

# Tarefas UD04

## Bloque 02

*Administración de sistemas operativos*

*Unidade Didáctica 04:  
Servizos de acceso e administración remota*

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Apellidos: Rey Feal

Data:



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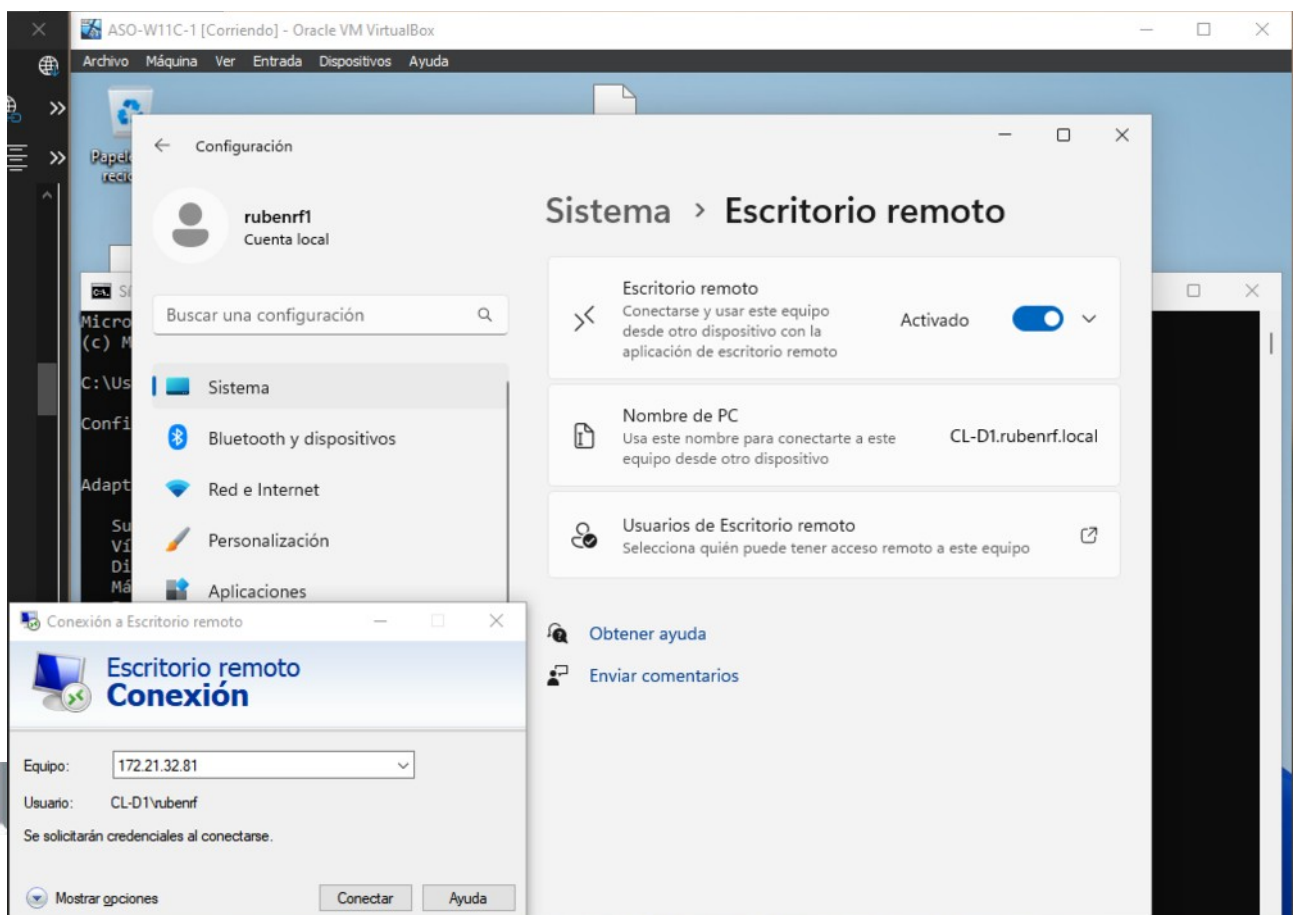
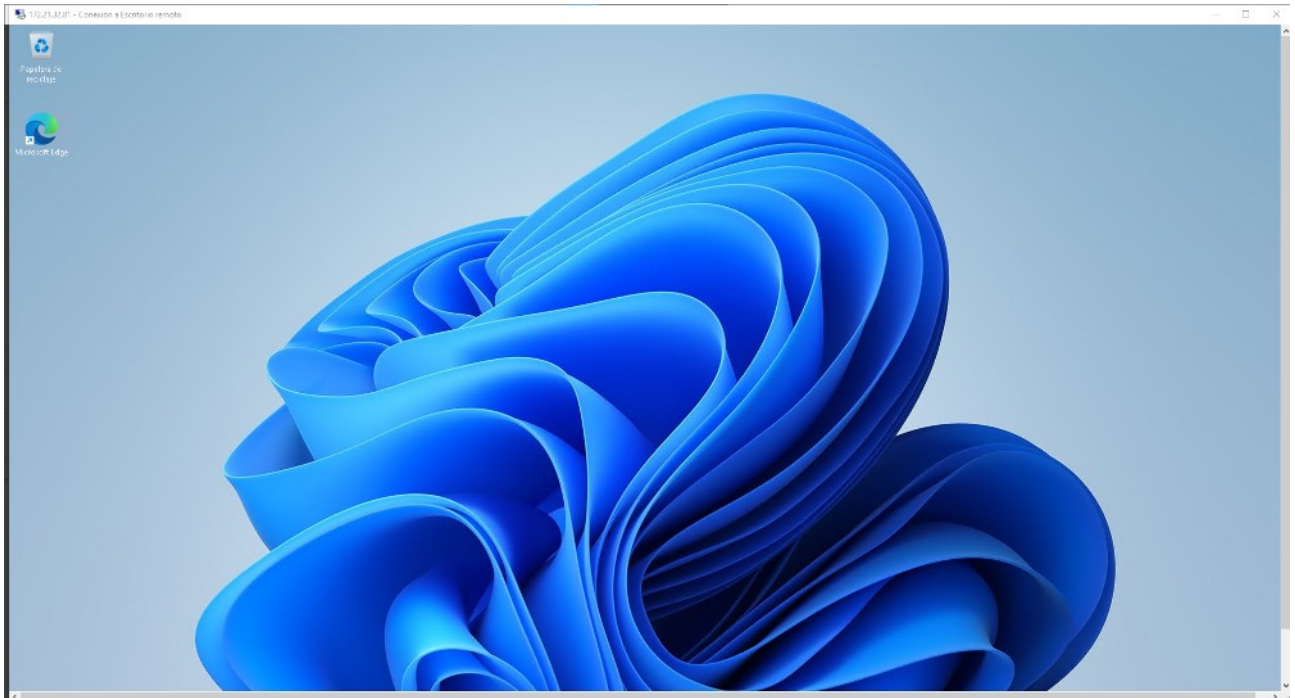
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# Tarefa 1. Escritorio remoto

## 1.1. Escritorio remoto

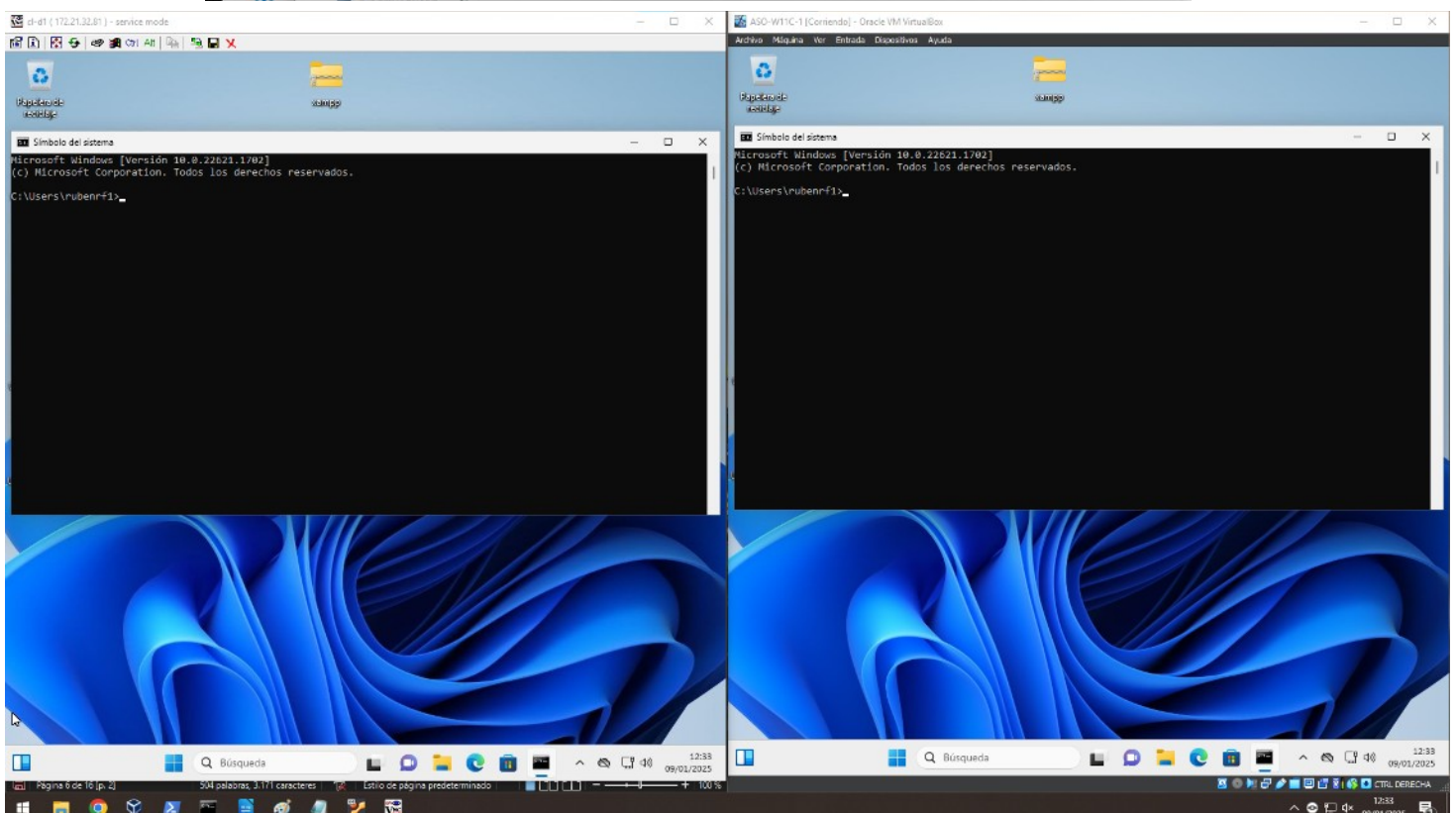
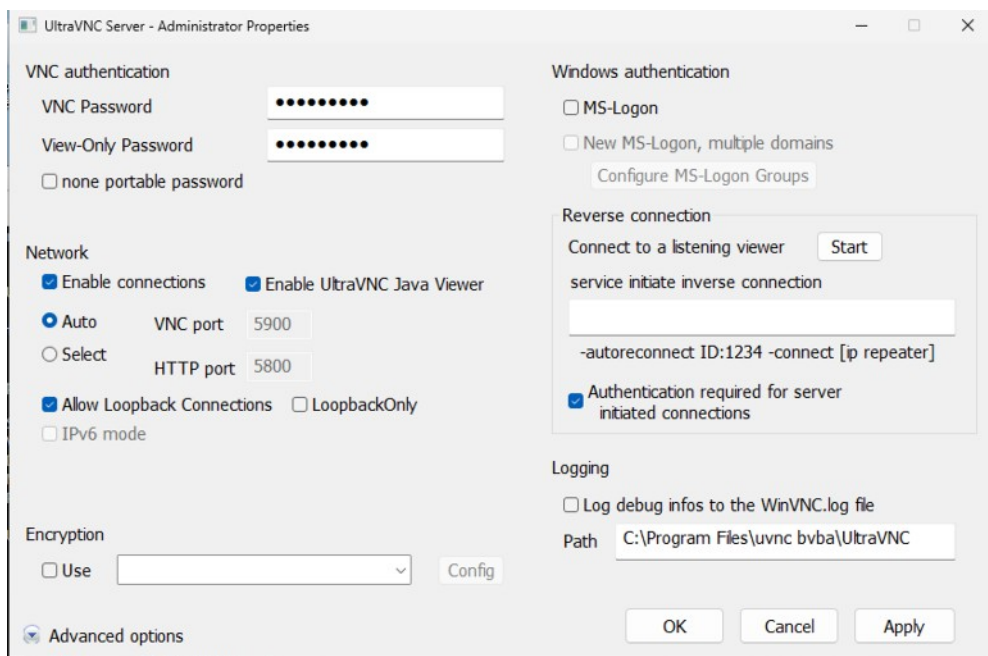
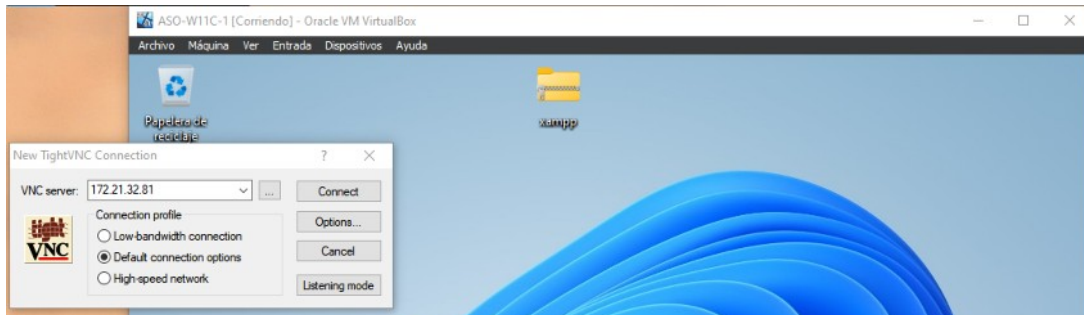
### 1.1.1. Windows a Windows: Escritorio remoto

Explica o software e o pasos a seguir para conectarse empregando o propio software dispoñible en Windows para conectarse en modo de escritorio remoto.



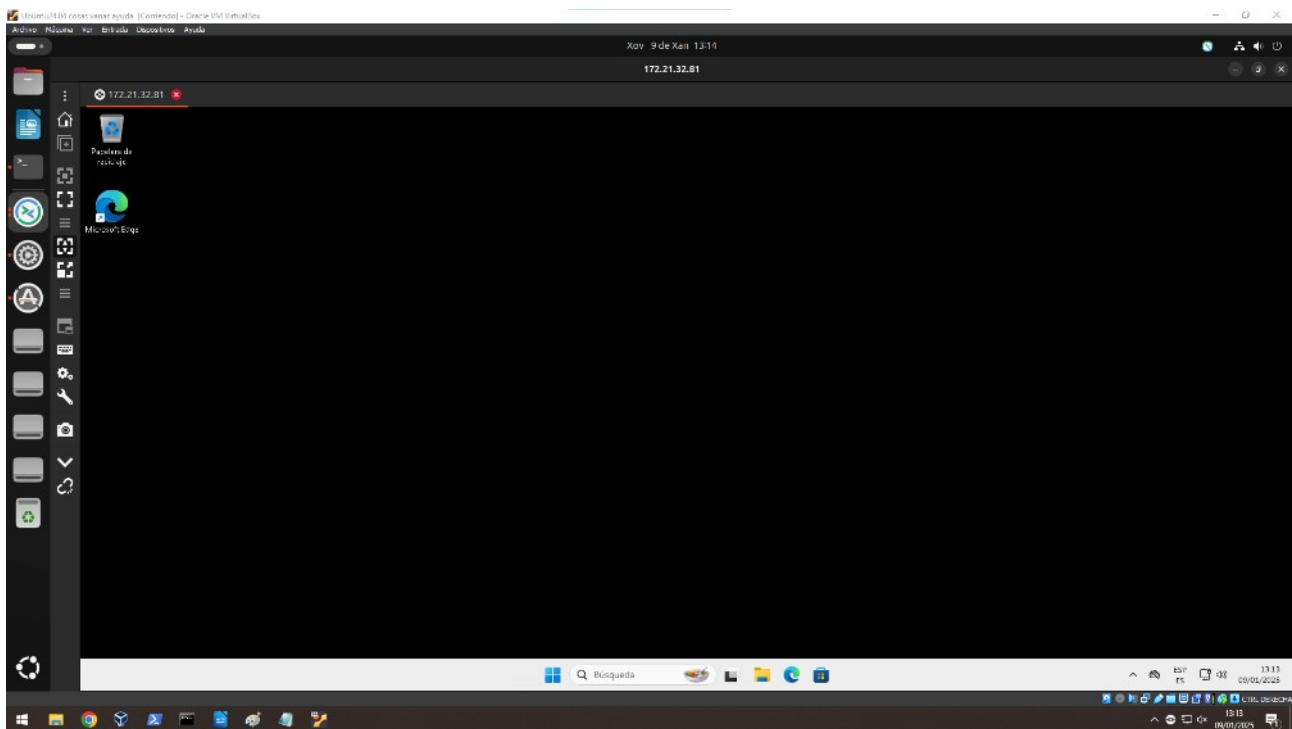
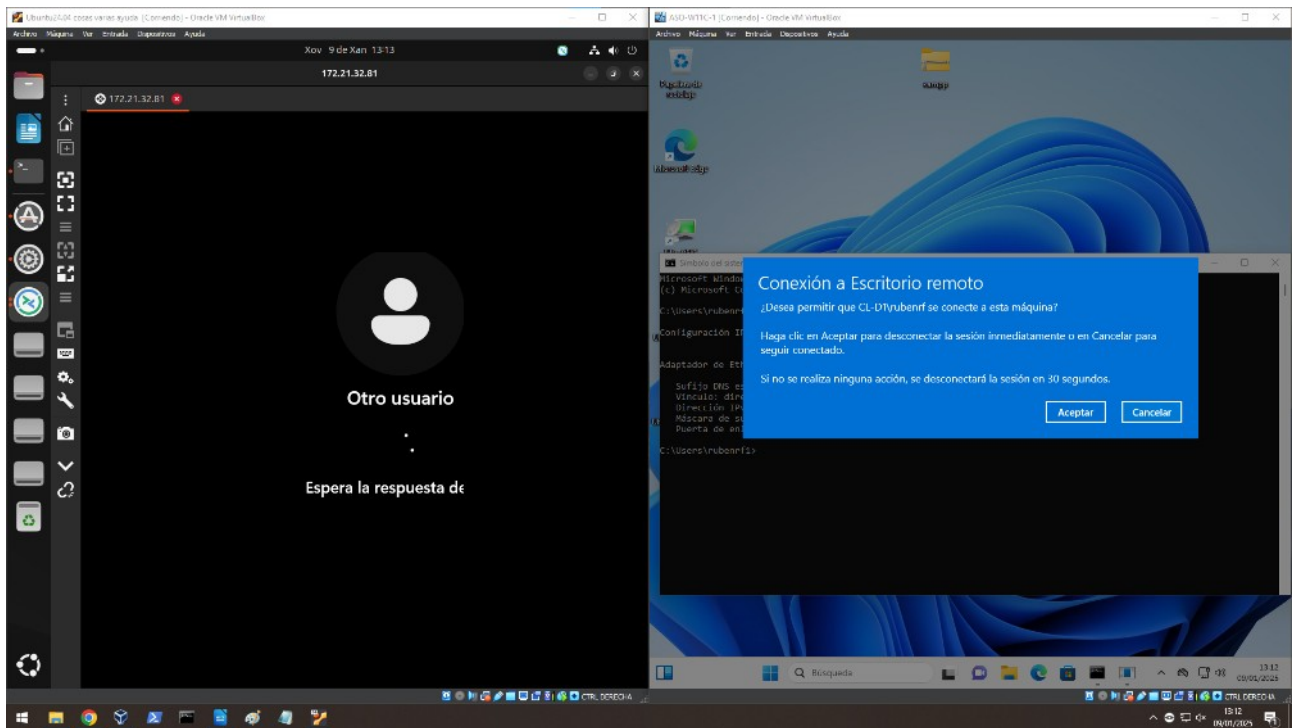
### 1.1.2.Windows a GNU/Linux ou viceversa

Explica o software e o pasos a seguir para conectarse empregando un protocolo VNC dende un equipo con Windows a un GNU/Linux.



### 1.1.3. GNU/Linux a Windows

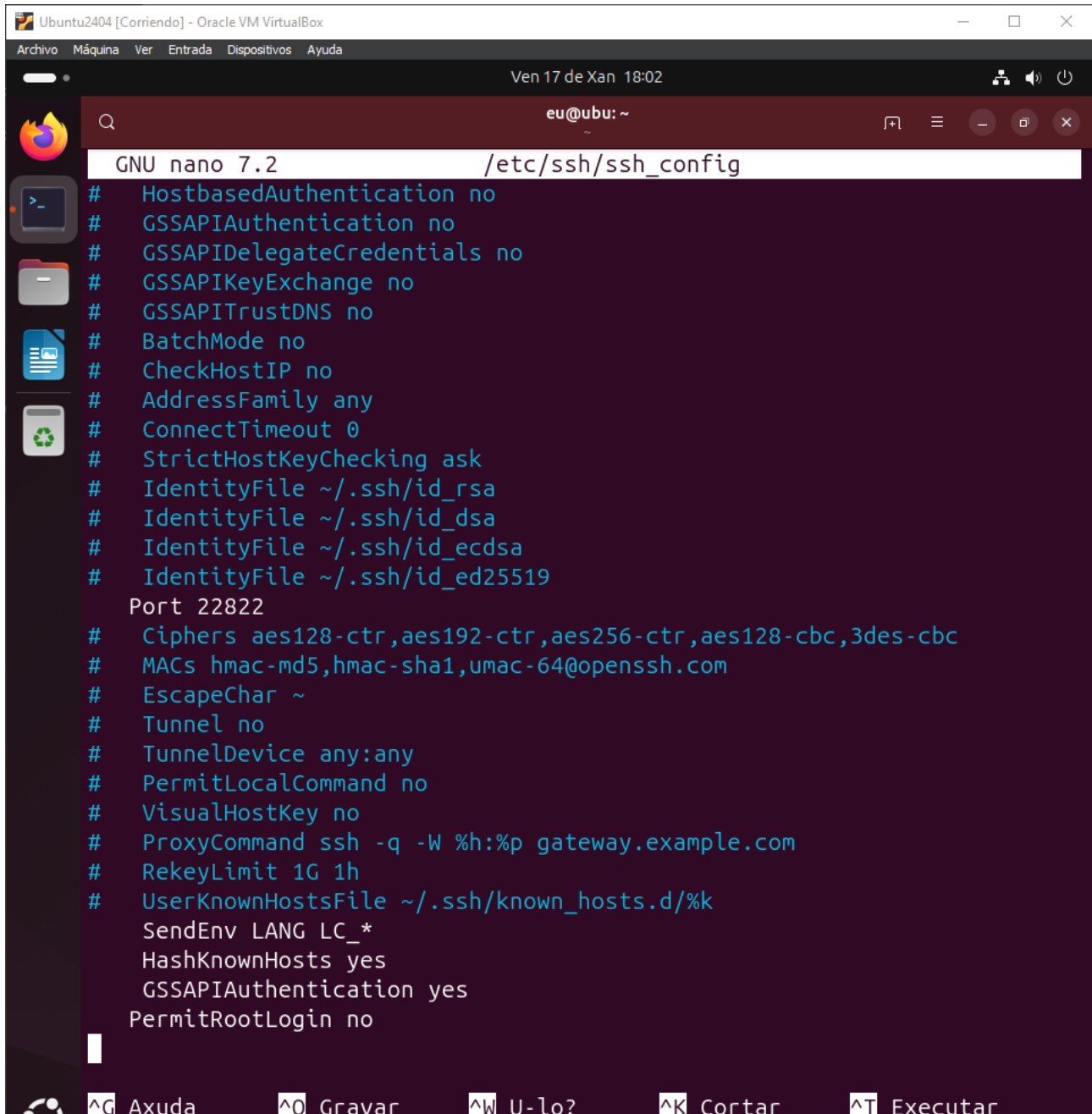
Explica o software e o pasos a seguir para conectarse empregando un protocolo RDP (Escritorio remoto) dende un equipo con GNU/Linux a un Windows.



# Tarefa 2. SSH

## 2.1. Servidor GNU/Linux

1. Configura un GNU/Linux o servizo OpenSSH para que se conecte a través do porto 22 e desactive ao usuario root para conexión SSH.



```
Ubuntu2404 [Corriendo] - Oracle VM VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
Ven 17 de Xan 18:02
eu@ubu: ~
GNU nano 7.2 /etc/ssh/ssh_config
# HostbasedAuthentication no
# GSSAPIAuthentication no
# GSSAPIDelegateCredentials no
# GSSAPIKeyExchange no
# GSSAPITrustDNS no
# BatchMode no
# CheckHostIP no
# AddressFamily any
# ConnectTimeout 0
# StrictHostKeyChecking ask
# IdentityFile ~/.ssh/id_rsa
# IdentityFile ~/.ssh/id_dsa
# IdentityFile ~/.ssh/id_ecdsa
# IdentityFile ~/.ssh/id_ed25519
Port 22822
# Ciphers aes128-ctr,aes192-ctr,aes256-ctr,aes128-cbc,3des-cbc
# MACs hmac-md5,hmac-sha1,umac-64@openssh.com
# EscapeChar ~
# Tunnel no
# TunnelDevice any:any
# PermitLocalCommand no
# VisualHostKey no
# ProxyCommand ssh -q -W %h:%p gateway.example.com
# RekeyLimit 1G 1h
# UserKnownHostsFile ~/.ssh/known_hosts.d/%k
SendEnv LANG LC_*
HashKnownHosts yes
GSSAPIAuthentication yes
PermitRootLogin no
```



```
eu@rubenrf:~$ systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: enabled)
   Active: active (running) since Mon 2024-12-09 11:08:34 CET; 4 weeks 2 days ago
 TriggeredBy: ● ssh.socket
     Docs: man:sshd(8)
           man:sshd_config(5)
    Main PID: 36232 (sshd)
       Tasks: 1 (limit: 3482)
      Memory: 1.2M (peak: 1.4M)
         CPU: 60ms
        CGroup: /system.slice/ssh.service
                └─36232 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Dec 09 11:08:34 rubenrf systemd[1]: Starting ssh.service - OpenBSD Secure Shell server.
..
Dec 09 11:08:34 rubenrf sshd[36232]: Server listening on :: port 22.
Dec 09 11:08:34 rubenrf systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
eu@rubenrf:~$ ip a
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 noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group d
efault qlen 1000
    link/ether 08:00:27:1d:d9:15 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.103/24 brd 192.168.56.255 scope global dynamic noprefixroute enp0s3
        valid_lft 526sec preferred_lft 526sec
```

```

eu@rubenrf:~$ netstat -tuln
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp      0      0 127.0.0.54:53          0.0.0.0:*               LISTEN
tcp      0      0 127.0.0.53:53          0.0.0.0:*               LISTEN
tcp      0      0 127.0.0.1:631          0.0.0.0:*               LISTEN
tcp      0      0 0.0.0.0:445            0.0.0.0:*               LISTEN
tcp      0      0 0.0.0.0:139            0.0.0.0:*               LISTEN
tcp6     0      0 :::445                  :::*                     LISTEN
tcp6     0      0 :::139                  :::*                     LISTEN
tcp6     0      0 :::1:631                :::*                     LISTEN
tcp6     0      0 :::22                   :::*                     LISTEN
tcp6     0      0 :::80                   :::*                     LISTEN
udp      0      0 0.0.0.0:5353           0.0.0.0:*               LISTEN
udp      0      0 127.0.0.54:53          0.0.0.0:*               LISTEN
udp      0      0 127.0.0.53:53          0.0.0.0:*               LISTEN
udp      0      0 10.0.3.255:137         0.0.0.0:*               LISTEN
udp      0      0 10.0.3.15:137          0.0.0.0:*               LISTEN
udp      0      0 192.168.56.255:137     0.0.0.0:*               LISTEN
udp      0      0 192.168.56.103:137     0.0.0.0:*               LISTEN
udp      0      0 0.0.0.0:137            0.0.0.0:*               LISTEN
udp      0      0 10.0.3.255:138         0.0.0.0:*               LISTEN
udp      0      0 10.0.3.15:138          0.0.0.0:*               LISTEN
udp      0      0 192.168.56.255:138     0.0.0.0:*               LISTEN
udp      0      0 192.168.56.103:138     0.0.0.0:*               LISTEN
udp      0      0 0.0.0.0:138            0.0.0.0:*               LISTEN
udp      0      0 0.0.0.0:35482          0.0.0.0:*               LISTEN
udp6     0      0 :::5353                 :::*                     LISTEN
udp6     0      0 :::42648                :::*                     LISTEN

```



```

Windows PowerShell
PS C:\Windows\System32\WindowsPowerShell\v1.0> ping 192.168.56.103

Haciendo ping a 192.168.56.103 con 32 bytes de datos:
Respuesta desde 192.168.56.103: bytes=32 tiempo<1m TTL=64
Respuesta desde 192.168.56.103: bytes=32 tiempo<1m TTL=64
Respuesta desde 192.168.56.103: bytes=32 tiempo<1m TTL=64
Respuesta desde 192.168.56.103: bytes=32 tiempo<1m TTL=64

Estadísticas de ping para 192.168.56.103:
    Paquetes: enviados = 4, recibidos = 4, perdidos = 0
    (0% perdidos),
    Tiempos aproximados de ida y vuelta en milisegundos:
        Mínimo = 0ms, Máximo = 0ms, Media = 0ms
PS C:\Windows\System32\WindowsPowerShell\v1.0> ssh eu@192.168.56.102
PS C:\Windows\System32\WindowsPowerShell\v1.0> ssh eu@192.168.56.103
The authenticity of host '192.168.56.103 (192.168.56.103)' can't be established.
ECDSA key fingerprint is SHA256:GXw3qiWIIcM0/Zel6eX40aK9D8ERQT+AwqVt+iR1BcY.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added '192.168.56.103' (ECDSA) to the list of known hosts.
eu@192.168.56.103's password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-49-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

0 mantenimiento de seguridad ampliado para Applications non está activado.

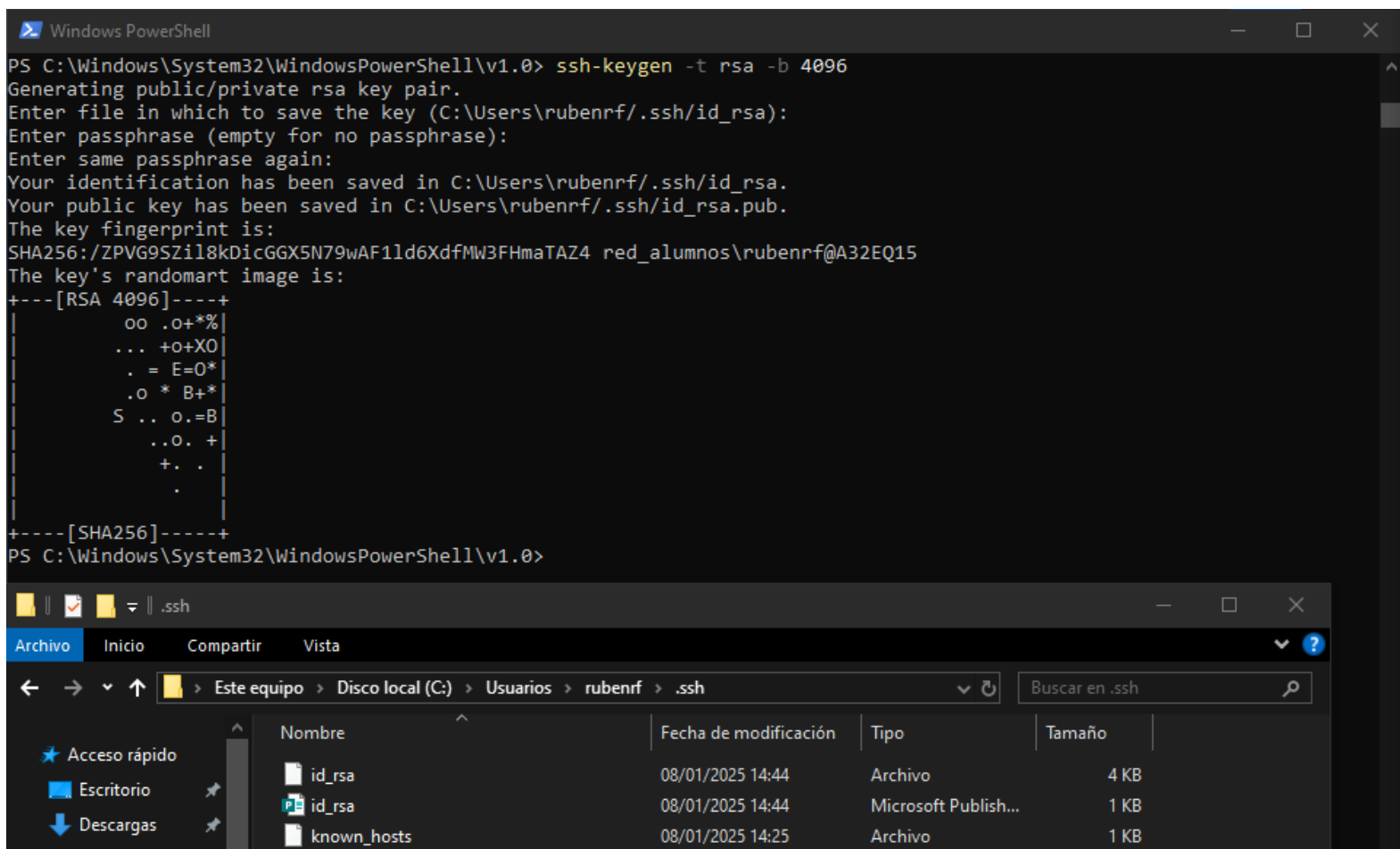
É posíbel aplicar 104 actualizacións inmediatamente.
49 destas actualizacións son actualizacións de seguridad normais.
Para consultar estas actualizacións adicionais execute: apt list --upgradable

Active ESM Apps para recibir futuras actualizacións de seguridad adicionais.
Consulte https://ubuntu.com/esm ou execute: sudo pro status.

*** É necesario reiniciar o sistema ***
eu@rubenrf:~$ ip a
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 noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:1d:d9:15 brd ff:ff:ff:ff:ff:ff
    inet 192.168.56.103/24 brd 192.168.56.255 scope global dynamic noprefixroute enp0s3
        valid_lft 440sec preferred_lft 440sec
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:2b:f0:fb brd ff:ff:ff:ff:ff:ff
    inet 10.0.3.15/24 brd 10.0.3.255 scope global dynamic noprefixroute enp0s8
        valid_lft 85039sec preferred_lft 85039sec
    inet6 fe80::2c96:88c3:914d:f8d/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
eu@rubenrf:~$ exit
logout

```

2. Explica os pasos a seguir, con capturas de pantalla, para conectarte por ssh a un servidor empregando un cifrado asimétrico (clave pública/privada), de forma que non solicite a contrasinal en cada conexión, conectándose automaticamente.



The screenshot shows two windows from a Windows operating system. The top window is a Windows PowerShell terminal with a dark background. It displays the execution of the command `ssh-keygen -t rsa -b 4096` to generate an RSA key pair. The terminal output includes prompts for the file name, passphrase, and confirmation of the passphrase. It also shows the public key's fingerprint (SHA256) and a randomart image. The bottom window is a File Explorer showing the contents of the `.ssh` directory for the user `rubenrf`. It lists three files: `id_rsa` (4 KB), `id_rsa` (1 KB), and `known_hosts` (1 KB).

```
PS C:\Windows\System32\WindowsPowerShell\v1.0> ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (C:\Users\rubenrf\.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in C:\Users\rubenrf\.ssh/id_rsa.
Your public key has been saved in C:\Users\rubenrf\.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:/ZPVG9SZil8kDicGGX5N79wAF1ld6XdfMW3FHmaTAZ4 red_alumnos\rubenrf@A32EQ15
The key's randomart image is:
+---[RSA 4096]---+
  oo .o+*%|
... +o+XO|
. = E=O*|
.O * B+*|
S .. o.=B|
..O. +|
+. .|
. |
+-----[SHA256]-----+
PS C:\Windows\System32\WindowsPowerShell\v1.0>
```

Nombre	Fecha de modificación	Tipo	Tamaño
id_rsa	08/01/2025 14:44	Archivo	4 KB
id_rsa	08/01/2025 14:44	Microsoft Publish...	1 KB
known_hosts	08/01/2025 14:25	Archivo	1 KB

```

eu@rubenrf: ~
Windows PowerShell
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS C:\Windows\System32\WindowsPowerShell\v1.0> ssh eu@192.168.56.103
eu@192.168.56.103's password:
Welcome to Ubuntu 24.04.1 LTS (GNU/Linux 6.8.0-49-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/pro

O mantemento de seguranza ampliado para Applications non está activado.

É posíbel aplicar 104 actualizacións inmediatamente.
49 destas actualizacións son actualizacións de seguranza normais.
Para consultar estas actualizacións adicionais execute: apt list --upgradable

Active ESM Apps para recibir futuras actualizacións de seguranza adicionais.
Consulte https://ubuntu.com/esm ou execute: sudo pro status.

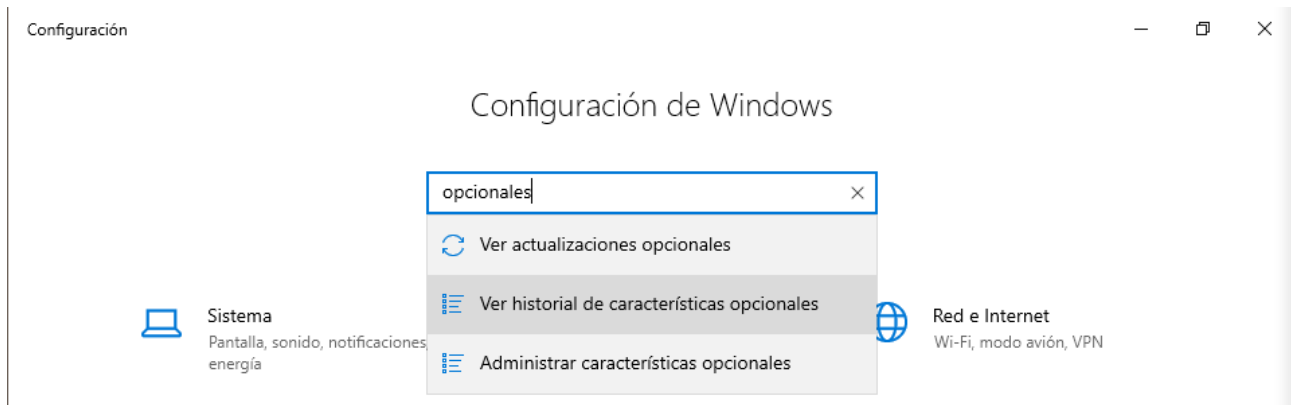
*** É necesario reiniciar o sistema ***
Last login: Wed Jan  8 14:25:56 2025 from 192.168.56.1
eu@rubenrf:~$ mkdir -p ~/.ssh
eu@rubenrf:~$ echo "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAC9wcfSQETjLYZzGsv6KoFrJCVl64pDG5/j8g3kjwoV6XGQTntEsxvIUBSh0
tpLqqbXgvYaCa+8LYAZGdTUN7raVh1BRqHjU8YrBHdfqTJ/wiaYQTM9HYa7nyR6d1MBUzVk75axr0xHGK8Ll6az6j1f1kk42spYYFmSWqSqCNLUhmSD9u
tqblid+13ov3XFIIogIJNqnQqhI4XRyHkOr0TRioJJmHk6gfZzso4AFAn6vGwPHA7o3W2pS4NoZbTbUxAvnCQX8BRVVJYKoDr57Q5iLLb7pzxEpPDdgkI
GrcOY1WgPUPKoDyIBTOQgNwUnJ4AQcQiI+SuVmHdjWipSmAMU5yFntZGkPivPeD/kNCIdB+w+zhg5gxv6sdjBKQVG1E+dyMULHPUKGTtE1SRrS3PH3M8u
O9LvY5SSDwmShm5IHFEMsQ+AwDBBgEuJGs1gqZUuQpOMX1QUH8M00Ymi/1Cec5k9PsurSD6SwTh2EMXKztTW8eaTAGMz5ynLzLvqzn3NRpji4FxG4qw+
YgbLaa7SFS+Z1hGjfur7HpqBXhAbJ7k5Vp08tBBM8Elq1IB+d2SyUp+w933jxqT26Cqvxt3I7JKKHUKB+zB5nDMzspo/J0Mo3z1i3Wp4C+GzIPOOrHVag
IEtT6CUl0y9oktKrmBgeN2sZ1YwuPzAqEucJuXrQ== red_alumnos\rubenrf@A32EQ15" >> ~/.ssh/authorized_keys
eu@rubenrf:~$ chmod 600 ~/.ssh/authorized_keys
eu@rubenrf:~$ chmod 700 ~/.ssh
eu@rubenrf:~$

```

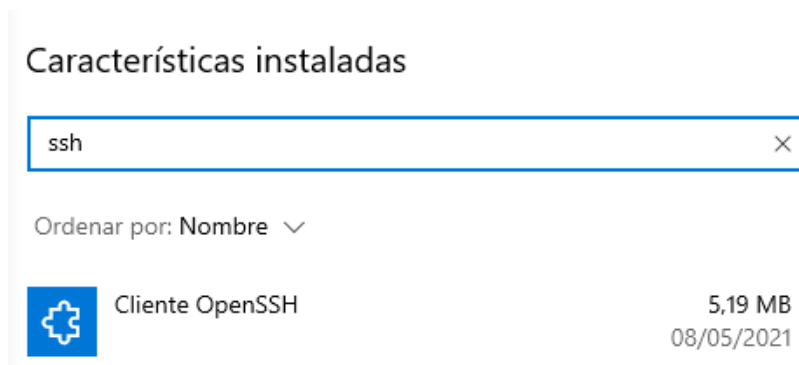
## 2.2. Cliente OpenSSH en Windows

Indica os pasos a seguir para instalar un cliente de OpenSSH en Windows. Acompañaa cun algunha captura de pantalla.

Configuración:

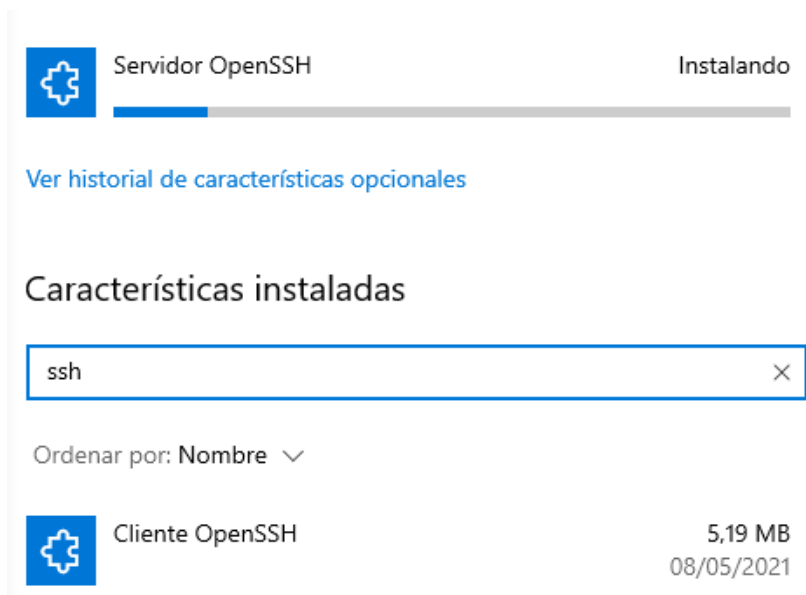


Dentro de características opcionales se puede descargar el cliente ssh



## 2.3. Servidor OpenSSH en Windows

Indica os pasos a seguir para instalar un servidor de OpenSSH en Windows. Logo conéctate dende un cliente OpenSSH – en GNU/Linux ou en Windows – para comprobar que é funcional. Acompaña a explicación de capturas de pantalla.



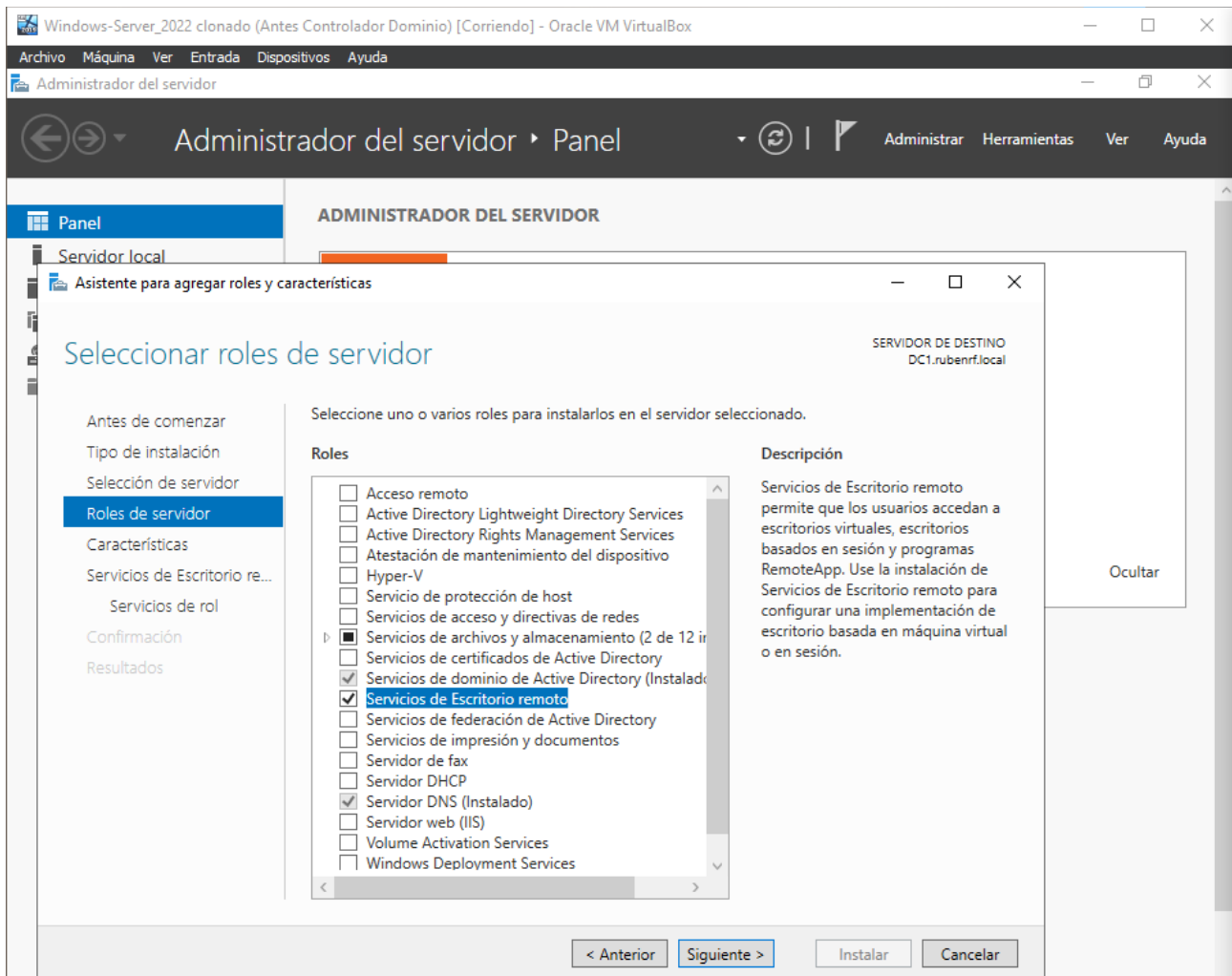
No me descarga , se queda trabado

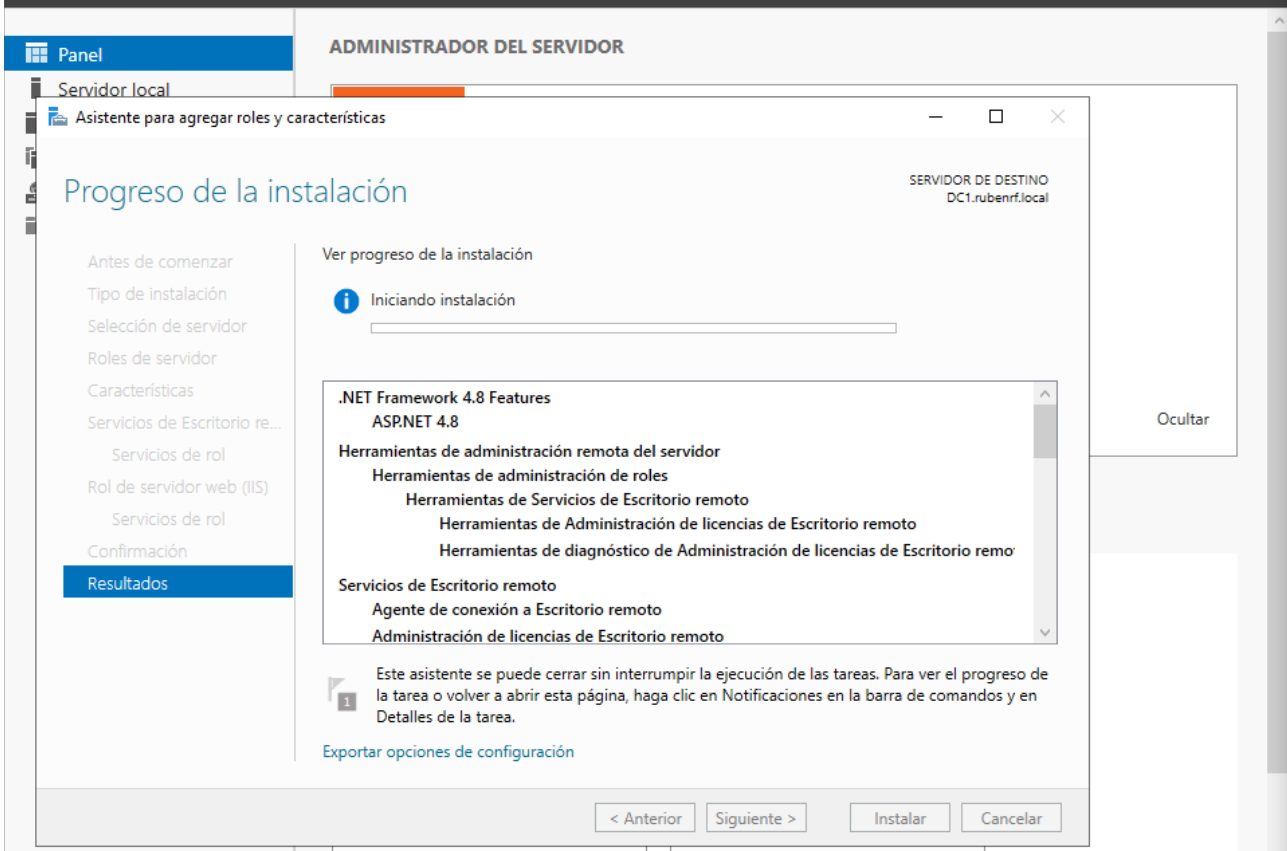
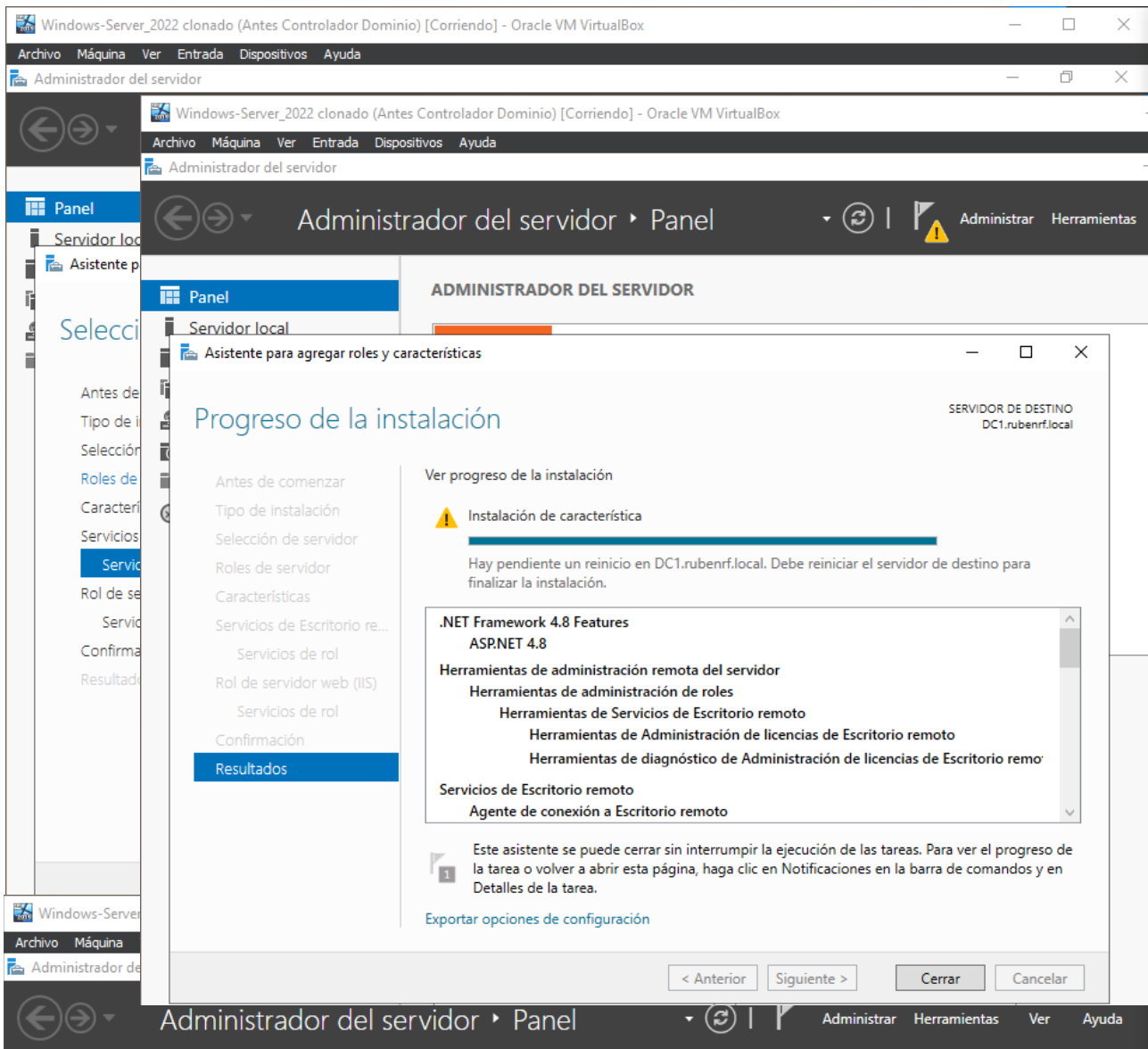
Intenté descargarlo por código también en powershell pero el resultado es el mismo



## Tarefa 3. RDS Windows

Indica os pasos as seguir, para instalar o RDS nun Windows Server, incluíndo o rol de RemoteApp. Unha vez feito, instalar no servidor Notepad++, e continuación configurar e distribuír a aplicación dentro das dispoñibles en RemoteApps. Logo, dende un cliente, a través do navegador web, executar esa aplicación de forma remota no servidor configurado.





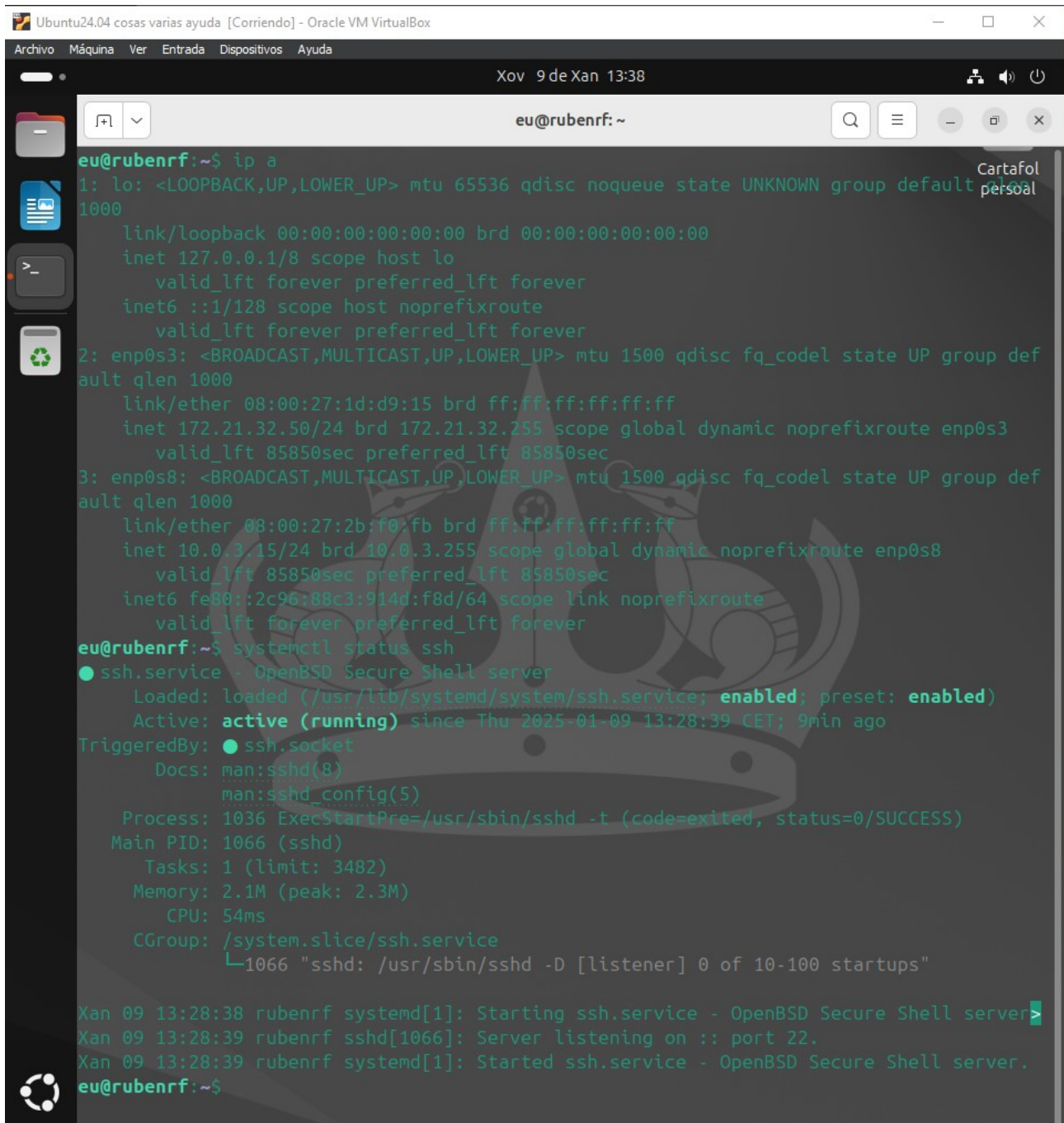


## Tarefa 4. SSH Tunneling

Reproduce os pasos seguidos no seguinte artigo para establecer unha conexión SSH Tunneling:

<https://www.redeszone.net/tutoriales/servidores/ssh-tunneling/>

Acompaña a explicación con capturas de pantalla do teu propio equipo e máquinas virtuais.



The screenshot shows a terminal window titled "Ubuntu24.04 cosas varias ayuda [Corriendo] - Oracle VM VirtualBox". The terminal output is as follows:

```
eu@rubenrf:~$ ip a
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 noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:1d:d9:15 brd ff:ff:ff:ff:ff:ff
    inet 172.21.32.50/24 brd 172.21.32.255 scope global dynamic noprefixroute enp0s3
        valid_lft 85850sec preferred_lft 85850sec
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:2b:f0:fb brd ff:ff:ff:ff:ff:ff
    inet 10.0.3.15/24 brd 10.0.3.255 scope global dynamic noprefixroute enp0s8
        valid_lft 85850sec preferred_lft 85850sec
    inet6 fe80::2c96:88c3:914d:f8d/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
eu@rubenrf:~$ systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/usr/lib/systemd/system/ssh.service; enabled; preset: enabled)
   Active: active (running) since Thu 2025-01-09 13:28:39 CET; 9min ago
 TriggeredBy: ● ssh.socket
    Docs: man:sshd(8)
          man:sshd_config(5)
   Process: 1036 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
   Main PID: 1066 (sshd)
     Tasks: 1 (limit: 3482)
    Memory: 2.1M (peak: 2.3M)
       CPU: 54ms
    CGroup: /system.slice/ssh.service
            └─1066 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Xan 09 13:28:38 rubenrf systemd[1]: Starting ssh.service - OpenBSD Secure Shell server.
Xan 09 13:28:39 rubenrf sshd[1066]: Server listening on :: port 22.
Xan 09 13:28:39 rubenrf systemd[1]: Started ssh.service - OpenBSD Secure Shell server.
eu@rubenrf:~$
```

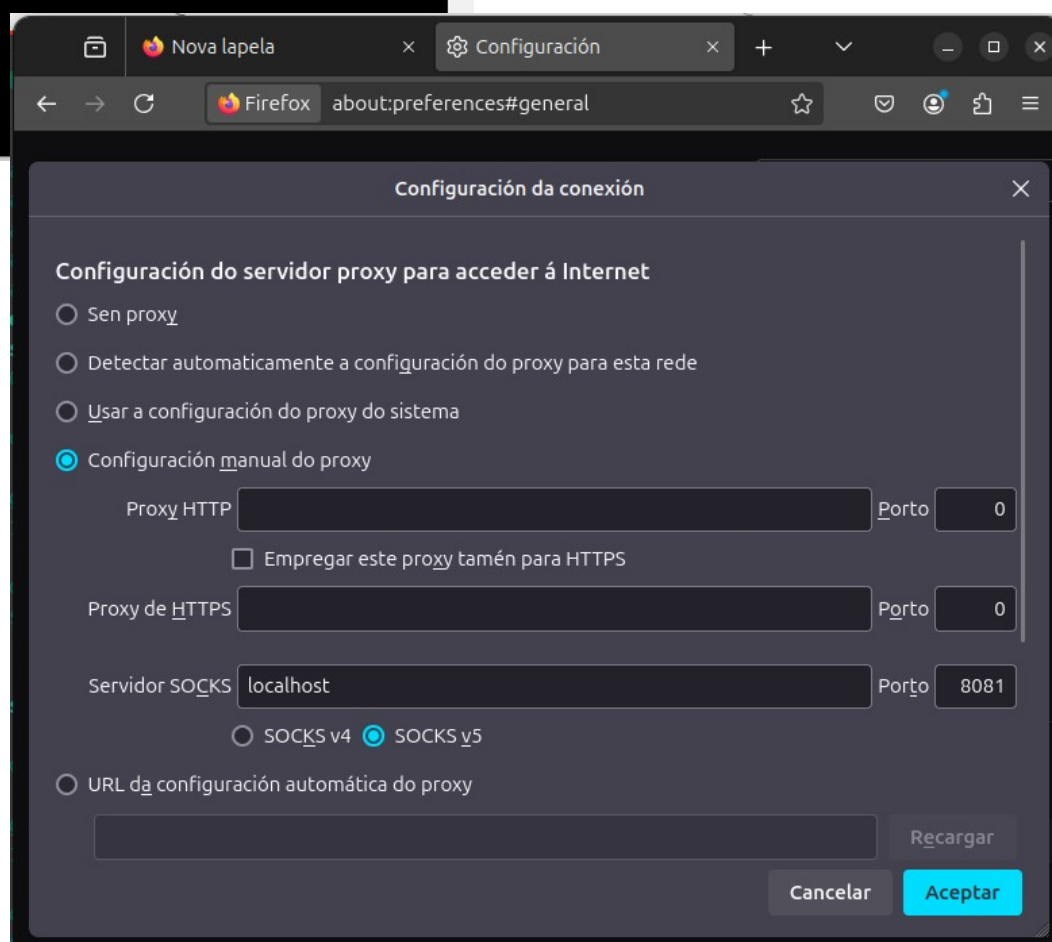
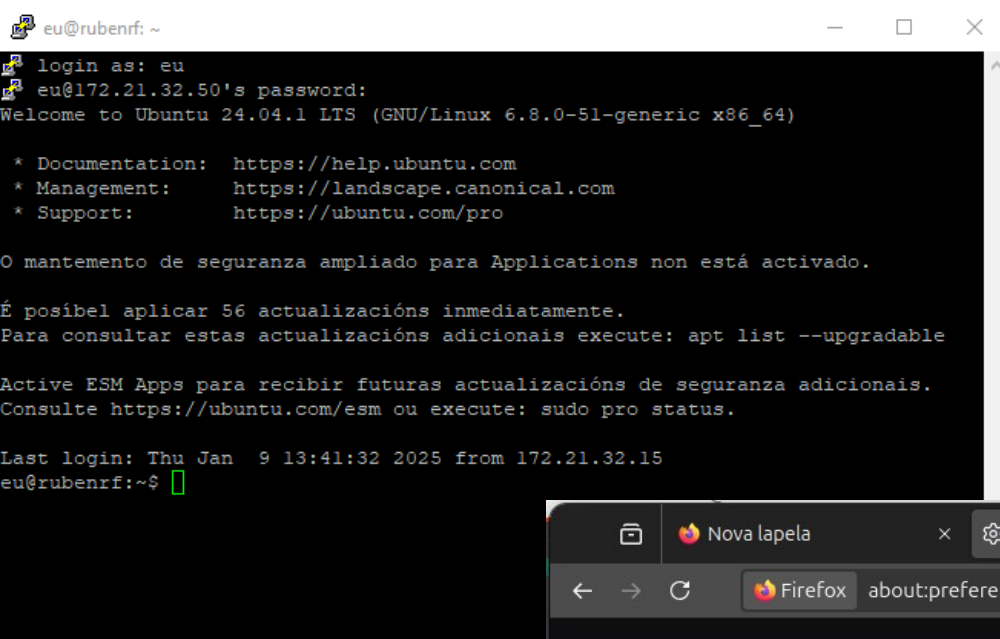
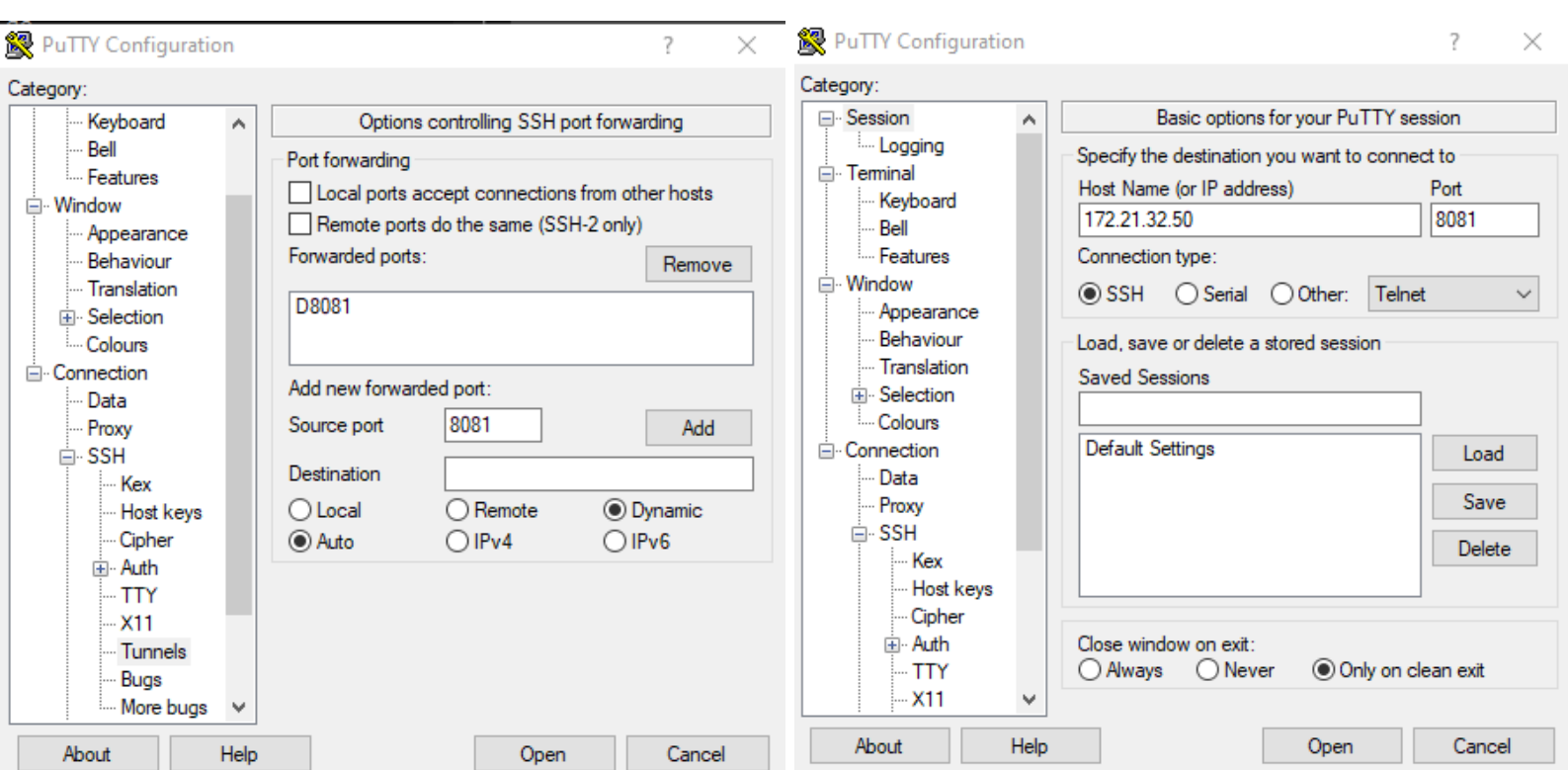
```
Ubuntu24.04 cosas varias ayuda [Corriendo] - Oracle VM VirtualBox
Archivo Máquina Ver Entrada Dispositivos Ayuda
Xov 9 de Xan 13:41
eu@rubenrf: ~
eu@rubenrf:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group def
    link/ether 08:00:27:1d:d9:15 brd ff:ff:ff:ff:ff:ff
    inet 172.21.32.50/24 brd 172.21.32.255 scope global dynamic noprefixroute enp0s3
        valid_lft 85774sec preferred_lft 85774sec
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group def
    link/ether 08:00:27:2b:f0:fb brd ff:ff:ff:ff:ff:ff
    inet 10.0.3.15/24 brd 10.0.3.255 scope global dynamic noprefixroute enp0s8
        valid_lft 85774sec preferred_lft 85774sec
    inet6 fe80::2c96:88c3:914d:f8d/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
```

```
GNU nano 7.2 /etc/ssh/sshd_config *
#AllowAgentForwarding yes
AllowTcpForwarding yes
#GatewayPorts no
X11Forwarding yes
#X11DisplayOffset 10
#X11UseLocalhost yes
#PermitTTY yes
PrintMotd no
#PrintLastLog yes

eu@rubenrf:~$ sudo nano /etc/ssh/sshd_config
eu@rubenrf:~$ service ssh restart
eu@rubenrf:~$
```

```
eu@rubenrf:~$ sudo sysctl net.ipv4.ip_forward=1
net.ipv4.ip_forward = 1
eu@rubenrf:~$ service ssh restart
eu@rubenrf:~$
```





## Tarefa 5. VPN

Bótalle unha ollada ao seguinte artigo:

<https://www.tecmint.com/setup-ipsec-vpn-with-strongswan-on-debian-ubuntu/>

Sen necesidade de instalar (se o desexas, tamén podes tentar facer os pasos de instalación e configuración en máquinas reais ou virtuais), explica os pasos seguidos indicando no artigo, indicando claramente que se fai en cada punto: para que se fai, que se está configurado, con que obxectivos, etc.

Para montar la VPN IPSec, primero activamos el reenvío de paquetes en el archivo `/etc/sysctl.conf`, desactivamos redirecciones ICMP, y aplicamos con `sysctl -p`. Si usamos UFW, editamos `/etc/ufw/before.rules` con las reglas necesarias y reiniciamos con `ufw disable` y `ufw enable`. Instalamos strongSwan con `apt install strongswan` y configuramos los gateways en `/etc/ipsec.conf` según las IP y subredes.

Después generamos una clave compartida (PSK) en ambos gateways y la añadimos a `/etc/ipsec.secrets`. Reiniciamos el servicio con `ipsec restart`, verificamos con `ipsec status`, y probamos la conexión haciendo ping entre dispositivos de las subredes privadas. Si funciona, la VPN IPSec está lista.

## Tarefa 6. Siglas

Busca e traduce as seguintes siglas **relacionados coa UD**:

	<b>Siglas</b>	<b>Significado</b>	<b>Tradución</b>
1	<b>SSH</b>	Secure Shell	Shell Segura
2	<b>VNC</b>	Virtual Network Computing	Computación en Rede Virtual
3	<b>RDP</b>	Remote Desktop Protocol	Protocolo de Escritorio Remoto
4	<b>NFS</b>	Network File System	Sistema de Arquivos en Rede
5	<b>SMB</b>	Server Message Block	Bloque de Mensaxes do Servidor
6	<b>SSL</b>	Secure Sockets Layer	Capa de Soquetes Seguros
7	<b>VPN</b>	Virtual Private Network	Rede Privada Virtual
8	<b>RDS</b>	Remote Desktop Services	Servizos de Escritorio Remoto