

# IT 네트워크 시스템 *IT Network Systems* *Administration*

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 Written by **Donghyun Choi (KGU)**

✦ - Worldskills Korea - Assessment Task (IT Network Systems) -  [ Written by NullBins ]

- By default, the commands are executed as a root user.

## [ Project-1 ] < Linux Environments >

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### 5. [S2S] GRE-over-IPsec VPN 구성 (GRE-over-IPsec VPN Configuration)

- ✦ DONG-R 및 DAE-R, VPN SITE 구성 구성 시 패키지 도구는 STRONGSWAN을 사용함.

#### < Configuration >

- [ DONG-R ]

```
vim /etc/network/interfaces
```

```
auto tun0
iface tun0 inet tunnel
    address 10.0.0.1
    netmask 255.255.255.252
    dstaddr 10.0.0.2
    local 117.121.35.100
    endpoint 117.121.35.150
    mode gre
    ttl 255
    post-up ip route add 172.16.1.0/24 dev tun0
    pre-down ip route add 172.16.1.0/24 dev tun0
```

```
modprobe ip_gre
systemctl restart networking
```

```
apt install strongswan -y
```

```
vim /etc/ipsec.conf
```

```
conn GRE-IPSEC-VPN
    left=117.121.35.100
    leftprotoport=gre
    right=117.121.35.150
    rightprotoport=gre
    type=transport
    authby=secret
    keyexchange=ikev2
    auto=start
```

```
vim /etc/ipsec.secrets
```

```
117.121.35.150 117.121.35.100 : PSK "Skill139"
```

```
systemctl restart strongswan-starter
```

- [ **DAE-R** ]

```
vim /etc/network/interfaces
```

```
auto tun0
iface tun0 inet tunnel
    address 10.0.0.2
    netmask 255.255.255.252
    dstaddr 10.0.0.1
    local 117.121.35.150
    endpoint 117.121.35.100
    mode gre
    ttl 255
    post-up ip route add 192.168.1.0/24 dev tun0
    pre-down ip route add 192.168.1.0/24 dev tun0
```

```
modprobe ip_gre
systemctl restart networking
```

```
apt install strongswan -y
```

```
vim /etc/ipsec.conf
```

```
conn S2S-VPN
    left=117.121.35.100
    leftprotoport=gre
    right=117.121.35.150
    rightprotoport=gre
    type=transport
    authby=secret
    keyexchange=ikev2
    auto=start
```

```
vim /etc/ipsec.secrets
```

```
117.121.35.100 117.121.35.150 : PSK "Skill139"
```

```
systemctl restart strongswan-starter
```