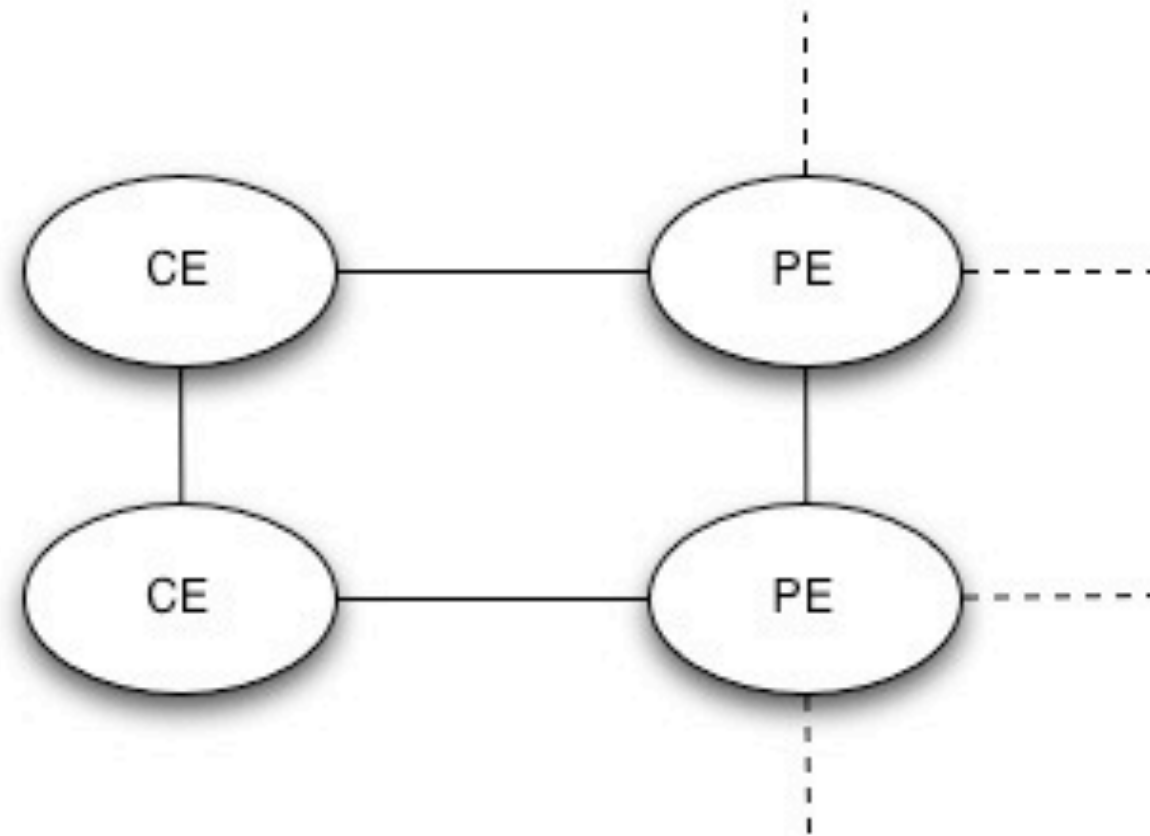# Lab Day

Let's get it on

How Do I Connect?

- telnet (I know, sorry)

- IP address of the server: 220.247.151.246

- Port number: Router Number + 2000

- So for Router1, telnet 220.247.151.246 2001

Configure IP addresses

- Check your worksheets.

- Strictly follow the addressing

Group Layout
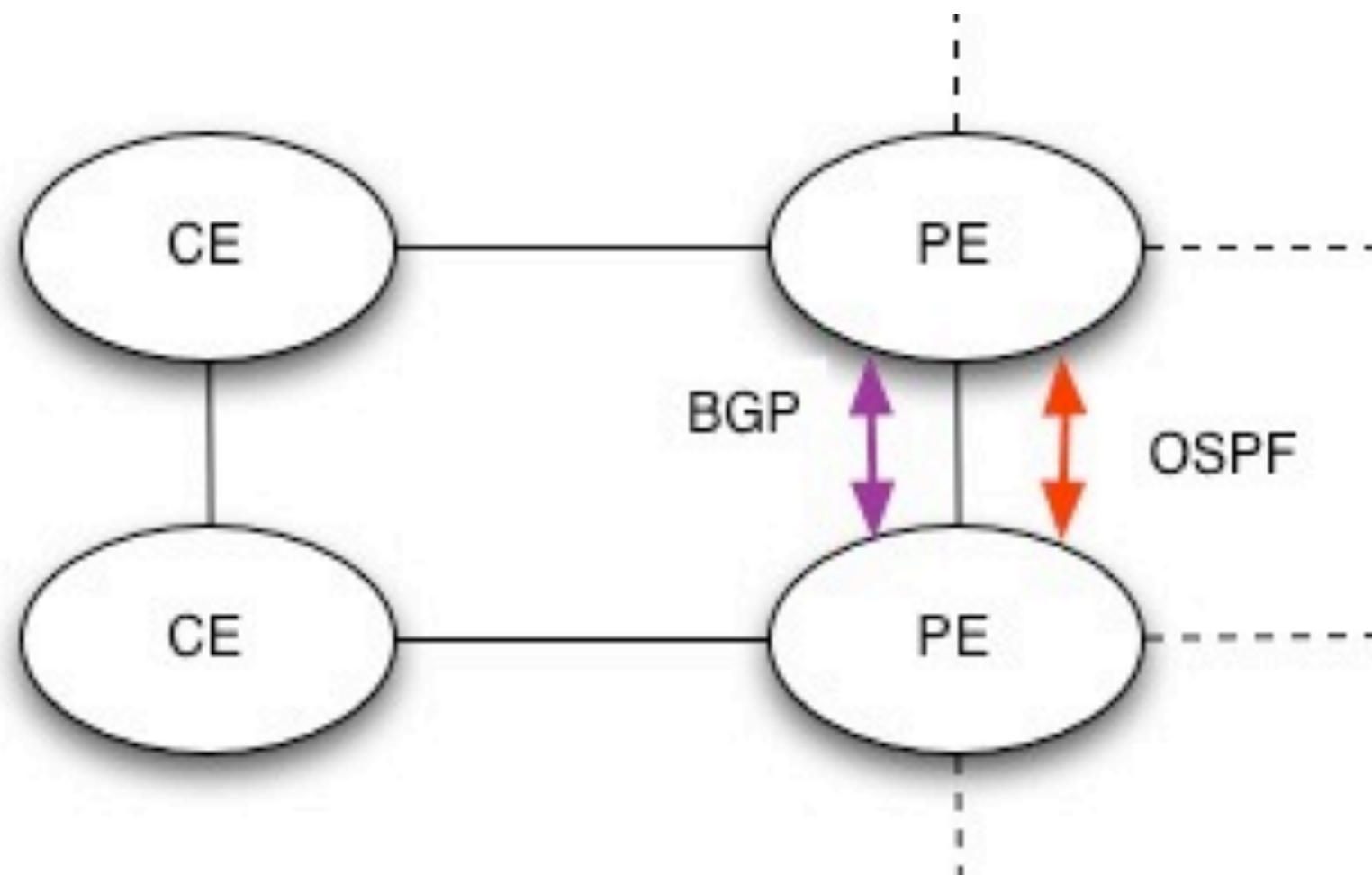
Config Snippet

```
interface EthernetX/X
 description <description>
 ip address <address> <netmask>
 no shutdown
```

Milestone One

- Make sure you can ping each end of the linknet

```
!
no ip domain-lookup
no ip source-route
!
username workshop secret apricot
enable secret apricot
service password-encryption
!
aaa new-model
aaa authentication login default local
aaa authentication enable default enable
!
no logging console
logging buffer 8192 debug
!
line con 0
 transport preferred none
 line vty 0 4
 transport preferred none
 exit
```
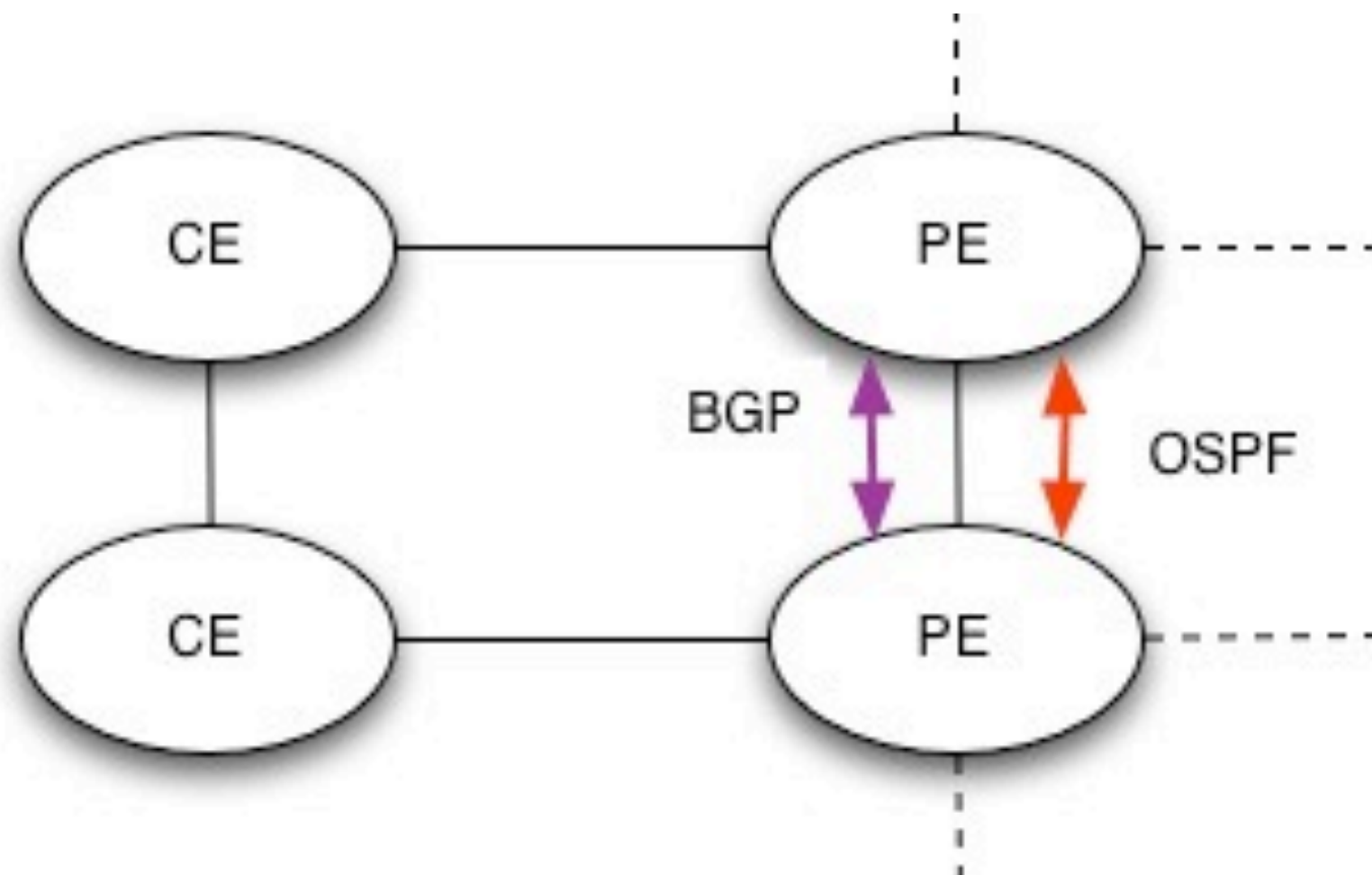
Setup OSPF and iBGP

OSPF

```
router ospf <as>
 passive-interface default
 no passive-interface <interface>
 log-adjacency-changes
 exit
!
interface EthernetX/X
 ip ospf <as> area 0
!
interface Looopback 0
 ip ospf <as> area 0
!
```

Milestone Two

- Check your OSPF neighbours

Setup iBGP

iBGP

```
!
router bgp <as>
neighbor <neighbour loop0> remote-as <as>
neighbor <neighbour loop0> update-source loopback 0
neighbor <neighbour loop0> description iBGP with <remote routername>
!
```
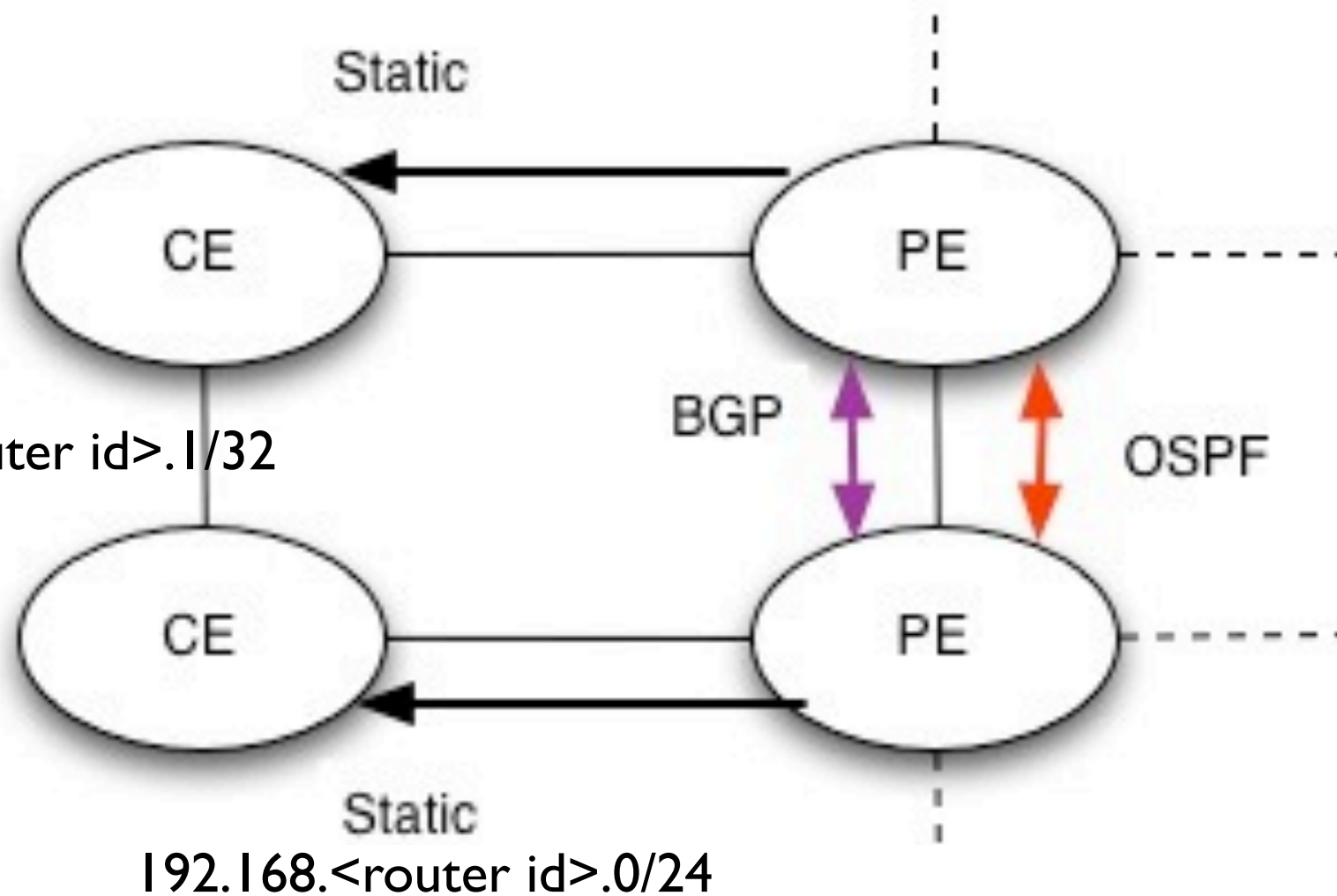
Milestone Three

- Check your iBGP neighbours

Static Routes

- Like a customer with no route protocol.

Static Routes

Configuration Snippet

CE Configuration
!
int Loopback 1
address 192.168.<router id>.1 255.255.255.255
!
ip route 0.0.0.0 0.0.0.0 via <pe interface ip>
!

PE configuration
!
ip route 192.168.<router id>.0 255.255.255.0 null0
ip route 192.168.<route id>.1 255.255.255.255 <CE interface ip>
!
router bgp <as>
network 192.168.<route id>.0 mask 255.255.255.0
!

Milestone last for today

- Ping between CE loopback 1's