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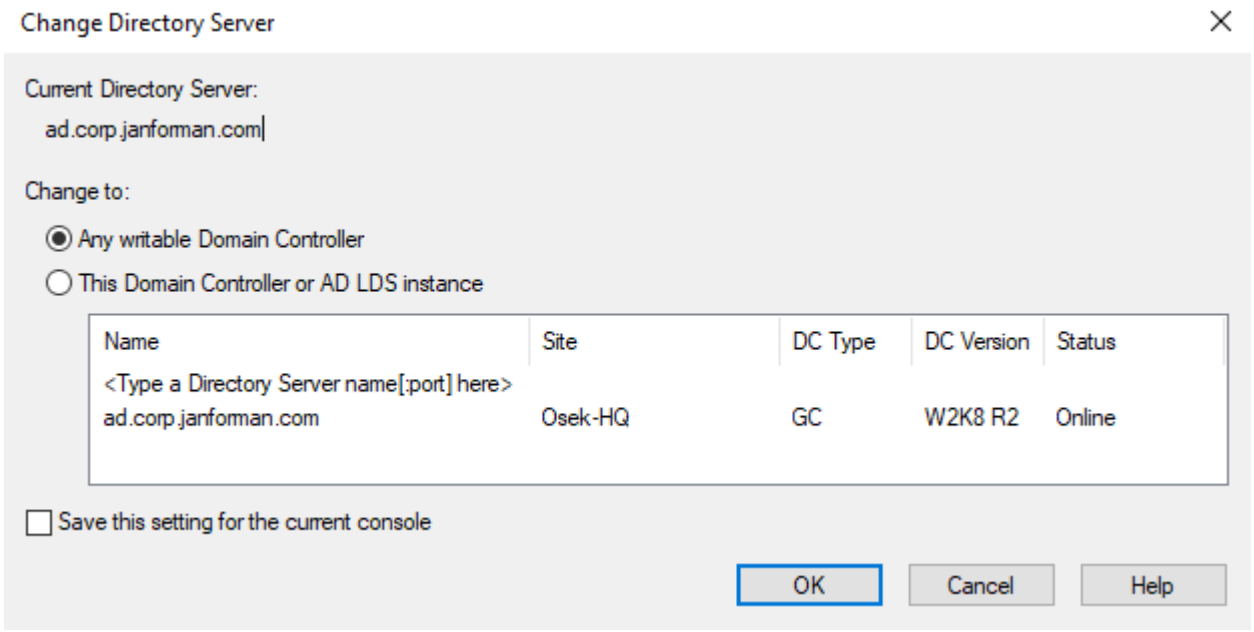
# Active Directory Mode

Server 2012_R2 (from 4.21.0) supported 100000 users and computers, 100 DC in domain tested




**IN LXC YOU MUST USE PRIVILEGED CONTAINER AND DNS may be 127.0.0.1 in the end!**

Insert AD name ad.corp.janforman.com

```
sudo vi /etc/hostname
sudo vi /etc/hosts
```

etc/cloud.cfg

```
preserve_hostname: true
```

```
sudo apt-get install samba krb5-user krb5-config winbind smbclient libpam-winbind libnss-winbind wsdd
```

wsdd2 conflicts with SMBD!

```
Kerberos Realm: CORP.JANFORMAN.COM
Kerberos servers for your realm: ad.corp.janforman.com
Administrative server for your Kerberos realm: ad.corp.janforman.com
```

```
sudo mv /etc/samba/smb.conf /etc/samba/smb.conf.original
sudo samba-tool domain provision --use-rfc2307 --interactive
```

## Set DNS resolver

```
sudo mkdir /etc/systemd/resolved.conf.d/
```

/etc/systemd/resolved.conf.d/custom.conf

```
[Resolve]
DNSStubListener=no
Domains=corp.janforman.com
DNS=127.0.0.1
```

sudo systemctl restart systemd-resolved
or simply disable that service

add to smb.conf global section

```
dns forwarder = 172.24.16.254
```

## Kerberos.conf

```
[libdefaults]
        default_realm = CORP.JANFORMAN.COM
        dns_lookup_realm = false
        dns_lookup_kdc = false

[realms]
CORP.JANFORMAN.COM = {
        kdc = ad.corp.janforman.com
        admin_server =  ad.corp.janforman.com
        default_domain = corp.janforman.com
}

[domain_realm]
        ad = CORP.JANFORMAN.COM
```

## Enable AD

```
sudo mv /etc/krb5.conf /etc/krb5.conf.original
sudo cp /var/lib/samba/private/krb5.conf /etc/
sudo systemctl disable --now smbd nmbd winbind
sudo systemctl unmask samba-ad-dc
sudo systemctl enable --now samba-ad-dc wsdd
```

## WSDD

/etc/default/wsdd

```
WSDD_PARAMS="-w CORP"
```

## Verify

```
sudo samba-tool domain level show
smbclient -L localhost -N

kinit administrator
klist
```

## Set resolv.conf

```
sudo rm -f /etc/resolv.conf && sudo vi /etc/resolv.conf
nameserver 127.0.0.1
domain corp.janforman.com
```

### smbstatus

```
Samba version 4.15.13-Ubuntu
PID     Username     Group        Machine                                   Protocol Version
Encryption           Signing
----------------------------------------------------------------------------------------------
-----------------------------------------
1526    root         users        172.24.16.123 (ipv4:172.24.16.123:50210)  SMB3_11
-                    partial(AES-128-CMAC)

Service      pid     Machine       Connected at                     Encryption   Signing
----------------------------------------------------------------------------------------------
public       1526    172.24.16.123 Wed Jun 21 09:31:07 PM 2023 UTC  -            AES-128-CMAC

Locked files:
Pid          User(ID)   DenyMode   Access      R/W        Oplock           SharePath   Name
Time
----------------------------------------------------------------------------------------------
-----
1526         0          DENY_NONE  0x100081    RDONLY     NONE             /mnt   .   Wed Jun
21 21:31:11 2023
1526         0          DENY_NONE  0x100081    RDONLY     NONE             /mnt   .   Wed Jun
21 21:31:11 2023
1526         0          DENY_NONE  0x100081    RDONLY     NONE             /mnt   .   Wed Jun
21 21:31:09 2023
```

# Check Samba Dialects

```
nmap --script smb-protocols 192.168.101.0/24
nmap -sS -sV -sC 192.168.101.0/24
nmap --script=smb-os-discovery
```

# Redhat Install

```
yum install samba samba-client samba-common
```

# Enable startup

```
systemctl enable smb.service
systemctl enable nmb.service
systemctl restart smb.service
systemctl restart nmb.service
```

# smb.conf

```
[global]
workgroup = WINDOWS
server string = Samba Server Version %v
netbios name = SAMBA
log level = 1
```

```
log file = /var/log/samba/log.%m
max log size = 50
security = user
local master = no
os level = 33
preferred master = no
wins support = no
#====== connect to existing wins or enable wins support
wins server = 172.24.16.254
wins proxy = yes
#======
dns proxy = yes
map to guest = bad user

username map = /etc/samba/smbusers

use sendfile = 1
deadtime = 10

load printers = no
printing = bsd
printcap name = /dev/null
disable spoolss = yes

#====== Share Definitions
[public]
comment = Public
path = /storage/public
public = yes
writable = yes
printable = no
guest ok = yes
```

# Add users

smbpasswd -a <linuxuser>

# Samba users mapping to Linux

/etc/samba/smbusers

```
linuxuser = sambaname
```

# Mount SAMBA device

/etc/fstab

```
//172.24.16.20/backup_oracle /backup_oracle cifs
_netdev,rw,username=USER,password=PASSWORD,file_mode=0640,dir_mode=0750,uid=oracle,gid=oinsta
ll 0 0
```

# Mount SAMBA with older protocol

```
mount -o vers=1.0 //x.x.x.x/share /mnt/samba
```

# Turn off securitySignature

Tuning speed

```
reg add "HKLM\SYSTEM\CurrentControlSet\Services\LanmanWorkstation\Parameters" /v
RequireSecuritySignature /t REG_DWORD /d 0 /f
reg add "HKLM\SYSTEM\CurrentControlSet\Services\LanManServer\Parameters" /v
RequireSecuritySignature /t REG_DWORD /d 0 /f
```

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