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](http://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

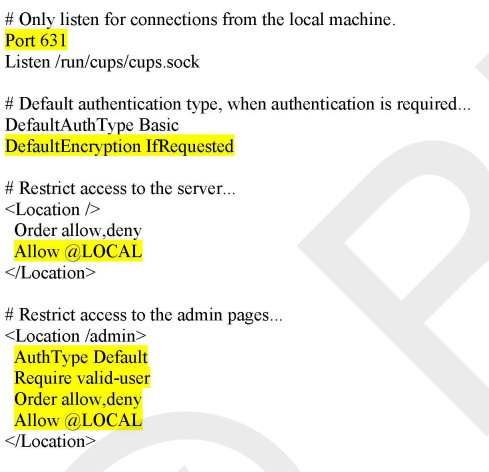
Allow @LOCAL

AuthType Default

Require valid-user

Order allow,deny

Allow @LOCAL



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\**