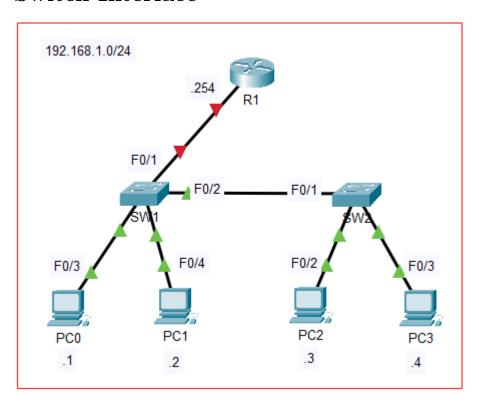
DAY 9 - Switch Interfaces

Purinat33

Switch Interface



From SW1:

• Viewing SW1's interface (Same command as router): show ip interface brief

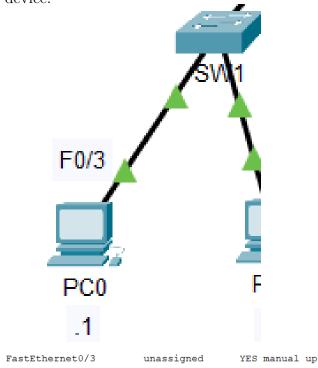
SW1#show ip interface	brief				
Interface	IP-Address	OK?	Method	Status	Protocol
FastEthernet0/1	unassigned	YES	manual	down	down
FastEthernet0/2	unassigned	YES	manual	up	up
FastEthernet0/3	unassigned	YES	manual	up	up
FastEthernet0/4	unassigned	YES	manual	up	up
FastEthernet0/5	unassigned	YES	manual	down	down
FastEthernet0/6	unassigned	YES	manual	down	down
FastEthernet0/7	unassigned	YES	manual	down	down
FastEthernet0/8	unassigned	YES	manual	down	down
FastEthernet0/9	unassigned	YES	manual	down	down
FastEthernet0/10	unassigned	YES	manual	down	down

- None of the interfaces have no IP Assignment because a Switch is a Layer 2 Device while IP Address is a Layer 3 Addressing.
 - There are reasons to assign IP Addresses to Switch's interfaces, but

that comes later.

• Router vs. Switch Interfaces:

- Router interfaces have the shutdown command applied by default (administratively down/down State)
- Switch interfaces DO NOT have the shutdown command applied by default.
 - * Will be in the *up/up* state if connected to another device.
 - * Will be in the **down/down** state if **NOT** connected to another device.



• View Speed and Duplex of each interface via show interfaces status

up

SW1#show	interfaces	status					
Port	Name		Status	Vlan	Duplex	Speed	Type
Fa0/1			notconnect	1	auto	auto	10/100BaseTX
Fa0/2			connected	1	auto	auto	10/100BaseTX
Fa0/3			connected	1	auto	auto	10/100BaseTX
Fa0/4			connected	1	auto	auto	10/100BaseTX
Fa0/5			notconnect	1	auto	auto	10/100BaseTX
Fa0/6			notconnect	1	auto	auto	10/100BaseTX
Fa0/7			notconnect	1	auto	auto	10/100BaseTX
Fa0/8			notconnect	1	auto	auto	10/100BaseTX
Fa0/9			notconnect	1	auto	auto	10/100BaseTX
Fa0/10			notconnect	1	auto	auto	10/100BaseTX
Fa0/11			notconnect	1	auto	auto	10/100BaseTX
Fa0/12			notconnect	1	auto	auto	10/100BaseTX
Fa0/13			notconnect	1	auto	auto	10/100BaseTX

- Name: Description of an interface.
- Status: Connected or Not Connected
- VLAN: Will be covered later.
- **Duplex**: Direction of sending/receiving data.
- **Speed**: Depend on the **Speed of the slower of the two** (The interface *vs.* The device connecting to that interface).
 - * eg: 10 Mbps device connecting to the 100 Mbps port will make

the communication speed of this connection = 10 Mbps.

- Type: 10 (Ethernet, Slower than Fa) and 100 (Fast Ethernet or Fa)
 - * No 1000 or 10G since these are Fa (Fast Ethernet) interfaces an not G (Gigabit Ethernet)