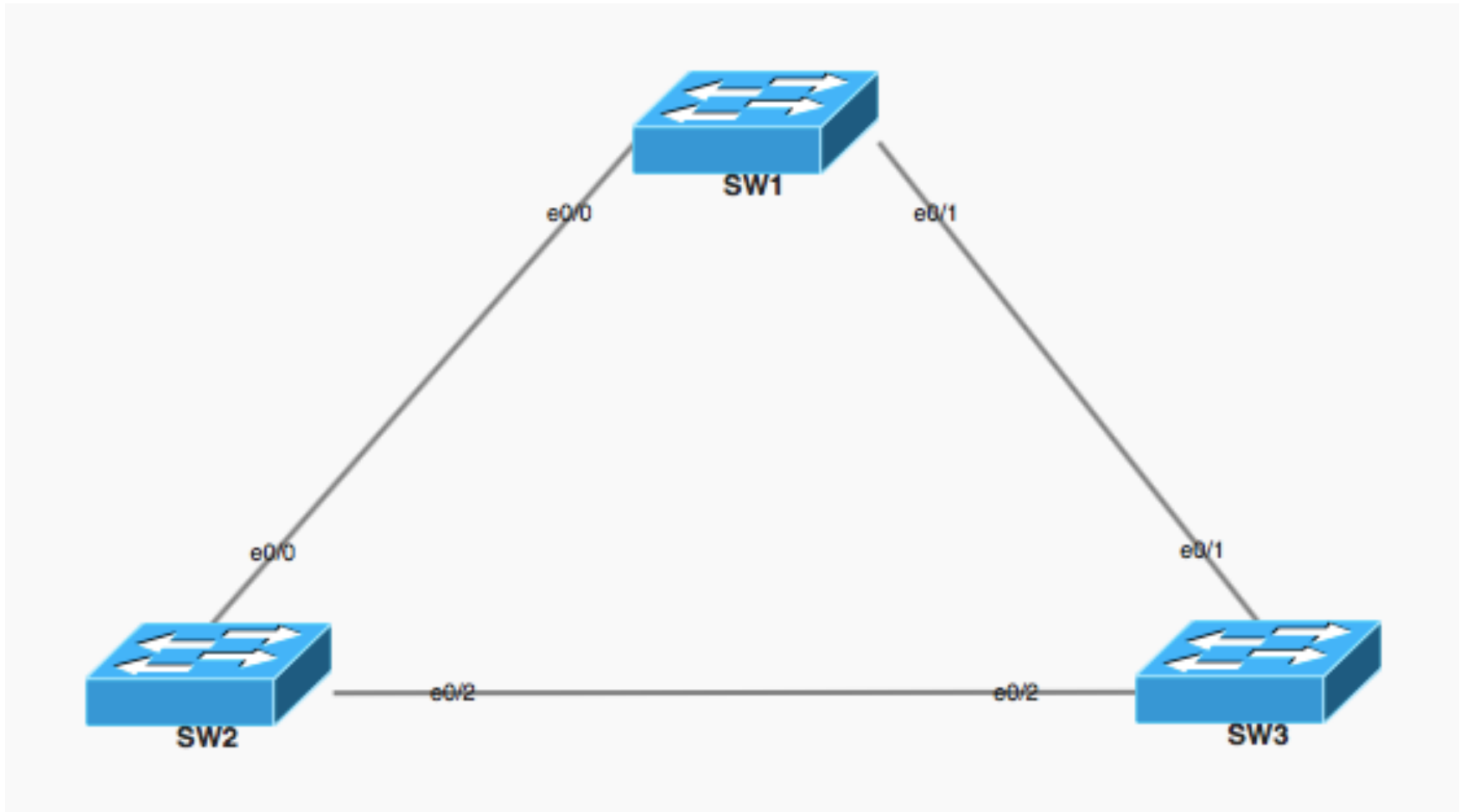# MST LAB

Lab Activity

Topology

IOU NET Map

1:0/0 2:0/0

1:0/1 3:0/1

2:0/2 3:0/2

Goals

- Enable MST on all switches.
- Configure switchport mode trunk for trunk interface
- Create VLAN 10, 20, 30, 40, 50 and 60 on all switches.
- Configure VLAN 10, 20 and 30 to use MST instance 1 for spanning-tree calculation.
- Configure VLAN 40, 50 and 60 to use MST instance 2 for spanning-tree calculation.
- Configure SW1 to be the root bridge for CIST.
- Configure SW2 to be the root bridge for instance 1.
- Configure SW3 to be the root bridge for instance 2.

Config

- Check
  - show vlan-switch
  - show vlan
- Create VLAN
  - vlan <number>
- Configure trunk
  - switchport mode trunk
  - sh int trunk
- Verify
  - show spanning-tree mst
  - show spanning-tree mst configuration
  - show spanning-tree mst <instance number>

Sample Configuration: SW1

```
spanning-tree mode mst
!
int range e0/0-1
 switchport trunk encapsulation dot1q
 switchport mode trunk
!
vlan 10,20,30,40,50,60
!
spanning-tree mst configuration
 name <name>
 revision <number>
 instance 1 vlan 10,20,30
 instance 2 vlan 40,50,60
!
spanning-tree mst 0 root primary
```

Questions?