

VPN Setting Example - GRE

GRE Topology



1. Open GRE Tunnel setting page, set Router C like the following,

Status	IPSec	PPTP	L2TP	OpenVPN	GRE Tunnel			
System	CDE T.							
Services	GREIT	Innei						
ICMP Check	GRE Tun	nel Co	onfigur	ration				
VRRP			Enable	•				
Failover			TTI	255				
SNMP				233				
DTU			MTU	1420				
GPS		Door ID	Addross	100 169 5 100				
SMS		Feet IF /	Address	152.100.5.105				
VPN	Re	mote Net	work IP	192.168.2.0				
DDNS				255 255 255 0				
Connect Radio Module		kemote N	letmask	200.200.200.0				
Network		Local T	unnel IP	10.0.20.1				
Logout				055 055 055 0				
	Lo	ocal lunn	el Mask	255.255.255.0				
					_			
					Sa	ve & Apply	Save	Reset

 Peer IP address is the WAN IP address of Router C remote network IP and netmask is the LAN subnet of Router C, the remote Network IP is 192.168.2.0 here, NOT 192.168.2.1.

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Local Tunnel IP is a virtual IP address, it can be set to any private IP address but cannot be in same subnet as LAN.

- 3. After setting is done, click button "Save & Apply".
- 4. Open web management page of Router A. Configure it as below, and click button "Save & Apply".

Status	IPSec PPTP L2TP	OpenVPN	GRE Tunnel			
System						
Services	GRE Tunnel					
ICMP Check	GRE Tunnel Configura	ation				
VRRP	Enable	V				
Failover	тті	255		1		
SNMP		233				
DTU	MTU	1420				
GPS	Poor IP Addross	102 169 5 120				
SMS	reel in Address	192.100.5.139				
VPN	Remote Network IP	192.168.1.0				
DDNS	Demote Network	255 255 255 0		1		
Connect Radio Module	Remote Netmask	255.255.255.U				
Network	Local Tunnel IP	10.0.20.2				
Logout	Level Towned March	055 055 055 0		1		
	Local Tunnel Mask	255.255.255.0				
			Save	e & Apply	Save	Reset

5. Ping PC2 from PC1,

C: Wsers Administrator>ping 192.168.1.112 Pinging 192.168.1.112 with 32 bytes of data: Reply from 192.168.1.112: bytes=32 time=73ms TTL=62 Reply from 192.168.1.112: bytes=32 time=475ms TTL=62 Reply from 192.168.1.112: bytes=32 time=188ms TTL=62 Reply from 192.168.1.112: bytes=32 time=362ms TTL=62 Ping statistics for 192.168.1.112: Packets: Sent = 4, Received = 4, Lost = 0 (0% loss), Approximate round trip times in milli-seconds: Minimum = 73ms, Maximum = 475ms, Average = 274ms C: Wsers Administrator>

6. Ping PC1 from PC2,

```
Request timeout for icmp_seq 994
64 bytes from 192.168.2.171: icmp_seq=995 ttl=62 time=6.008 ms
64 bytes from 192.168.2.171: icmp_seq=996 ttl=62 time=5.476 ms
64 bytes from 192.168.2.171: icmp_seq=997 ttl=62 time=5.350 ms
64 bytes from 192.168.2.171: icmp_seq=998 ttl=62 time=6.179 ms
64 bytes from 192.168.2.171: icmp_seq=999 ttl=62 time=6.684 ms
64 bytes from 192.168.2.171: icmp_seq=1000 ttl=62 time=5.640 ms
64 bytes from 192.168.2.171: icmp_seq=1001 ttl=62 time=5.284 ms
64 bytes from 192.168.2.171: icmp_seq=1002 ttl=62 time=5.063 ms
64 bytes from 192.168.2.171: icmp_seq=1003 ttl=62 time=6.062 ms
64 bytes from 192.168.2.171: icmp_seq=1004 ttl=62 time=6.067 ms
64 bytes from 192.168.2.171: icmp_seq=1005 ttl=62 time=6.575 ms
64 bytes from 192.168.2.171: icmp_seq=1006 ttl=62 time=3.398 ms
64 bytes from 192.168.2.171: icmp_seq=1007 ttl=62 time=5.990 ms
64 bytes from 192.168.2.171: icmp_seq=1008 ttl=62 time=9.059 ms
^C
--- 192.168.2.171 ping statistics ---
1009 packets transmitted, 882 packets received, 12.6% packet loss
round-trip min/avg/max/stddev = 2.429/6.462/17.386/1.705 ms
dentvdeMacBook-Pro-3:∼ apple$ □
```

7. If the ping is failed, check Route status at both side,

verview	Routes The following rules	are currently active on this s	ystem.			
letwork	ARP					
Firewall	IPv4-Address		MAC-Address	Interface	Interface	
System Log	192.168.5.139		90:22:06:c0:10:01	eth0.2		
Kernel Log	192.168.5.1		00:1e:42:13:38:a2	eth0.2		
Reboot Log	192.168.2.171		00:e0:66:af:f1:b7	br-lan		
VPN						
ystem	Active IPv4-F	Routes				
ervices	Network	Target	IPv4-Gateway	Metric	Table	
etwork	wan	0.0.0/0	192.168.5.1	0	main	
ogout	gre	10.0.20.0/24		0	main	
	gre	192.168.1.0/24		0	main	
	lan	192.168.2.0/24		0	main	

if the route rule of 192.168.1/0/24 or 192/.168.2.0/24 with network gre is missing here, try to reconfigure Remote Network IP and Remote Netmask.

E-Lins Technology	/ Co.,Limited	VPN Setting Example - GRE
Status	IPSec PPTP L2TP OpenVPN GRE Tunnel	
System		
Services	GRE Tunnel	
ICMP Check	GRE Tunnel Configuration	
VRRP	Enable 🕑	
Failover	TTI 255	
SNMP		
DTU	MTU 1420	
GPS		
SMS	Peer IP Address 192.168.5.189	
VPN	Remote Network IP 192.168.2.0	
DDNS		
Connect Radio Module	Remote Netmask 255.255.0	
Network	Local Tunnel IP 10.0.20.1	
Logout	Local Tunnel Mask 255.255.255.0	
	Save & Apply	Save Reset

8. if the Remote Netmask is 255.255.255.128, the Remote Network IP should be XXX.XXX.XXX.AAA(AAA shall be 128 or 0).

If the Remote Netmask is 255.255.255.192, the Remote Network IP should be XXX.XXX.XXX.AAA(AAA should be 0, 64,128 or 192).