



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
```

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

```
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
```

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)

```
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

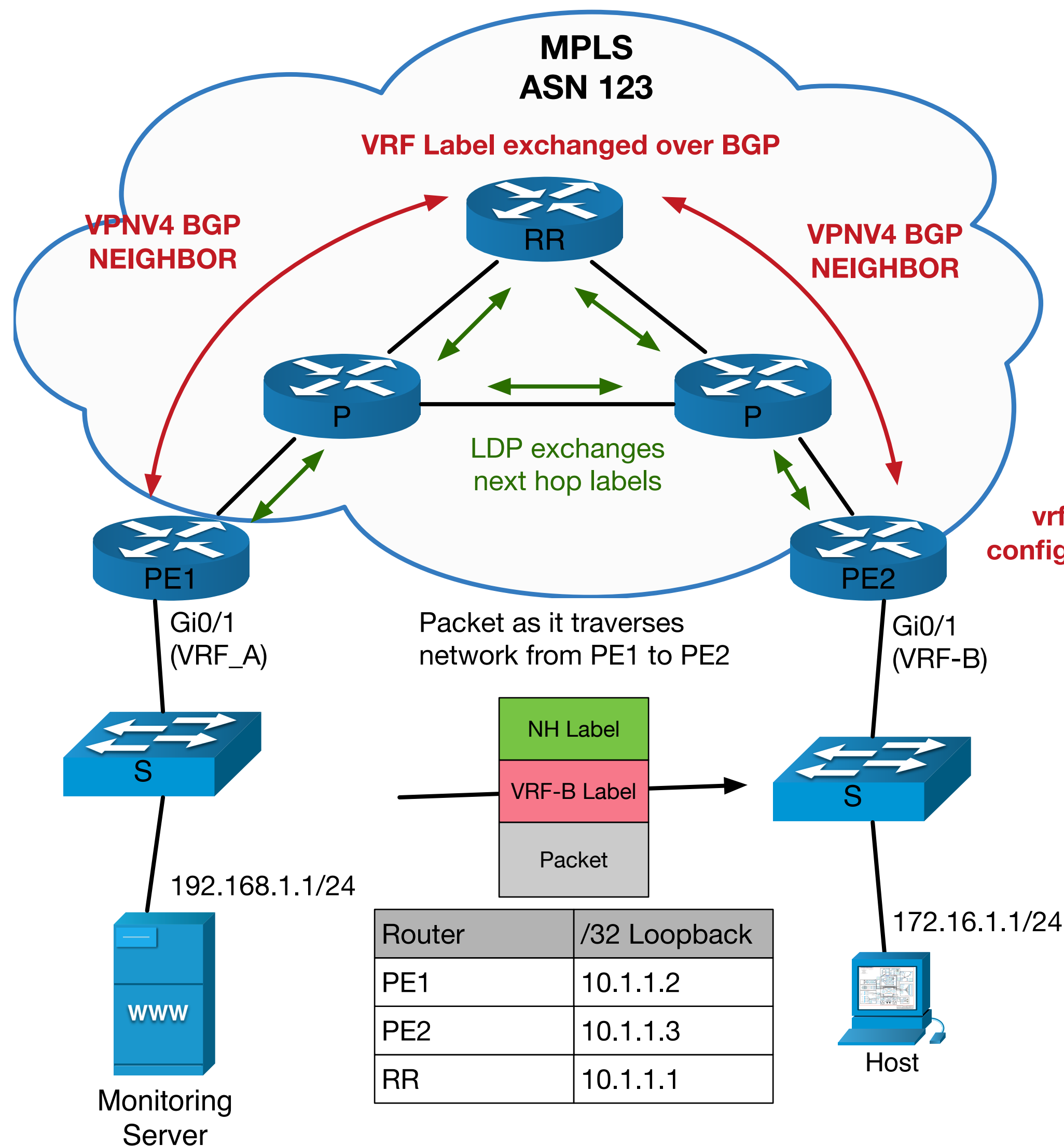
Last update from 10.1.1.1 1w1d ago

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

Route Leaking process using Import and Export Maps



```
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
!
```

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

```
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
```

vrf 123:1 is not configured on this PE

```
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.