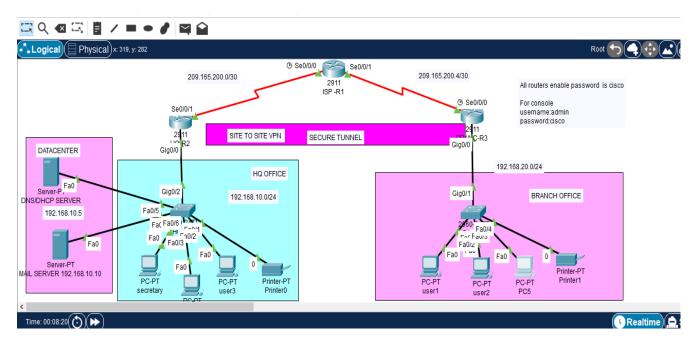
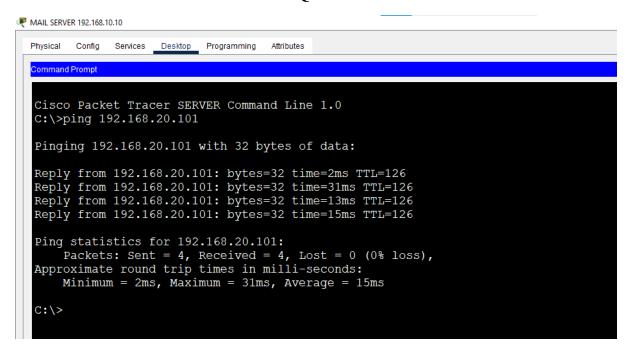
ENTERPRISENETWORK WITH SITE TO SITE VPN



Communication from HQ mail server to Branch LAN



LAN pc to Mail server

IPSec Vpn Data encryption as from HQ to BRANCH

To verify and see how the Site to site VPN tunnel encrypts data use

Show crypto ipsec sa

```
₹ HQ-R2
  Physical
           Config CLI Attributes
                                                                                           IOS Command Line Interface
   HO-R2#sh
   HO-R2#show c
   HQ-R2#show cr
   HQ-R2#show crypto ip
   HQ-R2#show crypto ipsec sa
    interface: Serial0/0/1
          Crypto map tag: VPN-MAP, local addr 209.165.200.1
        protected vrf: (none)
        local ident (addr/mask/prot/port): (192.168.10.0/255.255.255.0/0/0)
        remote ident (addr/mask/prot/port): (192.168.20.0/255.255.255.0/0/0) current_peer 209.165.200.6 port 500 PERMIT, flags={origin_is_acl,}
         #pkts encaps: 36, #pkts encrypt: 36, #pkts digest: 0
        #pkts encaps: 30, #pkts encrypt: 30, #pkts digest: 0
#pkts decaps: 28, #pkts decrypt: 28, #pkts verify: 0
#pkts compressed: 0, #pkts decompressed: 0
#pkts not compressed: 0, #pkts compr. failed: 0
#pkts not decompressed: 0, #pkts decompress failed: 0
        #send errors 0, #recv errors 0
           local crypto endpt.: 209.165.200.1, remote crypto endpt.:209.165.200.6 path mtu 1500, ip mtu 1500, ip mtu idb Serial0/0/1 current outbound spi: 0x1F7B61C9(528179657)
```

```
local crypto endpt.: 209.165.200.1, remote crypto endpt.:209.165.200.6
path mtu 1500, ip mtu 1500, ip mtu idb Serial0/0/1
current outbound spi: 0x1F7B61C9(528179657)

inbound esp sas:
spi: 0x0BB4442F(196363311)
    transform: esp-aes esp-sha-hmac ,
    in use settings ={Tunnel, }
    conn id: 2001, flow_id: FFGA:1, crypto map: VPN-MAP
    sa timing: remaining key lifetime (k/sec): (4525504/2854)
    IV size: 16 bytes
    replay detection support: N
    Status: ACTIVE

inbound ah sas:
inbound pcp sas:
outbound esp sas:
spi: 0x1F7B61C9(528179657)
    transform: esp-aes esp-sha-hmac ,
    in use settings ={Tunnel, }
    conn id: 2002, flow_id: FFGA:1, crypto map: VPN-MAP
    sa timing: remaining key lifetime (k/sec): (4525504/2854)
    IV size: 16 bytes
```