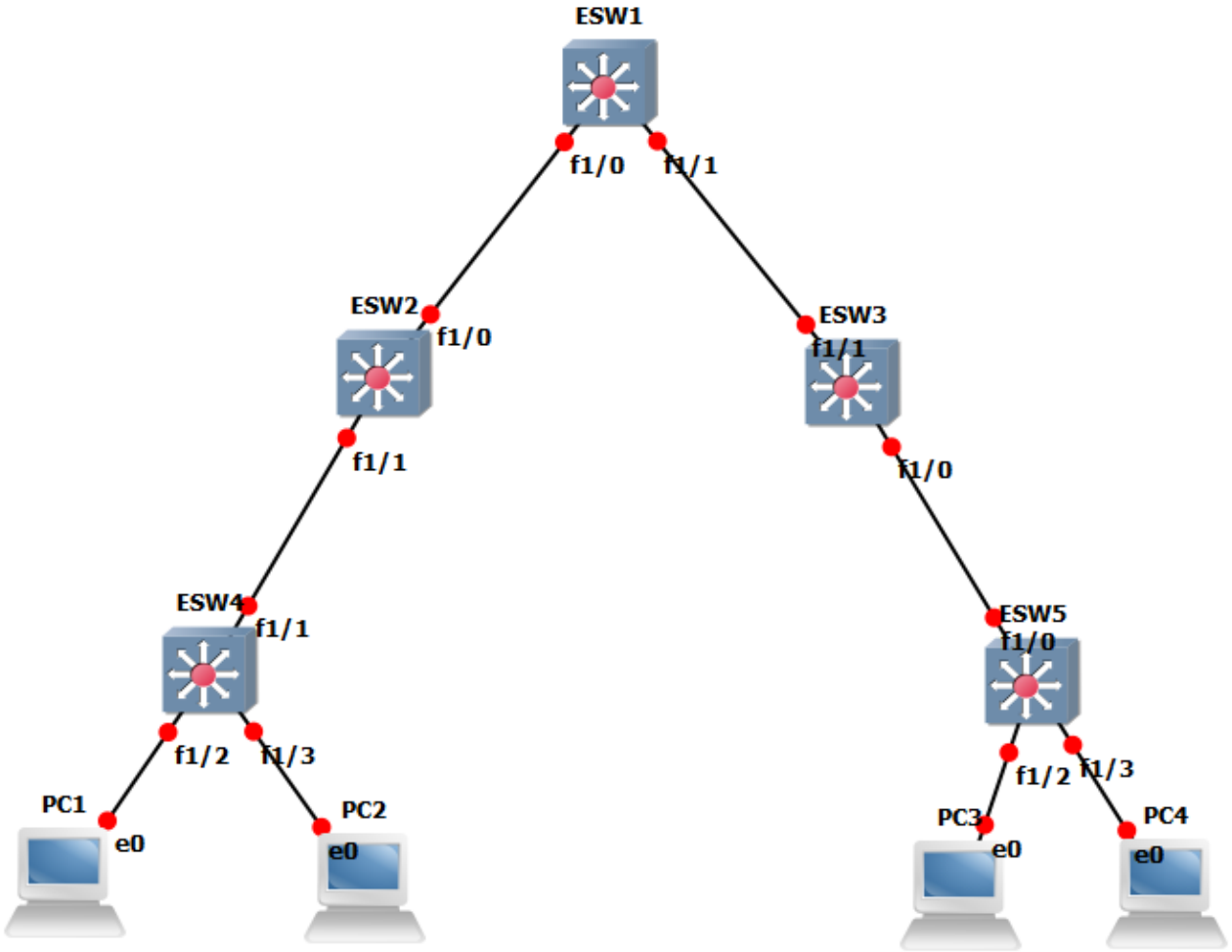
VTP and SVI

Lab Activity

Topology


ESW1
f1/0
f1/1
ESW2
f1/0
f1/1
ESW3
f1/1
f1/0
ESW4
f1/1
f1/2
f1/3
ESW5
f1/0
f1/2
f1/3
PC1
e0
PC2
e0
PC3
e0
PC4
e0

Verification

```
show vlan-switch
show vlans
show interface trunk
show vtp status
```

Goals

- Create VLAN 10 and 20 on switch ESW1
- Configure the interfaces between the switches as trunks.
- Configure ESW1 as the VTP server, ESW2 and ESW3 as VTP Transparent and ESW4 and ESW5 as the VTP client
- Change the VTP domain name to “LAB”.
- Use the password “lab” for VTP.
- Use VTP version 2
- Check VLANs in each switch
  - show vlan-switch
  - VTP client (ESW4 and ESW5) should get VLAN 10 and 20 automatically
  - VTP transparent (ESW2 and ESW3) should not have VLAN 10 or 20

Sample configuration: ESW1

```
interface FastEthernet1/0
 switchport mode trunk
interface FastEthernet1/1
 switchport mode trunk
vtp mode server
vtp domain LAB
vtp password lab
vtp version 2
```

Goals

- Configure Fa1/2 and Fa1/3 in ESW4 and ESW5 as switchport mode access.
  - Fa1/2 in VLAN 10 and Fa1/3 in VLAN 20
- Configure SVI in ESW1
  - Interface VLAN 10 with IP 10.10.10.1/24
  - Interface VLAN 20 with IP 20.20.20.1/24
- Configure IP address in PC
  - PC1 and PC3 from VLAN 10 block with GW as 10.10.10.1
  - PC2 and PC4 from VLAN 20 block with GW as 20.20.20.1
- Configure ip routing in ESW1
- Perform ping test
  - PC1 to PC2, PC3 and PC4

Sample Configuration: ESW1

```
interface Vlan10
 ip address 10.10.10.1 255.255.255.0
interface Vlan20
 ip address 20.20.20.1 255.255.255.0
ip routing
```

Sample Configuration: ESW2

```
Vlan 10
Vlan 20
```

Sample Configuration: ESW4

```
interface FastEthernet1/2
 switchport mode access
 switchport access vlan 10
interface FastEthernet1/3
 switchport mode access
 switchport access vlan 20
```

Sample Configuration: VPCS

PC1, PC2, PC3 and PC4 Configuratio:

ip <ip address> <subnet mask> <gateway>

PC1: ip 10.10.10.2 255.255.255.0 10.10.10.1

PC2: ip 20.20.20.2 255.255.255.0 20.20.20.1