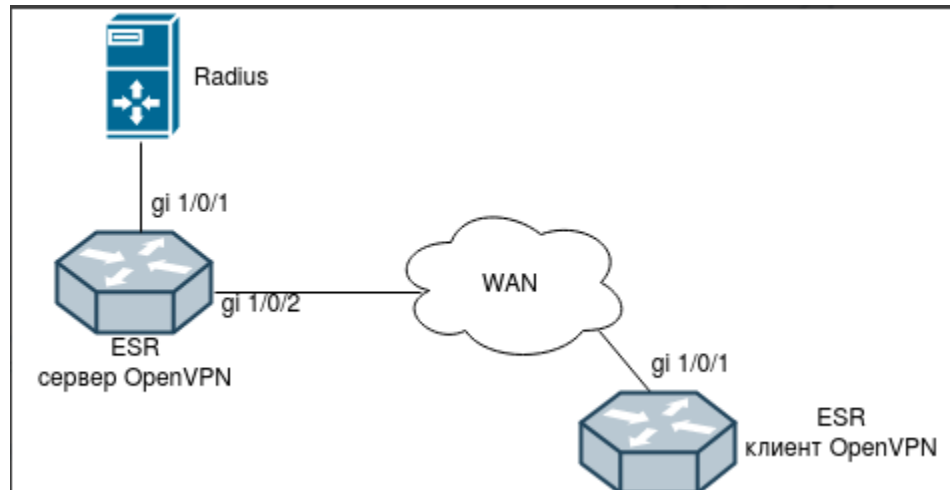


# OpenVPN OpenVPN Radius



OpenVPN(tunnel openvpn), OpenVPN(remote-access openvpn), Radius .

## OpenVPN

```
object-group service openvpn
  port-range 1194
exit

aaa authentication login radius_list radius
radius-server host 192.168.0.1
  key ascii-text <password_radius>
exit

no spanning-tree

security zone OpenVPN
exit
security zone untrusted
exit

interface gigabitethernet 1/0/1
  description "to_freeradius"
  security-zone OpenVPN
  ip address 192.168.0.10/24
exit
interface gigabitethernet 1/0/2
  description "to_WAN"
  security-zone untrusted
  ip address 192.0.2.1/30
exit
security zone-pair OpenVPN self
  rule 1
    action permit
    enable
  exit
exit
security zone-pair OpenVPN OpenVPN
  rule 1
    action permit
    enable
  exit
exit
security zone-pair untrusted self
  rule 1
    action permit
```

```

    match protocol udp
    match destination-port openvpn
    enable
exit
rule 2
    action permit
    match protocol icmp
    enable
exit
exit

remote-access openvpn test
    network 172.16.1.0/24
    protocol udp
    tunnel ip
    encryption algorithm aes128
    authentication algorithm sha
    login authentication radius_list
    certificate ca ca.crt
    certificate dh dh.pem
    certificate server-key server_openvpn.key
    certificate server-crt server_openvpn.crt
    security-zone OpenVPN
    enable
exit

ip route 0.0.0.0/0 192.0.2.2

esr# show remote-access status openvpn
User          IP-address      Server
-----
client        172.16.1.6      openvpn(test)
Count sessions: 1

```

remote-access openvpn login authentication <> OpenVPN Radius.

## OpenVPN

```

interface gigabitethernet 1/0/1
    ip firewall disable
    ip address 192.168.20.1/24
exit
tunnel openvpn 1
    ip firewall disable
    remote address 192.0.2.1 port 1194
    protocol udp
    tunnel ip
    encryption algorithm aes128
    authentication algorithm sha
    certificate ca ca.crt
    certificate dh dh.pem
    certificate client-key client_openvpn.key
    certificate client-crt client_openvpn.crt
    username <username>
    password <password>
    enable
exit

ip route 0.0.0.0/0 192.168.20.254

```

tunnel openvpn <username> <password> Radius

## Radius

```
root@comp:~# cat /etc/freeradius/clients.conf
client 192.168.0.10 {
    secret = <password_radius>
    shortname = esr
}

root@comp:~# cat /etc/freeradius/users
<username> Cleartext-Password := "<password>"
    Service-Type = Administrative-User,
    cisco-avpair = "shell:priv-lvl=15"
```

Wireshark Radius(ip 192.168.0.1)