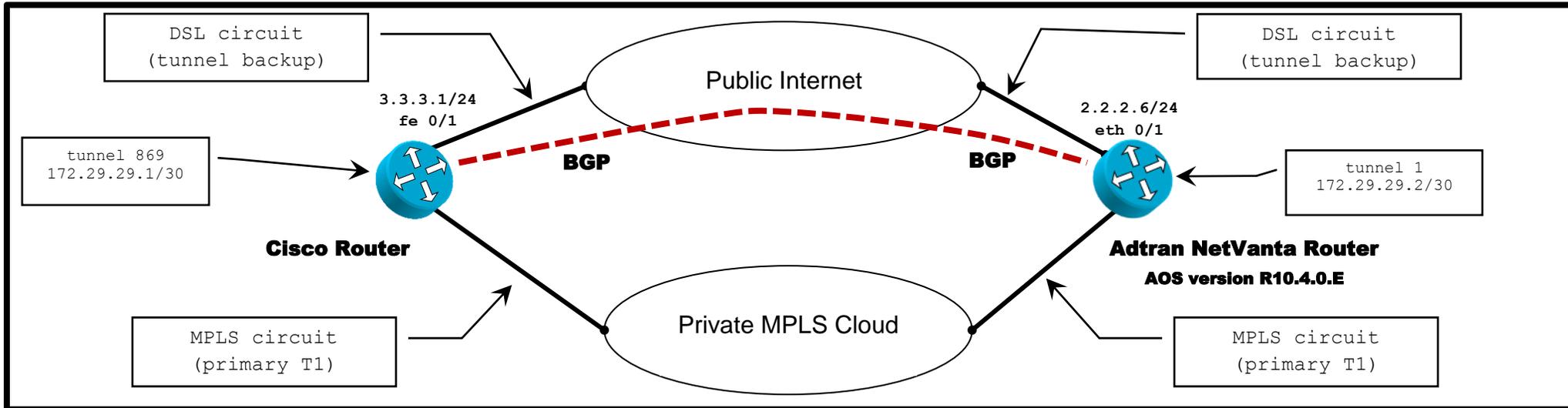


*** Adtran to Cisco Tunnel Configuration ***



Adtran Crypto Commands

```
sh crypto ike remote-id
sh crypto ike sa {brief}
sh crypto ike policy
sh crypto ipsec sa {brief}
sh crypto ipsec transform-set
```

Adtran BGP Commands

```
sh bgp ipv4 neighbors x.x.x.x {routes} | {advertised-routes} | {received-routes}
sh bgp ipv4 summary
```

Configuration Footnotes

1. These "nat-traversal" lines are *sometimes* required for compatibility with Cisco defaults
2. This line *may* or *may not* need the following sections, experiment to find which works for you:
 - a. "ike-policy 100"
 - b. "crypto map VPN 10"
 - c. "no-mode-config"
 - d. "no-xauth"
3. As of October 2012, Adtran AOS only supports "mode tunnel". If the other side is configured for "mode transport", then it will negotiate (fall back to) "mode tunnel"
4. For troubleshooting, bouncing the public interface on the Adtran may work better than clearing crypto on the other side

Adtran Configuration

```

!
ip firewall
!
ip crypto
!
crypto ike policy 100
  initiate main
  respond main
  local-id address 2.2.2.6
  nat-traversal v1 disable <----- 1
  nat-traversal v2 force <----- 1
  peer 3.3.3.1
  attribute 1
    encryption 3des
    hash md5
    authentication pre-share
    group 2
    lifetime 3600
!
crypto ike remote-id address 3.3.3.1 preshared-key Monchichi ike-policy 100 crypto map VPN 10 no-mode-config no-xauth <----- 2
!
crypto ipsec transform-set my-t-set esp-3des esp-md5-hmac
  mode tunnel <----- 3
!
crypto map VPN 10 ipsec-ike
  description GRE Tunnel Peer
  match address VPN-Selectors
  set peer 3.3.3.1
  set transform-set my-t-set
  set security-association lifetime kilobytes 216000
  set security-association lifetime seconds 3600
  set pfs group2
  ike-policy 100
!
interface eth 0/1
  description CONN TO PUBLIC INTERNET
  ip address 2.2.2.6 255.255.255.0
  ip access-policy Public
  crypto map VPN
  no shutdown
!
interface tunnel 1 gre ip
  ip address 172.29.29.2 255.255.255.252
  ip mtu 1400
  tunnel source 2.2.2.6
  tunnel destination 3.3.3.1
  no shutdown
!
router bgp 65001
  neighbor 172.29.29.1
    description BGP NEIGHBORSHIP ACROSS TUNNEL
    remote-as 65020
    no shutdown
  exit
  address-family ipv4
    network 192.168.1.0 mask 255.255.255.0
    neighbor 172.29.29.1
      soft-reconfiguration inbound
      no shutdown
    exit
  exit
!
ip access-list extended AdminAccess
  remark Public Admin Access
  permit tcp any any eq ssh
  permit tcp any any eq https
!
ip access-list extended allow-icmp
  permit icmp any any
!
ip access-list extended VPN-Selectors
  remark GRE Tunnel Selectors
  permit gre host 2.2.2.6 host 3.3.3.1
!
ip policy-class Public
  allow reverse list VPN-Selectors stateless
  allow list AdminAccess self
  allow list allow-icmp self stateless
!
ip route 3.3.3.1 255.255.255.255 << x.x.x.x >> <----- where x.x.x.x is the next hop to the Internet
!
end

```

Cisco Configuration

```

!
crypto keyring my-keyring
  pre-shared-key address 2.2.2.6 key Monchichi
!
crypto isakmp policy 1
  encr 3des
  hash md5
  authentication pre-share
  group 2
!
crypto isakmp profile my-isakmp-profile
  keyring my-keyring
  match identity address 2.2.2.6 255.255.255.255
!
crypto ipsec transform-set my-t-set esp-3des esp-md5-hmac
  mode transport
!
crypto ipsec profile my-ipsec-profile
  set security-association lifetime kilobytes 216000
  set security-association lifetime seconds 3600
  set transform-set my-t-set
  set pfs group2
  set isakmp-profile my-isakmp-profile
!
interface Loopback0
  ip address 4.4.4.4 255.255.255.255
!
interface FastEthernet0/1
  description CONN TO INTERNET
  ip address 3.3.3.1 255.255.255.0
  duplex auto
  speed auto
!
interface Tunnel869
  ip address 172.29.29.1 255.255.255.252
  ip tcp adjust-mss 1400
  ip ospf mtu-ignore
  tunnel source 3.3.3.1
  tunnel destination 2.2.2.6
  tunnel protection ipsec profile my-ipsec-profile
!
router bgp 65020
  bgp log-neighbor-changes
  neighbor 172.29.29.2 remote-as 65001
!
  address-family ipv4
    neighbor 172.29.29.2 activate
    neighbor 172.29.29.2 route-map AS-PREPEND out
    no auto-summary
    no synchronization
    network 4.4.4.4 mask 255.255.255.255
  exit-address-family
!
route-map AS-PREPEND permit 10
  set as-path prepend 65020 65020
!
ip route 2.2.2.6 255.255.255.255 << x.x.x.x >> <----- where x.x.x.x is the next hop to the Internet
!
end

```