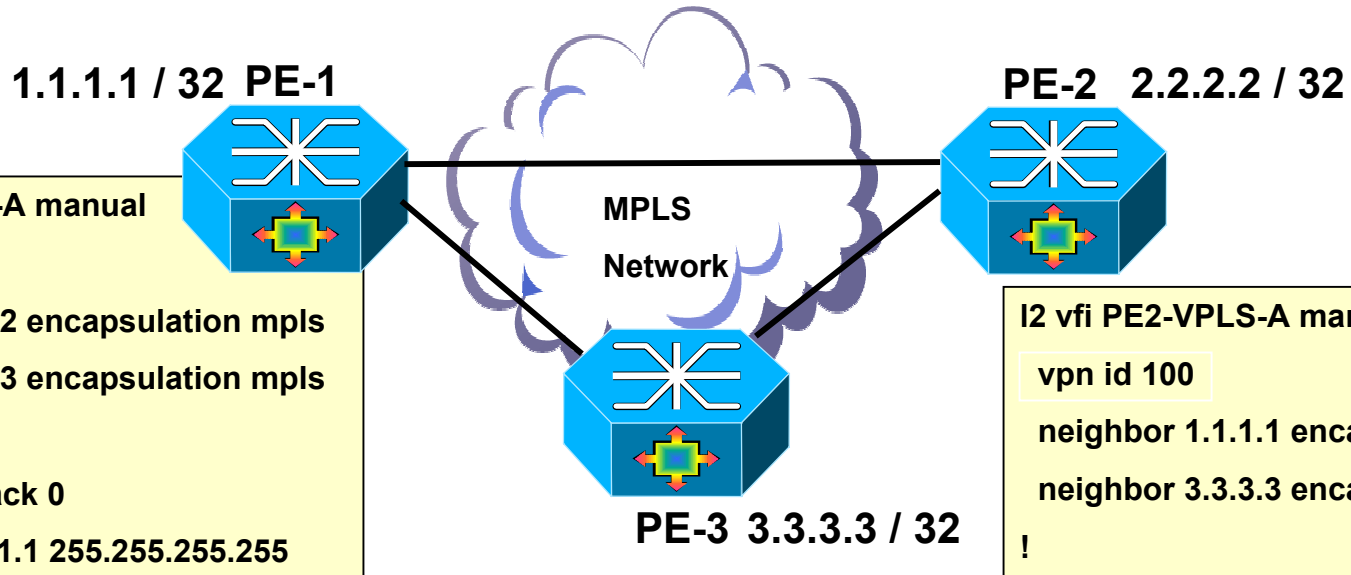


# VPLS: Configuration Example

## PE → PE

Create a L2 VFI with a full mesh of participating VPLS PE nodes



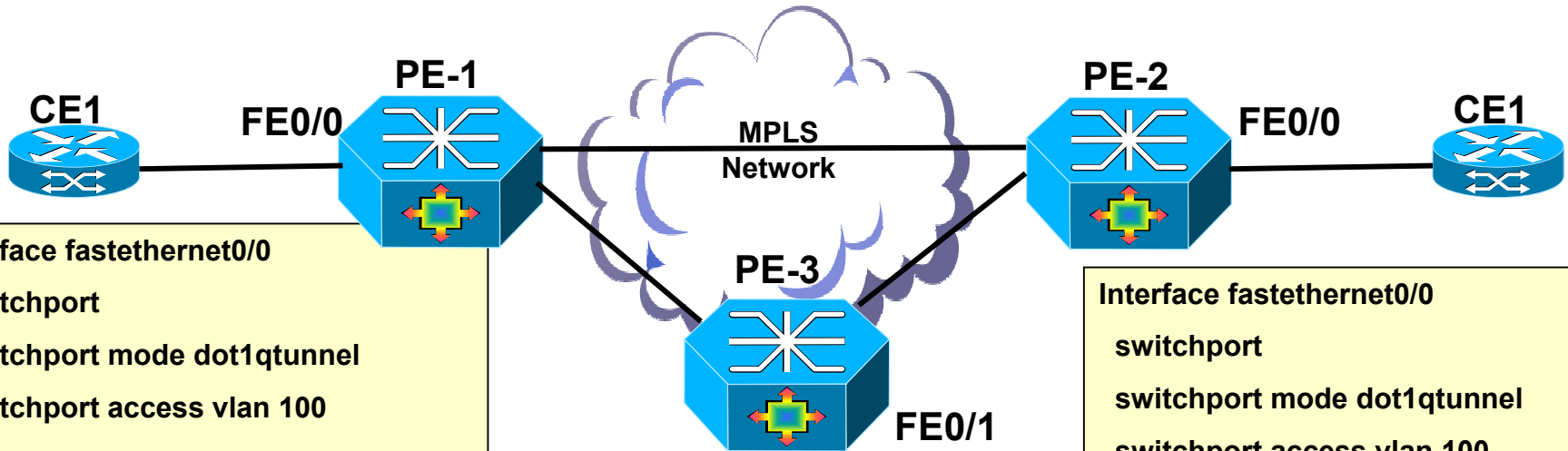
```
I2 vfi PE1-VPLS-A manual
  vpn id 100
  neighbor 2.2.2.2 encapsulation mpls
  neighbor 3.3.3.3 encapsulation mpls
!
Interface loopback 0
  ip address 1.1.1.1 255.255.255.255
```

```
I2 vfi PE2-VPLS-A manual
  vpn id 100
  neighbor 1.1.1.1 encapsulation mpls
  neighbor 3.3.3.3 encapsulation mpls
!
Interface loopback 0
  ip address 2.2.2.2 255.255.255.255
```

```
I2 vfi PE3-VPLS-A manual
  vpn id 100
  neighbor 1.1.1.1 encapsulation mpls
  neighbor 2.2.2.2 encapsulation mpls
!
Interface loopback 0
  ip address 3.3.3.3 255.255.255.255
```

# VPLS: Configuration Example

## PE → CE



```

Interface fastethernet0/0
  switchport
  switchport mode dot1qtunnel
  switchport access vlan 100
!
Interface vlan 100
  no ip address
  xconnect vfi PE1-VPLS-A
!
vlan 100
  state active
  
```

```

Interface fastethernet0/1
  switchport
  switchport mode dot1qtunnel
  switchport access vlan 100
!
Interface vlan 100
  no ip address
  xconnect vfi PE3-VPLS-A ...etc.
  
```

```

Interface fastethernet0/0
  switchport
  switchport mode dot1qtunnel
  switchport access vlan 100
!
Interface vlan 100
  no ip address
  xconnect vfi PE2-VPLS-A
!
vlan 100
  state active
  
```

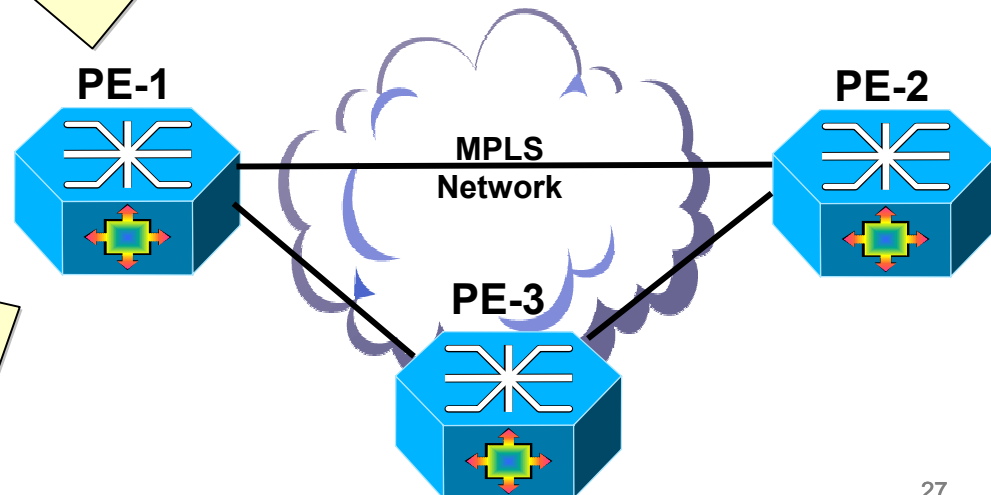
# VPLS: Sample Output

```
VPLS1#show mpls l2 vc
```

Local intf	Local circuit	Dest address	VC ID	Status
Vi1	VFI	22.22.22.22	100	DOWN
Vi1	VFI	22.22.22.22	200	UP
Vi1	VFI	33.33.33.33	100	UP
Vi1	VFI	44.44.44.44	100	UP
Vi1	VFI	44.44.44.44	200	UP

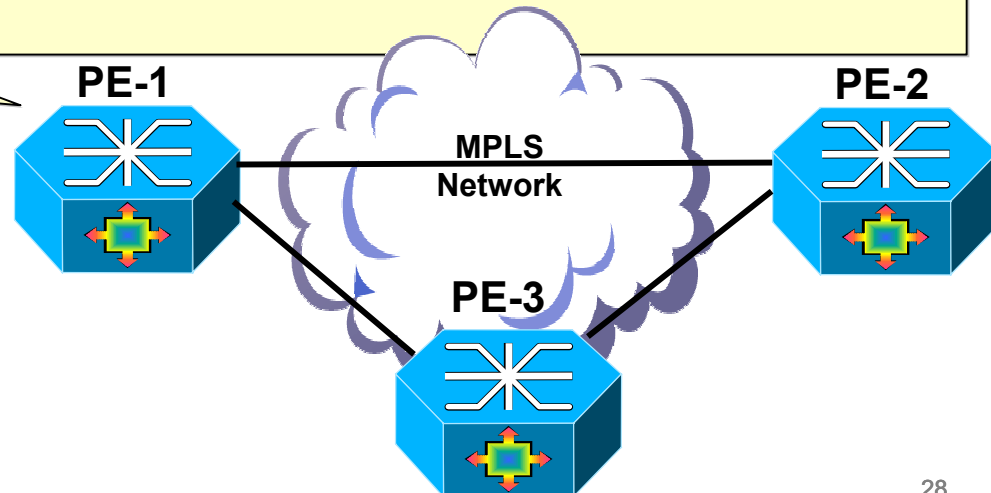
```
PE-1#show vfi PE1-VPLS-A  
WORD VFI name
```

```
PE-1#show vfi PE1-VPLS-A  
VFI name: VPLSA, state: up  
Local attachment circuits:  
Vlan100  
Neighbors connected via pseudowires:  
2.2.2.2 3.3.3.3
```



# VPLS: Sample Output (Cont)

```
VPLS1#show mpls l2transport vc vcid 200 detail
Local interface: Vi1 up, line protocol up, VFI
Destination address: 22.22.22.22, VC ID: 200, VC status: up
  Tunnel label: imp-null, next hop point2point
  Output interface: PO2/1, imposed label stack {16}
  MPLS VC labels: local 18, remote 16
  Group ID: local 200, remote 200
  MTU: local 1500, remote 1500
  Remote interface description:
  Sequencing: receive disabled, send disabled
  VC statistics:
    packet totals: receive 0, send 0
    byte totals:  receive 0, send 0
    packet drops:  receive 0, send 0
  .....cont...for all VPLS PWs sharing a common VC ID
```



Use common AToM “show” commands