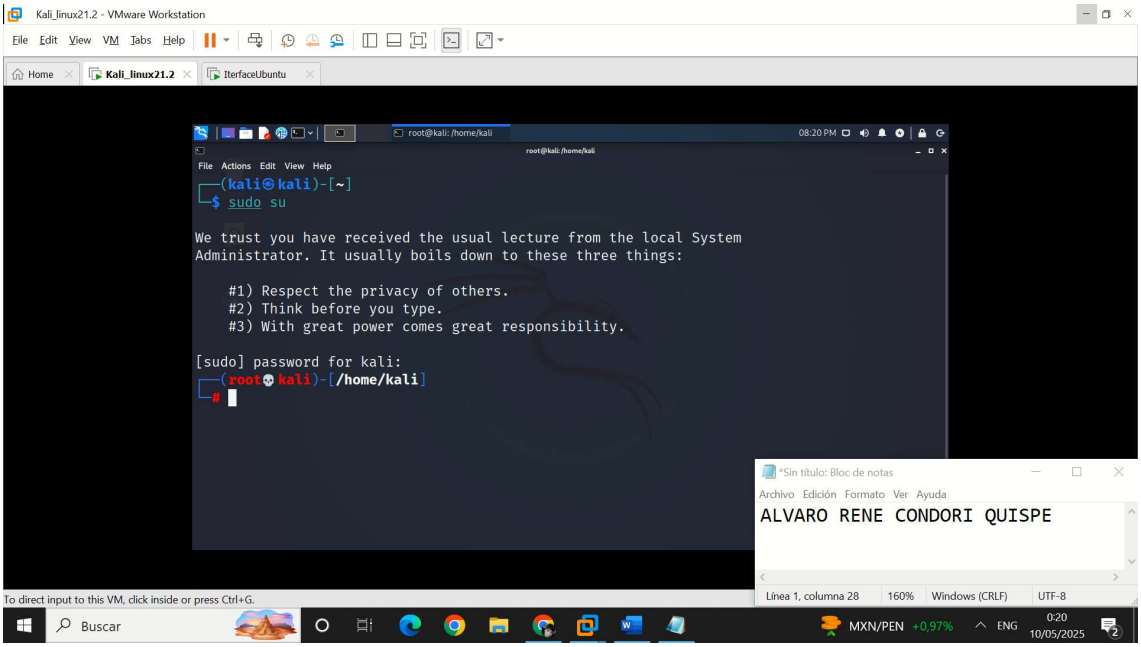
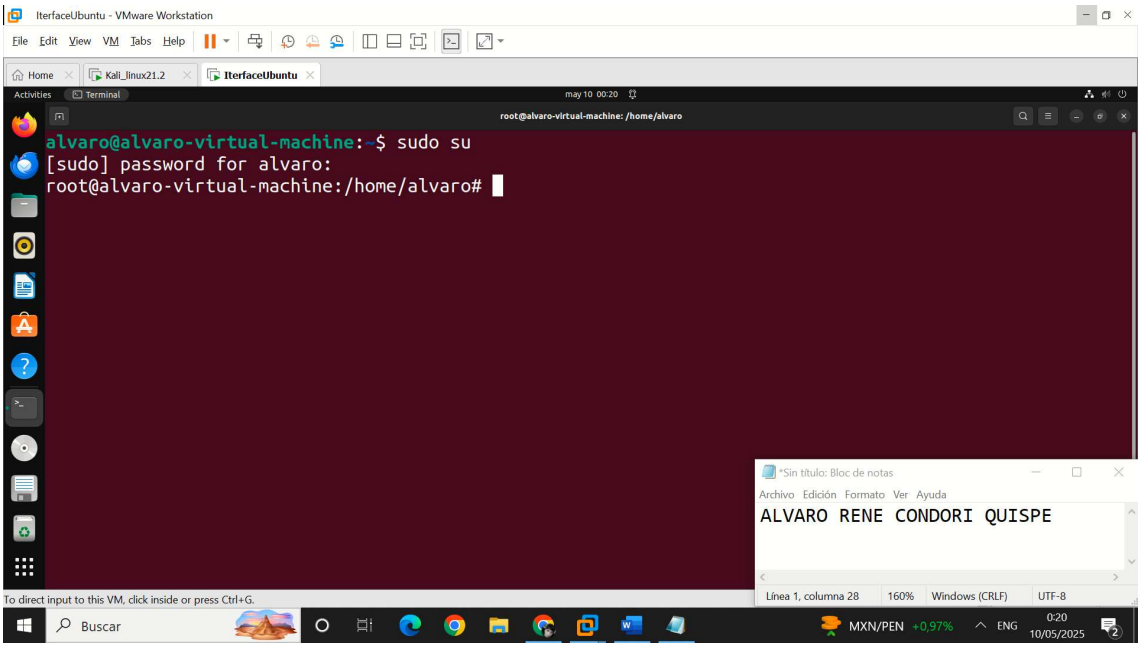
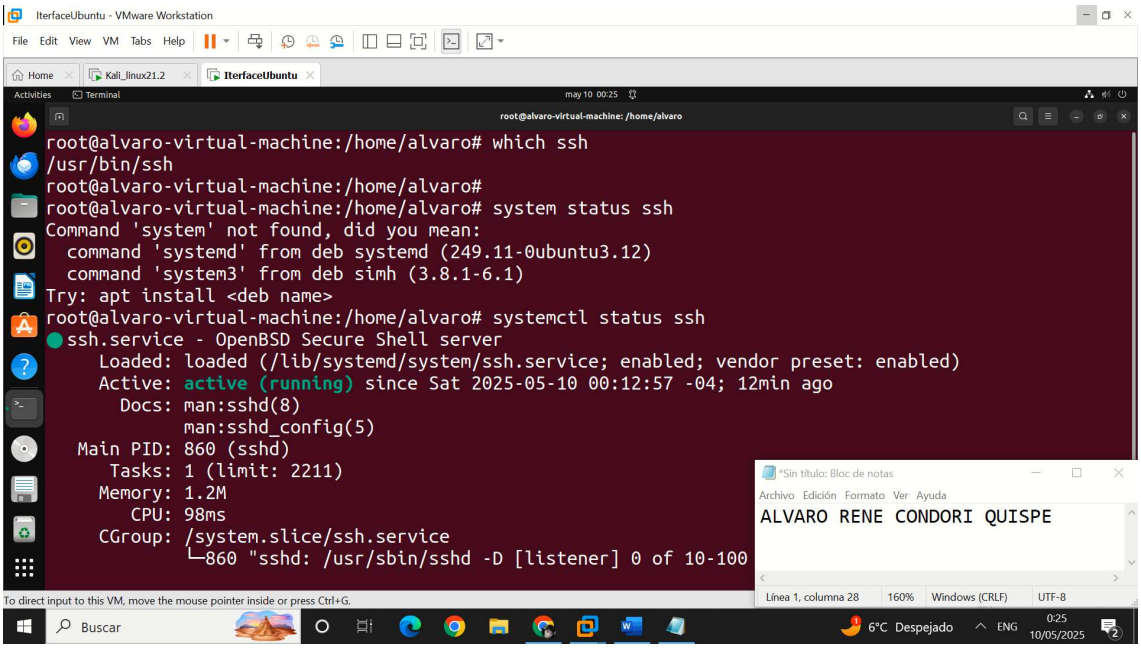
UNIVERSIDAD AUTÓNOMA “TOMAS FRÍAS” INGENIERÍA DE SISTEMAS	
NOMBRE: Univ. Alvaro Rene Condori Quispe	MATERIA: SEGURIDAD DE SISTEMAS
DOCENTE: Ing. Javier Alexander Duran Miranda	SIGLA: SIS-737
LABORATORIO 9	

1



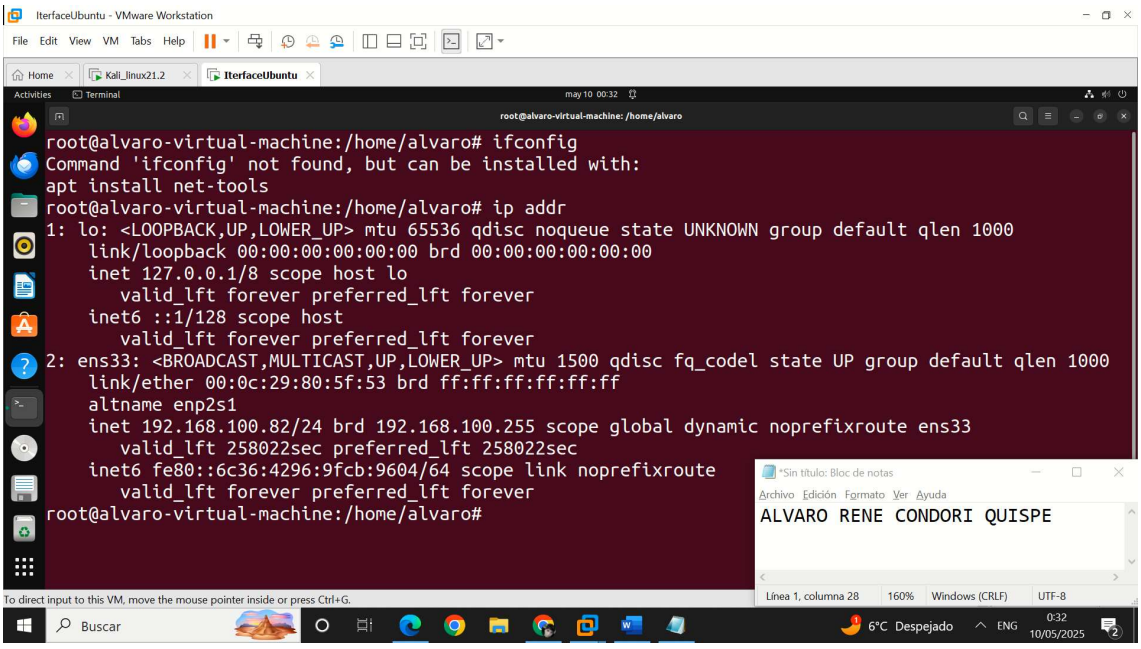


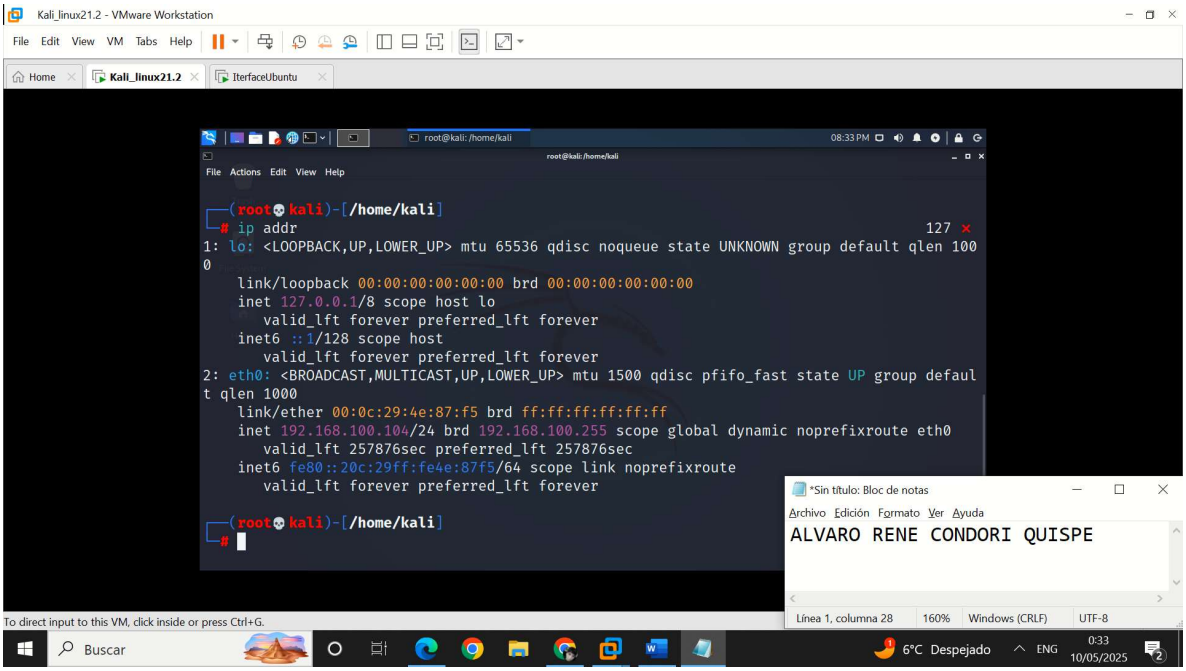
2

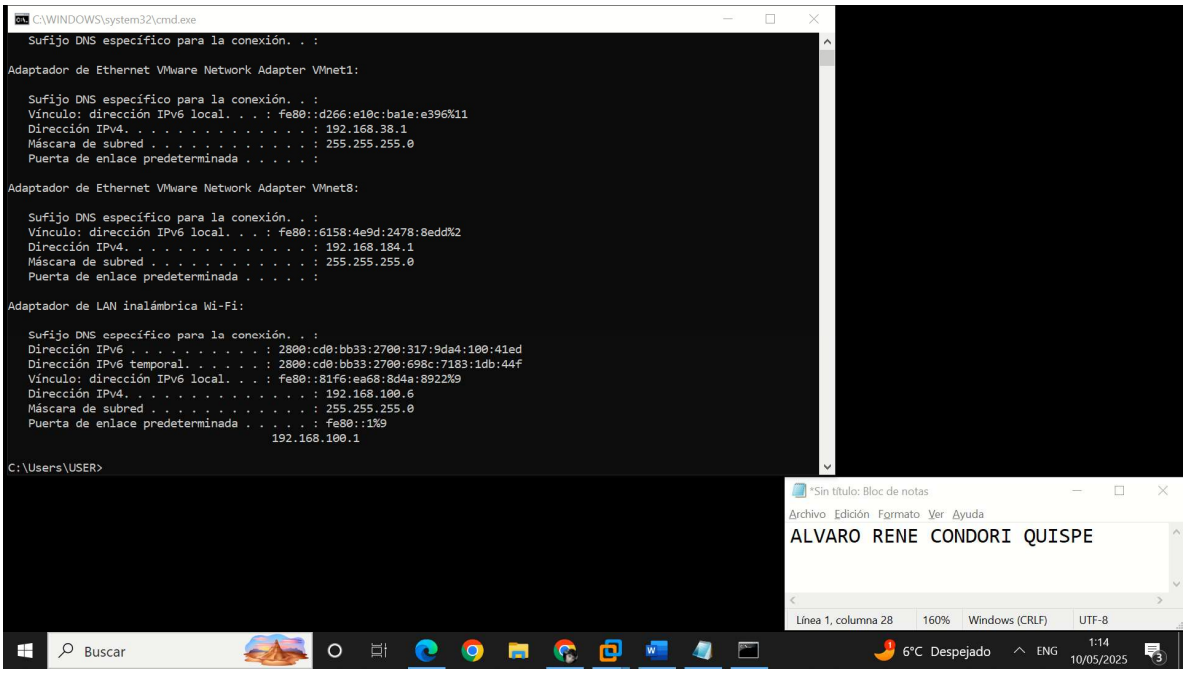


3 se entendió

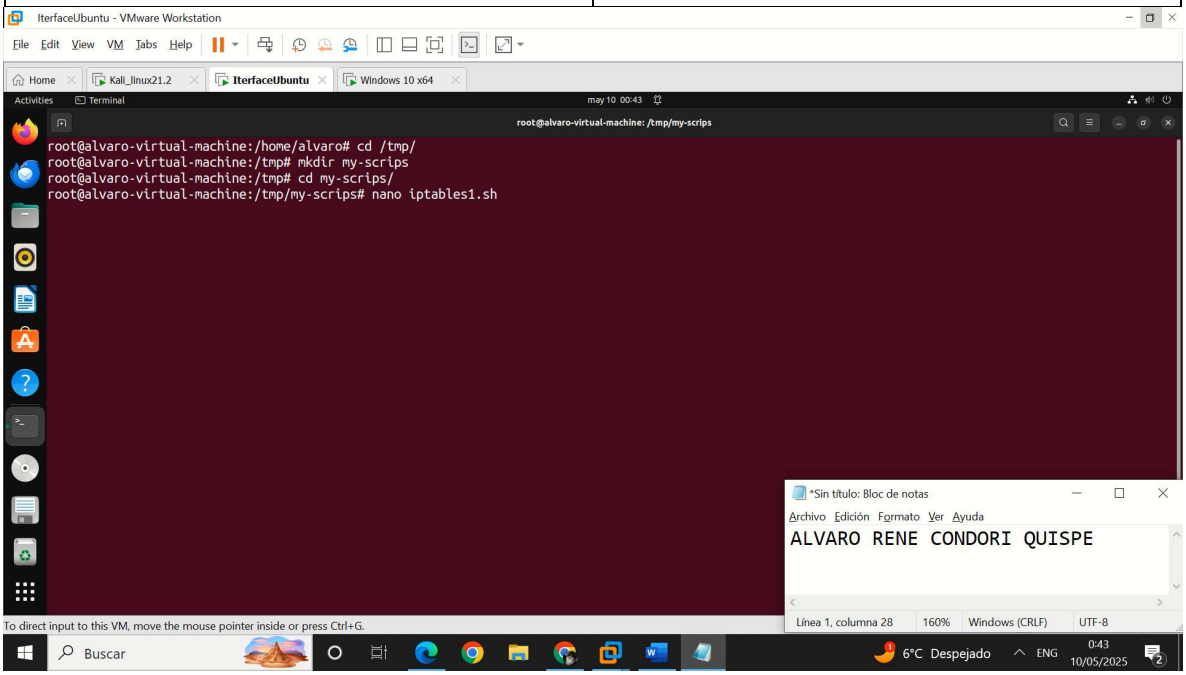
4

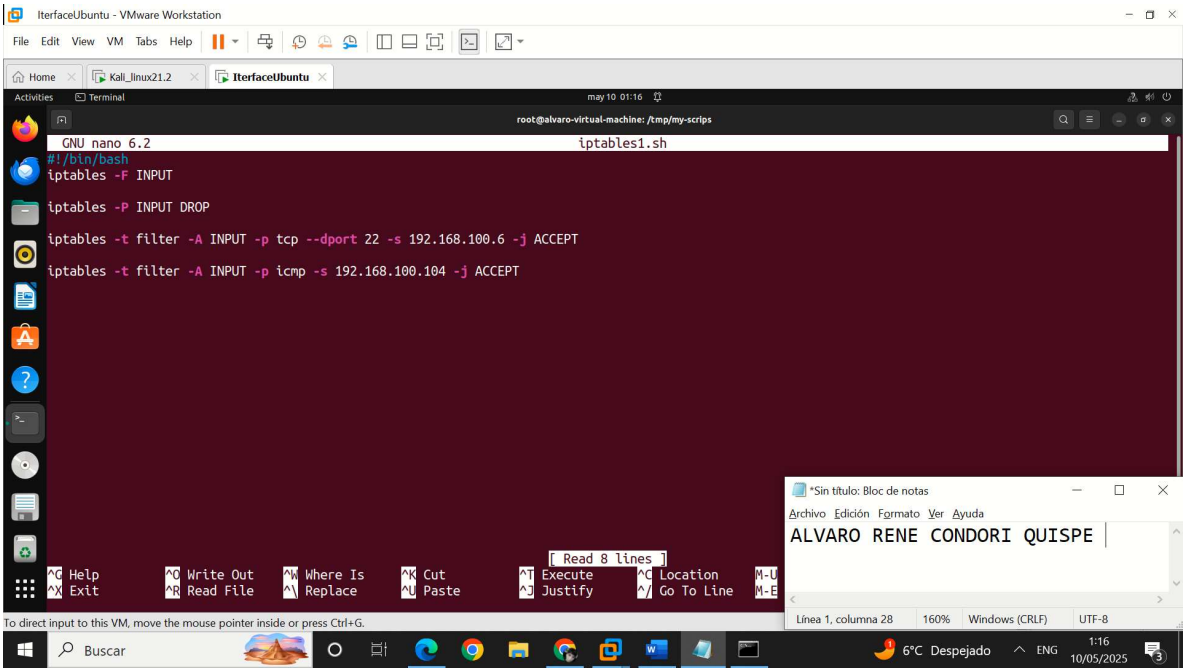


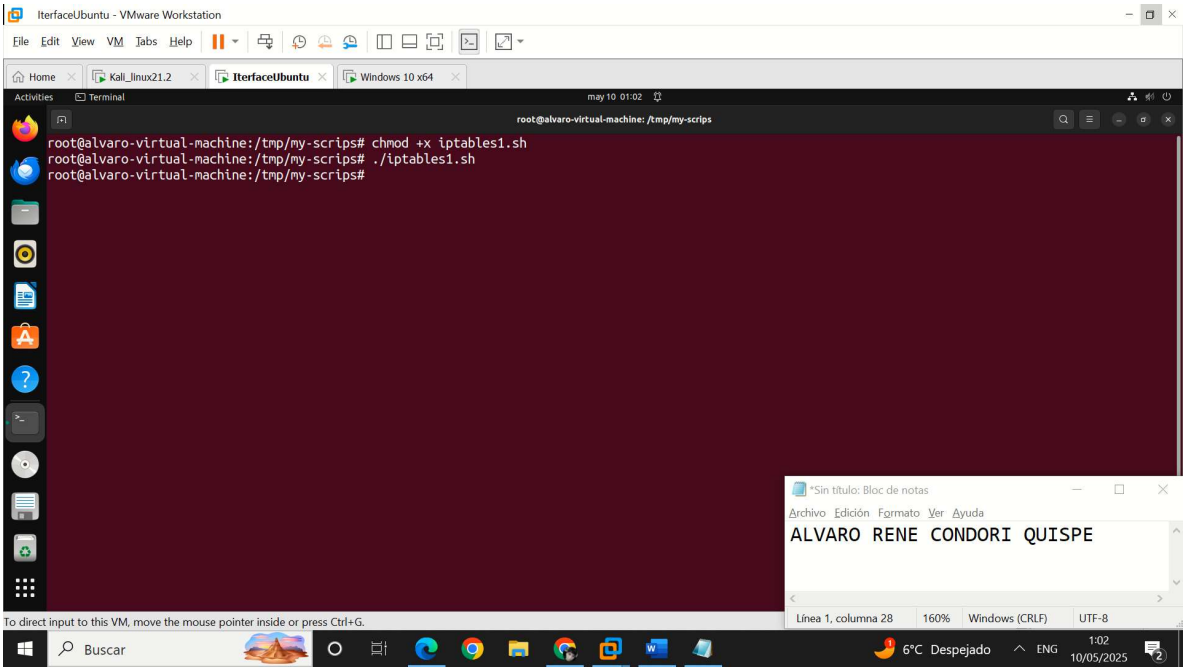

Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
root@kali: /home/kali
08:33 PM
File Actions Edit View Help
(root kali)-[/home/kali]
ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
inet 127.0.0.1/8 scope host lo
valid_lft forever preferred_lft forever
inet6 ::1/128 scope host
valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
link/ether 00:0c:29:4e:87:f5 brd ff:ff:ff:ff:ff:ff
inet 192.168.100.104/24 brd 192.168.100.255 scope global dynamic noprefixroute eth0
valid_lft 257876sec preferred_lft 257876sec
inet6 fe80::20c:29ff:fe4e:87f5/64 scope link noprefixroute
valid_lft forever preferred_lft forever
(root kali)-[/home/kali]
#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
0:33
10/05/2025

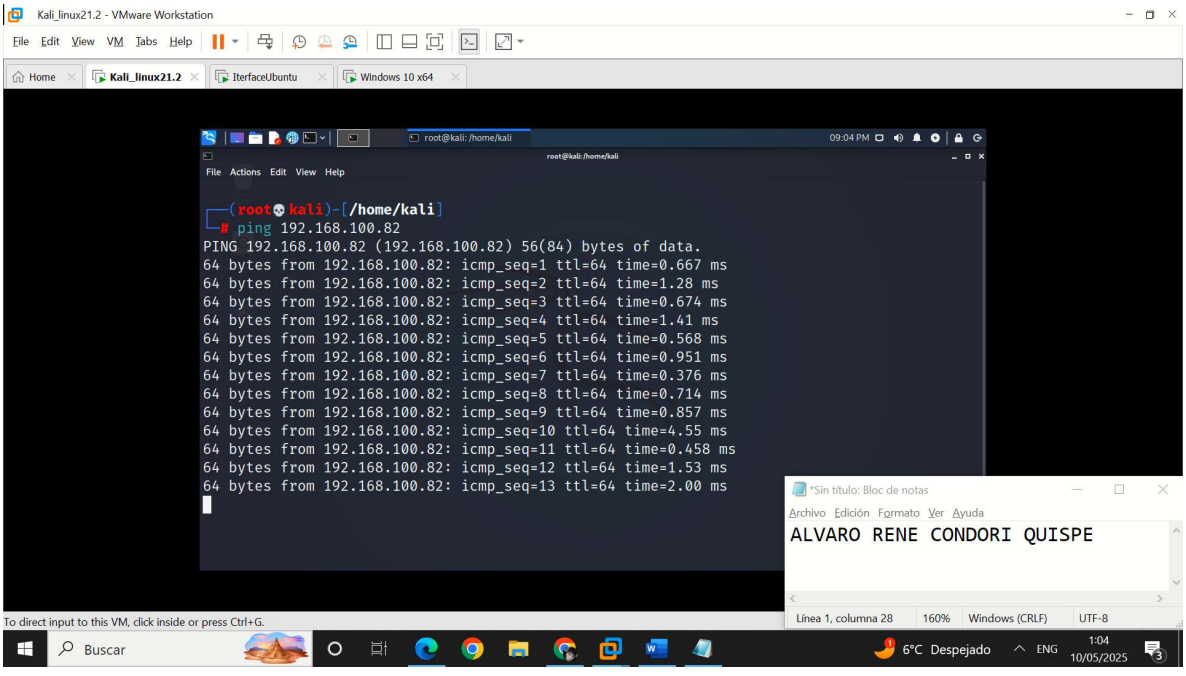

C:\WINDOWS\system32\cmd.exe
Sufijo DNS específico para la conexión. . :
Adaptador de Ethernet VMware Network Adapter VMnet1:
Sufijo DNS específico para la conexión. . :
Vínculo: dirección IPv6 local. . . : fe80::d266:e10c:ba1e:e396%11
Dirección IPv4. . . . . : 192.168.38.1
Máscara de subred . . . . . : 255.255.255.0
Puerta de enlace predeterminada . . . . . :
Adaptador de Ethernet VMware Network Adapter VMnet8:
Sufijo DNS específico para la conexión. . :
Vínculo: dirección IPv6 local. . . : fe80::6158:4e9d:2478:8edd%2
Dirección IPv4. . . . . : 192.168.184.1
Máscara de subred . . . . . : 255.255.255.0
Puerta de enlace predeterminada . . . . . :
Adaptador de LAN inalámbrica Wi-Fi:
Sufijo DNS específico para la conexión. . :
Dirección IPv6 . . . . . : 2800:cd0:bb33:2700:317:9da4:100:41ed
Dirección IPv6 temporal. . . . . : 2800:cd0:bb33:2700:698c:7183:1db:44f
Vínculo: dirección IPv6 local. . . : fe80::81f6:ea68:8d4a:8922%9
Dirección IPv4. . . . . : 192.168.100.6
Máscara de subred . . . . . : 255.255.255.0
Puerta de enlace predeterminada . . . . . : fe80::1%9
192.168.100.1
C:\Users\USER>
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
Buscar
6°C Despejado
ENG
1:14
10/05/2025

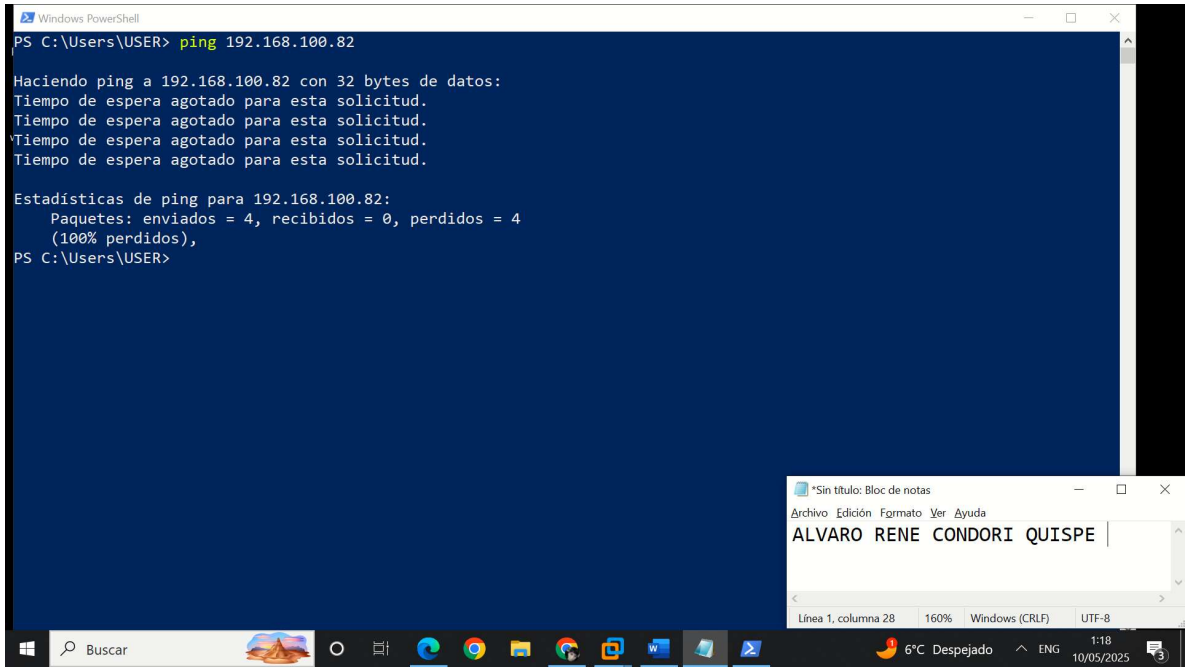
Maquina virtual o dispositivo	Dirección IP
Ubuntu	192.168.100.82
Kali Linux	192.168.100.104
Windows	192.168.100.6

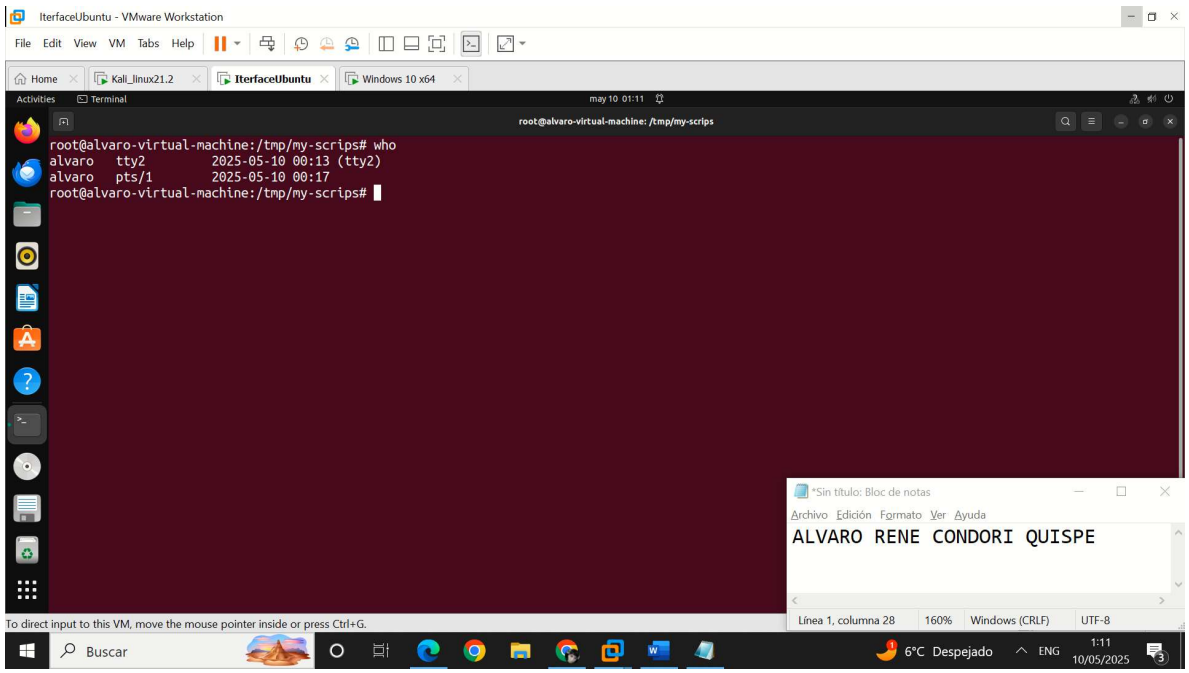


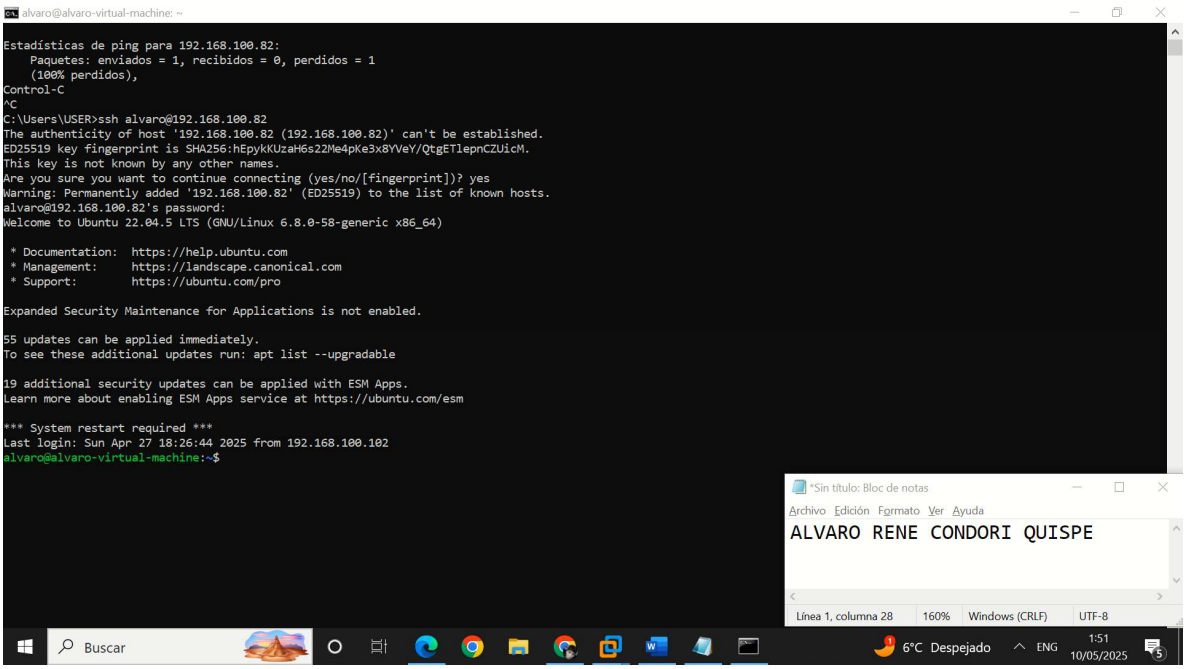


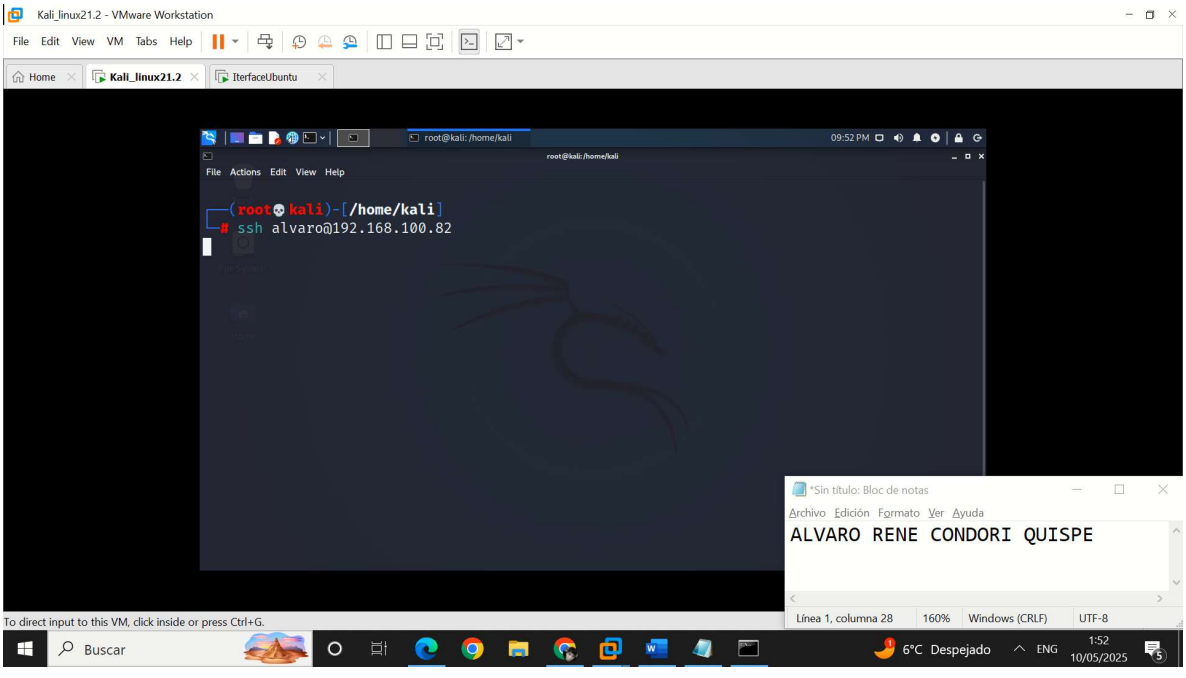

IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Windows 10 x64
Activities
Terminal
may 10 01:02
root@alvaro-virtual-machine: /tmp/my-scrips
root@alvaro-virtual-machine:/tmp/my-scrips# chmod +x iptables1.sh
root@alvaro-virtual-machine:/tmp/my-scrips# ./iptables1.sh
root@alvaro-virtual-machine:/tmp/my-scrips#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
1:02
10/05/2025

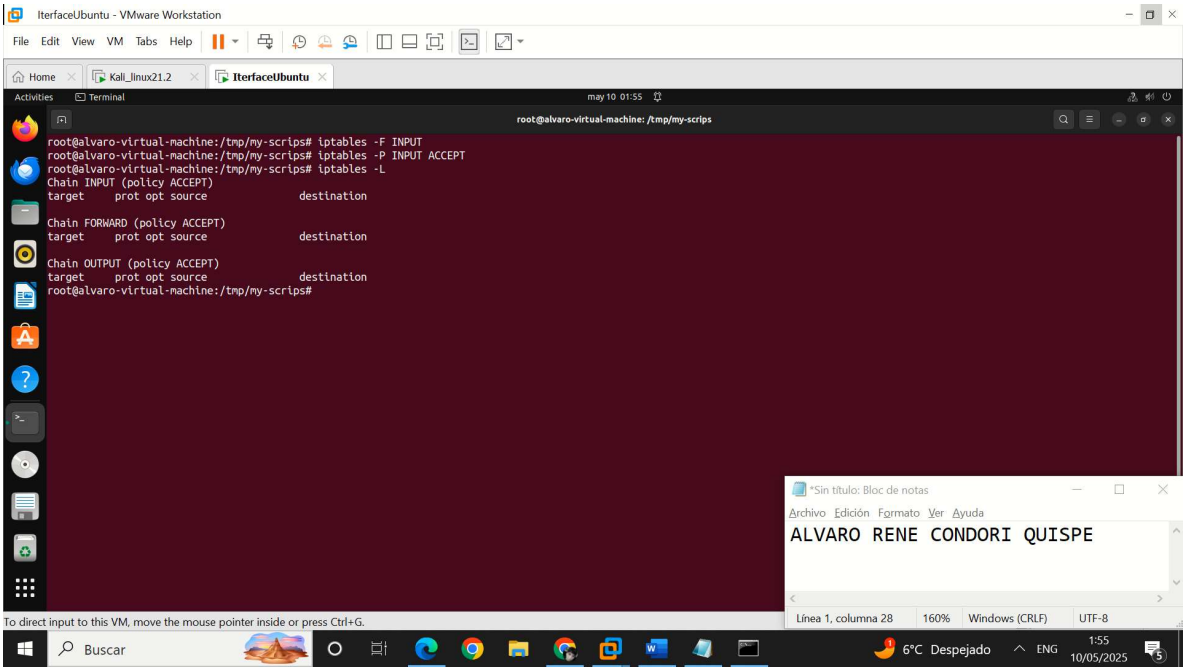

Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Windows 10 x64
root@kali: /home/kali
09:04 PM
File Actions Edit View Help
┌──(root㉿kali)-[/home/kali]
└─# ping 192.168.100.82
PING 192.168.100.82 (192.168.100.82) 56(84) bytes of data.
64 bytes from 192.168.100.82: icmp_seq=1 ttl=64 time=0.667 ms
64 bytes from 192.168.100.82: icmp_seq=2 ttl=64 time=1.28 ms
64 bytes from 192.168.100.82: icmp_seq=3 ttl=64 time=0.674 ms
64 bytes from 192.168.100.82: icmp_seq=4 ttl=64 time=1.41 ms
64 bytes from 192.168.100.82: icmp_seq=5 ttl=64 time=0.568 ms
64 bytes from 192.168.100.82: icmp_seq=6 ttl=64 time=0.951 ms
64 bytes from 192.168.100.82: icmp_seq=7 ttl=64 time=0.376 ms
64 bytes from 192.168.100.82: icmp_seq=8 ttl=64 time=0.714 ms
64 bytes from 192.168.100.82: icmp_seq=9 ttl=64 time=0.857 ms
64 bytes from 192.168.100.82: icmp_seq=10 ttl=64 time=4.55 ms
64 bytes from 192.168.100.82: icmp_seq=11 ttl=64 time=0.458 ms
64 bytes from 192.168.100.82: icmp_seq=12 ttl=64 time=1.53 ms
64 bytes from 192.168.100.82: icmp_seq=13 ttl=64 time=2.00 ms
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
1:04
10/05/2025


Windows PowerShell
PS C:\Users\USER> ping 192.168.100.82
Haciendo ping a 192.168.100.82 con 32 bytes de datos:
Tiempo de espera agotado para esta solicitud.
Tiempo de espera agotado para esta solicitud.
Tiempo de espera agotado para esta solicitud.
Tiempo de espera agotado para esta solicitud.
Estadísticas de ping para 192.168.100.82:
Paquetes: enviados = 4, recibidos = 0, perdidos = 4
(100% perdidos),
PS C:\Users\USER>
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
Buscar
6°C Despejado
ENG
1:18
10/05/2025

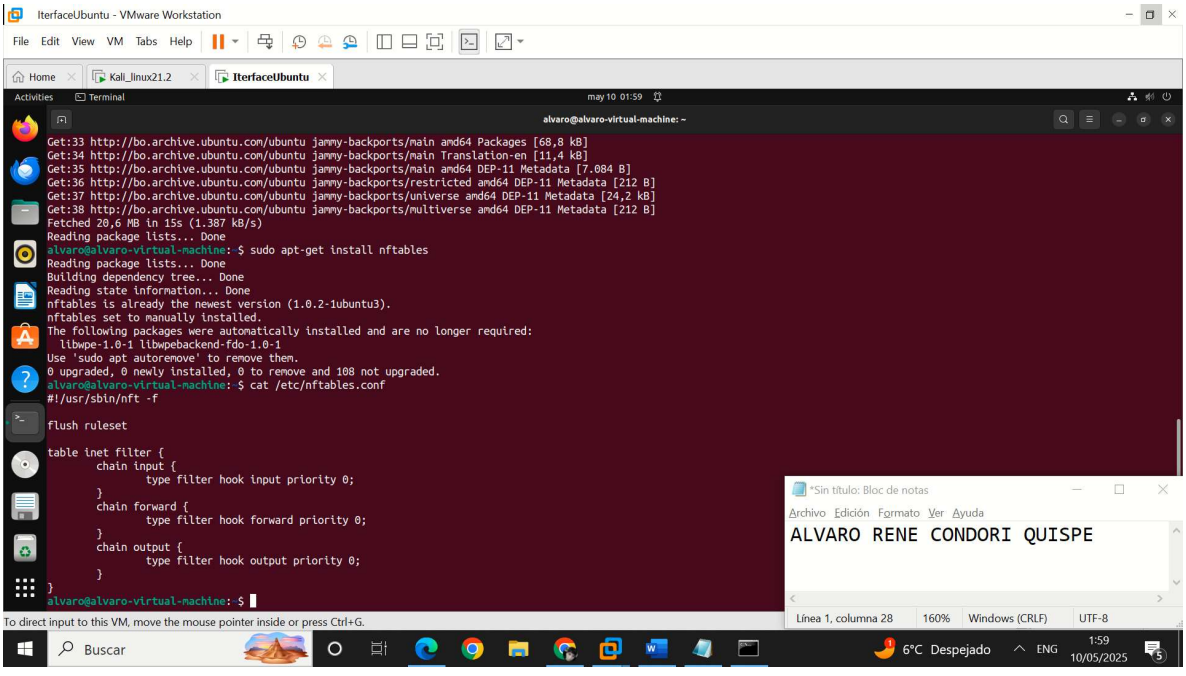

IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Windows 10 x64
Activities
Terminal
may 10 01:11
root@alvaro-virtual-machine: /tmp/my-scrips
root@alvaro-virtual-machine:/tmp/my-scrips# who
alvaro tty2 2025-05-10 00:13 (tty2)
alvaro pts/1 2025-05-10 00:17
root@alvaro-virtual-machine:/tmp/my-scrips#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
1:11
10/05/2025

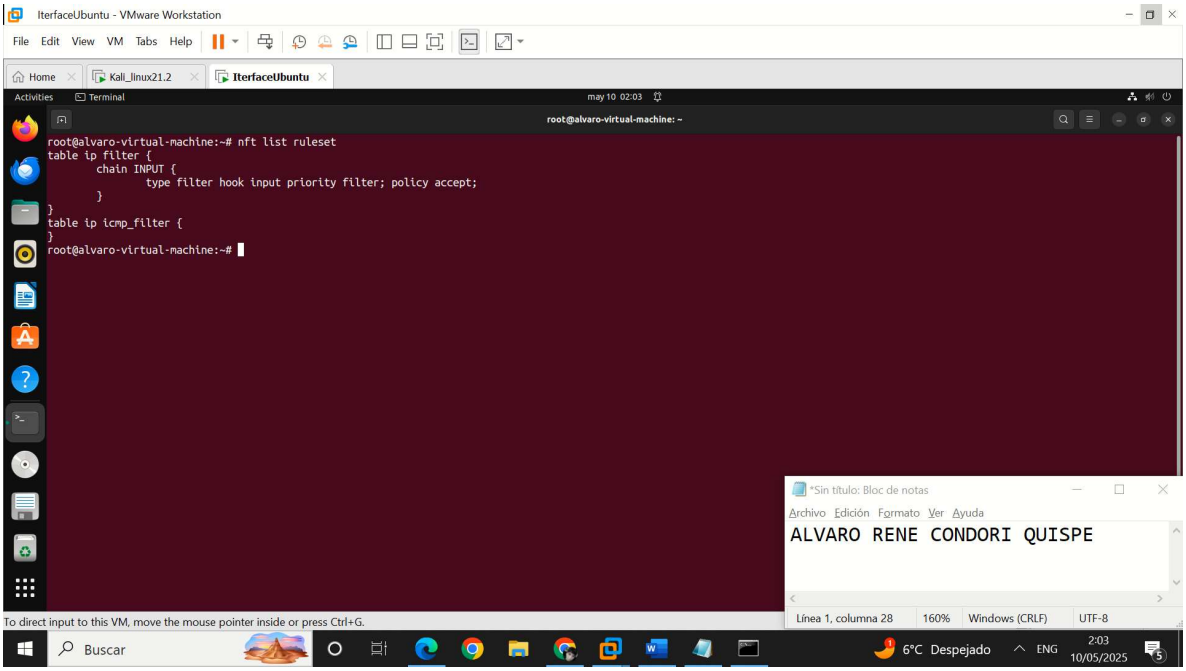

alvaro@alvaro-virtual-machine: ~
Estadísticas de ping para 192.168.100.82:
Paquetes: enviados = 1, recibidos = 0, perdidos = 1
(100% perdidos),
Control-C
^C
C:\Users\USER>ssh alvaro@192.168.100.82
The authenticity of host '192.168.100.82 (192.168.100.82)' can't be established.
ED25519 key fingerprint is SHA256:hEpykKUzaH6s22Me4pKe3x8YVeY/QtgETlepnCZUicM.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.100.82' (ED25519) to the list of known hosts.
alvaro@192.168.100.82's password:
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 6.8.0-58-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
Expanded Security Maintenance for Applications is not enabled.
55 updates can be applied immediately.
To see these additional updates run: apt list --upgradable
19 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm
*** System restart required ***
Last login: Sun Apr 27 18:26:44 2025 from 192.168.100.102
alvaro@alvaro-virtual-machine:~$
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28 160% Windows (CRLF) UTF-8
Buscar
6°C Despejado
ENG
1:51
10/05/2025

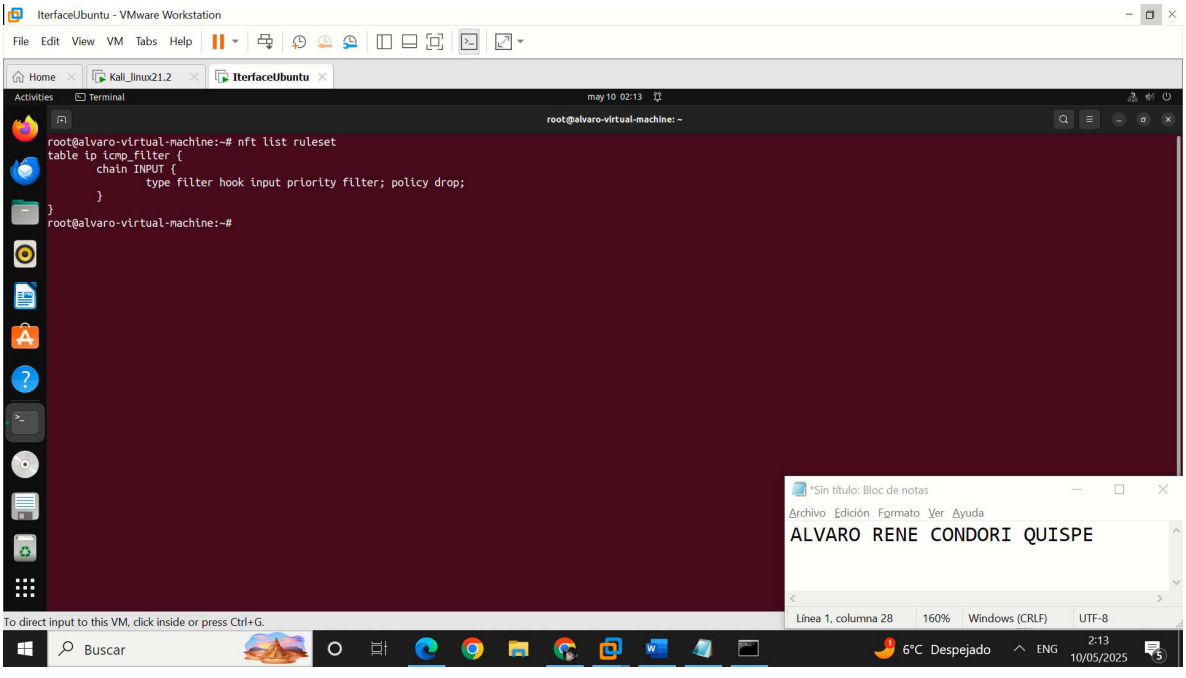

Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
root@kali: /home/kali
09:52 PM
File Actions Edit View Help
(root kali)-[/home/kali]
ssh alvaro@192.168.100.82
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28 160% Windows (CRLF) UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
1:52
10/05/2025

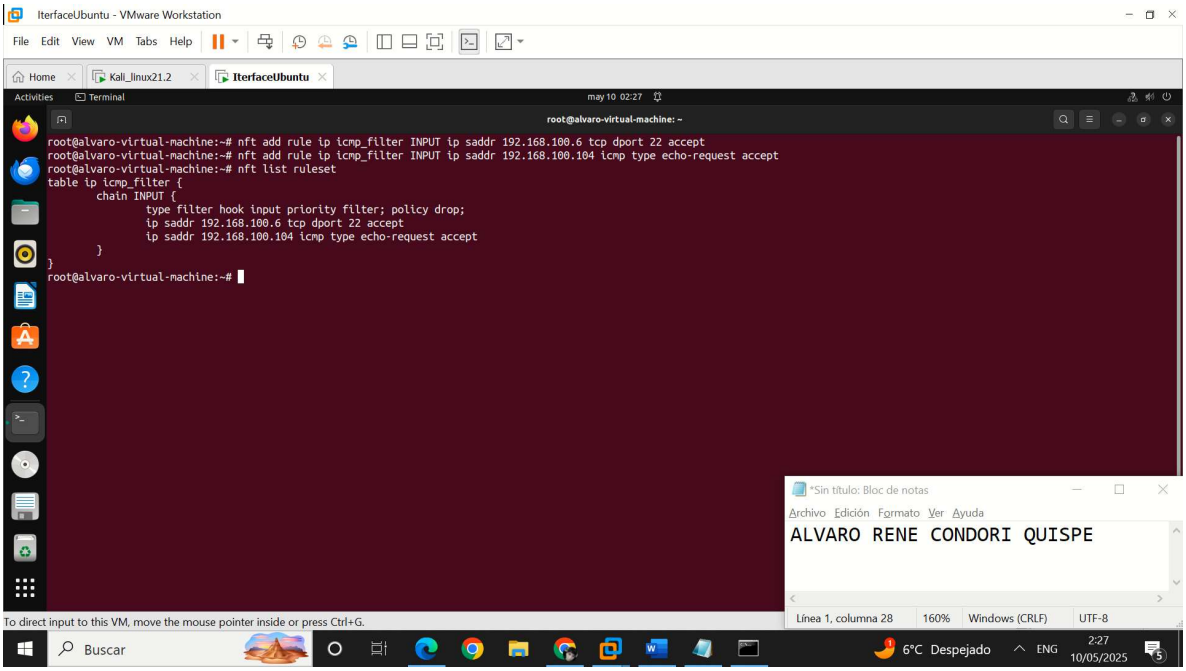

IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Activities
Terminal
may 10 01:55
root@alvaro-virtual-machine: /tmp/my-scrips
root@alvaro-virtual-machine:/tmp/my-scrips# iptables -F INPUT
root@alvaro-virtual-machine:/tmp/my-scrips# iptables -P INPUT ACCEPT
root@alvaro-virtual-machine:/tmp/my-scrips# iptables -L
Chain INPUT (policy ACCEPT)
target prot opt source destination
Chain FORWARD (policy ACCEPT)
target prot opt source destination
Chain OUTPUT (policy ACCEPT)
target prot opt source destination
root@alvaro-virtual-machine:/tmp/my-scrips#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
1:55
10/05/2025

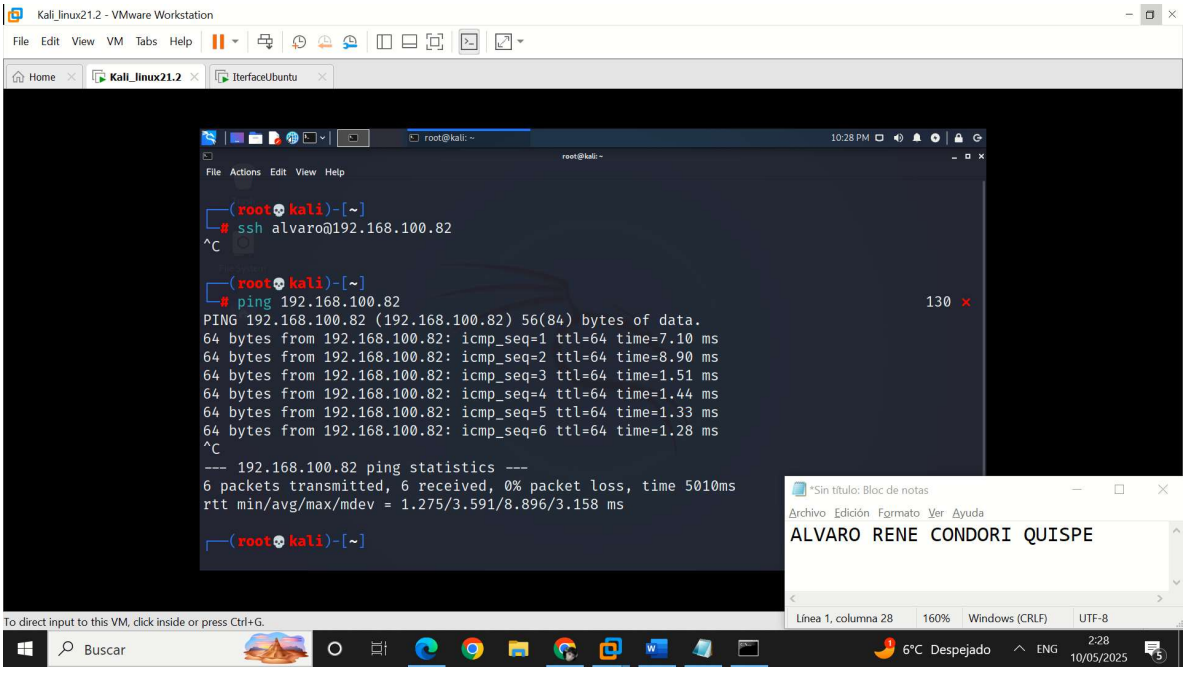
NFTABLES

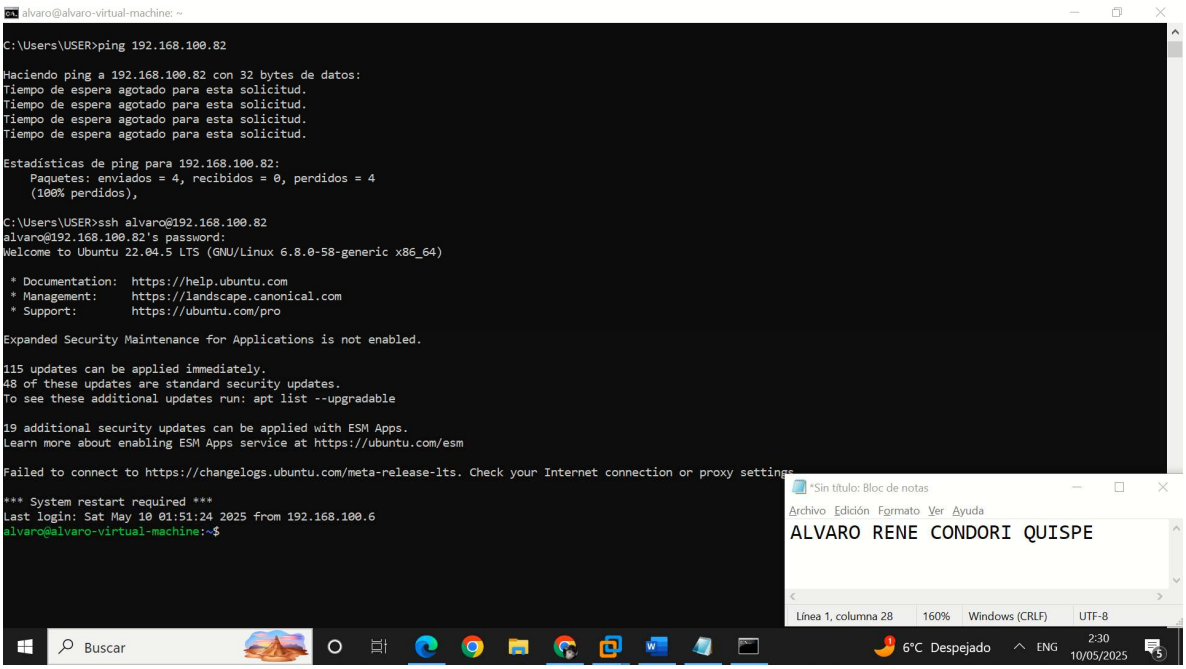

IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Activities
Terminal
may 10 01:59
alvaro@alvaro-virtual-machine: ~
Get:33 http://bo.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [68,8 kB]
Get:34 http://bo.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11,4 kB]
Get:35 http://bo.archive.ubuntu.com/ubuntu jammy-backports/main amd64 DEP-11 Metadata [7.084 B]
Get:36 http://bo.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 DEP-11 Metadata [212 B]
Get:37 http://bo.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 DEP-11 Metadata [24,2 kB]
Get:38 http://bo.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 DEP-11 Metadata [212 B]
Fetched 20,6 MB in 15s (1.387 kB/s)
Reading package lists... Done
alvaro@alvaro-virtual-machine: $ sudo apt-get install nftables
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
nftables is already the newest version (1.0.2-1ubuntu3).
nftables set to manually installed.
The following packages were automatically installed and are no longer required:
libwpe-1.0-1 libwpebackend-fdo-1.0-1
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 108 not upgraded.
alvaro@alvaro-virtual-machine: $ cat /etc/nftables.conf
#!/usr/sbin/nft -f
flush ruleset
table inet filter {
chain input {
type filter hook input priority 0;
}
chain forward {
type filter hook forward priority 0;
}
chain output {
type filter hook output priority 0;
}
}
alvaro@alvaro-virtual-machine: $
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
1:59
10/05/2025

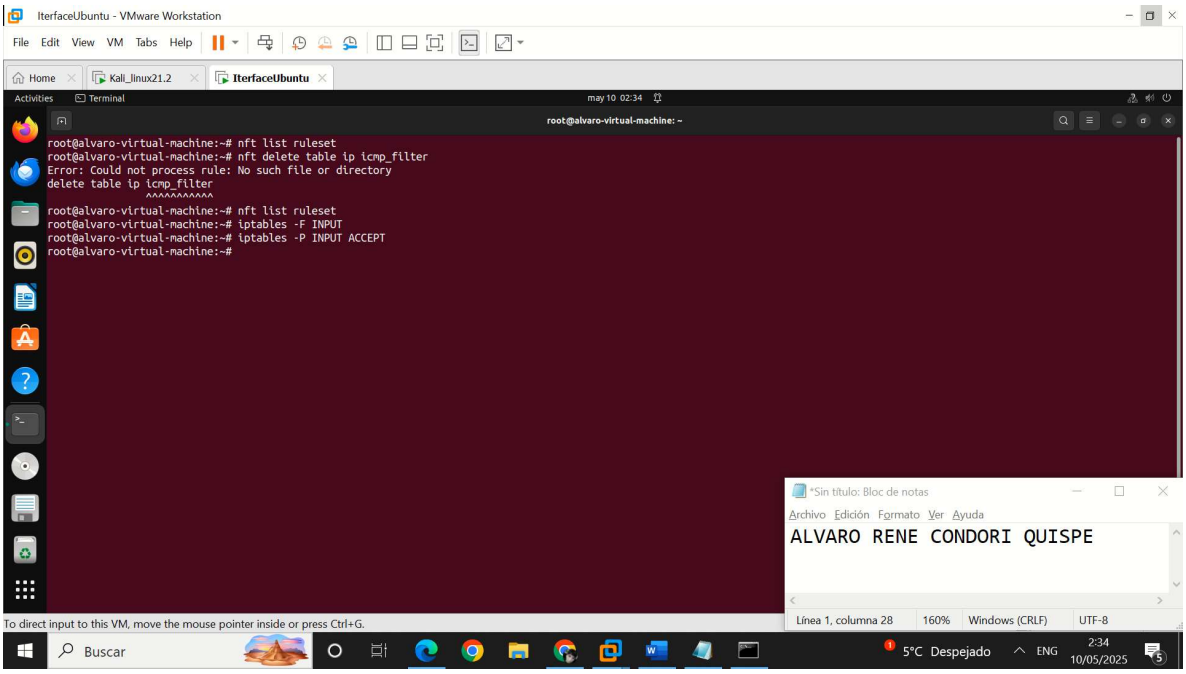

IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Activities
Terminal
may 10 02:03
root@alvaro-virtual-machine: ~
root@alvaro-virtual-machine:~# nft list ruleset
table ip filter {
chain INPUT {
type filter hook input priority filter; policy accept;
}
}
table ip icmp_filter {
}
root@alvaro-virtual-machine:~#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
2:03
10/05/2025


IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Activities
Terminal
may 10 02:13
root@alvaro-virtual-machine: ~
root@alvaro-virtual-machine:~# nft list ruleset
table ip icmp_filter {
chain INPUT {
type filter hook input priority filter; policy drop;
}
}
root@alvaro-virtual-machine:~#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
2:13
10/05/2025

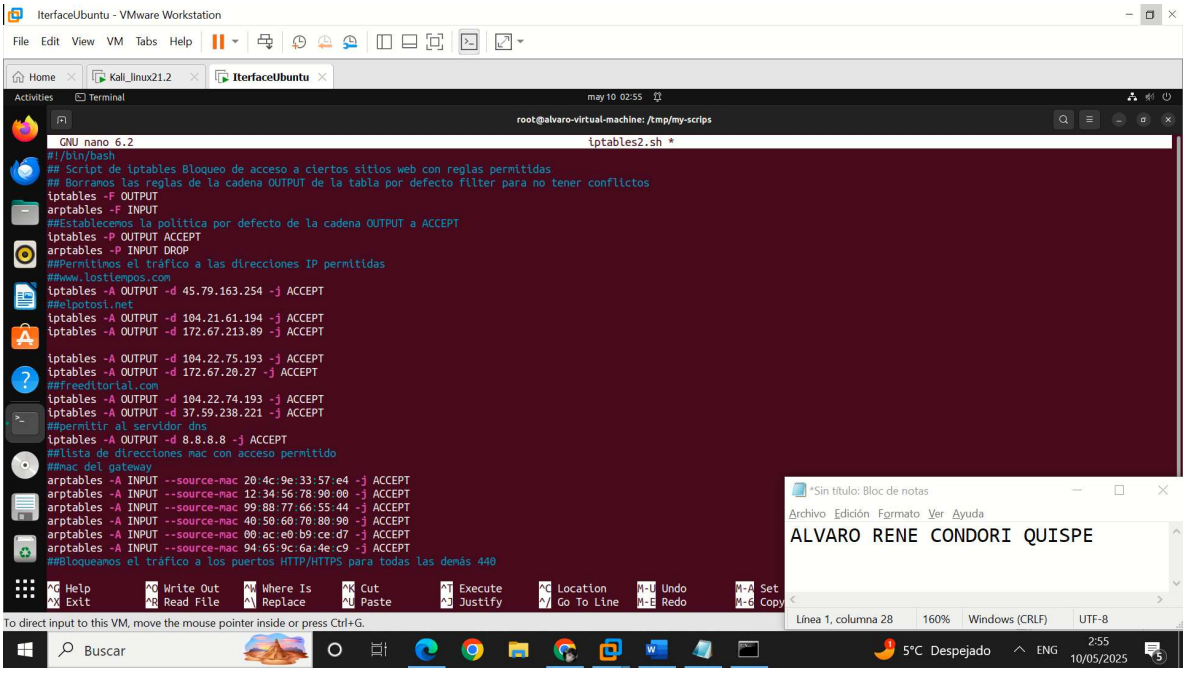

IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Activities
Terminal
may 10 02:27
root@alvaro-virtual-machine: ~
root@alvaro-virtual-machine:~# nft add rule ip icmp_filter INPUT ip saddr 192.168.100.6 tcp dport 22 accept
root@alvaro-virtual-machine:~# nft add rule ip icmp_filter INPUT ip saddr 192.168.100.104 icmp type echo-request accept
root@alvaro-virtual-machine:~# nft list ruleset
table ip icmp_filter {
chain INPUT {
type filter hook input priority filter; policy drop;
ip saddr 192.168.100.6 tcp dport 22 accept
ip saddr 192.168.100.104 icmp type echo-request accept
}
}
root@alvaro-virtual-machine:~#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
2:27
10/05/2025

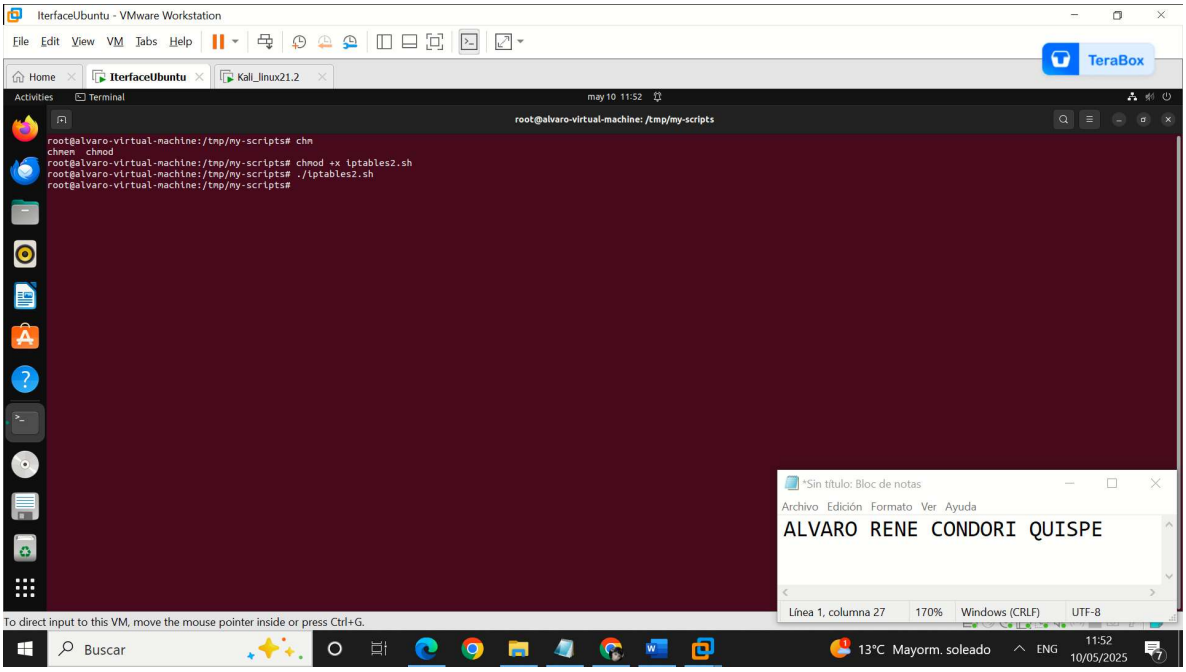

Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
root@kali: ~
10:28 PM
File Actions Edit View Help
┌──(root㉿kali)-[~]
└─# ssh alvaro@192.168.100.82
^C
┌──(root㉿kali)-[~]
└─# ping 192.168.100.82
130
PING 192.168.100.82 (192.168.100.82) 56(84) bytes of data.
64 bytes from 192.168.100.82: icmp_seq=1 ttl=64 time=7.10 ms
64 bytes from 192.168.100.82: icmp_seq=2 ttl=64 time=8.90 ms
64 bytes from 192.168.100.82: icmp_seq=3 ttl=64 time=1.51 ms
64 bytes from 192.168.100.82: icmp_seq=4 ttl=64 time=1.44 ms
64 bytes from 192.168.100.82: icmp_seq=5 ttl=64 time=1.33 ms
64 bytes from 192.168.100.82: icmp_seq=6 ttl=64 time=1.28 ms
^C
--- 192.168.100.82 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5010ms
rtt min/avg/max/mdev = 1.275/3.591/8.896/3.158 ms
┌──(root㉿kali)-[~]
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28
160%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
6°C Despejado
ENG
2:28
10/05/2025

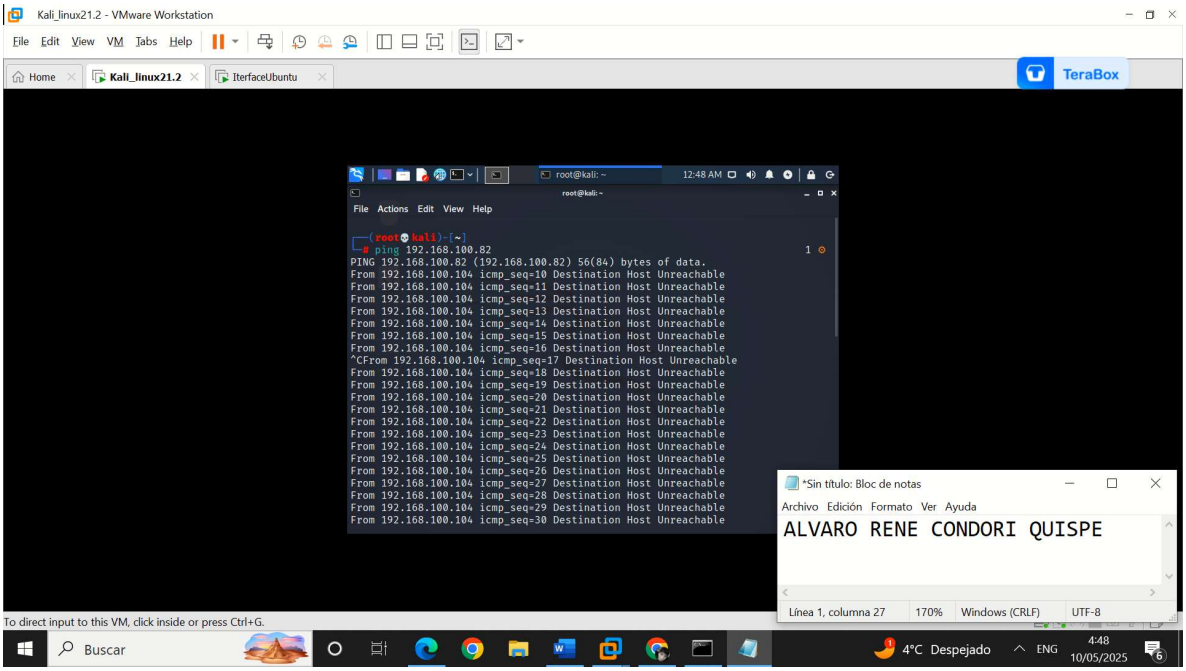

alvaro@alvaro-virtual-machine: ~
C:\Users\USER>ping 192.168.100.82
Haciendo ping a 192.168.100.82 con 32 bytes de datos:
Tiempo de espera agotado para esta solicitud.
Tiempo de espera agotado para esta solicitud.
Tiempo de espera agotado para esta solicitud.
Tiempo de espera agotado para esta solicitud.
Estadísticas de ping para 192.168.100.82:
Paquetes: enviados = 4, recibidos = 0, perdidos = 4
(100% perdidos),
C:\Users\USER>ssh alvaro@192.168.100.82
alvaro@192.168.100.82's password:
Welcome to Ubuntu 22.04.5 LTS (GNU/Linux 6.8.0-58-generic x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/pro
Expanded Security Maintenance for Applications is not enabled.
115 updates can be applied immediately.
48 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
19 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings
*** System restart required ***
Last login: Sat May 10 01:51:24 2025 from 192.168.100.6
alvaro@alvaro-virtual-machine:~$
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28 160% Windows (CRLF) UTF-8
Buscar
6°C Despejado
ENG
2:30
10/05/2025

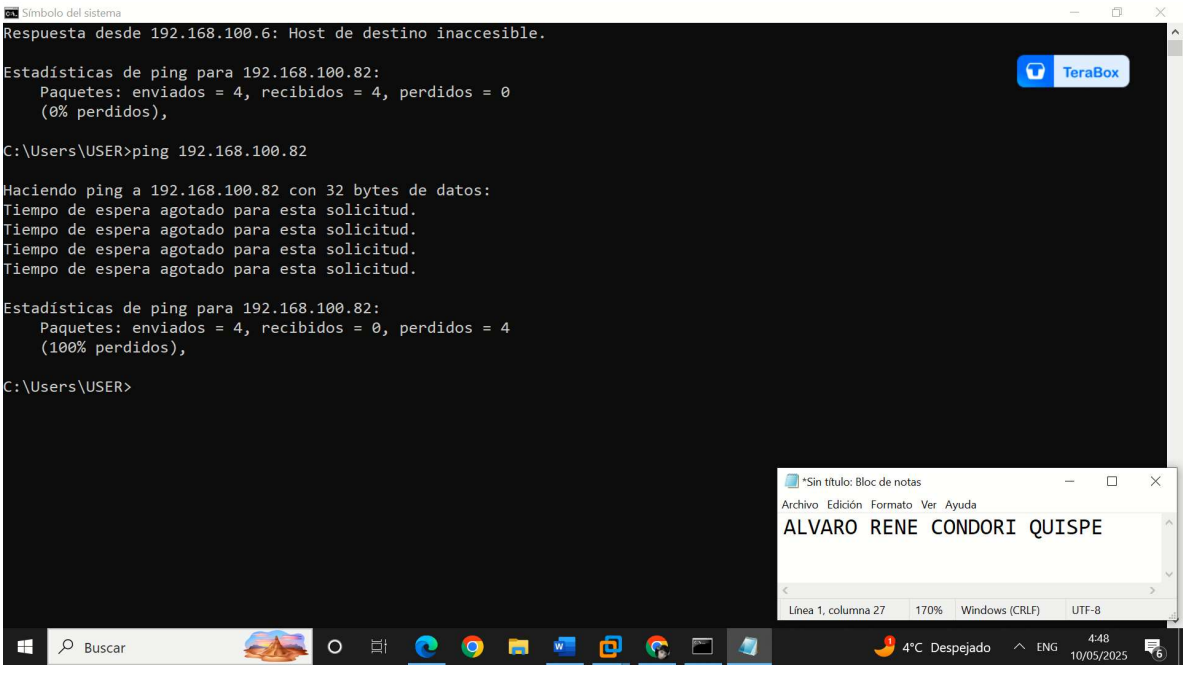

IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Activities
Terminal
may 10 02:34
root@alvaro-virtual-machine: ~
root@alvaro-virtual-machine:~# nft list ruleset
root@alvaro-virtual-machine:~# nft delete table ip icmp_filter
Error: Could not process rule: No such file or directory
delete table ip icmp_filter
^^^^^^^^^^
root@alvaro-virtual-machine:~# nft list ruleset
root@alvaro-virtual-machine:~# iptables -F INPUT
root@alvaro-virtual-machine:~# iptables -P INPUT ACCEPT
root@alvaro-virtual-machine:~#
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28 160% Windows (CRLF) UTF-8
Buscar
5°C Despejado
ENG
2:34
10/05/2025

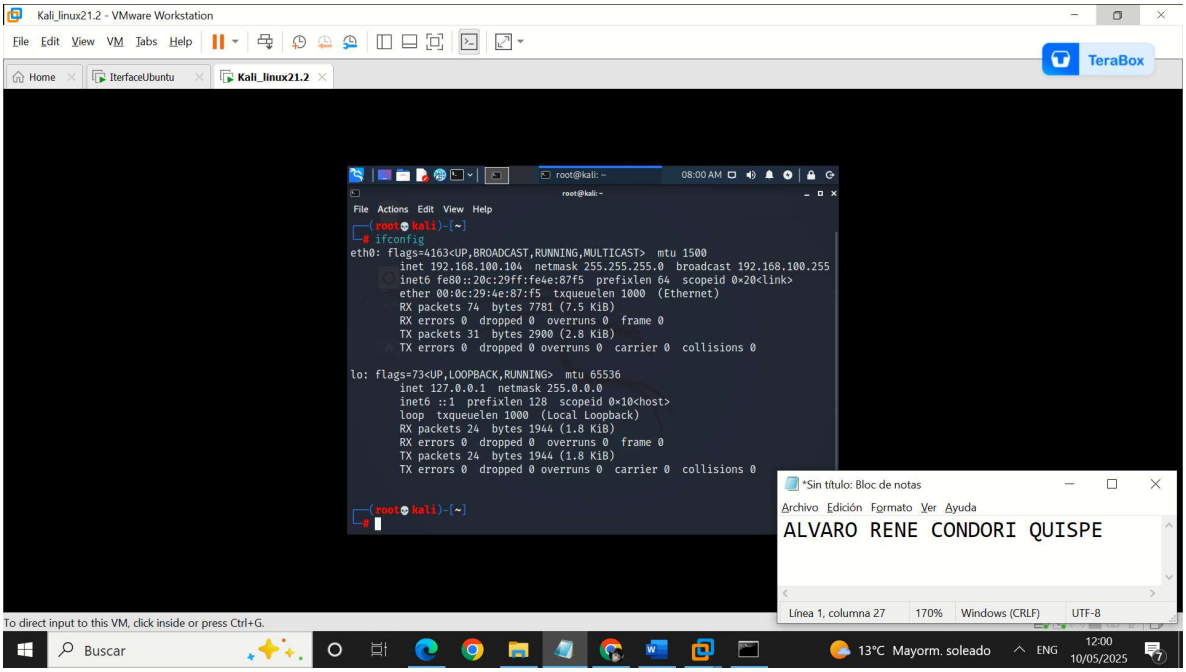
Parte 2

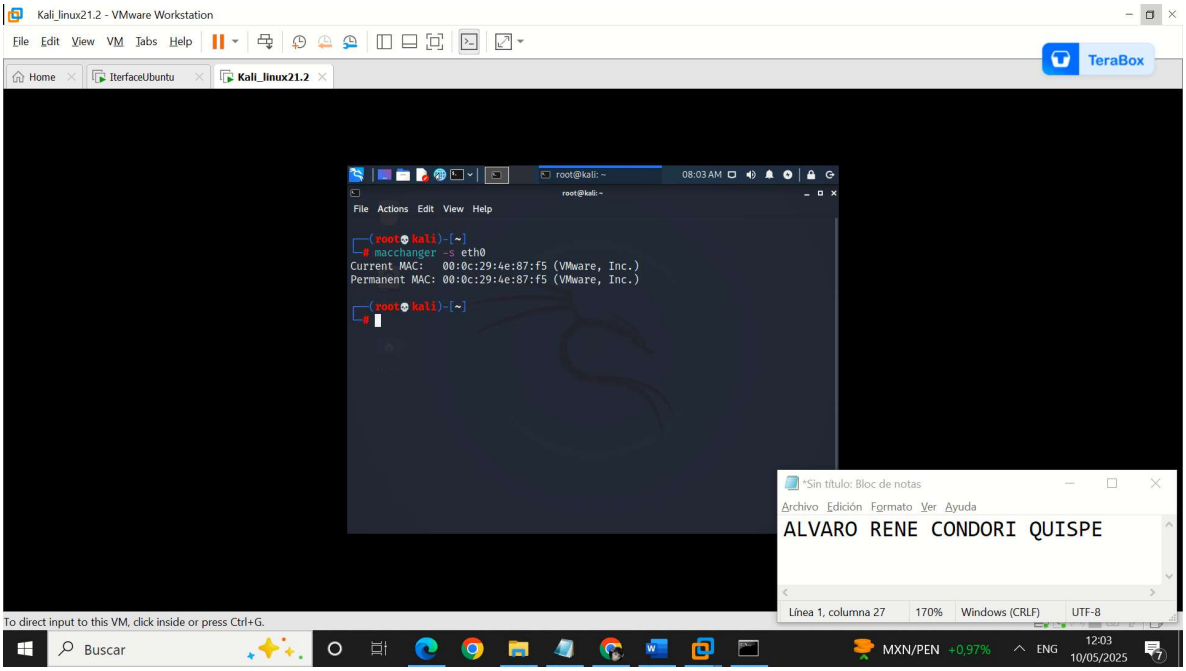

IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
Activities
Terminal
may 10 02:55
root@alvaro-virtual-machine: /tmp/my-scrips
GNU nano 6.2
iptables2.sh *
#!/bin/bash
Script de iptables Bloqueo de acceso a ciertos sitios web con reglas permitidas
Borramos las reglas de la cadena OUTPUT de la tabla por defecto filter para no tener conflictos
iptables -F OUTPUT
arptables -F INPUT
##Establecemos la politica por defecto de la cadena OUTPUT a ACCEPT
iptables -P OUTPUT ACCEPT
arptables -P INPUT DROP
##Permitimos el tráfico a las direcciones IP permitidas
##www.lostiempos.com
iptables -A OUTPUT -d 45.79.163.254 -j ACCEPT
##elpotosi.net
iptables -A OUTPUT -d 104.21.61.194 -j ACCEPT
iptables -A OUTPUT -d 172.67.213.89 -j ACCEPT
iptables -A OUTPUT -d 104.22.75.193 -j ACCEPT
iptables -A OUTPUT -d 172.67.20.27 -j ACCEPT
##freedltorial.com
iptables -A OUTPUT -d 104.22.74.193 -j ACCEPT
iptables -A OUTPUT -d 37.59.238.221 -j ACCEPT
##permitir al servidor dns
iptables -A OUTPUT -d 8.8.8.8 -j ACCEPT
##lista de direcciones mac con acceso permitido
##mac del gateway
arptables -A INPUT --source-mac 20:4c:9e:33:57:e4 -j ACCEPT
arptables -A INPUT --source-mac 12:34:56:78:90:00 -j ACCEPT
arptables -A INPUT --source-mac 99:88:77:66:55:44 -j ACCEPT
arptables -A INPUT --source-mac 40:50:60:70:80:90 -j ACCEPT
arptables -A INPUT --source-mac 00:ac:e0:b9:ce:d7 -j ACCEPT
arptables -A INPUT --source-mac 94:65:9c:6a:4e:c9 -j ACCEPT
##Bloqueamos el tráfico a los puertos HTTP/HTTPS para todas las demás 440
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 28 160% Windows (CRLF) UTF-8
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Buscar
5°C Despejado
ENG
2:55
10/05/2025

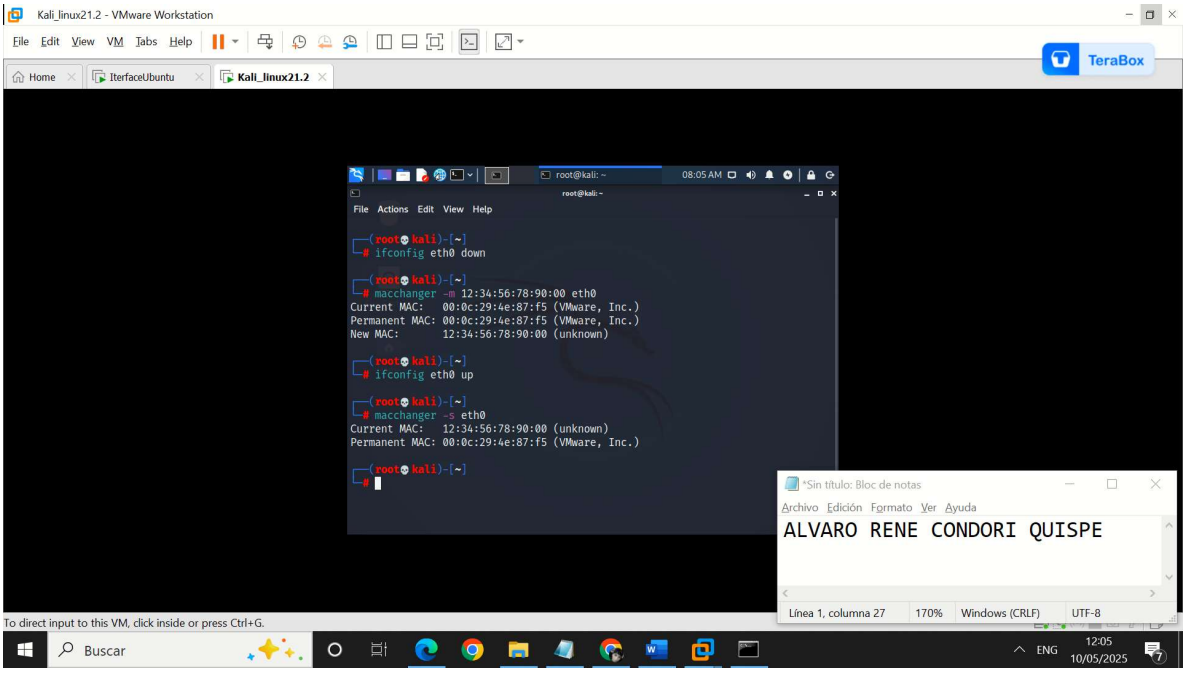

IterfaceUbuntu - VMware Workstation
File Edit View VM Tabs Help
TeraBox
Home
IterfaceUbuntu
Kali_linux21.2
Activities
Terminal
may 10 11:52
root@alvaro-virtual-machine: /tmp/my-scripts
root@alvaro-virtual-machine:/tmp/my-scripts# chm
chmem chmod
root@alvaro-virtual-machine:/tmp/my-scripts# chmod +x iptables2.sh
root@alvaro-virtual-machine:/tmp/my-scripts# ./iptables2.sh
root@alvaro-virtual-machine:/tmp/my-scripts#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 27 170% Windows (CRLF) UTF-8
To direct input to this VM, move the mouse pointer inside or press Ctrl+G.
Buscar
13°C Mayorm. soleado
ENG
11:52
10/05/2025

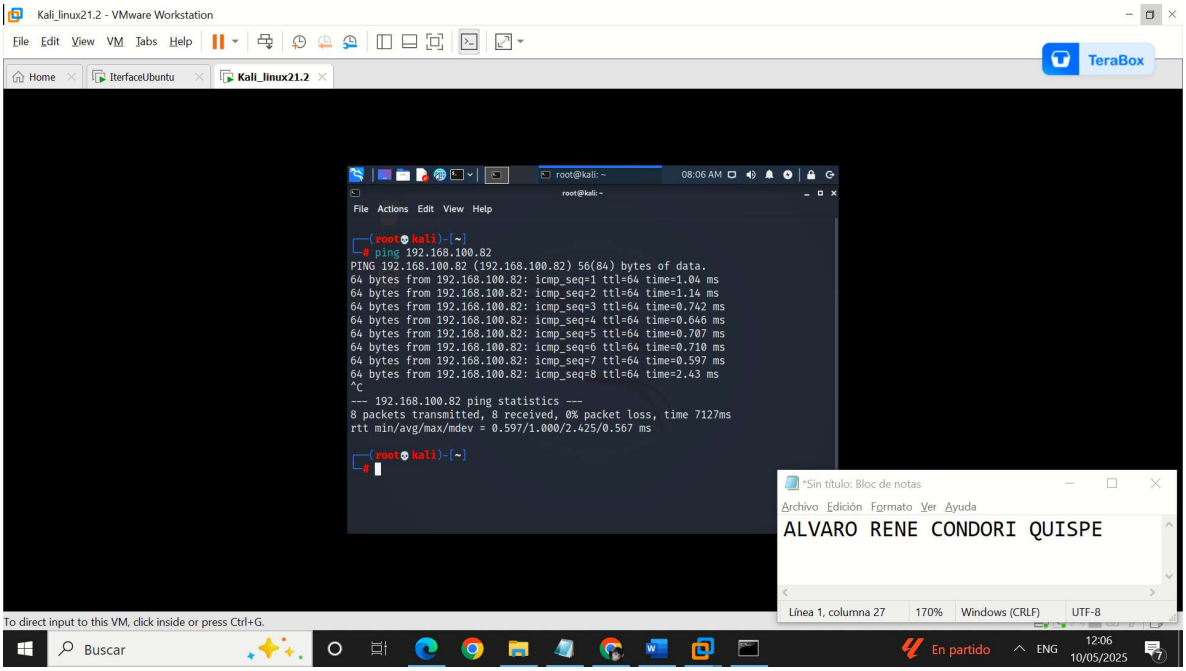

Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
Kali_linux21.2
IterfaceUbuntu
TeraBox
root@kali: ~
12:48 AM
File Actions Edit View Help
(root㉿kali)-[~]
ping 192.168.100.82
PING 192.168.100.82 (192.168.100.82) 56(84) bytes of data.
From 192.168.100.104 icmp_seq=10 Destination Host Unreachable
From 192.168.100.104 icmp_seq=11 Destination Host Unreachable
From 192.168.100.104 icmp_seq=12 Destination Host Unreachable
From 192.168.100.104 icmp_seq=13 Destination Host Unreachable
From 192.168.100.104 icmp_seq=14 Destination Host Unreachable
From 192.168.100.104 icmp_seq=15 Destination Host Unreachable
From 192.168.100.104 icmp_seq=16 Destination Host Unreachable
^CFrom 192.168.100.104 icmp_seq=17 Destination Host Unreachable
From 192.168.100.104 icmp_seq=18 Destination Host Unreachable
From 192.168.100.104 icmp_seq=19 Destination Host Unreachable
From 192.168.100.104 icmp_seq=20 Destination Host Unreachable
From 192.168.100.104 icmp_seq=21 Destination Host Unreachable
From 192.168.100.104 icmp_seq=22 Destination Host Unreachable
From 192.168.100.104 icmp_seq=23 Destination Host Unreachable
From 192.168.100.104 icmp_seq=24 Destination Host Unreachable
From 192.168.100.104 icmp_seq=25 Destination Host Unreachable
From 192.168.100.104 icmp_seq=26 Destination Host Unreachable
From 192.168.100.104 icmp_seq=27 Destination Host Unreachable
From 192.168.100.104 icmp_seq=28 Destination Host Unreachable
From 192.168.100.104 icmp_seq=29 Destination Host Unreachable
From 192.168.100.104 icmp_seq=30 Destination Host Unreachable
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 27
170%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
4°C Despejado
ENG
4:48
10/05/2025

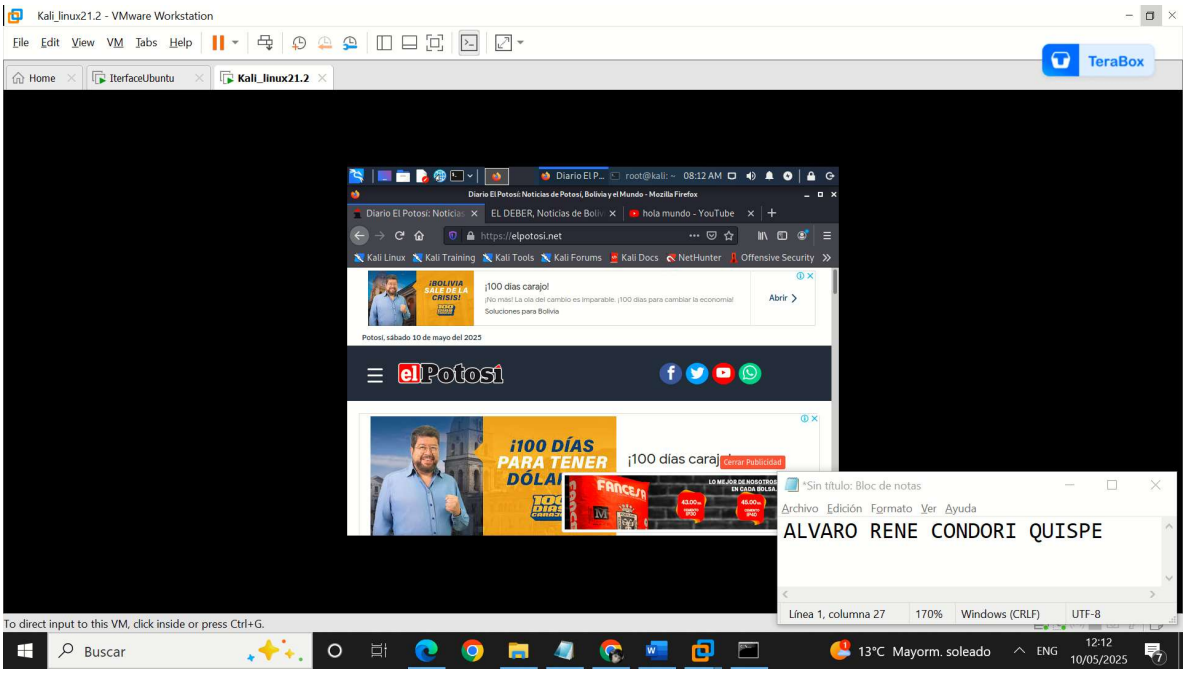

Símbolo del sistema
Respuesta desde 192.168.100.6: Host de destino inaccesible.
Estadísticas de ping para 192.168.100.82:
Paquetes: enviados = 4, recibidos = 4, perdidos = 0
(0% perdidos),
C:\Users\USER>ping 192.168.100.82
Haciendo ping a 192.168.100.82 con 32 bytes de datos:
Tiempo de espera agotado para esta solicitud.
Tiempo de espera agotado para esta solicitud.
Tiempo de espera agotado para esta solicitud.
Tiempo de espera agotado para esta solicitud.
Estadísticas de ping para 192.168.100.82:
Paquetes: enviados = 4, recibidos = 0, perdidos = 4
(100% perdidos),
C:\Users\USER>
TeraBox
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 27
170%
Windows (CRLF)
UTF-8
Buscar
4°C Despejado
ENG
4:48
10/05/2025

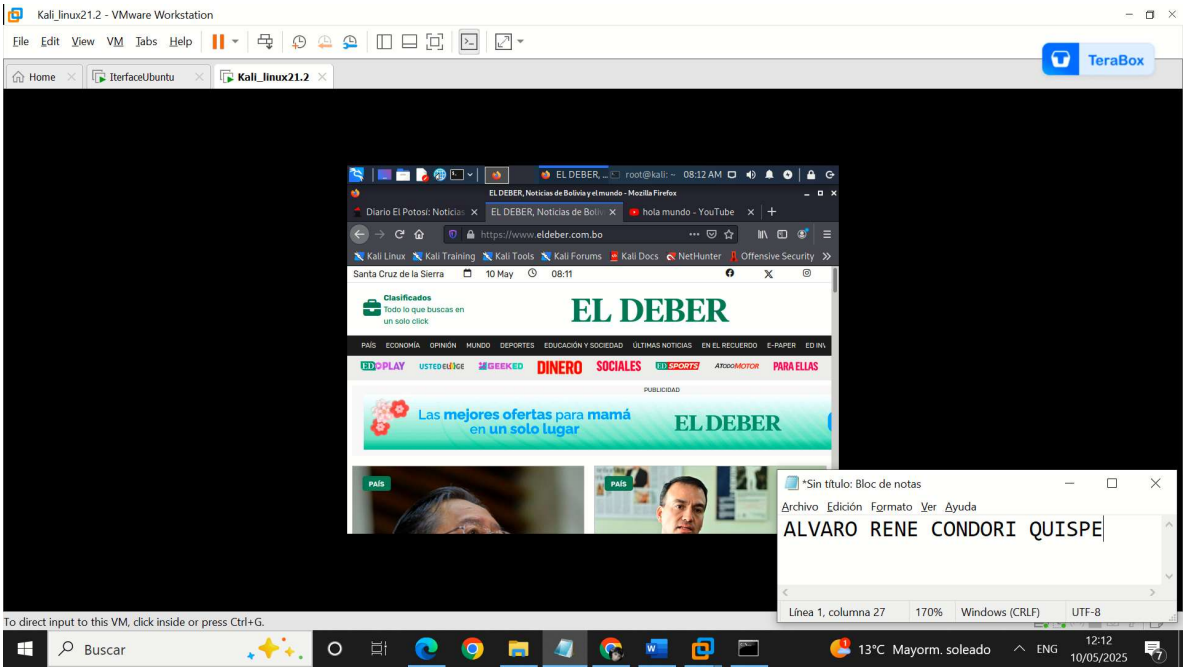

Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
IterfaceUbuntu
Kali_linux21.2
TeraBox
root@kali: ~
08:00 AM
File Actions Edit View Help
(root kali)-[~]
ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.100.104 netmask 255.255.255.0 broadcast 192.168.100.255
inet6 fe80::20c:29ff:fe4e:87f5 prefixlen 64 scopeid 0x20<link>
ether 00:0c:29:4e:87:f5 txqueuelen 1000 (Ethernet)
RX packets 74 bytes 7781 (7.5 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 31 bytes 2900 (2.8 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 128 scopeid 0x10<host>
loop txqueuelen 1000 (Local Loopback)
RX packets 24 bytes 1944 (1.8 KiB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 24 bytes 1944 (1.8 KiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
(root kali)-[~]
#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 27
170%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
13°C Mayorm. soleado
ENG
12:00
10/05/2025


Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
IterfaceUbuntu
Kali_linux21.2
TeraBox
root@kali: ~
08:03 AM
File Actions Edit View Help
(root kali)-[~]
macchanger -s eth0
Current MAC: 00:0c:29:4e:87:f5 (VMware, Inc.)
Permanent MAC: 00:0c:29:4e:87:f5 (VMware, Inc.)
(root kali)-[~]
#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 27
170%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
MXN/PEN +0,97%
ENG
12:03
10/05/2025


Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
IterfaceUbuntu
Kali_linux21.2
TeraBox
root@kali: ~
08:05 AM
File Actions Edit View Help
(root kali)-[~]
ifconfig eth0 down
(root kali)-[~]
macchanger -m 12:34:56:78:90:00 eth0
Current MAC: 00:0c:29:4e:87:f5 (VMware, Inc.)
Permanent MAC: 00:0c:29:4e:87:f5 (VMware, Inc.)
New MAC: 12:34:56:78:90:00 (unknown)
(root kali)-[~]
ifconfig eth0 up
(root kali)-[~]
macchanger -s eth0
Current MAC: 12:34:56:78:90:00 (unknown)
Permanent MAC: 00:0c:29:4e:87:f5 (VMware, Inc.)
(root kali)-[~]
#
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 27
170%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
ENG
12:05
10/05/2025

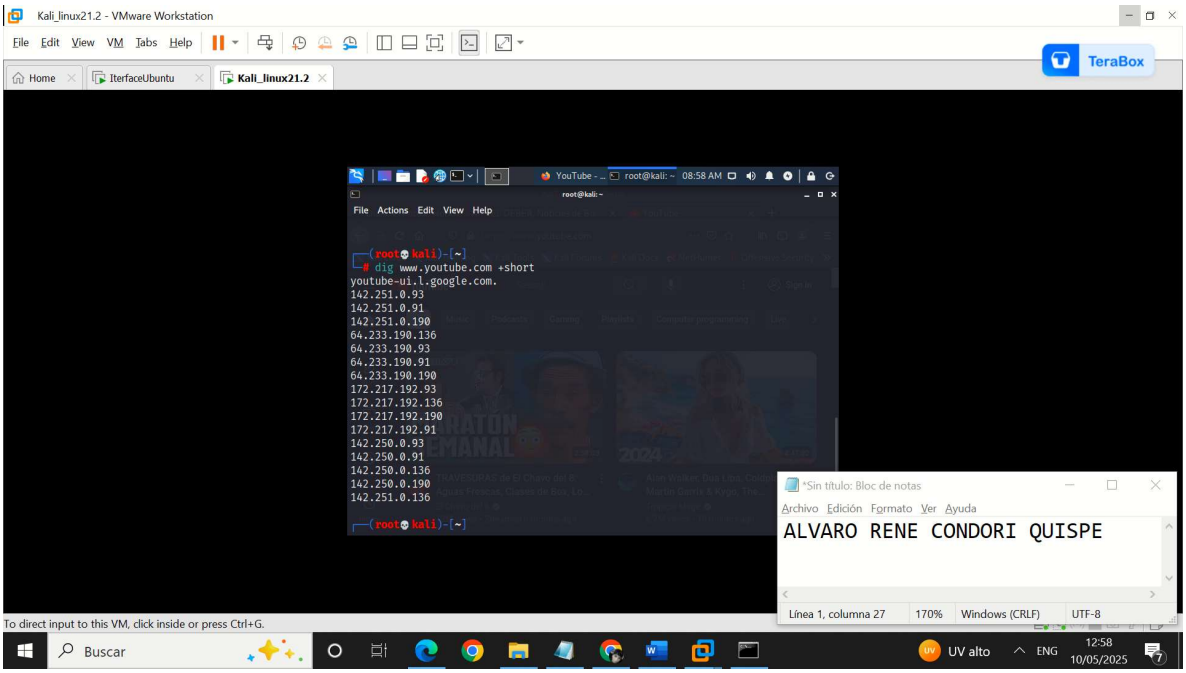

Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
IterfaceUbuntu
Kali_linux21.2
TeraBox
root@kali: ~
08:06 AM
File Actions Edit View Help
(root kali)-[~]
ping 192.168.100.82
PING 192.168.100.82 (192.168.100.82) 56(84) bytes of data.
64 bytes from 192.168.100.82: icmp_seq=1 ttl=64 time=1.04 ms
64 bytes from 192.168.100.82: icmp_seq=2 ttl=64 time=1.14 ms
64 bytes from 192.168.100.82: icmp_seq=3 ttl=64 time=0.742 ms
64 bytes from 192.168.100.82: icmp_seq=4 ttl=64 time=0.646 ms
64 bytes from 192.168.100.82: icmp_seq=5 ttl=64 time=0.707 ms
64 bytes from 192.168.100.82: icmp_seq=6 ttl=64 time=0.710 ms
64 bytes from 192.168.100.82: icmp_seq=7 ttl=64 time=0.597 ms
64 bytes from 192.168.100.82: icmp_seq=8 ttl=64 time=2.43 ms
^C
--- 192.168.100.82 ping statistics ---
8 packets transmitted, 8 received, 0% packet loss, time 7127ms
rtt min/avg/max/mdev = 0.597/1.000/2.425/0.567 ms
(root kali)-[~]
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 27
170%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
En partido
ENG
12:06
10/05/2025


Kali_linux21.2 - VMware Workstation
File Edit View VM Tabs Help
Home
IterfaceUbuntu
Kali_linux21.2
TeraBox
Diario El P...
root@kali: ~
08:12 AM
Diario El Potosí: Noticias de Potosí, Bolivia y el Mundo - Mozilla Firefox
Diario El Potosí: Noticias
EL DEBER, Noticias de Boli
hola mundo - YouTube
https://elpotosi.net
Kali Linux
Kali Training
Kali Tools
Kali Forums
Kali Docs
NetHunter
Offensive Security
¡BOLIVIA SALE DE LA CRISIS!
¡100 días carajo!
¡No más! La ola del cambio es imparable. ¡100 días para cambiar la economía!
Soluciones para Bolivia
Abrir
Potosí, sábado 10 de mayo del 2025
elPotosí
¡100 DÍAS PARA TENER DÓLAR
¡100 días carajo
Cerrar Publicidad
*Sin título: Bloc de notas
Archivo Edición Formato Ver Ayuda
ALVARO RENE CONDORI QUISPE
Línea 1, columna 27
170%
Windows (CRLF)
UTF-8
To direct input to this VM, click inside or press Ctrl+G.
Buscar
13°C Mayorm. soleado
ENG
12:12
10/05/2025

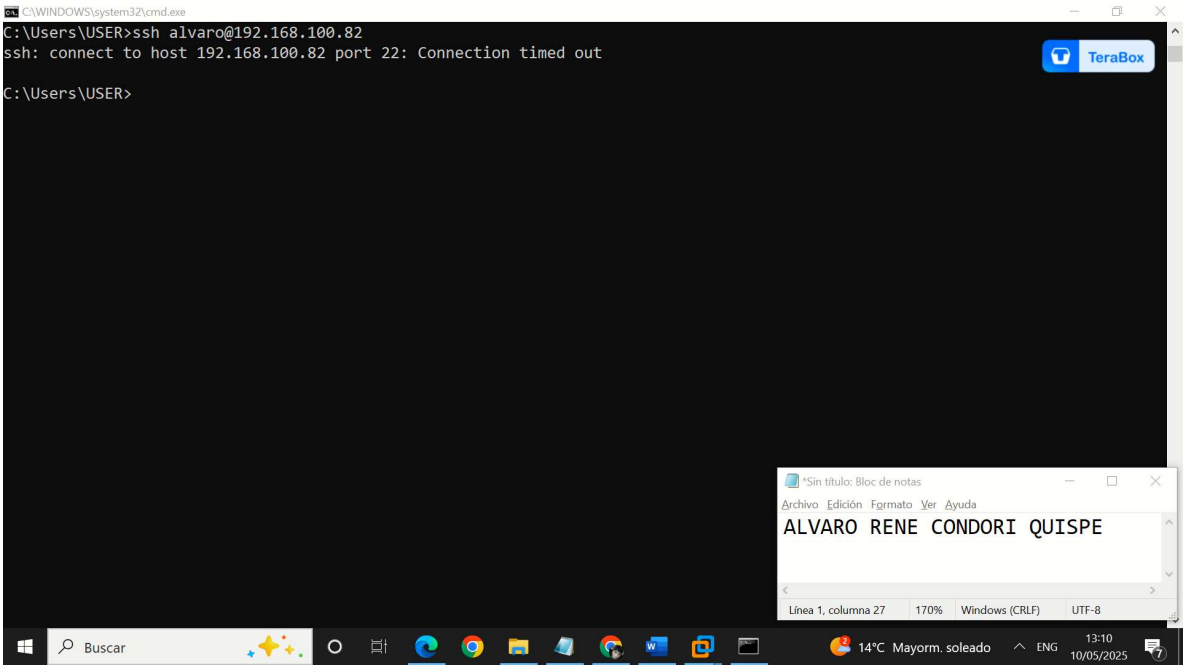


Pregunta 1 acceso a YouTube

Si tengo acceso a YouTube, pero el resultado deveria ser que no tenga acceso a YouTube, porque las reglas iptables bloquean el tráfico saliente por los puertos 80 y 443, a pesar de que la dirección MAC esta permitida por arptables. Pero sigue funcionando, esto pasa porque el scrip no esta bloqueando todas las ips que usa YouTube ya que esta misma responde a muchas direcciones ip diferentes



Pregunta 2



No tengo acceso ssh a la máquina de Ubuntu pero esto no debería pasar ya que en el script no se esta bloqueando el pueto 22

Evaluacion

Pregunta 1

saddr significa **source address** (dirección de origen).

daddr significa **destination address** (dirección de destino).

Y se usan en las reglas de nftables para **filtrar tráfico** según la dirección IP de origen o destino

Pregunta 2

La prioridad de una cadena en nftables determina el orden en que se ejecutan las cadenas que usan el mismo *hook* como input, output o forward. Las cadenas con prioridad más baja como los nuemro negativos ejecutan primero. Establecer correctamente la prioridad es importante porque las decisiones tomadas en cadenas anteriores pueden evitar que se evalúen las siguientes reglas, afectando el comportamiento y la seguridad del sistema.