

Tutorial 7

- Based on Figure 3-1 and Figure 3-2, identify and explain the problems and provide solutions for VPN configurations.

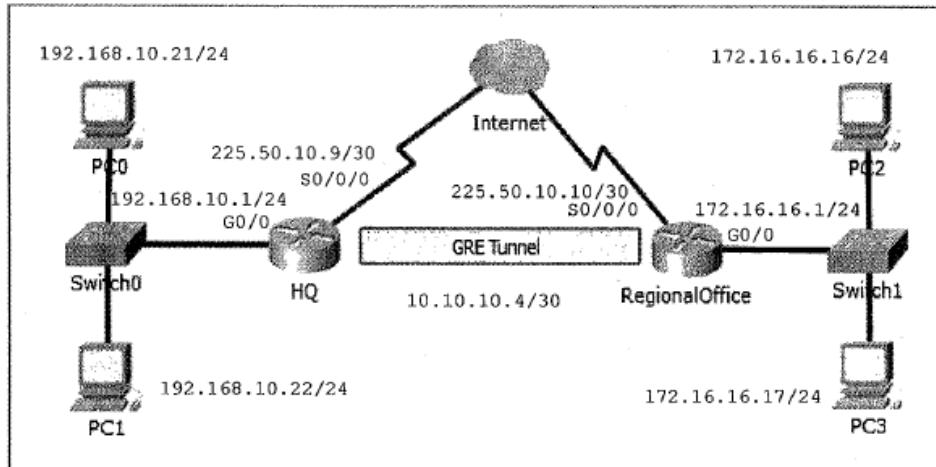


Figure 3-1: GRE Tunnel on routers HQ and RegionalOffice

hostname HQ	hostname RegionalOffice
interface tunnel0 ip address 10.10.10.4 255.255.255.252 tunnel source s0/0/0 tunnel destination 10.10.10.5	interface tunnel0 ip address 10.10.10.5 255.255.255.252 tunnel source s0/0 tunnel destination 10.10.10.4
interface g0/0 ip address 192.168.10.1 255.255.255.0	interface g0/0 ip address 172.16.16.1 255.255.255.0
int s0/0/0 ip address 225.50.10.9 255.255.255.252	int s0/0/0 ip address 225.50.10.10 255.255.255.252
router ospf 1 network 192.168.10.0 0.0.0.255 area 0 network 10.10.10.4 0.0.0.5 area 0	router ospf 1 network 172.16.16.0 0.0.0.255 area 0 network 10.10.10.4 0.0.0.3 area 0
ip route 0.0.0.0 0.0.0.0 s0/0/0	ip route 0.0.0.0 0.0.0.0 s0/0/0

Figure 3-2 GRE configurations on router HQ and RegionalOffice

- Enterprise managed VPNs can be deployed in two configurations. Explain TWO (2) types of Enterprise managed VPNs.
- What is the difference between IPsec and SSL VPNs?
- a) Illustrate IPsec framework which consists of essential security functions such as Confidentiality, Integrity, Origin authentication and Diffie-Hellman.
b) Explain two examples for each security function to protect data.