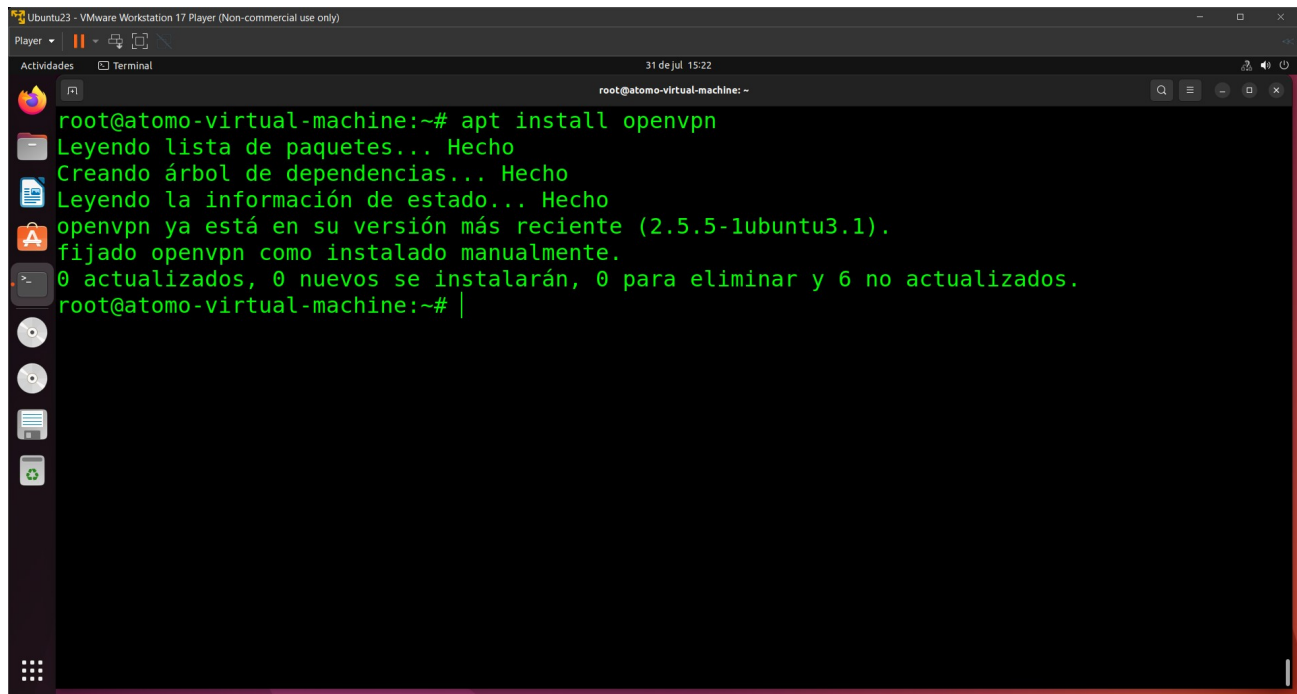
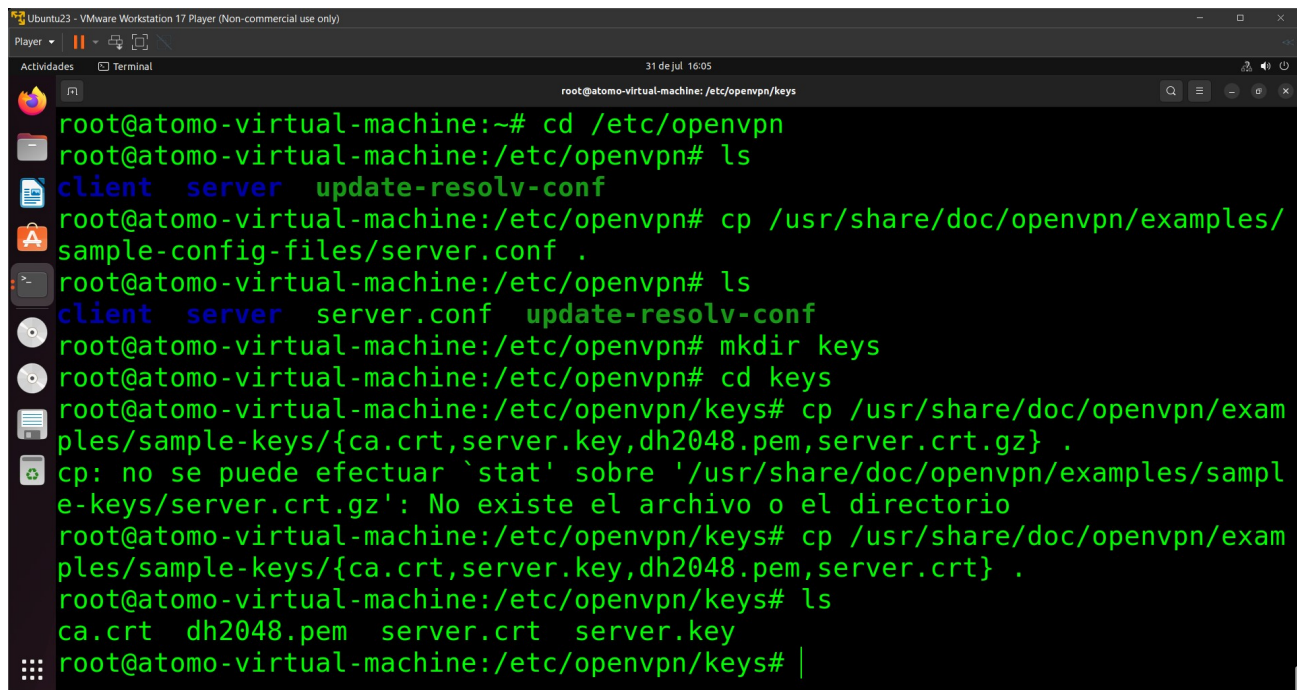


configuracion de openvpn-linux



```
root@atomo-virtual-machine:~# apt install openvpn
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias... Hecho
Leyendo la información de estado... Hecho
openvpn ya está en su versión más reciente (2.5.5-1ubuntu3.1).
fijado openvpn como instalado manualmente.
0 actualizados, 0 nuevos se instalarán, 0 para eliminar y 6 no actualizados.
root@atomo-virtual-machine:~# |
```



```
root@atomo-virtual-machine:~# cd /etc/openvpn
root@atomo-virtual-machine:/etc/openvpn# ls
client  server  update-resolv-conf
root@atomo-virtual-machine:/etc/openvpn# cp /usr/share/doc/openvpn/examples/
sample-config-files/server.conf .
root@atomo-virtual-machine:/etc/openvpn# ls
client  server  server.conf  update-resolv-conf
root@atomo-virtual-machine:/etc/openvpn# mkdir keys
root@atomo-virtual-machine:/etc/openvpn# cd keys
root@atomo-virtual-machine:/etc/openvpn/keys# cp /usr/share/doc/openvpn/exam
ples/sample-keys/{ca.crt,server.key,dh2048.pem,server.crt.gz} .
cp: no se puede efectuar `stat' sobre '/usr/share/doc/openvpn/examples/sampl
e-keys/server.crt.gz': No existe el archivo o el directorio
root@atomo-virtual-machine:/etc/openvpn/keys# cp /usr/share/doc/openvpn/exam
ples/sample-keys/{ca.crt,server.key,dh2048.pem,server.crt} .
root@atomo-virtual-machine:/etc/openvpn/keys# ls
ca.crt  dh2048.pem  server.crt  server.key
root@atomo-virtual-machine:/etc/openvpn/keys# |
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player 31 de jul. 16:06
Actividades Terminal root@atomo-virtual-machine: /etc/openvpn
GNU nano 6.2 server.conf
#####
# Sample OpenVPN 2.0 config file for #
# multi-client server. #
# #
# This file is for the server side #
# of a many-clients <-> one-server #
# OpenVPN configuration. #
# #
# OpenVPN also supports #
# single-machine <-> single-machine #
# configurations (See the Examples page #
# on the web site for more info). #
# #
# This onfig should work on Windows #
[ 315 líneas leídas ]
^G Ayuda ^O Guardar ^W Buscar ^K Cortar ^T Ejecutar
^X Salir ^R Leer fich. ^\ Reemplazar ^U Pegar ^J Justificar
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player 31 de jul. 16:07
Actividades Terminal root@atomo-virtual-machine: /etc/openvpn
GNU nano 6.2 server.conf *
# or Linux/BSD systems. Remember on #
# Windows to quote pathnames and use #
# double backslashes, e.g.: #
# "C:\\Program Files\\OpenVPN\\config\\foo.key" #
# #
# Comments are preceded with '#' or ';' #
#####
# Which local IP address should OpenVPN #
# listen on? (optional) #
local "aca debemos colocar la ip donde escucha"
# Which TCP/UDP port should OpenVPN listen on? #
# If you want to run multiple OpenVPN instances #
^G Ayuda ^O Guardar ^W Buscar ^K Cortar ^T Ejecutar
^X Salir ^R Leer fich. ^\ Reemplazar ^U Pegar ^J Justificar
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player 31 de jul. 16:09
Actividades Terminal root@atomo-virtual-machine: /etc/openvpn
GNU nano 6.2 server.conf *
# of scripts for generating RSA certificates
# and private keys. Remember to use
# a unique Common Name for the server
# and each of the client certificates.
#
# Any X509 key management system can be used.
# OpenVPN can also use a PKCS #12 formatted key file
# (see "pkcs12" directive in man page).
ca /etc/openvpn/keys/ca.crt
cert /etc/openvpn/keys/server.crt
key /etc/openvpn/keys/server.key # This file should be kept secret

# Diffie hellman parameters.
# Generate your own with:

^G Ayuda      ^O Guardar    ^W Buscar     ^K Cortar     ^T Ejecutar
^X Salir      ^R Leer fich. ^\ Reemplazar  ^U Pegar      ^J Justificar
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player 31 de jul. 16:10
Actividades Terminal root@atomo-virtual-machine: /etc/openvpn
GNU nano 6.2 server.conf *
# Push routes to the client to allow it
# to reach other private subnets behind
# the server. Remember that these
# private subnets will also need
# to know to route the OpenVPN client
# address pool (10.8.0.0/255.255.255.0)
# back to the OpenVPN server.
push "route 192.168.10.0 255.255.255.0"
;push "route 192.168.20.0 255.255.255.0"

# To assign specific IP addresses to specific
# clients or if a connecting client has a private
# subnet behind it that should also have VPN access,
# use the subdirectory "ccd" for client-specific

^G Ayuda      ^O Guardar    ^W Buscar     ^K Cortar     ^T Ejecutar
^X Salir      ^R Leer fich. ^\ Reemplazar  ^U Pegar      ^J Justificar
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player 31 de jul. 16:11
root@atomo-virtual-machine: /etc/openvpn

GNU nano 6.2 server.conf *
keepalive 10 120

# For extra security beyond that provided
# by SSL/TLS, create an "HMAC firewall"
# to help block DoS attacks and UDP port flooding.
#
# Generate with:
# openvpn --genkey tls-auth ta.key
#
# The server and each client must have
# a copy of this key.
# The second parameter should be '0'
# on the server and '1' on the clients.
tls-auth ta.key 0 # This file is secret

^G Ayuda      ^O Guardar    ^W Buscar     ^K Cortar     ^T Ejecutar
^X Salir      ^R Leer fich. ^\ Reemplazar  ^U Pegar      ^J Justificar
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player 31 de jul. 16:15
root@atomo-virtual-machine: /etc/openvpn/keys

root@atomo-virtual-machine:/etc/openvpn# cd keys
root@atomo-virtual-machine:/etc/openvpn/keys# openvpn --genkey tls-auth ta.k
ey
root@atomo-virtual-machine:/etc/openvpn/keys# ls -l
total 24
-rw-r--r-- 1 root root 2195 jul 31 16:05 ca.crt
-rw-r--r-- 1 root root 424 jul 31 16:05 dh2048.pem
-rw-r--r-- 1 root root 6391 jul 31 16:05 server.crt
-rw-r--r-- 1 root root 1704 jul 31 16:05 server.key
-rw----- 1 root root 636 jul 31 16:14 ta.key
root@atomo-virtual-machine:/etc/openvpn/keys# |
```



```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player
31 de jul. 16:16
root@atomo-virtual-machine: /etc/openvpn

root@atomo-virtual-machine:/etc/openvpn/keys# cd ..
root@atomo-virtual-machine:/etc/openvpn# openvpn --config server.conf
2023-07-31 16:15:56 WARNING: --topology net30 support for server configs with IPv4 pools will be removed in a future release. Please migrate to --topology subnet as soon as possible.
2023-07-31 16:15:56 DEPRECATED OPTION: --cipher set to 'AES-256-CBC' but missing in --data-ciphers (AES-256-GCM:AES-128-GCM). Future OpenVPN version will ignore --cipher for cipher negotiations. Add 'AES-256-CBC' to --data-ciphers or change --cipher 'AES-256-CBC' to --data-ciphers-fallback 'AES-256-CBC' to silence this warning.
2023-07-31 16:15:56 WARNING: file '/etc/openvpn/keys/server.key' is group or others accessible
2023-07-31 16:15:56 OpenVPN 2.5.5 x86_64-pc-linux-gnu [SSL (OpenSSL)] [LZO] [LZ4] [EPOLL] [PKCS11] [MH/PKTINFO] [AEAD] built on Jul 14 2022
2023-07-31 16:15:56 library versions: OpenSSL 3.0.2 15 Mar 2022, LZO 2.10
2023-07-31 16:15:56 net_route_v4_best_gw query: dst 0.0.0.0
2023-07-31 16:15:56 net_route_v4_best_gw result: via 192.168.35.2 dev ens33
2023-07-31 16:15:56 Diffie-Hellman initialized with 2048 bit key
```

```
Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)
Player
31 de jul. 16:16
root@atomo-virtual-machine: /etc/openvpn

2023-07-31 16:15:56 net_route_v4_best_gw result: via 192.168.35.2 dev ens33
2023-07-31 16:15:56 ROUTE_GATEWAY 192.168.35.2/255.255.255.0 IFACE=ens33 HWA
DDR=00:0c:29:40:a4:e1
2023-07-31 16:15:56 TUN/TAP device tun0 opened
2023-07-31 16:15:56 net_iface_mtu_set: mtu 1500 for tun0
2023-07-31 16:15:56 net_iface_up: set tun0 up
2023-07-31 16:15:56 net_addr_ptp_v4_add: 10.8.0.1 peer 10.8.0.2 dev tun0
2023-07-31 16:15:56 net_route_v4_add: 10.8.0.0/24 via 10.8.0.2 dev [NULL] ta
ble 0 metric -1
2023-07-31 16:15:56 Could not determine IPv4/IPv6 protocol. Using AF_INET
2023-07-31 16:15:56 Socket Buffers: R=[212992->212992] S=[212992->212992]
2023-07-31 16:15:56 UDPv4 link local (bound): [AF_INET]192.168.35.137:1194
2023-07-31 16:15:56 UDPv4 link remote: [AF_UNSPEC]
2023-07-31 16:15:56 MULTI: multi_init called, r=256 v=256
2023-07-31 16:15:56 IFCONFIG POOL IPv4: base=10.8.0.4 size=62
2023-07-31 16:15:56 IFCONFIG POOL LIST
2023-07-31 16:15:56 Initialization Sequence Completed
```

The screenshot shows a terminal window titled "Ubuntu23 - VMware Workstation 17 Player (Non-commercial use only)". The terminal is running as root on a virtual machine named "atomo". The prompt is "root@atomo-virtual-machine: /home/atomo". The user has entered the following commands:

```

valid_lft forever preferred_lft forever
3: tun0: <POINTOPOINT,MULTICAST,NOARP,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UNKNOWN group default qlen 500
    link/none
    inet 10.8.0.1 peer 10.8.0.2/32 scope global tun0
        valid_lft forever preferred_lft forever
    inet6 fe80::5388:59d3:3d4d:b147/64 scope link stable-privacy
        valid_lft forever preferred_lft forever

```

The output shows the configuration of the network interface tun0, including its MTU, qdisc, and IP addresses. The interface is currently in the "UNKNOWN" state. The terminal also shows several empty prompts, indicating that the user has entered multiple lines of output without providing further input.