

Q1 B)

```
yum install openvpn -y
cd /usr/share/doc/openvpn-2.4.11/sample/sample-config-files/
pwd
ls
cp server.conf /etc/openvpn
cd /etc/openvpn
ls
vi server.conf
    dev tun
    ca ca.crt
    cert sarojserv.crt
    key sarojserv.key
    topology subnet
    push "route 192.168.10.0 255.255.255.0"
    push "redirect-gateway def1 bypass-dhcp"
    push "dhcp-option DNS 8.8.8.8"
    push "dhcp-option DNS 8.8.4.4"
    client-to-client
    tls-crypt sarojserv.tlsauth
    user nobody
    group nobody
    persist-key
    persist-tun
    plugin /usr/lib64/openvpn/plugins/openvpn-plugin-auth-pam.so openvpn
```

```
yum install easy-rsa -y
mkdir -p /etc/openvpn/easy-rsa/keys
ls
yum install wget -y
wget -O /tmp/easyrsa https://github.com/OpenVPN/easy-rsa-old/archive/2.3.3.tar.gz
tar xzf /tmp/easyrsa
cd /tmp/easyrsa
cp -rf easy-rsa-old-2.3.3/easy-rsa/2.0/* /etc/openvpn/easy-rsa
pwd
ls
vi vars
source ./vars
./clean-all
./build-ca
./build-key-server $(hostname)
cd keys
ls
./build-dh
cd ..
source ./vars
./clean-all
./build-ca
./build-key-server $(hostname)
./build-dh
cd keys
```

```
ls
cp ca.crt sarojserv.crt sarojserv.key dh2048.pem /etc/openvpn
cd ../..
ls
restorecon -Rv /etc/openvpn
ln -s /lib/systemd/system/openvpn@.service
/etc/systemd/system/multi-user.target.wants/openvpn@server.service
ls
vi server.conf
ls
vi server.conf
ls
systemctl -f enable openvpn@server.service
systemctl -f start openvpn@server.service
systemctl start openvpn@server.service
systemctl status openvpn@server.service
vi server.conf
openvpn --keygen --secret /etc/openvpn/ta.key
openvpn --keygen --secret /etc/openvpn/easy-rsa/keys/ta.key
pwd
cd easy-rsa/
ls
cd keys/
ls
systemctl start openvpn@server.service
systemctl status openvpn@server.service
cd ../..
ls
vi server.conf
openvpn --genkey --secret /etc/openvpn/sarojserv.tlsauth
systemctl status openvpn@server.service
systemctl restart openvpn@server.service
systemctl status openvpn@server.service
ip a
source ./vars
pwd
cd easy-rsa/
pwd
ls
source ./vars
./build-key myclient1
cd keys
ls
ip a
ls
ls -l
cd
cd /home/
ls
cd saroj
ls
mkdir
```

```
mkdir client1key
ls
cd /etc/openvpn/
ls
cd easy-rsa/keys/
ls
cp ca.crt myclient1.crt myclient1.key /home/saroj/client1key/
cd /home/saroj/client1key/
ls
ll
chmod 644 myclient1.key
ll
scp ca.crt root@192.168.1.168:/home/saroj
scp myclient1.crt root@192.168.1.169:/home/saroj
ip a
scp myclient1.key root@192.168.1.69:/home/saroj
vi /etc/sysctl.conf
ls
sysctl -p
vi /etc/pam.d/openvpn
    auth    required    pam_unix.so    shadow    nodelay
    account required    pam_unix.so

vi /etc/openvpn/server.conf
systemctl stop openvpn@server.service
systemctl start openvpn@server.service
systemctl status openvpn@server.service
systemctl stop firewalld
cd /etc/openvpn/
ls
scp sarojserv.tlsauth root@192.168.1.69:/home/saroj/
ls
ll
cp sarojserv.tlsauth /home/saroj/
cd /home/saroj/
ls
mv sarojserv.tlsauth client1key/
ls
cd client1key/
ls
ll
chmod 644 sarojserv.tlsauth
ll
scp sarojserv.tlsauth root@192.168.1.69:/home/saroj/
```

