forwarder - alapértelmezve 8.8.8.8
másodlagosnak felvehetjük 8.8.4.4

Időzóna

W32tm /config /manualpeerlist:"0.hu.pool.ntp.org 1.hu.pool.ntp.org 2.hu.pool.ntp.org 3.hu.pool.ntp.org" /syncfromflags:manual /reliable:yes /update

Set-TimeZone -Name "Central Europe Standard Time"

W32tm /resync /force

Get-TimeZone

Linux nano
nano /etc/Network/interfaces

address 172.16.0.254
netmask 255.255.0.0
network 172.16.0.0
broadcast 172.16.255.255
gateway 172.16.0.1
dns-nameservers 172.16.0.254 172.16.0.253
dns-search xycompany.xy

Sudo Beállítása

su -
apt install sudo
usermod -aG sudo linuxadmin
getent group sudo

Linux Guest Additions

sudo apt install build-essential dkms linux-headers-$(uname -r) -y
mkdir /mnt/cdrom
mount /dev/cdrom /mnt/cdrom
cd /mnt/cdrom
sh ./VBoxLinuxAdditions.run --nox11
reboot

Időzóna

```
timedatectl set-timezone Europe/Budapest
date
```

Samba AD

```
apt install samba krb5-user krb5-config winbind libpam-winbind libnss-winbind -y
systemctl stop samba-ad-dc.service smbd.service nmbd.service winbind.service
systemctl disable samba-ad-dc.service smbd.service nmbd.service winbind.service
mv /etc/samba/smb.conf /etc/samba/smb.conf.orig
samba-tool domain provision --use-rfc2307 --interactive
mv /etc/krb5.conf /etc/krb5.conf.orig
ln -sf /var/lib/samba/private/krb5.conf /etc/krb5.conf
```

NANO
```
nano /etc/resolv.conf
```

```
domain xycompany.xy
search xycompany.xy
nameserver 172.16.0.254
nameserver 8.8.8.8
```

```
systemctl unmask samba-ad-dc.service
systemctl start samba-ad-dc.service
systemctl enable samba-ad-dc.service
```

DHCP

```
apt install isc-dhcp-server -y
systemctl stop isc-dhcp-server
```

```
mv /etc/dhcp/dhcpd.conf /etc/dhcp/dhcpd.conf.orig
nano /etc/dhcp/dhcpd.conf
```

```
default-lease-time 86400;
max-lease-time 86400;
option subnet-mask 255.255.0.0;
option broadcast-address 172.16.255.255;
option routers 172.16.0.1;
option domain-name-servers 172.16.0.254;
option domain-name "xycompany.xy";
subnet 172.16.0.0 netmask 255.255.0.0 {
 range 172.16.0.100 172.16.0.150;
```

}

MÁSIK RÉSZ MÁR
DISK FORMÁZÁSA

```
fdisk -l
fdisk /dev/sdb

mkfs.ext4 /dev/sdb1
e2label /dev/sdb1 user_folders
mkfs.ext4 /dev/sdb2
e2label /dev/sdb2 common_folder

mkdir /mnt/sdb1
mount /dev/sdb1 /mnt/sdb1

mkdir /mnt/sdb2
mount /dev/sdb2 /mnt/sdb2


nano /etc/fstab

/dev/sdb1 /mnt/sdb1 ext4 user_xattr,acl,errors=remount-ro,usrquota,grpquota 0 1
/dev/sdb2 /mnt/sdb2 ext4 user_xattr,acl,errors=remount-ro,usrquota,grpquota 0 1
```

SAMBA

```
apt install samba samba-vfs-modules winbind libpam-winbind libnss-winbind krb5-config -y
mv /etc/samba/smb.conf /etc/samba/smb.conf.orig

nano /etc/samba/smb.conf

[global]

workgroup = XYCOMPANY
password server = winserverpdc.xycompany.xy winserverbdc.xycompany.xy
realm = XYCOMPANY.XY
security = ads
idmap config *: range = 16777216-33554431
template homedir = /home/%U
template shell = /bin/bash
winbind use default domain = true
winbind offline logon = false
```

```
vfs objects = acl_xattr
map acl inherit = yes
store dos attributes = yesa
```

```
nano /etc/pam.d/common-session
session optional        pam_mkhomedir.so skel=/etc/skel umask=077
```

JOIN AD

```
net ads join -U Administrator
systemctl restart winbind
reboot
```

```
net rpc rights grant "XYCOMPANY\Domain Admins" SeDiskOperatorPrivilege -U
"XYCOMPANY\Administrator"
```

JOGOK LISTÁZÁSA
```
net rpc rights list privileges SeDiskOperatorPrivilege -U "XYCOMPANY\administrator"
```

Apache/Firewall

```
apt install apache2 ufw -y
```

```
nano /etc/ufw/applications.d/apache2-utils.ufw.profile
```

```
[Apache]
title=Web Server
description=Apache v2 is the next generation of the omnipresent Apache web server.
ports=80/tcp
```

```
[Apache Secure]
title=Web Server (HTTPS)
description=Apache v2 is the next generation of the omnipresent Apache web server.
ports=443/tcp
```

```
[Apache Full]
title=Web Server (HTTP,HTTPS)
description=Apache v2 is the next generation of the omnipresent Apache web server.
ports=80,443/tcp
```

```
ufw default deny incoming
ufw default allow outgoing
```

```
ufw allow in 'Apache Full'
ufw allow in 'OpenSSH'
ufw allow in 'Samba'
ufw allow 20,21,990/tcp
ufw enable
ufw status verbose
```

Certificate

```
cd ~/
CANAME=XYCOMPANY-RootCA
openssl genrsa -aes256 -out $CANAME.key 2048
```
Passphrase: Almafa12

```
openssl req -x509 -new -nodes -key $CANAME.key -sha256 -days 1826 -out $CANAME.crt
```

Country: HU
State: Pest
Locality: Budapest
Company: XYCOMPANY
Company unit: IT
Common Name: XYCOMPANY-RootCA
Email: *Enter*

Trusted Root Certificate-be bepakolni

```
cd /mnt/sdb1/
mkdir certificates$/
chown root:"Domain Admins" certificates$/
chmod 0770 certificates$
```

Samba-hoz hozzáadni

```
nano /etc/samba/smb.conf

[certificates$]
comment = certificates
path = /mnt/sdb1/certificates$/
read only = no

smbcontrol all reload-config
```

Certificate másolása

cp ~/XYCOMPANY-RootCA.crt /mnt/sdb1/certificates\$/

Certificate webserverre

cd ~/
WEBCERT=linuxserverweb
openssl req -new -nodes -out $WEBCERT.csr -newkey rsa:2048 -keyout $WEBCERT.key

Country: HU
State: Pest
Locality: Budapest
Company: XYCOMPANY
Company unit: IT
Common Name: www.xycompany.xy
Email: *Enter*
challenge pass: *Enter*
optional company: *Enter*

WEBCERT=linuxserverweb
nano $WEBCERT.v3.ext

authorityKeyIdentifier=keyid,issuer
basicConstraints=CA:FALSE
keyUsage = digitalSignature, nonRepudiation, keyEncipherment, dataEncipherment
subjectAltName = @alt_names

[alt_names]
DNS.1 = xycompany.xy
DNS.2 = www.xycompany.xy
IP.1 = 172.16.0.252

CANAME=XYCOMPANY-RootCA

openssl x509 -req -in $WEBCERT.csr -CA $CANAME.crt -CAkey $CANAME.key -
CAcreateserial -out $WEBCERT.crt -days 730 -sha256 -extfile $WEBCERT.v3.ext

Passphrase: Almafa12

cp /etc/apache2/sites-available/000-default.conf /etc/apache2/sites-available/000-
default.conf.orig
rm /etc/apache2/sites-available/000-default.conf
nano /etc/apache2/sites-available/000-default.conf

<Directory /var/www/xycompany>

```
  Options Indexes FollowSymLinks
  Require all granted
  AllowOverride All
</Directory>

<VirtualHost *:80>
  ServerName linuxserverweb.xycompany.xy
  ServerAlias www.xycompany.xy
  DocumentRoot /var/www/xycompany
  # ErrorLog ${APACHE_LOG_DIR}/error.log
  # CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>

<VirtualHost *:443>
  ServerName linuxserverweb.xycompany.xy
  ServerAlias www.xycompany.xy
  DocumentRoot /var/www/xycompany
  # ErrorLog /var/www/html/htdocs/logs/error.log
  # CustomLog /var/www/html/htdocs/logs/access.log combined
  SSLEngine on
  SSLCertificateFile      /root/linuxserverweb.crt
  SSLCertificateKeyFile         /root/linuxserverweb.key

<FilesMatch "\.(cgi|shtml|phtml|php)$">
  SSLOptions +StdEnvVars
</FilesMatch>

<Directory /usr/lib/cgi-bin>
  SSLOptions +StdEnvVars
</Directory>

  BrowserMatch "MSIE [2-6]" \
  nokeepalive ssl-unclean-shutdown \
  downgrade-1.0 force-response-1.0
</VirtualHost>
```

INDEX.HTML létrehozása

Weboldalnak mappa létrehozás

```
mkdir /var/www/xycompany
chmod -R 755 /var/www/xycompany
```

SFTP csoport és felhasználó

```
addgroup sftponly
```

```
adduser sftpuser

usermod -d /var/www sftpuser
usermod -aG sftponly sftpuser
usermod -aG www-data sftpuser
chown -R sftpuser:www-data /var/www/xycompany
```

SFTP chroot config

```
nano /etc/ssh/sshd_config


Subsystem sftp internal-sftp

Match Group sftponly
ChrootDirectory /var/www/
ForceCommand internal-sftp
AllowTcpForwarding no
X11Forwarding no

systemctl restart ssh
```

Weboldal www helyett simán elérni

```
nano /var/www/xycompany/.htaccess

RewriteEngine On
RewriteCond %{HTTP_HOST} !^xycompany\.xy$
RewriteRule ^(.*) https://xycompany.xy/$1 [L,R=301]
```

Apache2 engedélyezések

```
a2enmod ssl
a2enmod headers
a2enmod rewrite
apache2ctl configtest
systemctl reload apache2
```

Megosztott mappák létrehozása

```
cd /mnt/sdb1/
mkdir shares/
chown root:"Domain Admins" shares/
```

```
chmod 0770 shares/
cd /mnt/sdb2/
mkdir common_folder/
chown root:"Domain Admins" common_folder/
chmod 0770 common_folder/
```

Kvóták konfig, mappa felcsatolás, jogosultság
```
apt install quota quotatool -y

mount -o remount /dev/sdb1/
mount -o remount /dev/sdb2/

quotacheck -ugm /dev/sdb1
quotacheck -ugm /dev/sdb2

quotaon /dev/sdb1
quotaon /dev/sdb2

quotatool -u michael.s -b -q 500M /dev/sdb1
quotatool -u william.s -b -q 500M /dev/sdb1
quotatool -g "domain users" -b -q 1G /dev/sdb2
```

SAMBA-ban átírás

```
nano /etc/samba/smb.conf

[shares]
comment = shares
path = /mnt/sdb1/shares/
read only = no

[common_folder]
comment = common_folder
path = /mnt/sdb2/common_folder/
read only = no

smbcontrol all reload-config
```

Printing Server
```
apt install cups-pdf -y
```

nano /etc/cups/cupsd.conf

Port 631

DefaultEncryption IfRequested

 Allow @LOCAL

 AuthType Default
 Require valid-user
 Order allow,deny
 Allow @LOCAL

```
# Only listen for connections from the local machine.
Port 631
Listen /run/cups/cups.sock

# Default authentication type, when authentication is required...
DefaultAuthType Basic
DefaultEncryption IfRequested

# Restrict access to the server...
<Location />
 Order allow,deny
 Allow @LOCAL
</Location>

# Restrict access to the admin pages...
<Location /admin>
 AuthType Default
 Require valid-user
 Order allow,deny
 Allow @LOCAL
</Location>
```

ufw allow 631/tcp
ufw allow 5353/udp
systemctl restart cups
systemctl status cups

Windows Core Server Parancsok **PRIMARY GÉP**
AD telepítése és konfigurálása
#Tartomány telepítése

Install-WindowsFeature AD-Domain-Services -IncludeManagementTools

#Tartomány felépítése

Install-ADDSFOREST -DomainName **xycompany.xy** -DomainNetbiosName **XYCOMPANY** -DomainMode **Win2012R2** -ForestMode **Win2012R2** -InstallDns:$true

#DHCP telepítése

Install-WindowsFeature DHCP -IncludeManagementTools -Verbose

#DHCP scope tartomány beállítása

Add-DHCPServerV4Scope -name xycompany_scope -StartRange 172.16.0.100 -EndRange 172.16.0.150 -SubnetMask 255.255.0.0

#DHCP tartomány és átjáró beállítása

Set-DHCPServerV4OptionValue -DnsDomain xycompany.xy -DnsServer 172.16.0.254, 172.16.0.253 -Router 172.16.0.1 -Force

#DHCP hozzárendelése a tartományhoz

Add-DHCPServerInDC -DnsName winserverpdc.xycompany.xy

Get-DhcpServerv4Scope | Select-Object -Property *

Restart-Service DHCPServer

BACKUP GÉP

#Tartomány telepítése

Install-WindowsFeature AD-Domain-Services -IncludeManagementTools

#Tartomány felépítése

Install-ADDSDomainController -InstallDns -Credential (Get-Credential xycompany\Administrator) -DomainName **xycompany.xy** -SafeModeAdministratorPassword (ConvertTo-SecureString -AsPlainText "**Almafa12**" -Force)

#DHCP telepítése

Install-WindowsFeature DHCP -IncludeManagementTools -Verbose

#DHCP tartomány és átjáró beállítása

Set-DHCPServerV4OptionValue -DnsDomain xycompany.xy -DnsServer 172.16.0.254, 172.16.0.253 -Router 172.16.0.1

#DHCP hozzárendelése a tartományhoz

Add-DHCPServerInDC -DnsName winserverbdc.xycompany.xy

PRIMARY GÉP

#Failover

Add-DhcpServerv4Failover -ComputerName "winserverpdc.xycompany.xy" -PartnerServer "winserverbdc.xycompany.xy" -Name "winserverpdc-winserverbdc-hot_standby" -ServerRole Active -ReservePercent 10 -MaxClientLeadTime 1:00:00 -StateSwitchInterval 00:45:00 -ScopeId 172.16.0.0 -SharedSecret "Almafa12"

#DNS Forward beállítása

Set-DnsServerForwarder -IPAddress 8.8.8.8

Get-DhcpServerv4Scope | Select-Object -Property *

Restart-Service DHCPServer

HA TÖBB WEBOLDALNAK

Country: HU
State: Pest
Locality: Budapest
Company: XYCOMPANY
Company unit: IT
Common Name: *.xycompany.xy
Email: *Enter*
challenge pass: *Enter*
optional company: *Enter*