

Install and Configure OpenVPN

Step 1: Install OpenVPN and Easy-RSA

```
dnf install epel-release -y
rpm -qa | grep openvpn
dnf install openvpn easy-rsa --y
```

Step 2: Set up Easy-RSA for OpenVPN

```
cp -rv /usr/share/easy-rsa/3.1.6/* /etc/openvpn/
cd /etc/openvpn/
./easyrsa init-pki
./easyrsa build-ca nopass
./easyrsa gen-req server nopass
./easyrsa sign-req server server
./easyrsa gen-req client nopass
./easyrsa sign-req client client
./easyrsa gen-dh
openvpn --genkey secret ta.key
```

Step 3: Move Certificates and Keys

```
mv pki/ca.crt pki/dh.pem /etc/openvpn/
mv pki/issued/server.crt /etc/openvpn/
mv pki/private/server.key /etc/openvpn/
```

Step 4: Configure OpenVPN Server

```
cp -rv /usr/share/doc/openvpn/sample/sample-config-files/server.conf /etc/openvpn/server/
vi /etc/openvpn/server/server.conf # Customize server config if needed
vi /etc/sysctl.conf # Enable IP forwarding
net.ipv4.ip_forward = 1
```

```
sysctl -p
```

```
chmod 600 /etc/openvpn/server/server.conf /etc/openvpn/*.key /etc/openvpn/*.crt
```

Step 5: Configure Firewall and Start OpenVPN Service

```
firewall-cmd --add-service=openvpn --permanent
```

```
firewall-cmd --add-masquerade --permanent
```

```
firewall-cmd --reload
```

```
systemctl start openvpn-server@server.service
```

```
systemctl enable openvpn-server@server.service
```

```
systemctl status openvpn-server@server.service
```

Step 6: Set Up OpenVPN Client

```
dnf install openvpn -y
```

```
cd /etc/openvpn/
```

```
scp /etc/openvpn/ca.crt /etc/openvpn/ta.key /etc/openvpn/pki/issued/client.crt  
/etc/openvpn/pki/private/client.key root@192.168.100.178:/etc/openvpn/
```

```
cp /usr/share/doc/openvpn/sample/sample-config-files/client.conf /etc/openvpn/client/
```

```
vi /etc/openvpn/client/client.conf # Update server IP: 192.168.100.167
```

```
chmod 600 /etc/openvpn/*.key /etc/openvpn/*.crt /etc/openvpn/client/client.conf
```

```
openvpn --config /etc/openvpn/client/client.conf
```