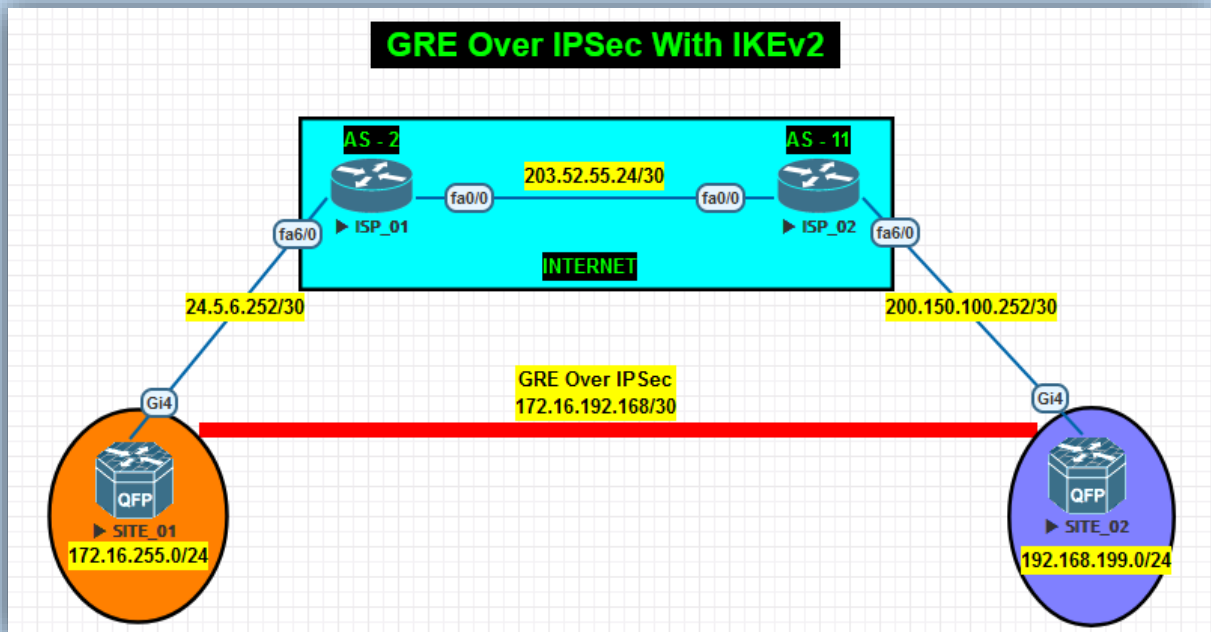# GRE Over IPSec With IKEv2

SITE–01

interface **Tunnel2024**

 ip address 172.16.192.169 255.255.255.252

 ip mtu 1400

 ip tcp adjust–mss 1360

 tunnel source 24.5.6.254

 tunnel destination 200.150.100.254

 tunnel protection ipsec profile **GRE_IPSEC_PROFILE**

!

crypto ikev2 proposal **GRE_PROPOSAL**

 encryption aes–cbc–256

 integrity sha256

 group 14

```
!
crypto ikev2 policy GRE_POLICY
 proposal GRE_PROPOSAL
!
crypto ikev2 keyring GRE_KEYRING
 peer SITE-02
  address 200.150.100.254
  pre-shared-key local Change_me_123!
  pre-shared-key remote Toor_!
 !
!
crypto ikev2 profile GRE_IKEV2_PROFILE
 match identity remote address 200.150.100.254
 authentication remote pre-share
 authentication local pre-share
 keyring local GRE_KEYRING
!
crypto ipsec transform-set GRE_TSET esp-aes esp-sha-hmac
 mode transport
!
crypto ipsec profile GRE_IPSEC_PROFILE
 set transform-set GRE_TSET
 set ikev2-profile GRE_IKEV2_PROFILE
```

!

```
interface Tunnel2024
 ip address 172.16.192.170 255.255.255.252
 ip mtu 1400
 ip tcp adjust-mss 1360
 tunnel source 200.150.100.254
 tunnel destination 24.5.6.254
 tunnel protection ipsec profile GRE_IPSEC_PROFILE
!
crypto ikev2 proposal GRE_PROPOSAL
 encryption aes-cbc-256
 integrity sha256
 group 14
!
crypto ikev2 policy GRE_POLICY
 proposal GRE_PROPOSAL
!
crypto ikev2 keyring GRE_KEYRING
 peer SITE-01
  address 24.5.6.254
  pre-shared-key local Toor_!
  pre-shared-key remote Change_me_123!
```

```
!
!
crypto ikev2 profile GRE_IKEV2_PROFILE
 match identity remote address 24.5.6.254
 authentication remote pre-share
 authentication local pre-share
 keyring local GRE_KEYRING
!
crypto ipsec transform-set GRE_TSET esp-aes esp-sha-hmac
 mode transport
!
crypto ipsec profile GRE_IPSEC_PROFILE
 set transform-set GRE_TSET
 set ikev2-profile GRE_IKEV2_PROFILE
!
```