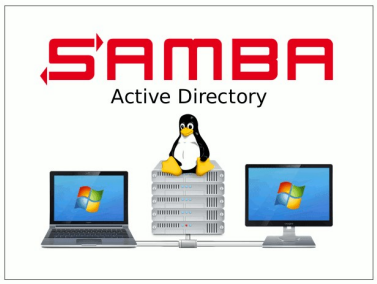


CREATE AD DC IN UBUNTU 18.04 LTS + PFSENSE + WIN 10_CLIENT

By Bart Maenen (network administrator)

Domain Name	: bartos.local
Realm	: BARTOS.LOCAL (HOOFDLETTERS !!!)
Hostname	: adc1
FQDN	: adc1.bartos.local

PFSENSE (VMware)

Adapter 1: BRIDGED (WAN → em0)

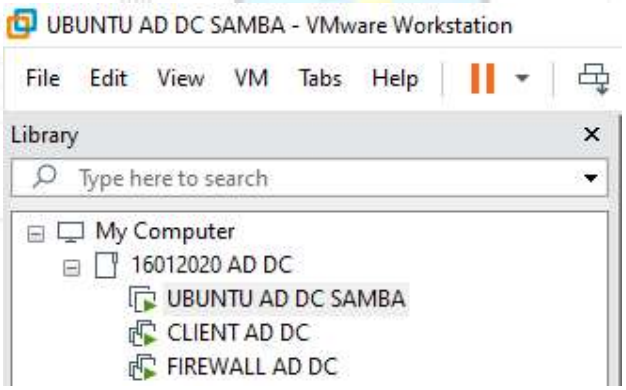
Adapter 2: Vmnet 2 (LAN → em1)

```
*** Welcome to pfSense 2.4.4-RELEASE (amd64) on pfSense ***

 WAN (wan)       -> em0        -> v4/DHCP4: 192.168.225.93/24
 LAN (lan)       -> em1        -> v4: 192.168.1.1/24
```

UBUNTU SERVER (VMware)

Adapter 1: Vmnet 2



CLIENT WIN10 (VMware)

Adapter 1: Vmnet 2

--UBUNTU 18.04 LTS –

After clean install …

1/ Sudo nano etc/netplan/50-cloud-init.yaml

```
# This file is generated from information provided by
# the datasource.  Changes to it will not persist across an instance.
# To disable cloud-init's network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
    ethernets:
        ens37:
            addresses: [192.168.1.100/24]
            dhcp4: false
            gateway4: 192.168.1.1
            nameservers:
              addresses: [8.8.8.8]
              search: [bartos.local]
    version: 2
```

2/ Sudo netplan apply

3/ Sudo hostnamectl set-hostname adc1

4/ Sudo nano /etc/hosts

```
127.0.0.1 localhost
192.168.1.100 adc1.bartos.local adc1

# 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
```

5/ Sudo apt update

6/ Sudo apt upgrade

7/ Sudo apt-get dist-upgrade

8/ Sudo apt -y install samba krb5-config winbind smbclient

Set Realm
Default Kerberos version 5 realm: BARTOS.LOCAL

Specify the hostname
Kerberos servers for your realm: adc1.bartos.local

Specify the hostname
Administrative server for your Kerberos realm: adc1.bartos.local

9/ Sudo mv /etc/samba/smb.conf /etc/samba/smb.conf.org

10/ Sudo samba-tool domain provision –use-rfc2307 –interactive

realm: BARTOS.LOCAL
Domain: [ENTER]
….. [telkens ENTER]
Password
Re-type password

11/ sudo cp /var/lib/samba/private/krb5.conf /etc/

12/ sudo systemctl stop smbd nmbd winbind systemd-resolved

13/ sudo systemctl disable smbd nmbd winbind systemd-resolved

14/ sudo systemctl unmask samba-ad-dc

15/ sudo ls -l /etc/resolv.conf

16/ sudo rm /etc/resolv.conf

17/ sudo nano /etc/resolv.conf

```
domain bartos.local
nameserver 127.0.0.1
```

18/ systemctl start samba-ad-dc

19/ systemctl enable samba-ad-dc

20/ sudo samba-tool domain level show

```
Domain and forest function level for domain 'DC=bartos,DC=local'

Forest function level: (Windows) 2008 R2
Domain function level: (Windows) 2008 R2
Lowest function level of a DC: (Windows) 2008 R2
```

Test: ping adc1

```
bart@adc1:~$ ping adc1
PING adc1.bartos.local (192.168.1.100) 56(84) bytes of data.
64 bytes from adc1.bartos.local (192.168.1.100): icmp_seq=1 ttl=64 time=0.027 ms
64 bytes from adc1.bartos.local (192.168.1.100): icmp_seq=2 ttl=64 time=0.058 ms
64 bytes from adc1.bartos.local (192.168.1.100): icmp_seq=3 ttl=64 time=0.054 ms
```

Test: ping bartos.local

```
bart@adc1:~$ ping bartos.local
PING bartos.local (192.168.1.100) 56(84) bytes of data.
64 bytes from adc1.bartos.local (192.168.1.100): icmp_seq=1 ttl=64 time=0.020 ms
64 bytes from adc1.bartos.local (192.168.1.100): icmp_seq=2 ttl=64 time=0.062 ms
64 bytes from adc1.bartos.local (192.168.1.100): icmp_seq=3 ttl=64 time=0.056 ms
```

Test: ping adc1.bartos.local

```
PING adc1.bartos.local (192.168.1.100) 56(84) bytes of data.
64 bytes from adc1.bartos.local (192.168.1.100): icmp_seq=1 ttl=64 time=0.032 ms
64 bytes from adc1.bartos.local (192.168.1.100): icmp_seq=2 ttl=64 time=0.045 ms
64 bytes from adc1.bartos.local (192.168.1.100): icmp_seq=3 ttl=64 time=0.053 ms
```

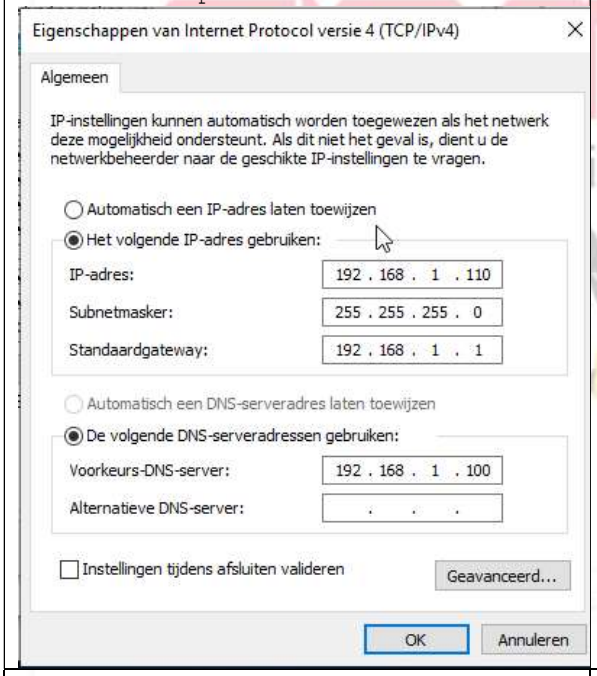
21/ sudo samba-tool user create bart

New Password:

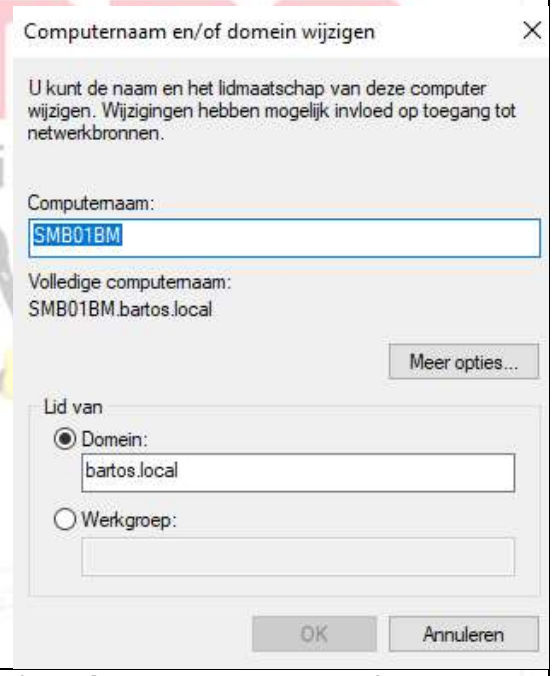
User 'bart' (or default 'Administrator') created successfully

--WINDOWS 10 CLIENT--

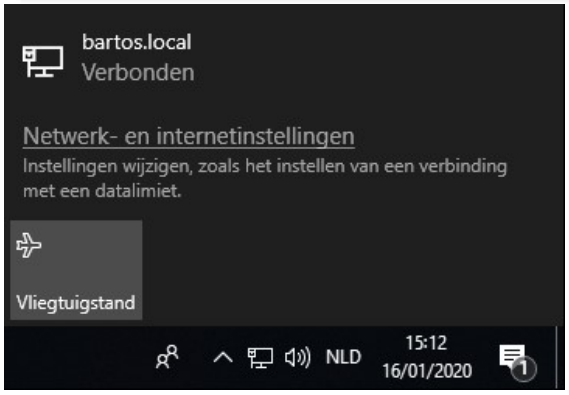
1. IP aanpassen



2. Lid maken van het domein



3. na restart → verbonden met domein



4. Inloggen met aangemaakte user