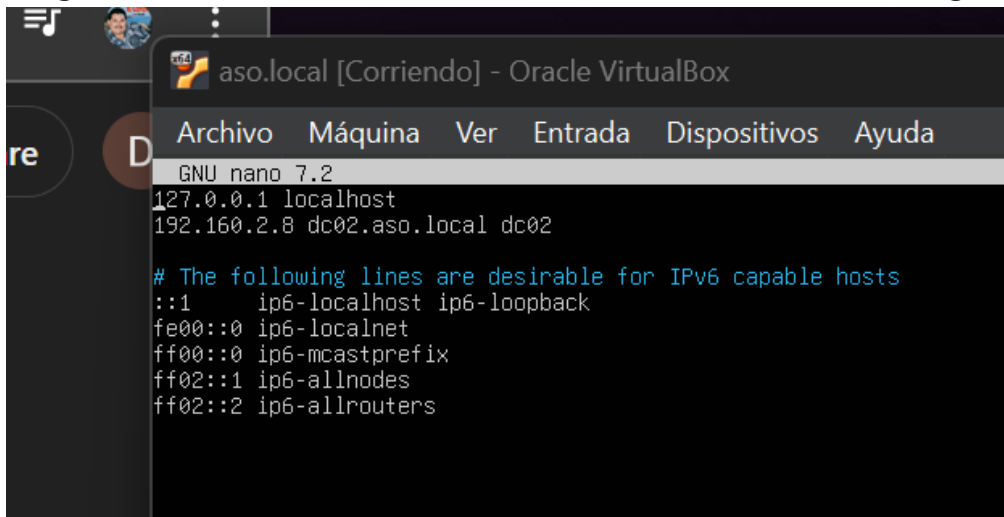


UD2-P02 ANEXO OPCIONAL

Instalación de un BDC (Backup Domain Controller) Ubuntu Server

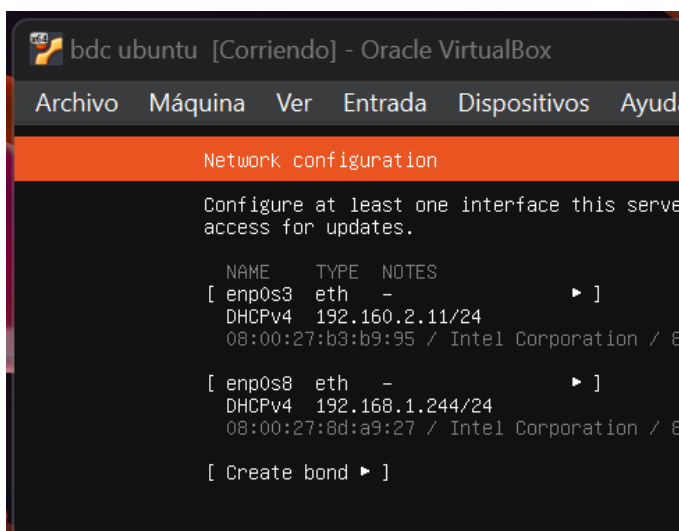
1. Asegurarnos de la dirección de nuestro controlador de dominio original:



```
aso.local [Corriendo] - Oracle VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda
GNU nano 7.2
127.0.0.1 localhost
192.160.2.8 dc02.aso.local dc02

# The following lines are desirable for IPv6 capable hosts
::1      ip6-localhost ip6-loopback
fe00::0  ip6-localnet
ff00::0  ip6-mcastprefix
ff02::1  ip6-allnodes
ff02::2  ip6-allrouters
```

2. Nos aseguraremos las ips del nuevo server destinado a ser bdc y lo actualizaremos.



```
bdc ubuntu [Corriendo] - Oracle VirtualBox
Archivo  Máquina  Ver  Entrada  Dispositivos  Ayuda

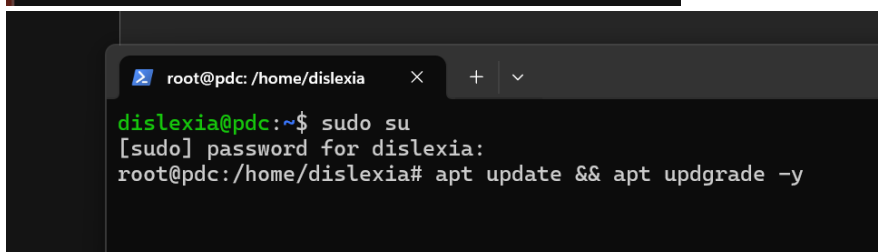
Network configuration

Configure at least one interface this server has access to for updates.

NAME    TYPE  NOTES
[ enp0s3 eth - ]
DHCPv4  192.160.2.11/24
08:00:27:b3:b9:95 / Intel Corporation / B

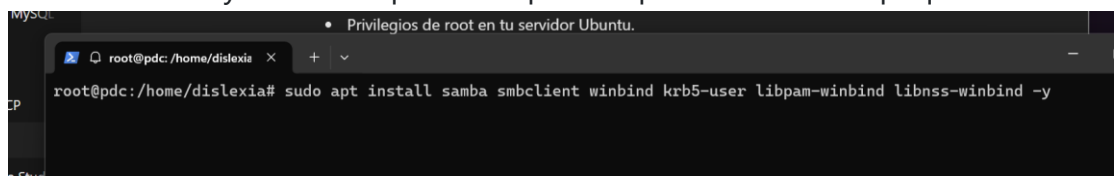
[ enp0s8 eth - ]
DHCPv4  192.168.1.244/24
08:00:27:8d:a9:27 / Intel Corporation / B

[ Create bond ]
```



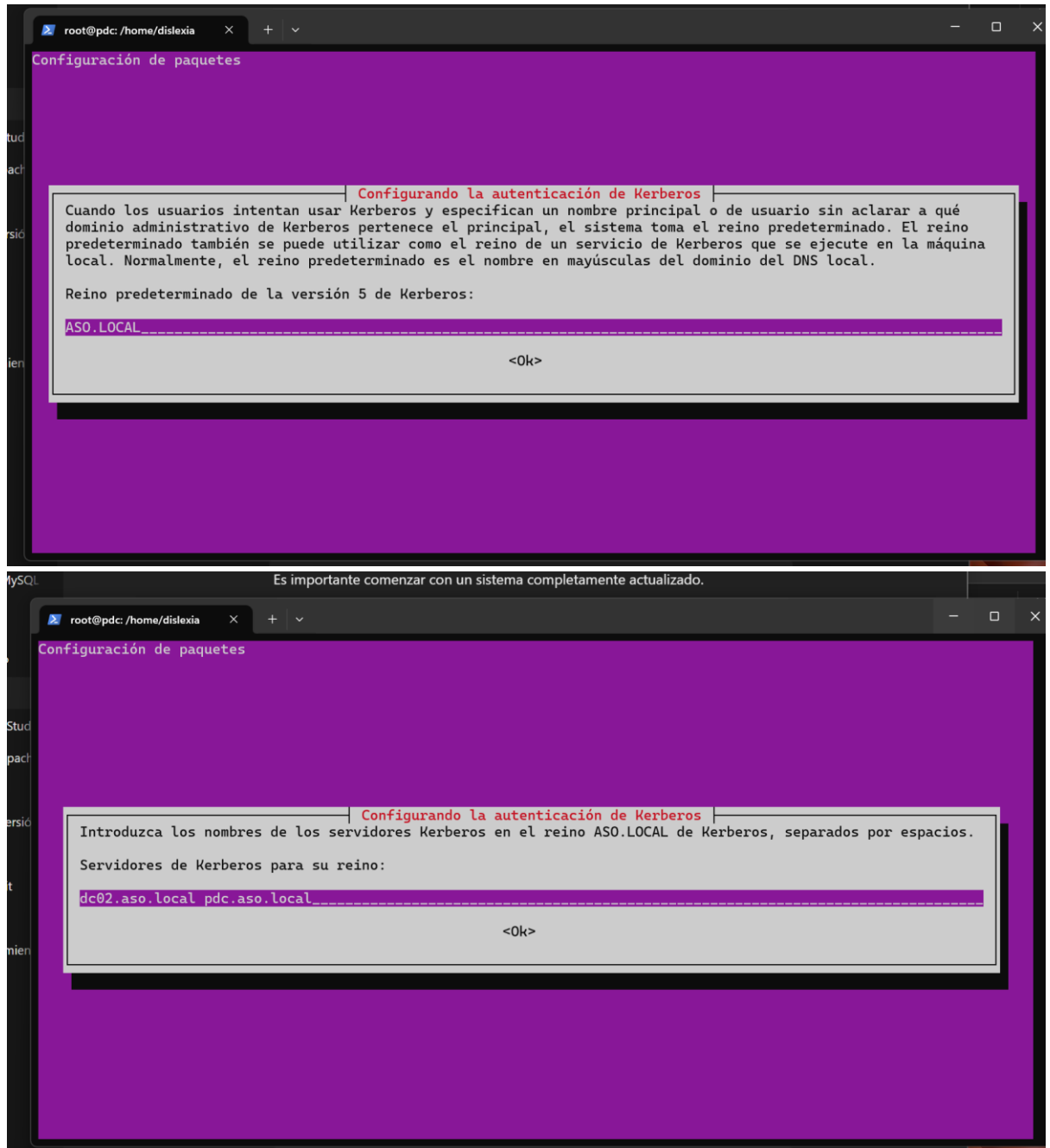
```
root@pdc: /home/dislexia
dislexia@pdc:~$ sudo su
[sudo] password for dislexia:
root@pdc:/home/dislexia# apt update && apt upgrade -y
```

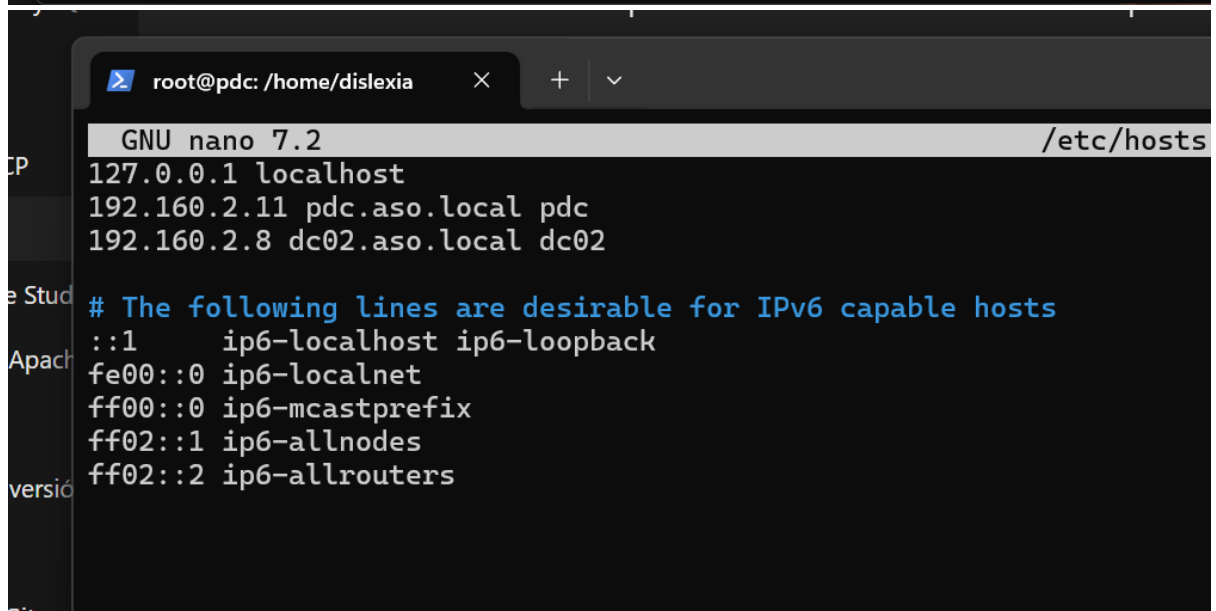
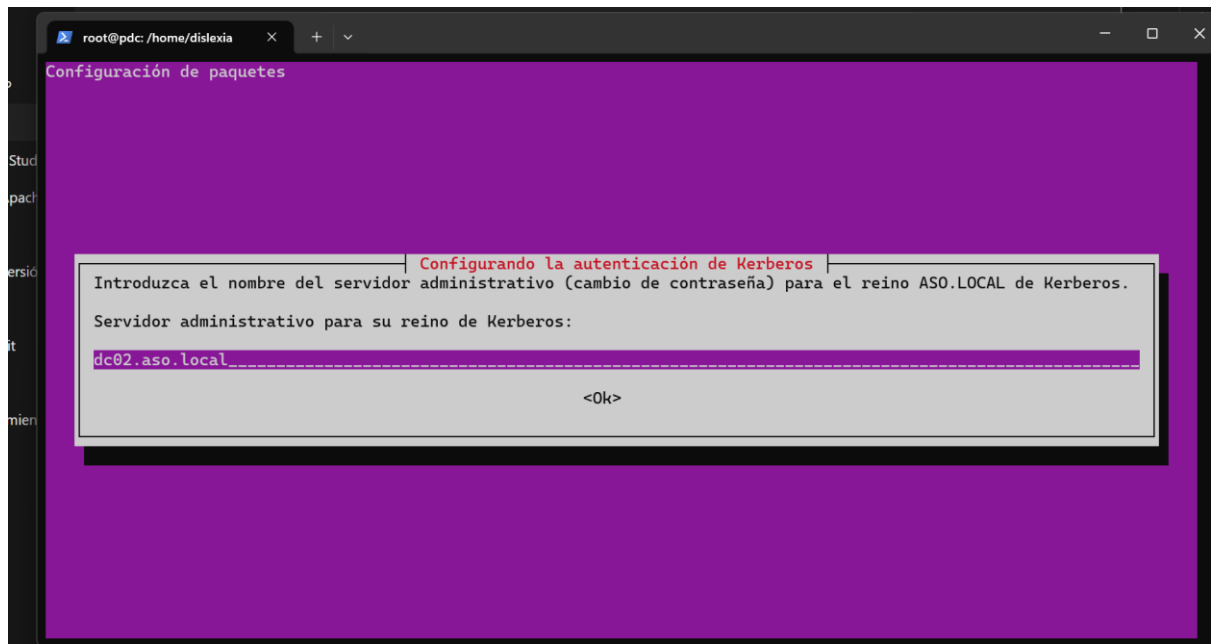
3. Instalar Samba y kerberos que es lo que nos permite crear un paquete BDC:



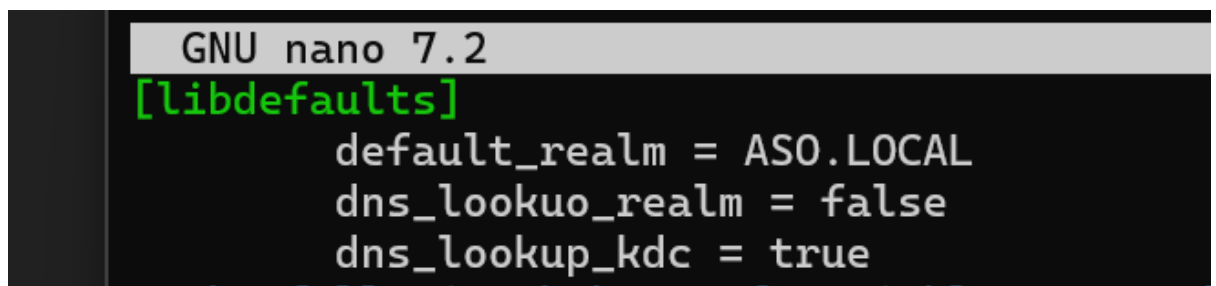
```
root@pdc:/home/dislexia# sudo apt install samba smbclient winbind krb5-user libpam-winbind libnss-winbind -y
```

4. Ahora configuraremos kerberos y nuestro /etc/hosts:





5. Ahora configuraremos el archivo de kerberos:



```
[realms]
    ASO.LOCAL = {
        kdc = dc02.aso.local
        admin_server = dc02.aso.local
    }
```

```
[domain_realm]
    .mit.edu = ATHENA.MIT.EDU
    mit.edu = ATHENA.MIT.EDU
    .media.mit.edu = MEDIA-LAB.MIT.EDU
    media.mit.edu = MEDIA-LAB.MIT.EDU
    .csail.mit.edu = CSAIL.MIT.EDU
    csail.mit.edu = CSAIL.MIT.EDU
    .whoi.edu = ATHENA.MIT.EDU
    whoi.edu = ATHENA.MIT.EDU
    .stanford.edu = stanford.edu
    .slac.stanford.edu = SLAC.STANFORD.EDU
    .toronto.edu = UTORONTO.CA
    .utoronto.ca = UTORONTO.CA
    .aso.local = ASO.LOCAL
    aso.local = ASO.LOCAL
```

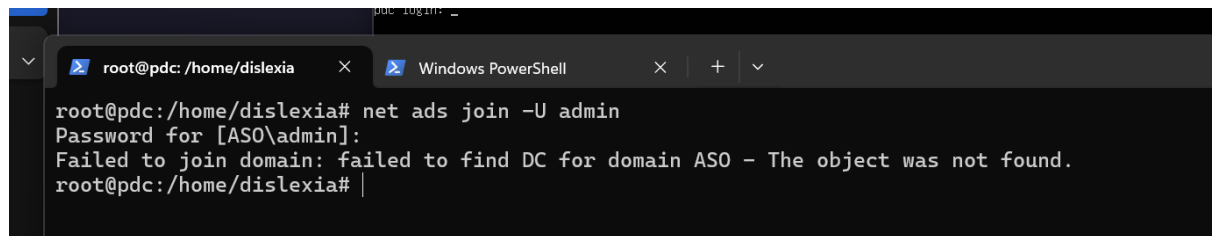
6. Ahora configuraremos los archivos Samba:

```
[global]
    workgroup = ASO
    security = ads
    realm = ASO.LOCAL
    password server = dc02.aso.local
    domain master = no
    local master = no
    preferred master = no
    server role = active directory domain controller
    idmap config * : backend = tdb
    winbind use default domain = true
    winbind offline logon = true
    winbind nss info = rfc2307
    template shell = /bin/bash
    template homedir = /home/%D/%U
```

```
[sysvol]
    path = /var/lib/samba/sysvol
    read only = no
```

```
[netlogon]
    path = /var/lib/samba/sysvol/aso.local/scripts
    read only = no
```

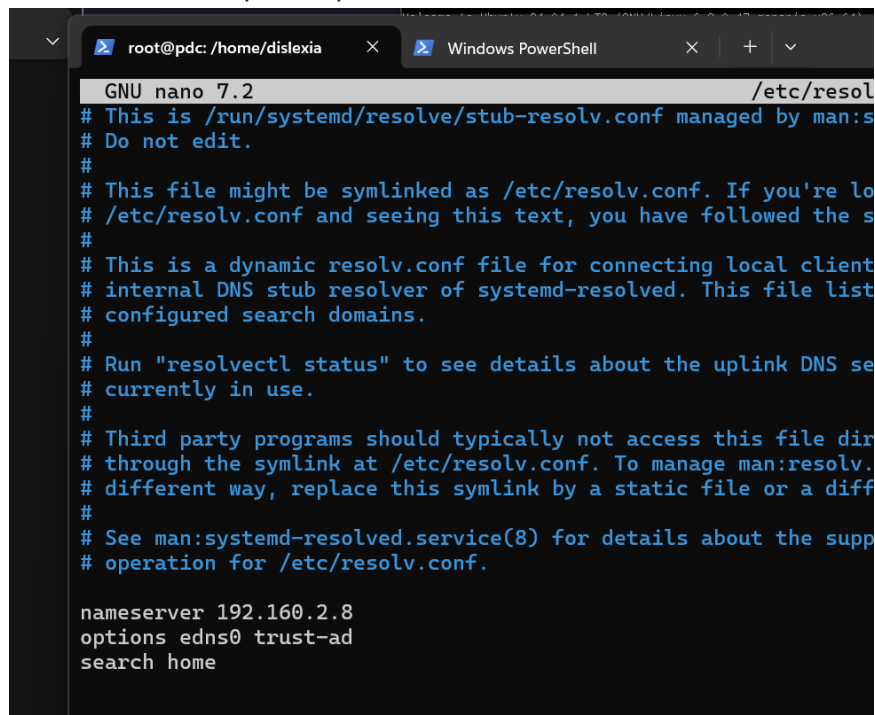
A partir de aqui he tenido problemas en la practica nose porque no podia comunicarse con el servidor a pesar de ejecutar el comando **net ads join -U admin:**



```
root@pdc:/home/dislexia# net ads join -U admin
Password for [ASO\admin]:
Failed to join domain: failed to find DC for domain ASO - The object was not found.
root@pdc:/home/dislexia#
```

Se ha verificado el archivo y cambiado a la ip del server resolv.conf, tenemos ping a dc02.aso.local y a la ip propia del controlador de dominio.

Por falta de tiempo no puedo solucionarlo:



```
GNU nano 7.2 /etc/resolv.conf
# This is /run/systemd/resolve/stub-resolv.conf managed by man:systemd-resolved(8)
# Do not edit.
#
# This file might be symlinked as /etc/resolv.conf. If you're looking at
# /etc/resolv.conf and seeing this text, you have followed the symlink.
#
# This is a dynamic resolv.conf file for connecting local client DNS
# requests to the internal DNS stub resolver of systemd-resolved. This file lists
# configured search domains.
#
# Run "resolvectl status" to see details about the uplink DNS search
# domains currently in use.
#
# Third party programs should typically not access this file directly,
# but rather use the lookup service of systemd-resolved. To manage
# this file differently, edit the /etc/resolv.conf symlink.
#
# See man:systemd-resolved.service(8) for details about the support
# operation for /etc/resolv.conf.

nameserver 192.160.2.8
options edns0 trust-ad
search home
```

```
root@pdc:/home/dislexia# nslookup dc02.aso.local
Server:      127.0.0.53
Address:     127.0.0.53#53

Name:   dc02.aso.local
Address: 192.160.2.8

root@pdc:/home/dislexia#
```

```
;; no servers could be reached
```

```
root@pdc:/home/dislexia# ping dc02.aso.local
PING dc02.aso.local (192.160.2.8) 56(84) bytes of data.
64 bytes from dc02.aso.local (192.160.2.8): icmp_seq=1 ttl=64 time=0.476 ms
64 bytes from dc02.aso.local (192.160.2.8): icmp_seq=2 ttl=64 time=0.332 ms
64 bytes from dc02.aso.local (192.160.2.8): icmp_seq=3 ttl=64 time=0.334 ms
```

```
root@pdc:/home/dislexia# ping 192.160.2.8
PING 192.160.2.8 (192.160.2.8) 56(84) bytes of data.
64 bytes from 192.160.2.8: icmp_seq=1 ttl=64 time=0.246 ms
64 bytes from 192.160.2.8: icmp_seq=2 ttl=64 time=0.299 ms
64 bytes from 192.160.2.8: icmp_seq=3 ttl=64 time=0.306 ms
64 bytes from 192.160.2.8: icmp_seq=4 ttl=64 time=0.352 ms
```

En teoria una vez unido deberias configurar el archivo **nsswitch.conf** :

```
GNU nano 7.2 /etc/nsswitch.conf
# /etc/nsswitch.conf
#
# Example configuration of GNU Name Service Switch functionality.
# If you have the 'glibc-doc-reference' and 'info' packages installed, try:
# 'info libc "Name Service Switch"' for information about this file.

passwd:          compat winbind
group:           compat winbind
shadow:         compat systemd
gshadow:        files systemd

hosts:          files dns
networks:       files

protocols:      db files
services:      db files
ethers:        db files
rpc:           db files

netgroup:      nis
```

```

root@pdc:/home/dislexia# net ads join -U dislexia
Password for [ASO\dislexia]:
Failed to join domain: failed to find DC for domain ASO - The object was not found.
root@pdc:/home/dislexia# net ads join -U Administrador
Password for [ASO\Administrador]:
Failed to join domain: failed to find DC for domain ASO - The object was not found.
root@pdc:/home/dislexia# |

```

Si tienes scripts o políticas en la carpeta Sysvol del PDC, puedes sincronizarlos con el BDC:

rsync -XAavz root@pdc:/var/lib/samba/sysvol /var/lib/samba/sysvol

```

root@pdc:/home/dislexia# rsync -XAavz root@pdc:/var/lib/samba/sysvol /var/lib/samba/sysvol
The authenticity of host 'pdc (192.160.2.11)' can't be established.
ED25519 key fingerprint is SHA256:BFCCaodTyB6Rj7uk5z7FrhfQp09uGMJT0GXXKEbwyk.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? YEs
Warning: Permanently added 'pdc' (ED25519) to the list of known hosts.
root@pdc's password:
Permission denied, please try again.
root@pdc's password:
Permission denied, please try again.
root@pdc's password:
rsync error: received SIGINT, SIGTERM, or SIGHUP (code 20) at rsync.c(713) [Receiver=3.2.7]
root@pdc:/home/dislexia# AC

```