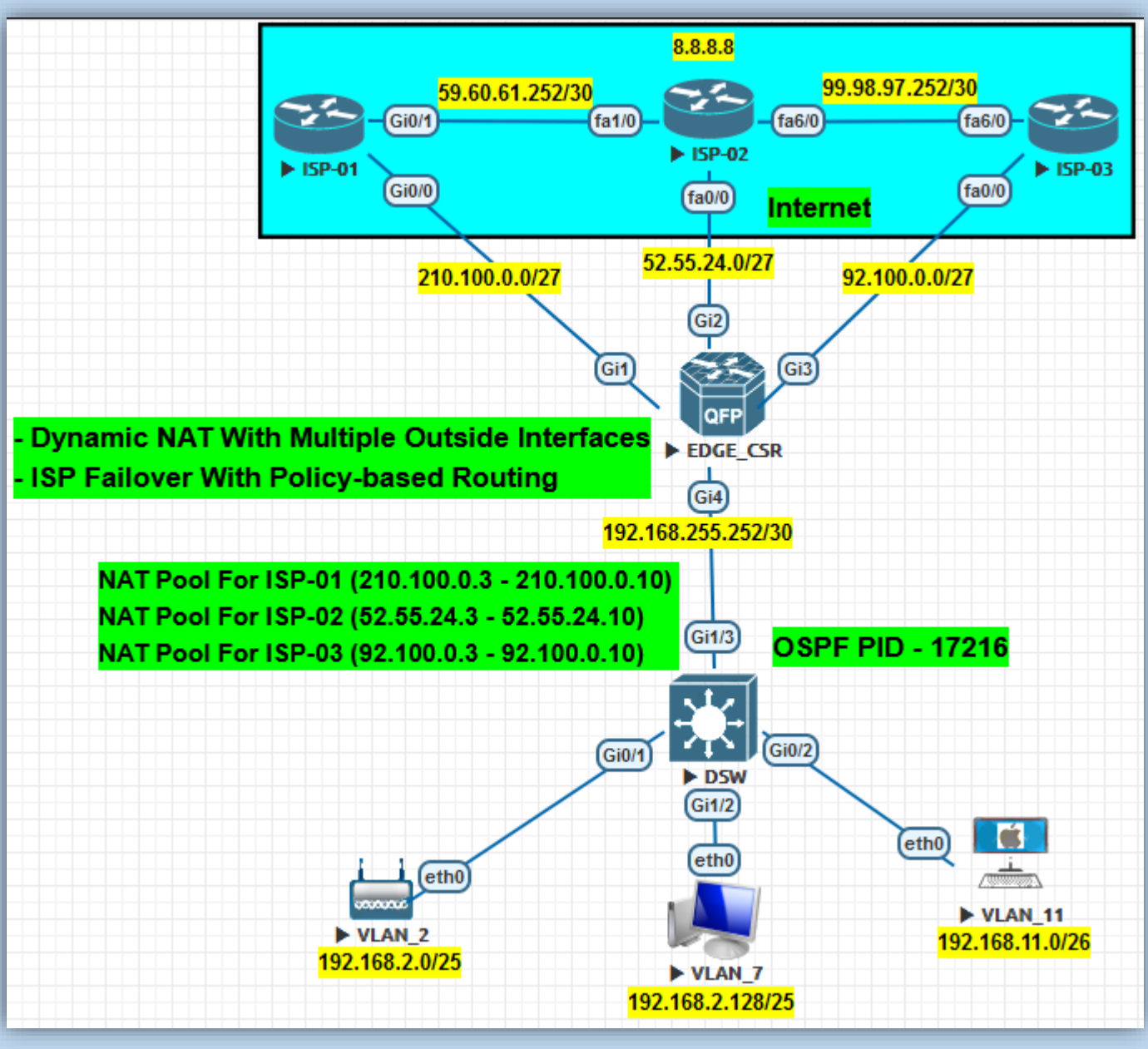
Dynamic NAT With Multiple Outside Interfaces

And

ISP Failover With Policy–based Routing



1.VLAN–2 must be internet failover in the order of **ISP–01, ISP–02, ISP–03.**

2.VLAN–7 must be internet failover in the order of **ISP–02, ISP–03, ISP–01.**

3.VLAN–11 must be internet failover in the order of **ISP–03, ISP–01, ISP–02.**

NAT Configuration

EDGE-CSR

```
ip access-list extended NAT-ACL
 permit ip 192.168.2.0 0.0.0.127 any
 permit ip 192.168.2.128 0.0.0.127 any
 permit ip 192.168.11.0 0.0.0.63 any
 deny   ip any any
!
ip nat pool ISP-01 210.100.0.3 210.100.0.10 netmask 255.255.255.224
ip nat pool ISP-02 52.55.24.3 52.55.24.10 netmask 255.255.255.224
ip nat pool ISP-03 92.100.0.3 92.100.0.10 netmask 255.255.255.224
!
route-map ISP-01 permit 10
 match ip address NAT-ACL
 match interface GigabitEthernet1
!
route-map ISP-02 permit 10
 match ip address NAT-ACL
 match interface GigabitEthernet2
!
route-map ISP-03 permit 10
 match ip address NAT-ACL
 match interface GigabitEthernet3
```

!

ip nat inside source route-map **ISP-01** pool **ISP-01**

ip nat inside source route-map **ISP-02** pool **ISP-02**

ip nat inside source route-map **ISP-03** pool **ISP-03**

!

interface **GigabitEthernet1**

ip nat **outside**

!

interface **GigabitEthernet2**

ip nat **outside**

!

interface **GigabitEthernet3**

ip nat **outside**

!

interface **GigabitEthernet4.1001**

ip nat **inside**

!

ISP Failover With PBR

EDGE-CSR

ip sla **100**

icmp-echo 210.100.0.1 source-ip 210.100.0.2

threshold 200

timeout 250

```
 frequency 3
!
ip sla schedule 100 life forever start-time now
!
ip sla 200
 icmp-echo 52.55.24.1 source-ip 52.55.24.2
 threshold 200
 timeout 250
 frequency 3
!
ip sla schedule 200 life forever start-time now
!
ip sla 300
 icmp-echo 92.100.0.1 source-ip 92.100.0.2
 threshold 200
 timeout 250
 frequency 3
!
ip sla schedule 300 life forever start-time now
!
track 100 ip sla 100 reachability
 delay down 1 up 1
!
```

```
track 200 ip sla 200 reachability
 delay down 1 up 1
!
track 300 ip sla 300 reachability
 delay down 1 up 1
!
ip access-list extended VLAN-02
 permit ip 192.168.2.0 0.0.0.127 any
 deny   ip any any
!
ip access-list extended VLAN-07
 permit ip 192.168.2.128 0.0.0.127 any
 deny   ip any any
!
ip access-list extended VLAN-11
 permit ip 192.168.11.0 0.0.0.63 any
 deny   ip any any
!
route-map ISP-PBR permit 10
 match ip address VLAN-02
 set ip next-hop verify-availability 210.100.0.1 10 track 100
 set ip next-hop verify-availability 52.55.24.1 20 track 200
 set ip next-hop verify-availability 92.100.0.1 30 track 300
```

```
!
route-map ISP-PBR permit 20
 match ip address VLAN-07
 set ip next-hop verify-availability 52.55.24.1 10 track 200
 set ip next-hop verify-availability 92.100.0.1 20 track 300
 set ip next-hop verify-availability 210.100.0.1 30 track 100
!
route-map ISP-PBR permit 30
match ip address VLAN-11
 set ip next-hop verify-availability 92.100.0.1 10 track 300
 set ip next-hop verify-availability 210.100.0.1 20 track 100
 set ip next-hop verify-availability 52.55.24.1 30 track 200
!
interface GigabitEthernet4.1001
ip policy route-map ISP-PBR
!
```