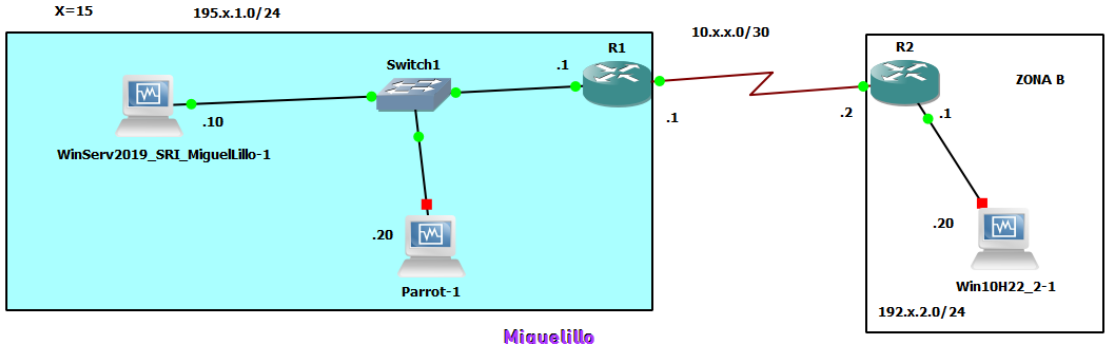
Índice:

Ejercicio 1

a) Protocolo L2TP/IPSEC. Instalación de un servidor VPN en Windows. Acceso desde cliente VPN.

Solución:

Escenario

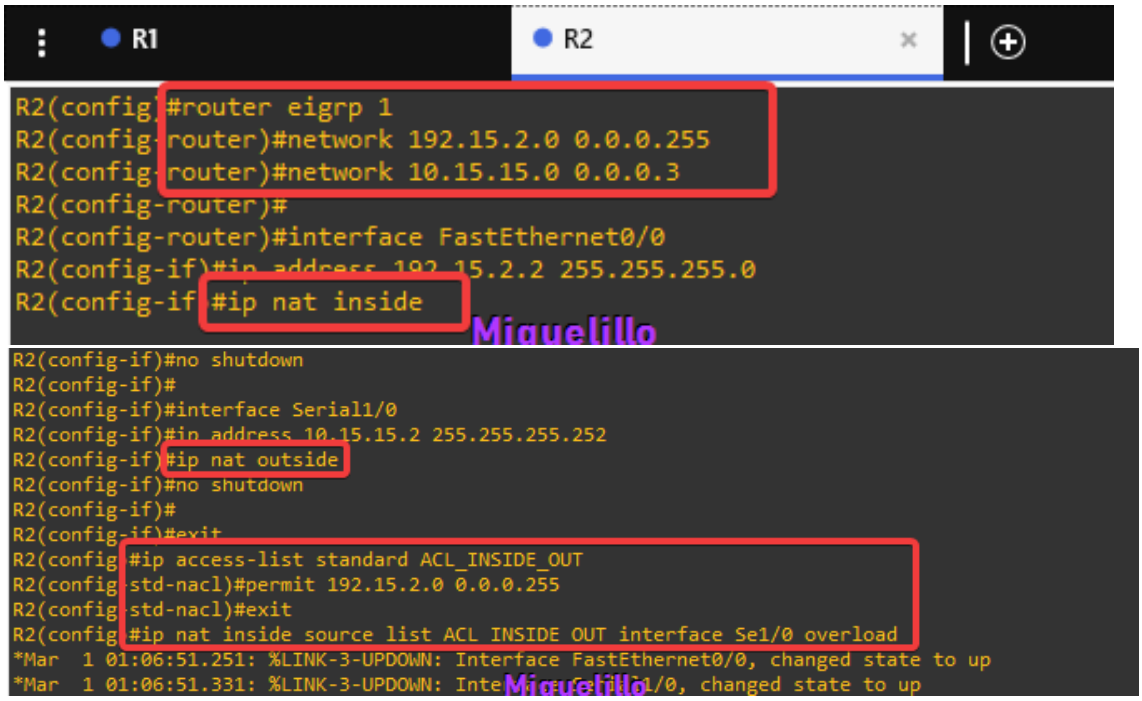


Primero configuramos los enrutamientos entre redes y colocamos un NAT con un renvío de puertos, renviaremos los puertos 1701, 500 y 4500 UDP

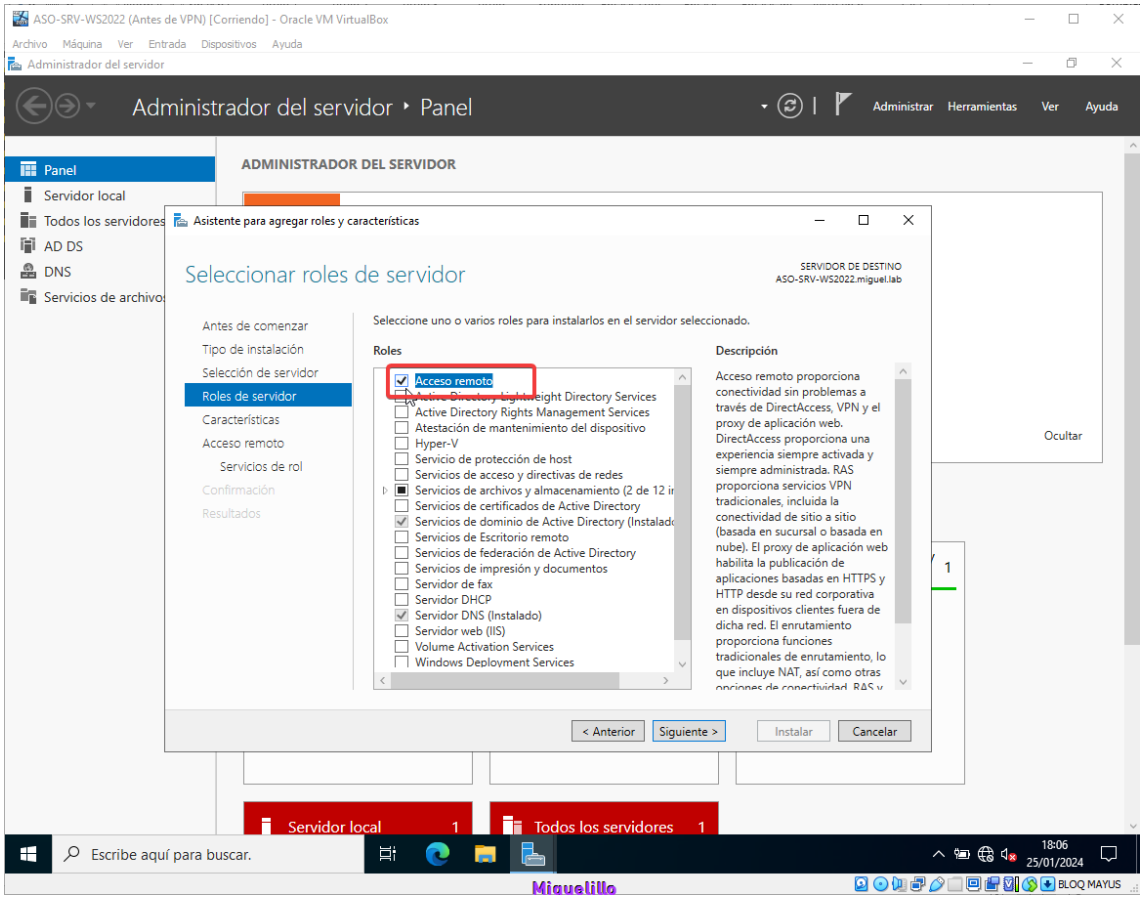
Configuración **R1**

```
R1#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#
R1(config)#router eigrp 1
R1(config-router)#network 195.15.1.0 0.0.0.255
R1(config-router)#network 10.15.15.0 0.0.0.3
R1(config-router)#
R1(config-router)#interface FastEthernet0/0
R1(config-if)#ip address 195.15.1.1 255.255.255.0
R1(config-if)#ip nat inside
Miguelillo
R1(config-if)#interface Serial1/0
R1(config-if)#ip address 10.15.15.1 255.255.255.252
R1(config-if)#ip nat outside
R1(config-if)#no shutdown
R1(config)#ip access-list standard ACL_INSIDE_OUT
R1(config-std-nacl)#permit 195.15.1.0 0.0.0.255
R1(config-std-nacl)#exit
R1(config)#ip nat inside source list ACL_INSIDE_OUT interface Se1/0 overload
R1(config)#$de source static udp 195.15.1.10 1701 10.15.15.1 1701 extendable
R1(config)#$de source static udp 195.15.1.10 500 10.15.15.1 500 extendable
R1(config)#$de source static udp 195.15.1.10 4500 10.15.15.1 4500 extendable
R1(config)#
```

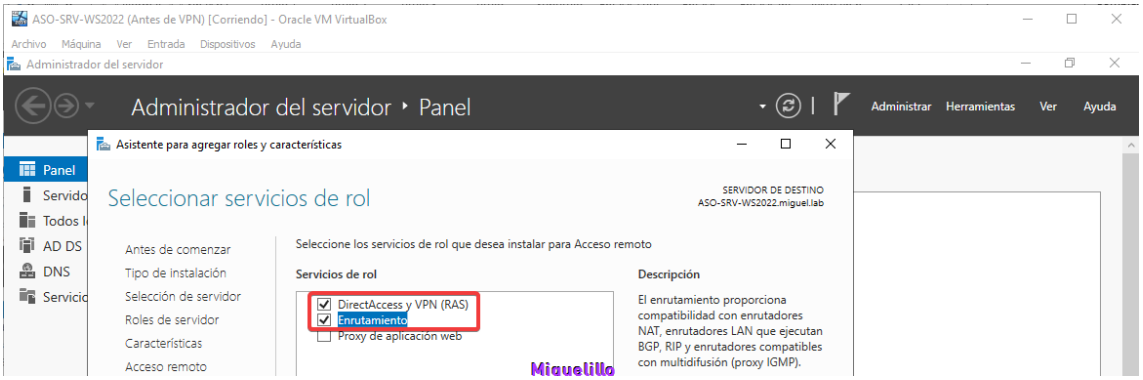
Configuración **R2**



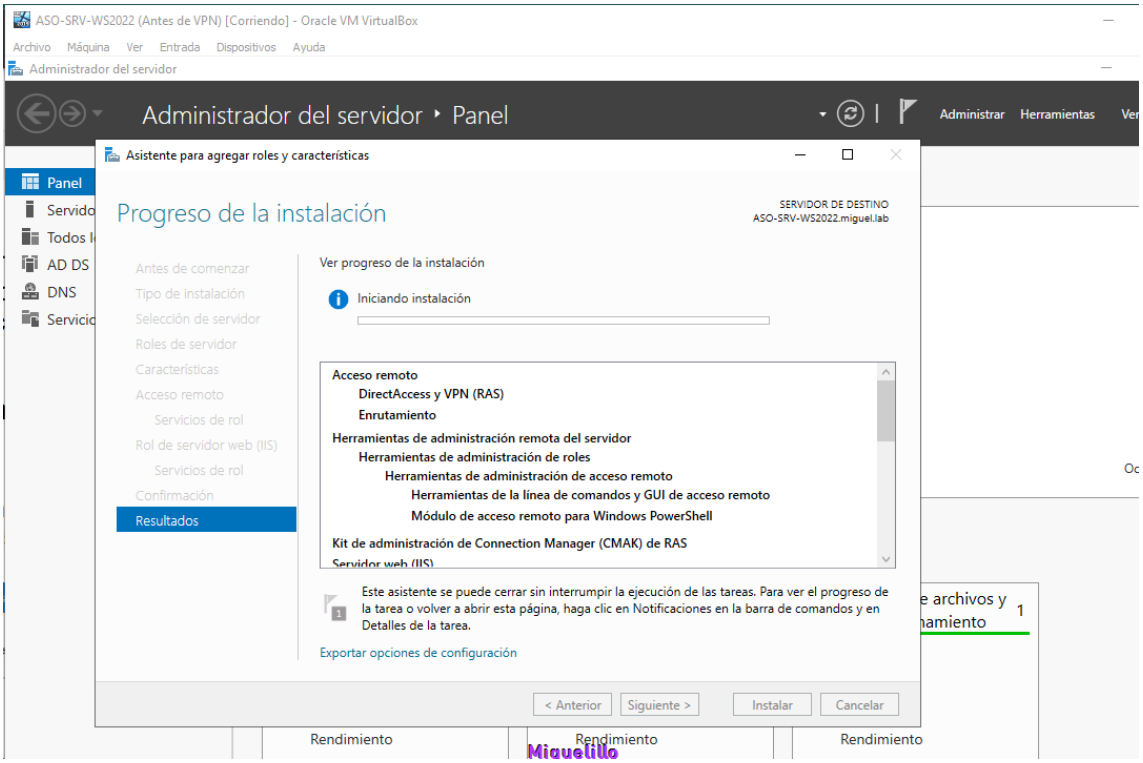
En el servidor vamos a **Administrar → Agregar Roles y Características→ Agregamos el Rol** de **Acceso Remoto**



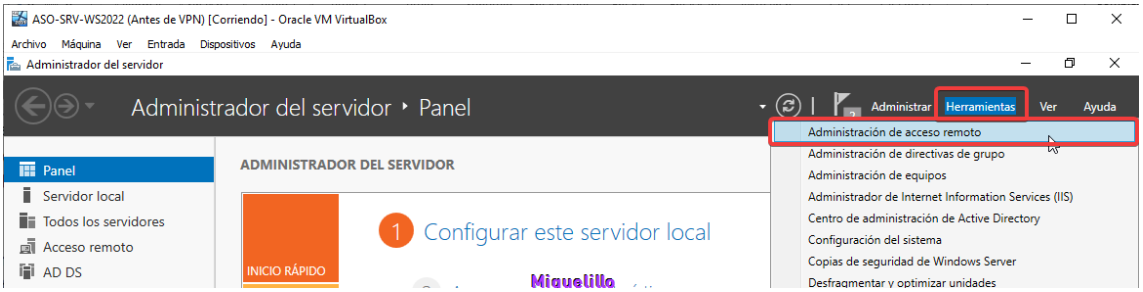
Seleccionamos los servicios del rol



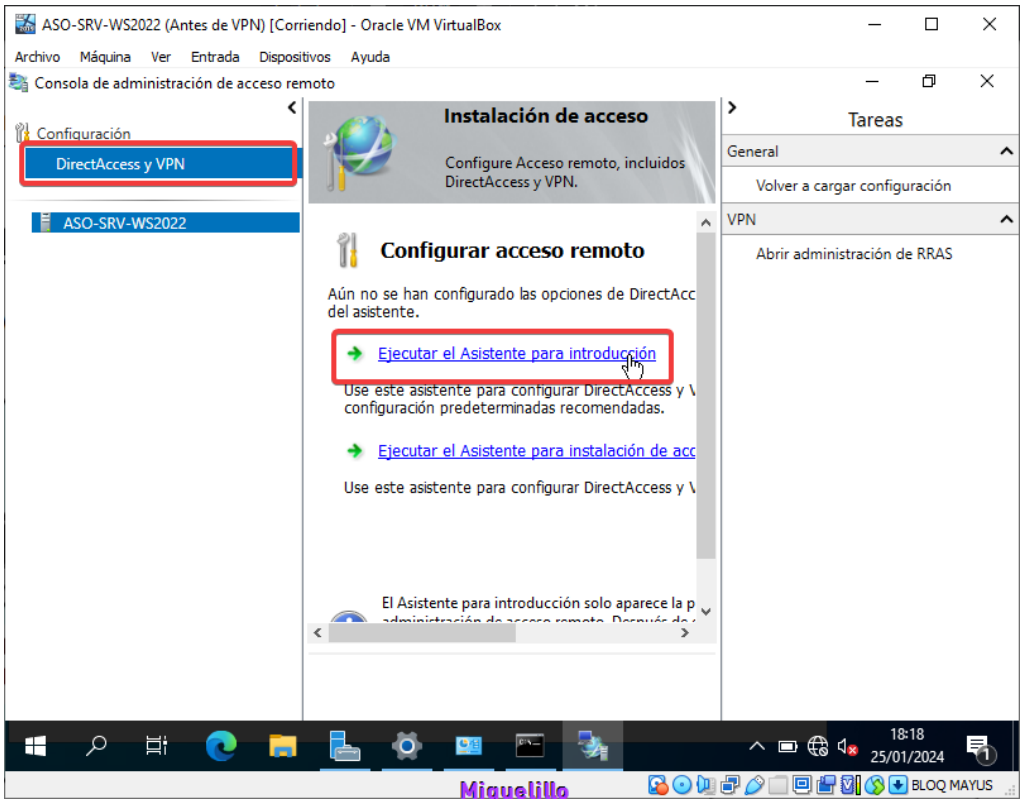
Esperamos a que se instale



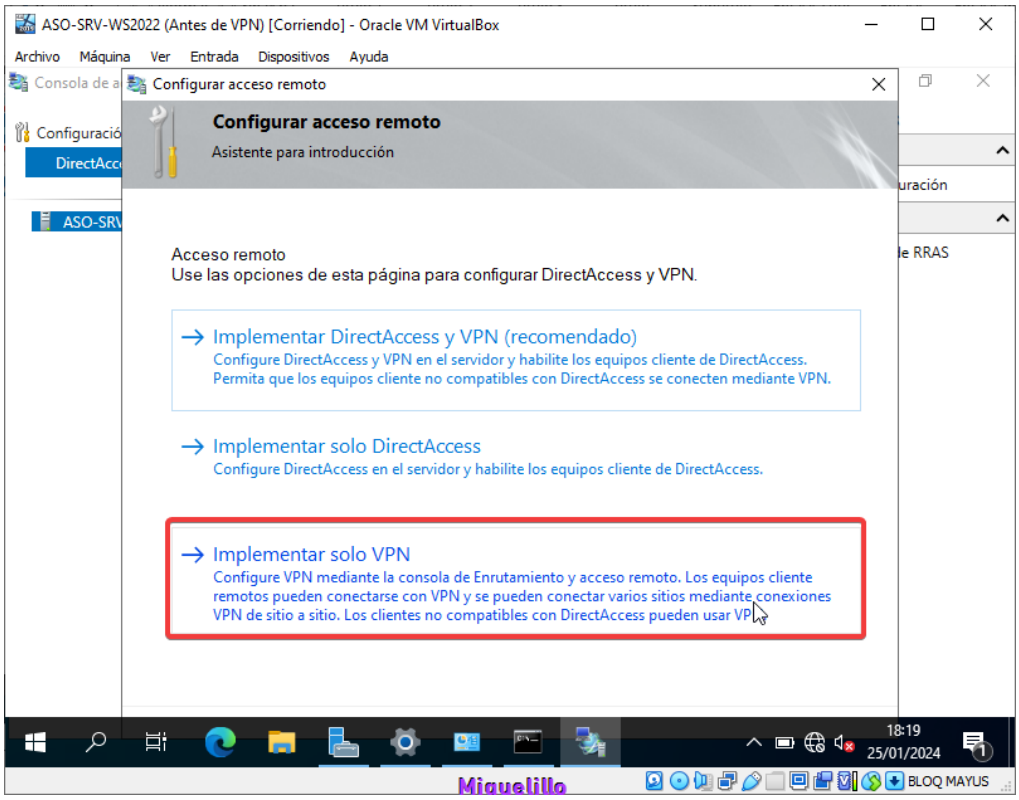
Vamos a **Herramientas → Administración de acceso remoto**



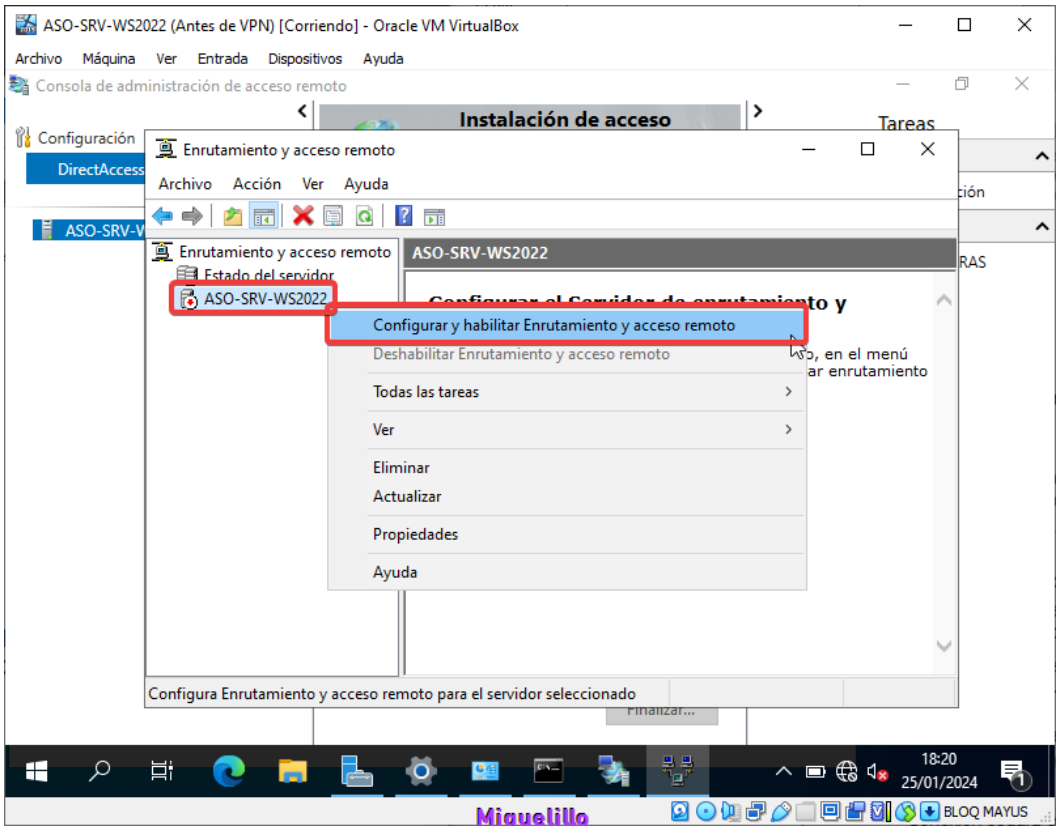
Vamos a **DirectAccess y VPN → Ejecutamos el Asistente para introducción**



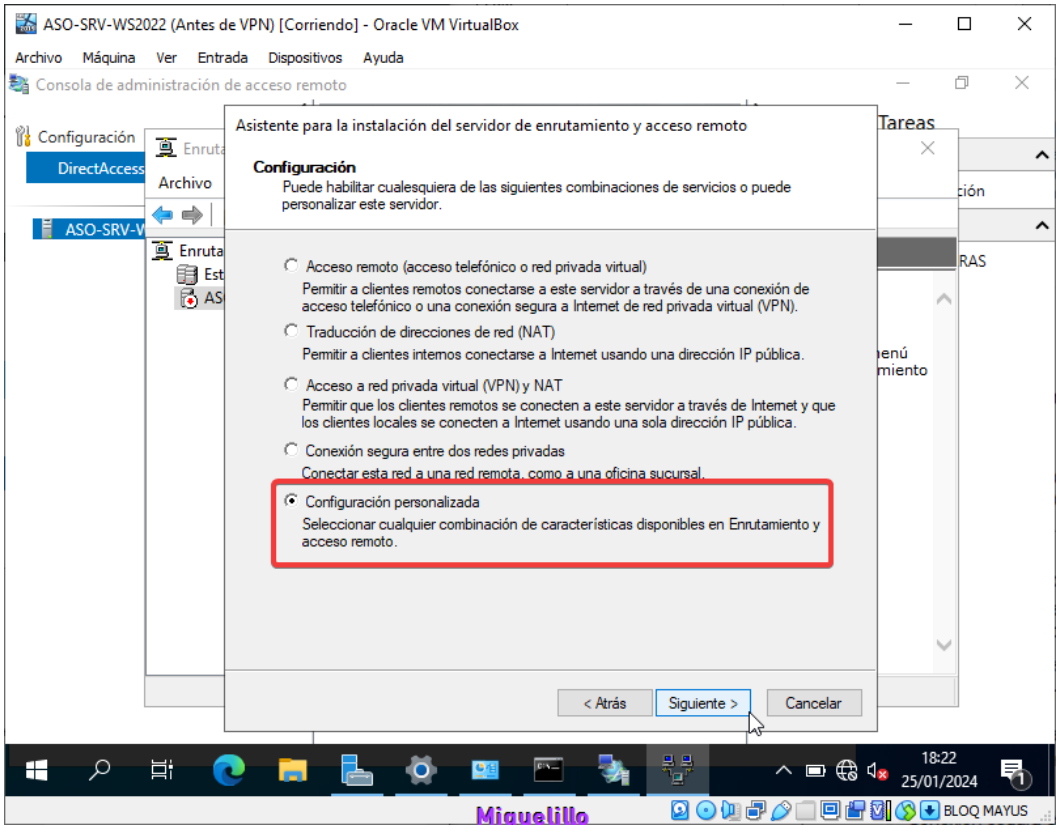
Implementamos solo VPN



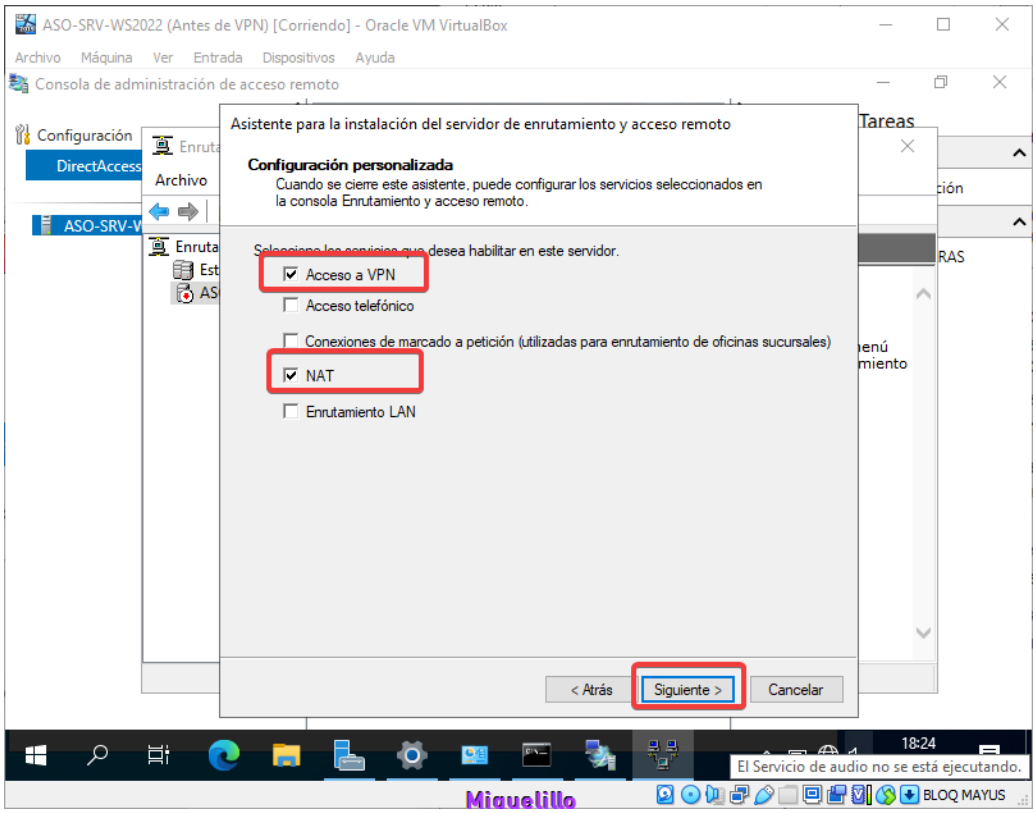
Hacemos clic derecho ene el servidor y clicamso en **Configurar y habilitar Enrutamiento y acceso remoto.**



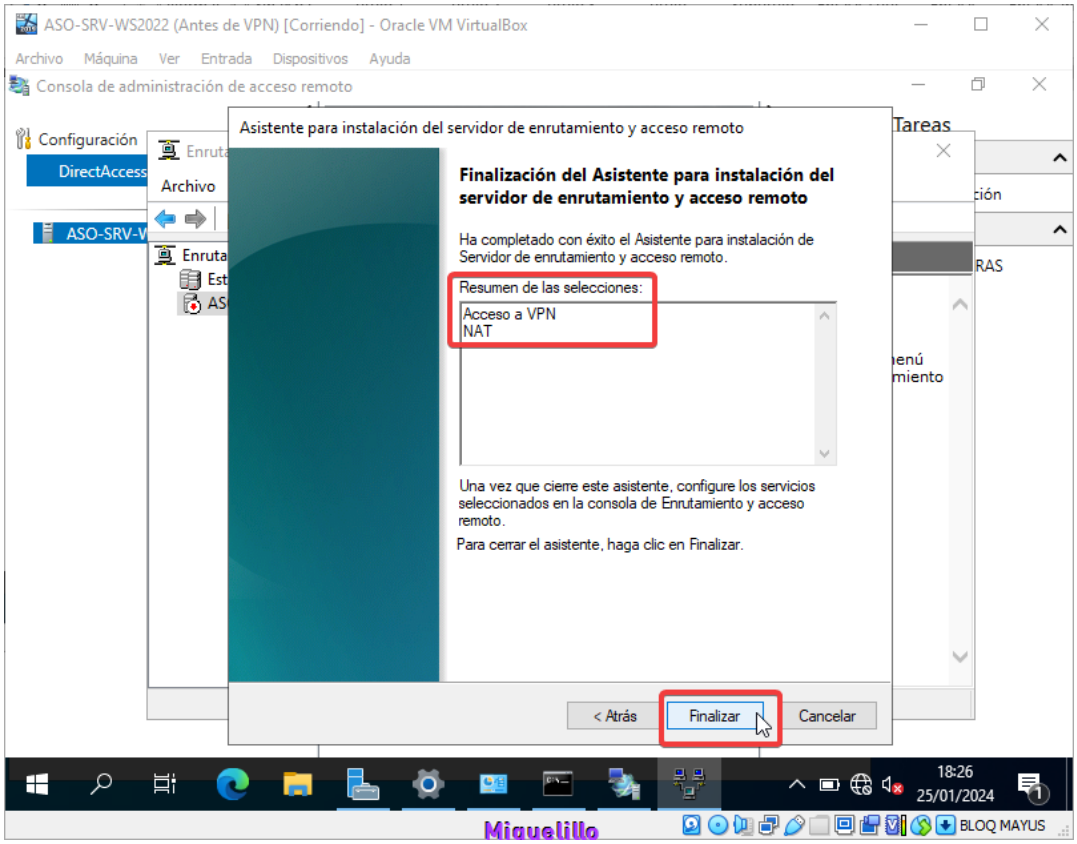
Clicamos en **Configuración personalizada**



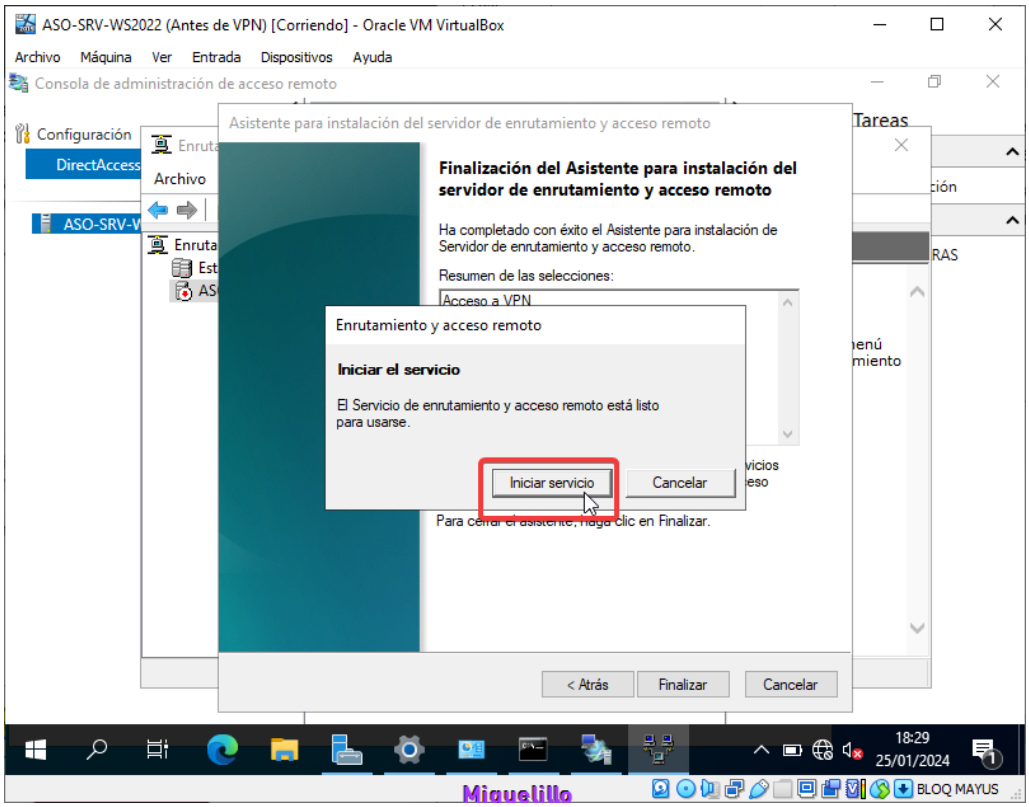
Seleccionamos **NAT** y **Acceso VPN**



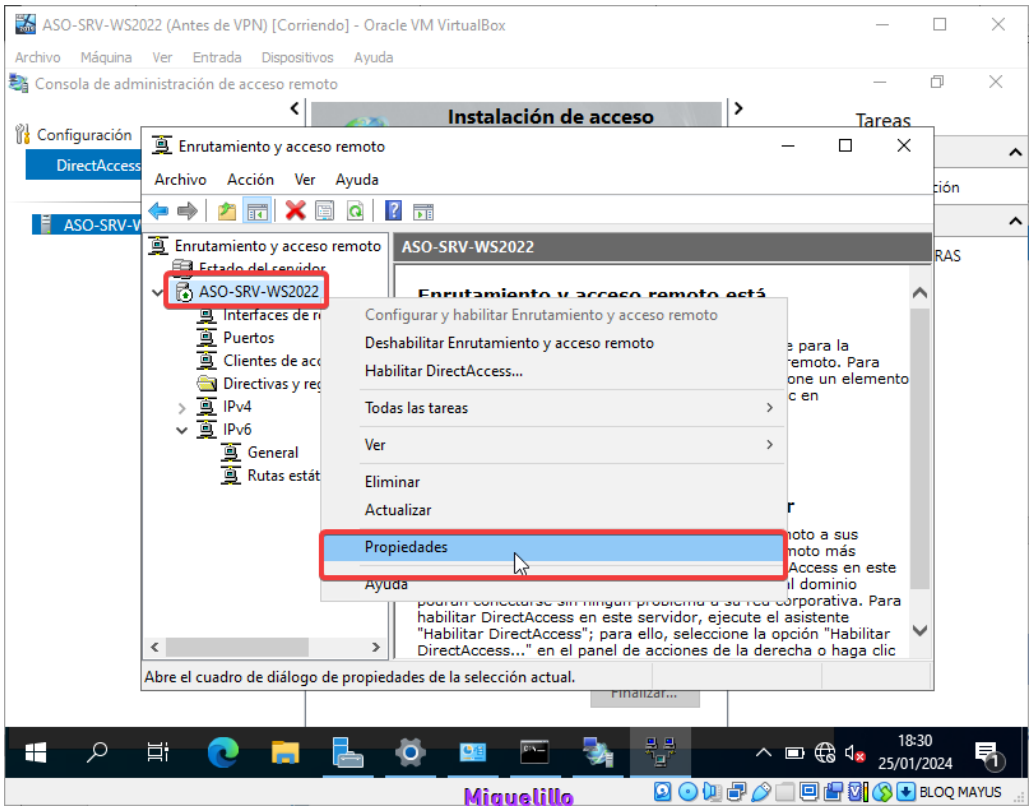
Vemos la configuración y clicamos en **Finalizarn**



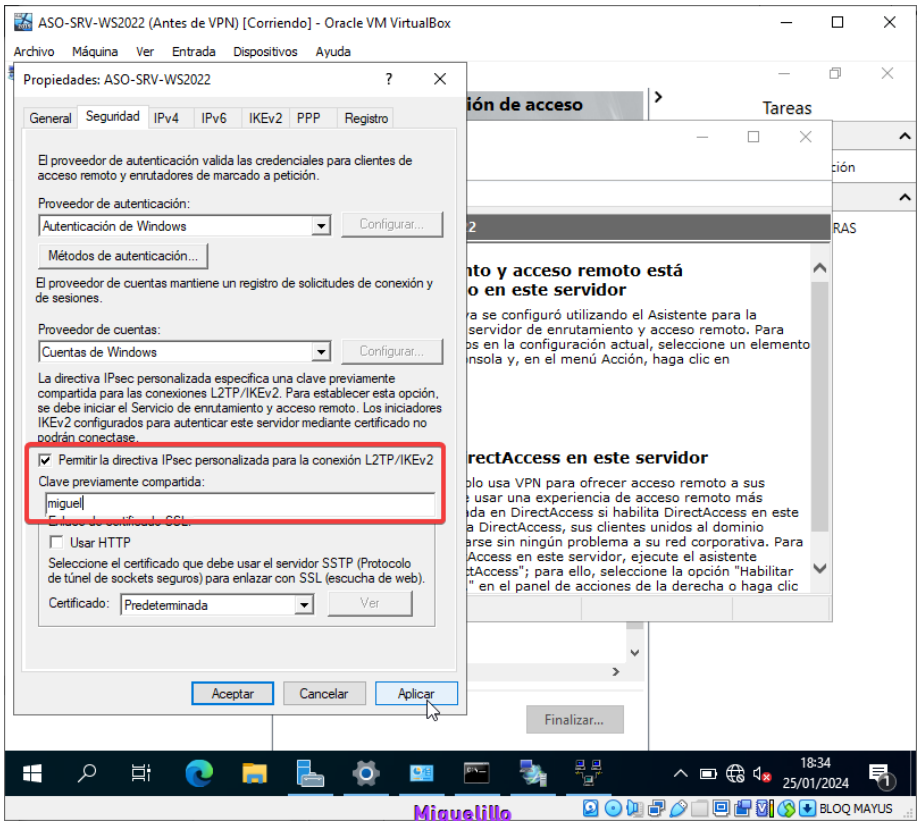
Clicamos en **Iniciar el Servicio**



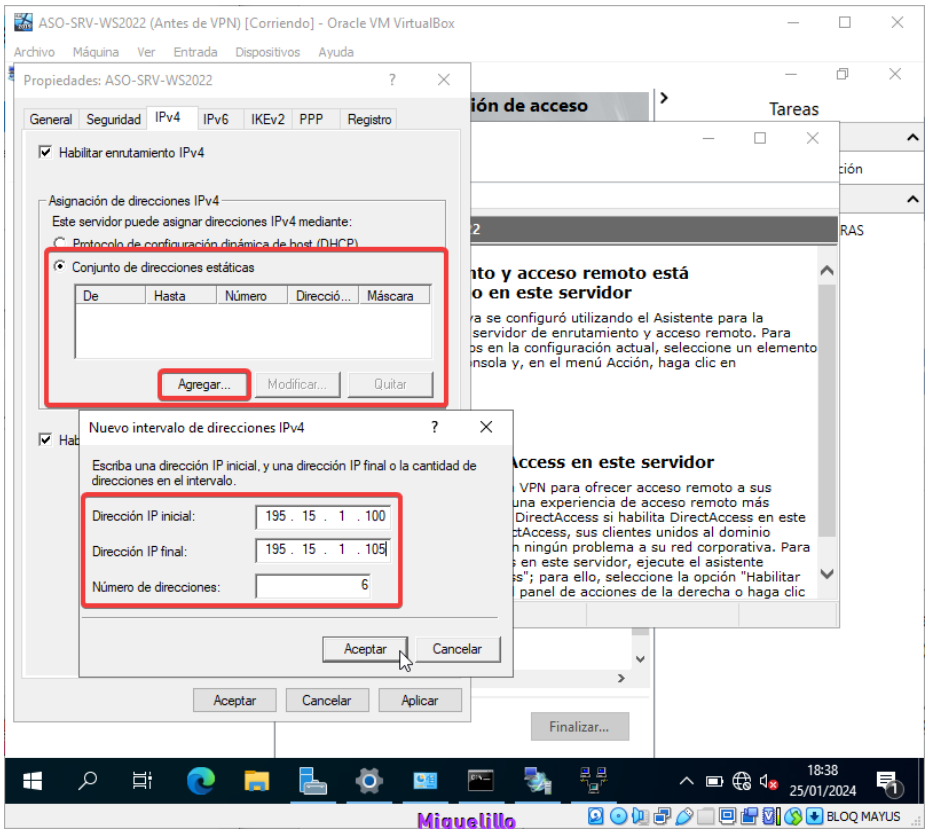
Hacemos clic derecho en el servidor **Propiedades**



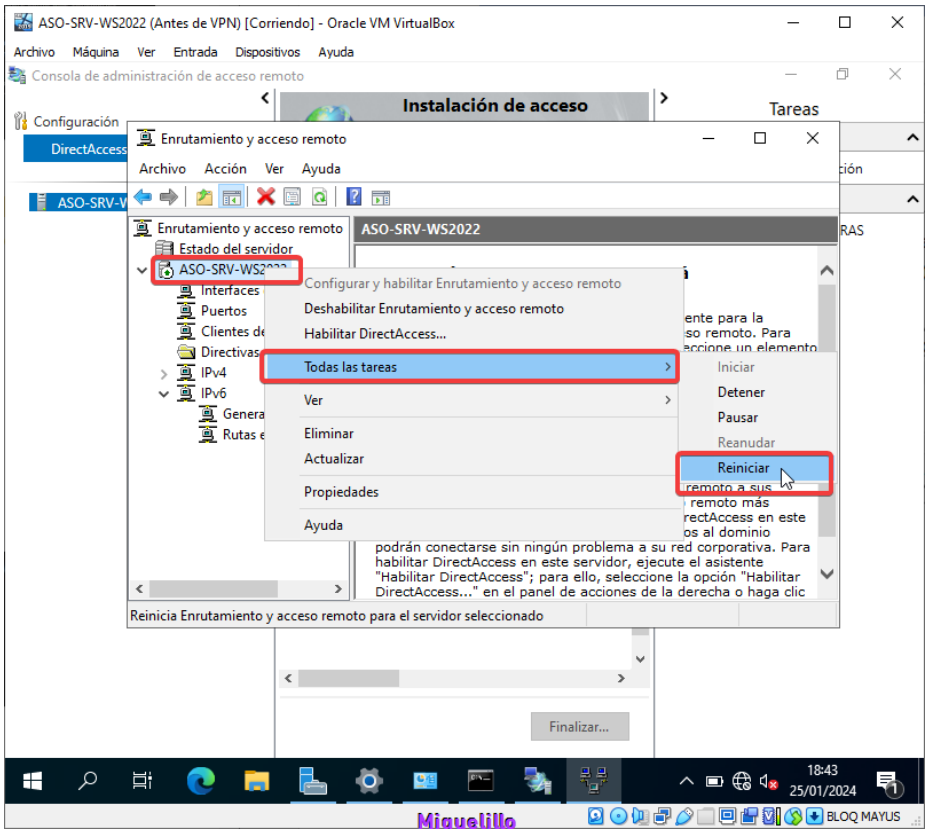
Vamos a **Seguridad** y habilitamos L2TP/IKEv2 y configuramos una clave precompartida



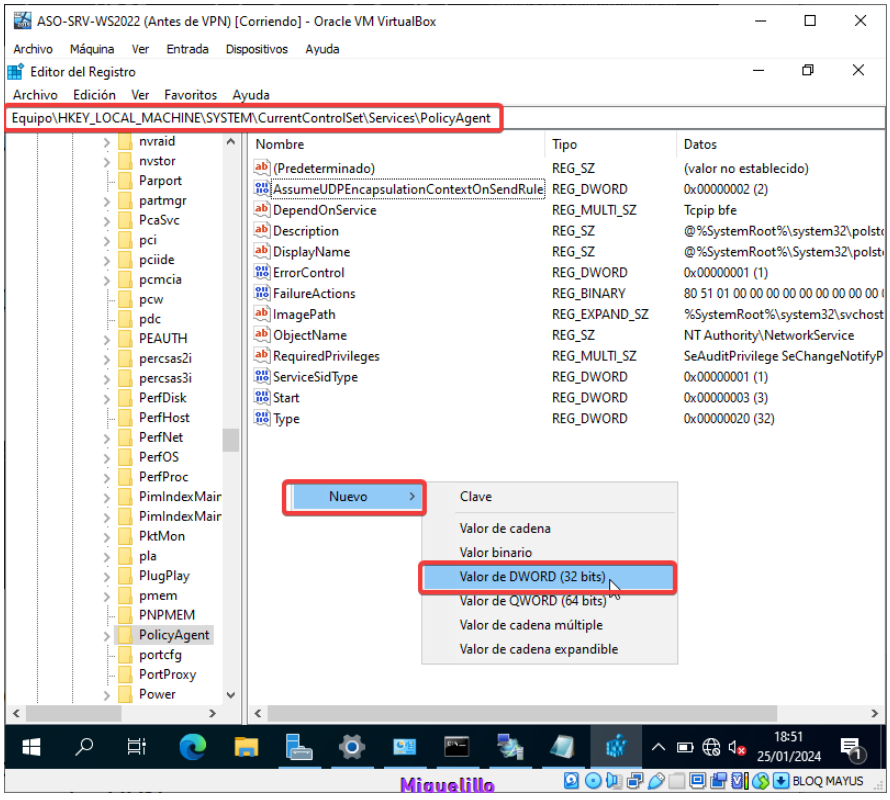
Vamos a IPv4 le asignamos un rango y aplicamos



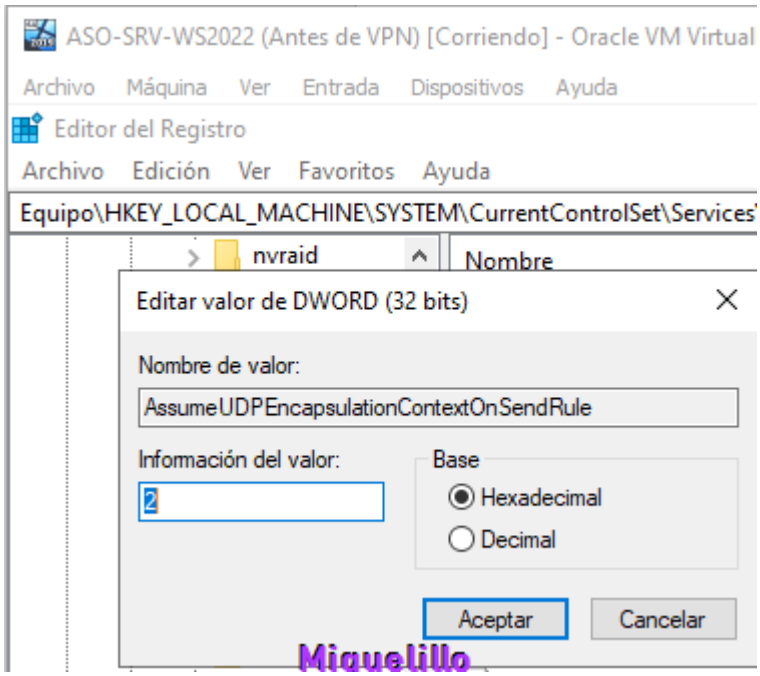
Reiniciamos el servidor



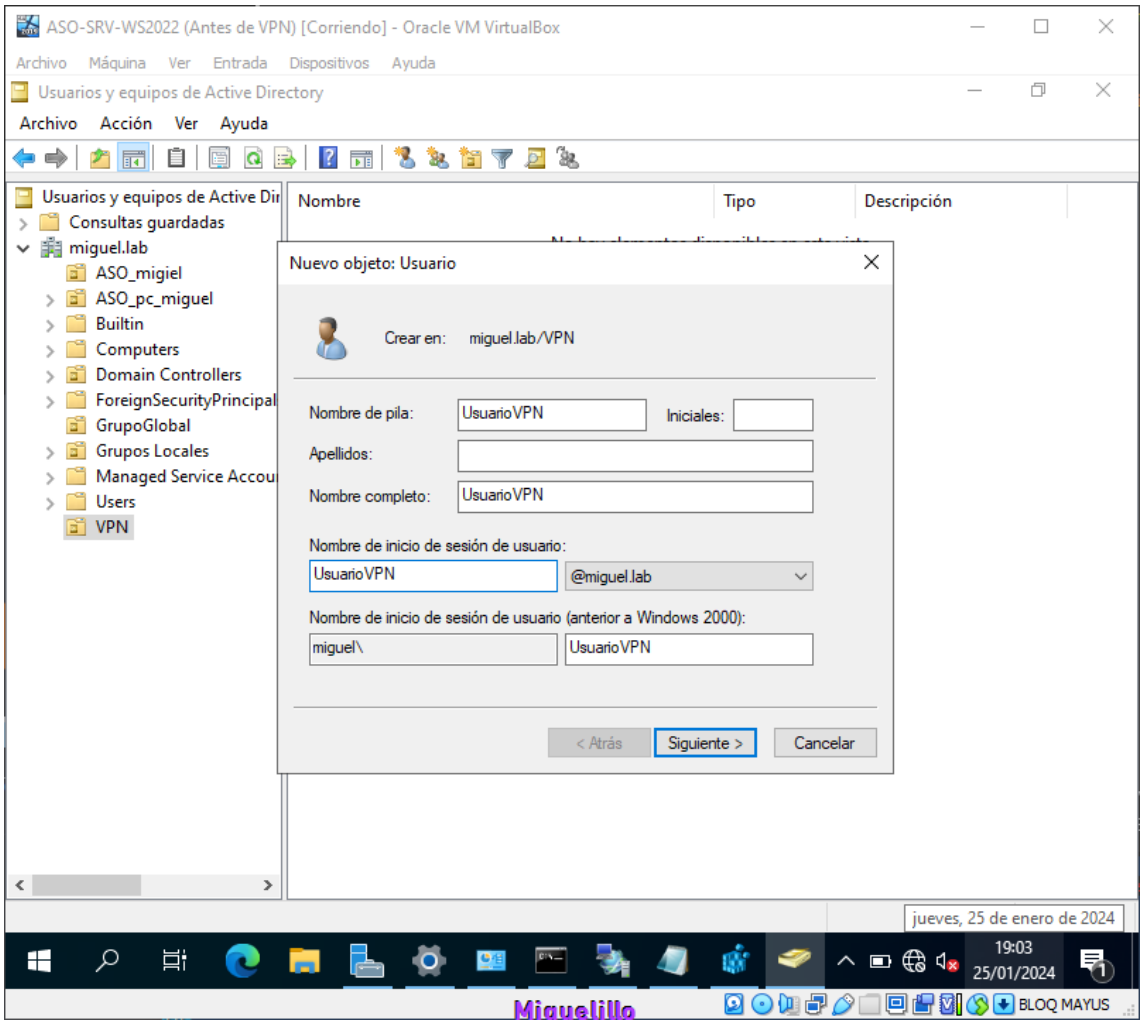
Vamos al **Editor del Registro** → **Equipo\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\PolicyAgent** y creamos un **Valor DWORD (32 bits)**



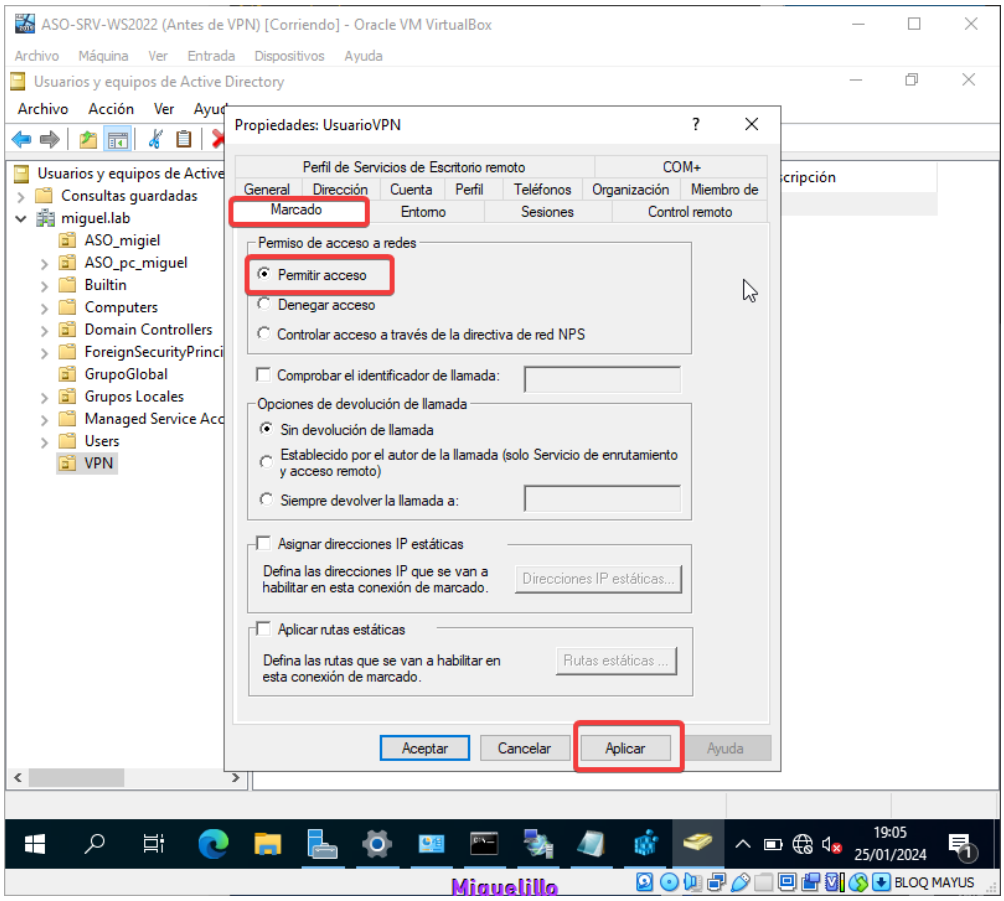
Con esta configuración



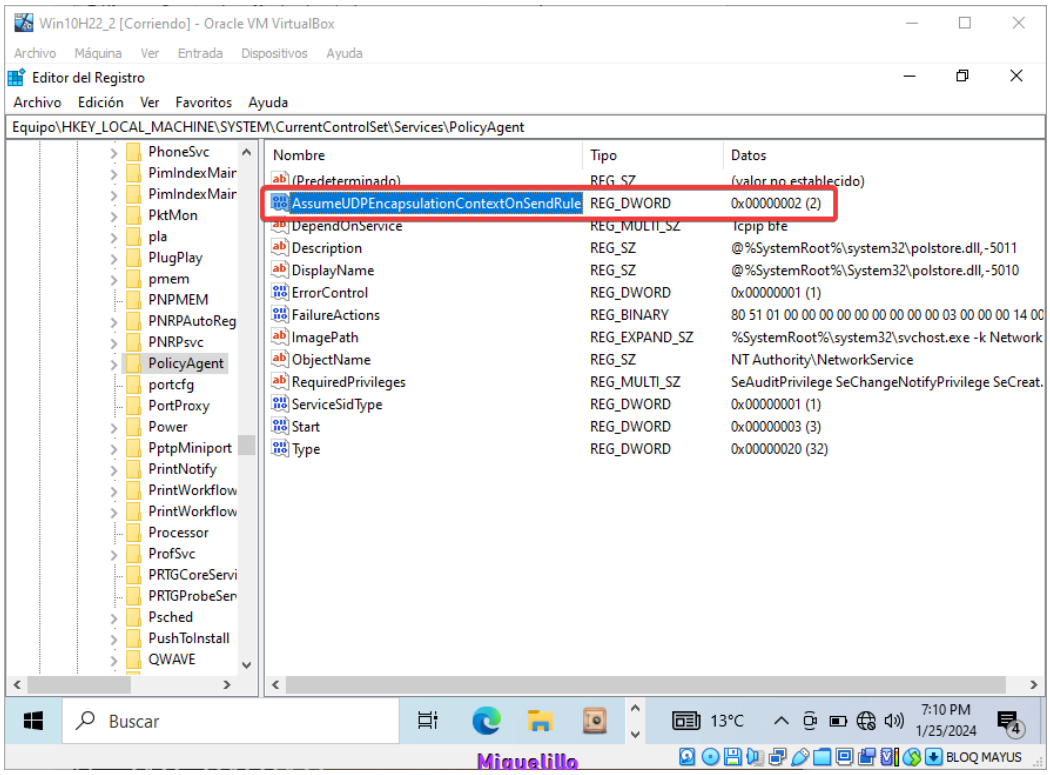
Vamos a **Ususaior y Equipos de Active Directory** y creamos un usuario.

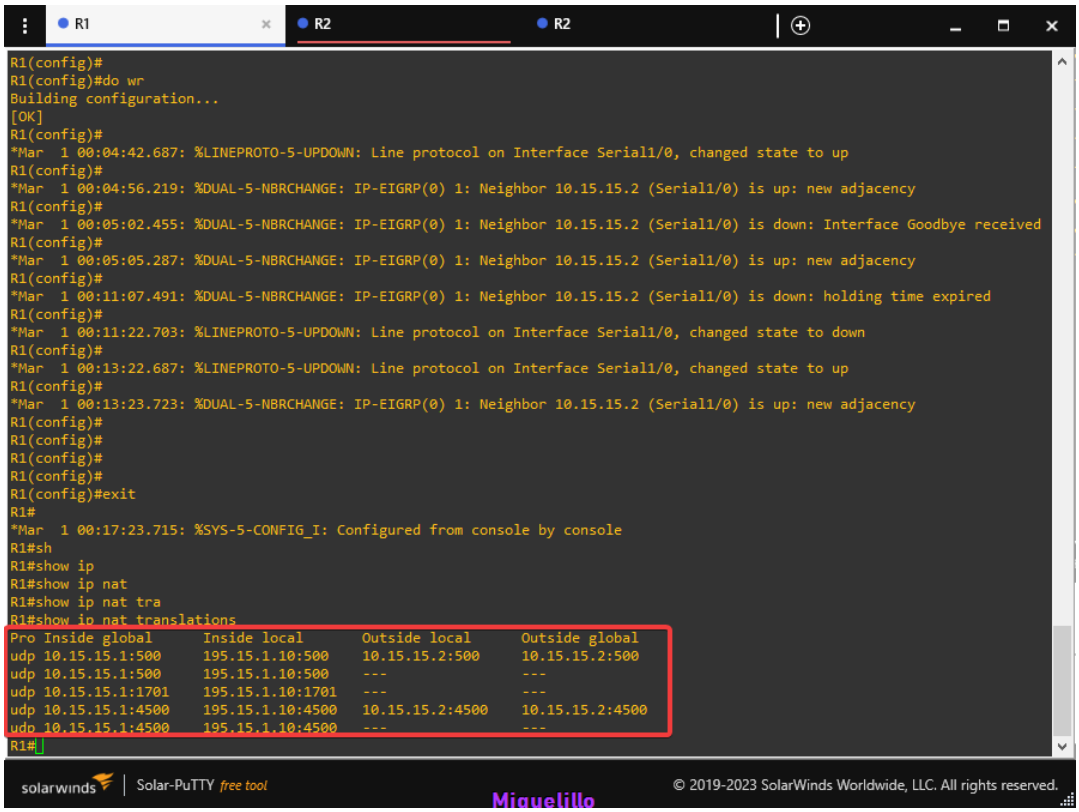


Clicamos en propiedades del usuario **Marcado→Permitir acceso→ Aplicar**

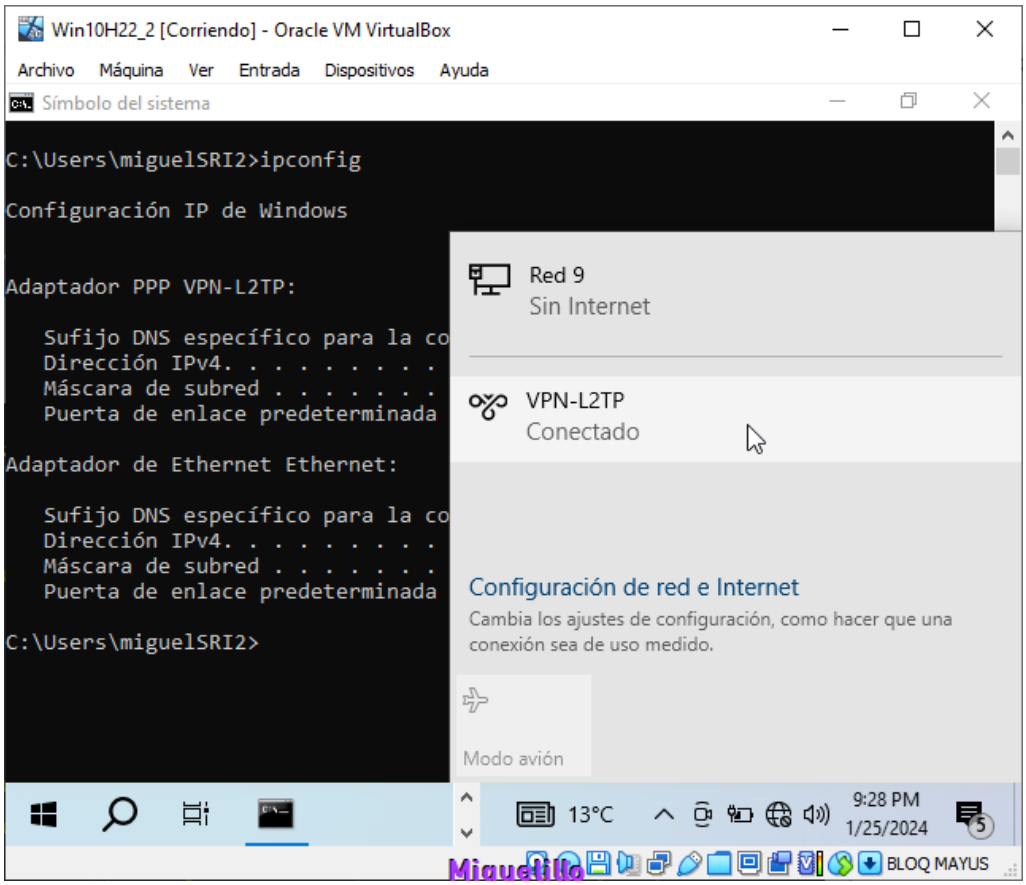


Vamos al cliente y hacemos el registro como el servidor haciendo el editro de registro

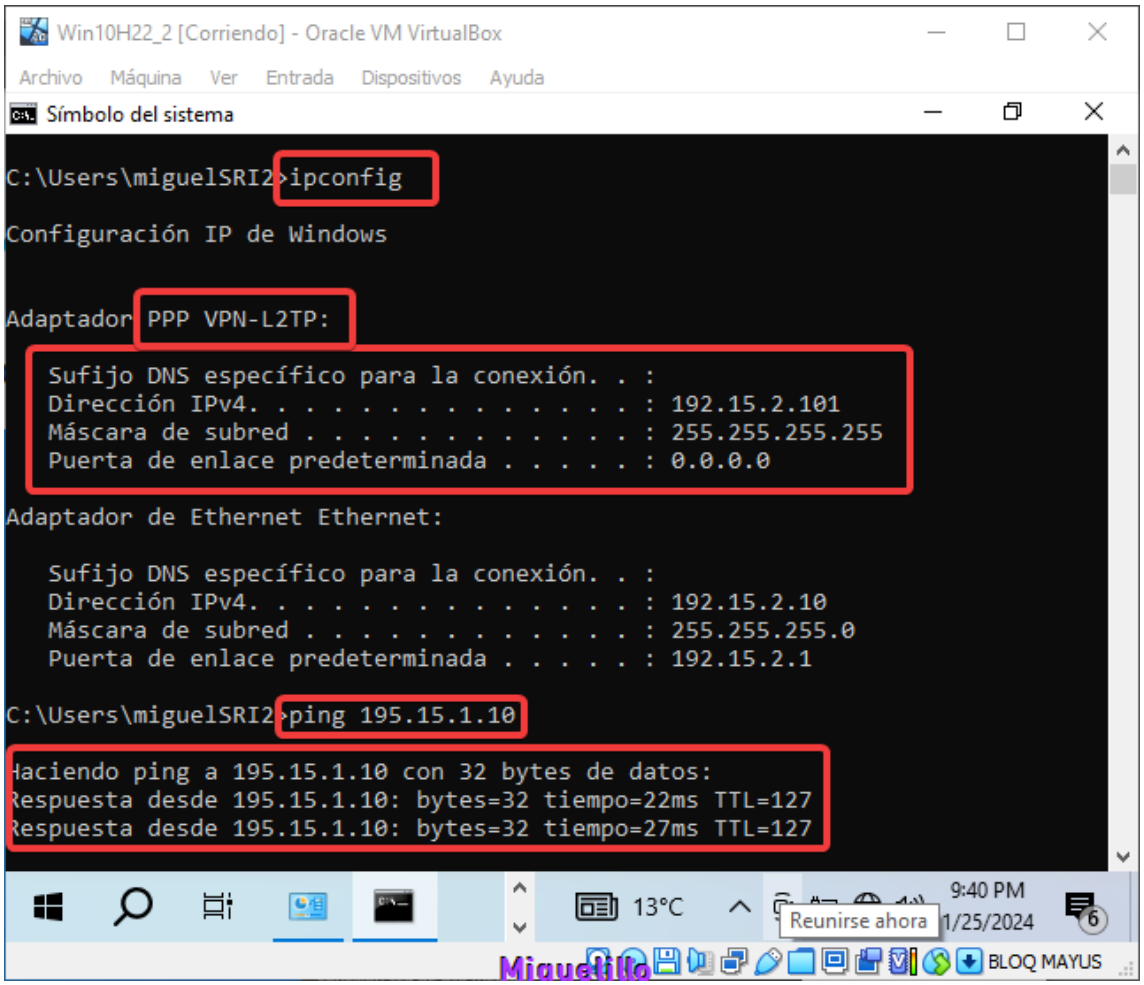




Probamos a conectar



Hacemos un ipconfig y vemos que nos da la Ip correspondiente, y hacemos una prueba de conectividad



Miramos los paquetes