	pply a display filter Time	. <ctrl-></ctrl-> Source 172, 24, 9, 3	<ul> <li>Destination</li> <li>172.25.0.3</li> </ul>	Protocol TCP	

I know the wizbang program is allowed through the firewall because the client receives a response from the server. Per the wireshark screenshot, packets are sent to and received by the server. The iptables rule allows traffic to port 10090 on the server, which is the port wizbang uses.

b) At the end, perform a nmap scan on the client for open ports on the server. Show the output in a screenshot.

```
Nmap done: 1 IP address (1 host up) scanned in 4.89 seconds
root@client:/home/ubuntu# nmap -p1-11000 server
Starting Nmap 7.80 ( https://nmap.org ) at 2022-10-23 03:05 UTC
Nmap scan report for server (172.25.0.3)
Host is up (0.000062s latency).
Not shown: 10997 filtered ports
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
10090/tcp open unknown
Nmap done: 1 IP address (1 host up) scanned in 26.54 seconds
root@client:/home/ubuntu#
```