Route Leaking Process
Using import and export maps

This diagram shows an example of how traffic can flow from one VRF to another using import maps. There are many different ways to do this and shown here is just one possible method.

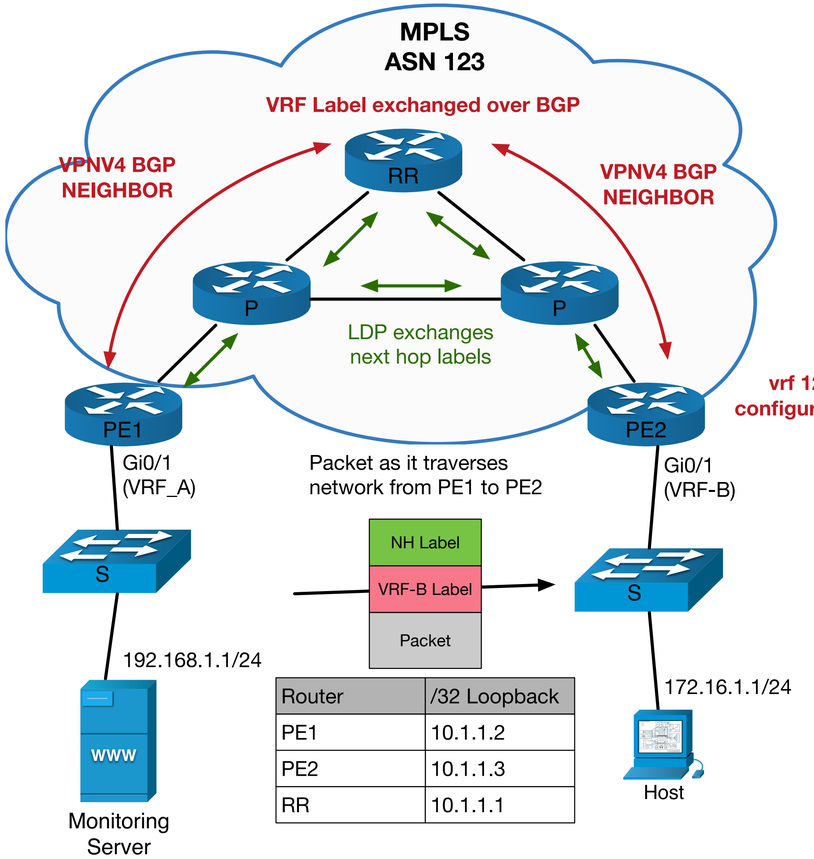
```
ip vrf VRF-A
 description VRF for Customer A
 rd 123:1
 vpn id 123:1
 export map EXPORT-MAP
 route-target export 123:1
 route-target import 123:1
 route-target import 123:2

route-map EXPORT-MAP permit 10
 match ip address prefix-list EXPORT-LIST
 set extcommunity rt 123:2 additive

ip prefix-list EXPORT-LIST seq 5 permit 192.168.1.0/24
```

Import and export your own router target. Import from VRF-B

Make sure to add the rt for the VRF-B vrf as this is what it will be importing (this could have been done as single export statement but is good for security)



Router	/32 Loopback
PE1	10.1.1.2
PE2	10.1.1.3
RR	10.1.1.1

```
ip vrf VRF-B
 description VRF for Customer B
 rd 123:2
 vpn id 123:2
 import map IMPORT-MAP
 route-target export 123:2
 route-target import 123:2
!

route-map IMPORT-MAP permit 10
 match ip address prefix-list IMPORT-LIST
 match extcommunity 10

ip prefix-list IMPORT-LIST seq 5 permit 192.168.1.0/24

ip extcommunity-list 10 permit rt 123:1
```

Importing anything with rt 123:1 that matches IMPORT-LIST

vrf 123:1 is not configured on this PE

```
PE1#sh ip route vrf VRF-A 172.16.1.0 255.255.255.0

Routing Table: VRF-A
Routing entry for 172.16.1.0/24
  Known via "bgp 123", distance 200, metric 0, type
internal
  Last update from 10.1.1.1 1w1d ago
  Routing Descriptor Blocks:
  * 10.1.1.3 (default), from 10.1.1.1, 1w1d ago
      Route metric is 0, traffic share count is 1
      AS Hops 0
      MPLS label: 76
      MPLS Flags: MPLS Required
```

shows the route within the vrf forwarding table

```
PE2#sh bgp vpnv4 unicast vrf VRF-B 192.168.1.0/24
BGP routing table entry for 123:2:192.168.1.0/24, version 39717534
BGP Bestpath: deterministic-med
Paths: (1 available, best #1, table VRF-B)
  Not advertised to any peer
  Refresh Epoch 2
  Local, imported path from 123:1:192.168.1.0/24 (global)
    10.1.1.2 (metric 230) from 10.1.1.1 (10.1.1.1)
      Origin incomplete, metric 0, localpref 100, valid, internal, best
      Extended Community: RT:123:2
      Originator: 10.1.1.2, Cluster list: 0.0.0.1
      mpls labels in/out nolabel/623
      rx pathid: 0, tx pathid: 0x0
PE2#
```

The show bgp command shows there is the rt 123:2 on that route.

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