

1. Replaces ROAS like in vlans 2 with a p to p layer 3 connection use the ip address given in the network diagram and configure a default route on sw2 w/ r1 g0/0 interface as the next hop to the isp

## R1#do ip int br

```
R1(config) #do sh ip int br
Interface IP-Address OK? Method Status Protocol
GigabitEthernet0/0 unassigned YES NVRAM up up
GigabitEthernet0/0.10 10.0.0.62 YES manual up up
GigabitEthernet0/0.20 10.0.0.126 YES manual up up
GigabitEthernet0/0.30 10.0.0.190 YES manual up up
GigabitEthernet0/1 unassigned YES NVRAM administratively down down
GigabitEthernet0/2 unassigned YES NVRAM administratively down down
GigabitEthernet0/0/0 1.1.1.2 YES manual up up
Vlanl unassigned YES unset administratively down down
R1(config) #int g0/0.10
```

R1#int g0/0

R1#ip address 10.0.0.194 255.255.255.252

R1#no shut

R1#ip address 10.0.0.194 255.255.255.252

R1#no interface 0/0.10

R1#no interface 0/0.20

R1#no interface 0/0.30

## Sw2#int g1/0/2

Sw2#no switchport (this makes it a routable port from layer 2 switching to layer 3) Sw2#ip address 10.0.0.193 255.255.255.252

Sw2#ip routing (allows the switch to perform routing functions between vlans layer 3 routing so you cannot do the command do sh ip route until you do this command) Sw2#ip route 0.0.0.0 0.0.0.0 10.0.0.194

2. Configure svis on sw2 one for each vlan assign the last use ip address of each subnet to the appropriate svi

Sw2#do sh vlan br

```
VLAN0010
VLAN0020

sw2#int vlan 10
sw2#ip address 10.0.0.62 255.255.255.192
sw2#int vlan 20
sw2#ip address 10.0.0.126 255.255.255.192
Sw2#int vlan 30
sw2#ip address 10.0.0.190 255.255.255.192
```

sw2#do sh ip int br (to check the vlan ip address)

3. Test the interval routing

```
Packet Tracer PC Command Line 1.0
C:\>
C:\>
C:\>
ping 10.0.0.129

Pinging 10.0.0.129 with 32 bytes of data:

Request timed out.
Reply from 10.0.0.129: bytes=32 time<lms TTL=127
Reply from 10.0.0.129: bytes=32 time<lms TTL=127
Reply from 10.0.0.129: bytes=32 time=lms TTL=127
Ping statistics for 10.0.0.129:
Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 1ms, Average = 0ms
```

4. Test the connectivity to the internet by pinging 1.1.1.1

```
C:\>ping 1.1.1.1

Pinging 1.1.1.1 with 32 bytes of data:

Request timed out.

Request timed out.

Request timed out.

Request timed out.

Reply from 1.1.1.1: bytes=32 time<1ms TTL=253
```