Ubuntu 24.04 + OpenVPN + AD (LDAP/RADIUS) ??????

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- **Ubuntu 24.04 LTS** □□□□□□□□□□□□□□ NAT □□□□□□
- **Windows AD** □□□□ □□□□□ `shuncom.local` □ DC IP□ 192.168.1.10□□
- □□□□ Windows 10/11□ macOS□ Linux□□□□□

???? OpenVPN ? Easy-RSA

```
sudo apt update
sudo apt install openvpn easy-rsa -y
```

??????

1. □□□□□□□

```
make-cadir ~/openvpn-ca
cd ~/openvpn-ca
```

2. □□□□

```
./easyrsa init-pki
./easyrsa build-ca
```

3. □□□□□□□□

```
./easyrsa build-server-full server nopass
```

4. □□□□□□□□

```
./easyrsa build-client-full user01 nopass
```

5. □□□ OpenVPN □□□□

```
sudo cp pki/ca.crt pki/private/server.key pki/issued/server.crt /etc/openvpn/
```

???? OpenVPN ???

□□□□□ `/etc/openvpn/server.conf` □

```
port 1194
proto udp
dev tun

ca /etc/openvpn/ca.crt
cert /etc/openvpn/server.crt
key /etc/openvpn/server.key
dh none
auth SHA256
tls-crypt /etc/openvpn/tls-crypt.key

server 10.8.0.0 255.255.255.0
ifconfig-pool-persist ipp.txt

push "redirect-gateway def1 bypass-dhcp"
push "dhcp-option DNS 192.168.1.10"   # AD DNS

keepalive 10 120
cipher AES-256-GCM
persist-key
```

```
persist-tun
user nobody
group nogroup
verb 3

# □□ LDAP □□
plugin /usr/lib/openvpn/openvpn-plugin-auth-pam.so openvpn
client-cert-not-required
username-as-common-name
```

???? PAM ? LDAP (AD)

□□ LDAP □□□□□

```
sudo apt install libpam-ldapd nslcd -y
```

□□ `/etc/nslcd.conf` □

```
uri ldap://192.168.1.10/
base dc=shuncom,dc=local
binddn cn=vpnbind,ou=ServiceAccounts,dc=shuncom,dc=local
bindpw YourPassword
scope sub
filter passwd (sAMAccountName=%u)
```

> “□□ □□□ AD □□□□□□□□□ `vpnbind` □□□□ LDAP □□□

□□ PAM □□ `/etc/pam.d/openvpn` □

```
auth    required        pam_unix.so
auth    sufficient      pam_ldap.so use_first_pass
account sufficient      pam_ldap.so
```

??????? OpenVPN

```
sudo systemctl enable openvpn@server
sudo systemctl start openvpn@server
sudo systemctl status openvpn@server
```

????? & NAT

```
sudo ufw allow 1194/udp
sudo ufw allow OpenSSH
```

□□ NAT □□□
□□ `/etc/sysctl.conf`□□□□□

```
net.ipv4.ip_forward=1
```

□□□

```
sudo sysctl -p
```

□□ NAT□

```
sudo iptables -t nat -A POSTROUTING -s 10.8.0.0/24 -o eth0 -j MASQUERADE
```

???????

□□□□□□□ `user01.ovpn`□

```
client
dev tun
proto udp
remote vpn.shuncom.org 1194
resolv-retry infinite
nobind
persist-key
persist-tun

remote-cert-tls server
auth-user-pass
```

```
cipher AES-256-GCM
verb 3
```

□□□□□□□ **AD** □□□ **+**□□ □□□

????

□ OpenVPN □□□□□ `/var/log/syslog` □ `/var/log/openvpn.log` □□□□□□

```
PAM_AUTH: user 'user01' authenticated via LDAP
```

? ????

1. □□□ VPN □□□□□ AD □□□□ `VPN-Users`□□ `/etc/nslcd.conf` □□□ `filter` □□□
2. □□□□ **MFA**□□□□ FreeRADIUS + Google Authenticator□□
3. □□□□□□□□□□□□ **WireGuard + AD** □□ □

□□□□□□□□□ □□□□ **AD** □ **“VPN-Users”** □□□□□□ **OpenVPN** □□□□□
□□□□□□□□□□□□ VPN□

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