

# GRE test instruction

Gre feature for CPE's LAN private IP address can access each other.

Regarding the GRE settings , please follow the below screenshot:

**Tunnel Destination IP address:** It is the CPE's WAN IP.

**GRE interface IP address:** it is local tunnel IP address, can set any, but should same with the remote GRE tunnel IP address.

**GRE interface Remote IP address:** the remote CPE tunnel IP address

**Remote Private IP address:** it is CPE's DHCP pool IP , it should same network segment with CPE manage ip address.

**Add GRE Tunnel** [Close]

Tunnel Destination IP Address: xxx.xxx.xxx.xxx **Remote CPE WAN IP**

GRE Interface IP Address: xxx.xxx.xxx.xxx **Local GRE tunnel ip**

Subnet Mask: 24

GRE Interface Remote IP Address: xxx.xxx.xxx.xxx **Remote GRE tunnel IP**

Remote Private IP Address: 0.0.0.0 **Remote DHCP pool**

Subnet Mask: 255.255.255.0

Key: (0 ~ 4294967295)

Checksum:

Cancel Apply

For example:

CPE A:

WAN IP address 172.28.20.99

LAN manage IP 192.168.11.1

DHCP pool 192.168.11.2 – 192.168.11.100

### Add GRE Tunnel ×

Tunnel Destination IP Address	<input type="text" value="172.28.50.88"/>
GRE Interface IP Address	<input type="text" value="192.168.15.12"/>
Subnet Mask	<input type="text" value="24"/>
GRE Interface Remote IP Address	<input type="text" value="192.168.15.1"/>
Remote Private IP Address	<input type="text" value="192.168.10.0"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Key	<input type="text" value="(0 ~ 4294967295)"/>
Checksum	<input type="checkbox"/>

```

eth2.2  Link encap:Ethernet  Hwaddr 6C:AD:EF:FF:00:01
        inet6 addr: fe80::6ead:efff:feff:1/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:17 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 B)  TX bytes:1482 (1.4 kiB)

gre1    Link encap:UNSPEC  Hwaddr C0-A8-20-03-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:192.168.15.12  P-t-P:192.168.15.1  Mask:255.255.255.0
        UP POINTOPOINT RUNNING NOARP  MTU:1476  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:4466 errors:0 dropped:0 overruns:0 frame:0
        TX packets:4466 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:246848 (241.0 kiB)  TX bytes:246848 (241.0 kiB)

ra0    Link encap:Ethernet  Hwaddr 6C:AD:EF:B8:B0:B8
        inet6 addr: fe80::6ead:efff:feb8:b0b8/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
        Interrupt:4
  
```

CPE B:

WAN IP address 172.28.50.88

LAN manage IP 192.168.10.1;

DHCP pool 192.168.10.2 – 192.168.10.100

### Add GRE Tunnel ×

Tunnel Destination IP Address	<input type="text" value="172.28.50.99"/>
GRE Interface IP Address	<input type="text" value="192.168.15.1"/>
Subnet Mask	<input type="text" value="24"/>
GRE Interface Remote IP Address	<input type="text" value="192.168.15.12"/>
Remote Private IP Address	<input type="text" value="192.168.11.0"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Key	<input type="text" value="(0 ~ 4294967295)"/>
Checksum	<input type="checkbox"/>

```

eth2.2  Link encap:Ethernet  Hwaddr 6C:AD:EF:FF:00:01
        inet6 addr: fe80::6ead:efff:feff:1/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:17 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 B)  TX bytes:1482 (1.4 KiB)

gre1    Link encap:UNSPEC  Hwaddr C0-A8-20-03-00-00-00-00-00-00-00-00-00-00-00-00
        inet addr:192.168.15.1  P-t-P:192.168.15.12  Mask:255.255.255.0
        UP POINTOPOINT RUNNING NOARP  MTU:1476  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)

lo      Link encap:Local Loopback
        inet addr:127.0.0.1  Mask:255.0.0.0
        inet6 addr: ::1/128 Scope:Host
        UP LOOPBACK RUNNING  MTU:16436  Metric:1
        RX packets:4653 errors:0 dropped:0 overruns:0 frame:0
        TX packets:4653 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:0
        RX bytes:257184 (251.1 KiB)  TX bytes:257184 (251.1 KiB)

ra0     Link encap:Ethernet  Hwaddr 6C:AD:EF:B8:B0:B8
        inet6 addr: fe80::6ead:efff:feb8:b0b8/64 Scope:Link
        UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
        RX packets:0 errors:0 dropped:0 overruns:0 frame:0
        TX packets:0 errors:0 dropped:0 overruns:0 carrier:0
        collisions:0 txqueuelen:1000
        RX bytes:0 (0.0 B)  TX bytes:0 (0.0 B)
        Interrupt:4
  
```

Before GRE tunnel establish, test ping:

Ping from A to B's wan ip

Ping from B to A's wan ip

Ping from A's LAN private IP to B's LAN private ip (it should not reachable)

After GRE tunnel establish

Ping from A's LAN private IP to B's LAN private ip (it should reachable)