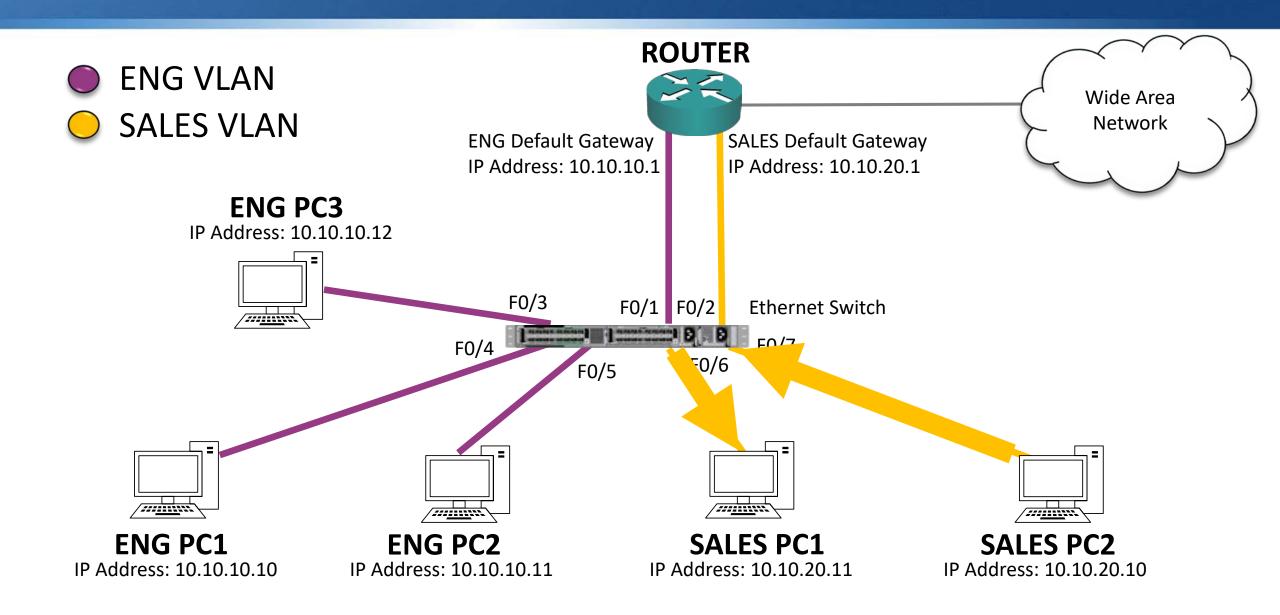
VLAN Access Ports

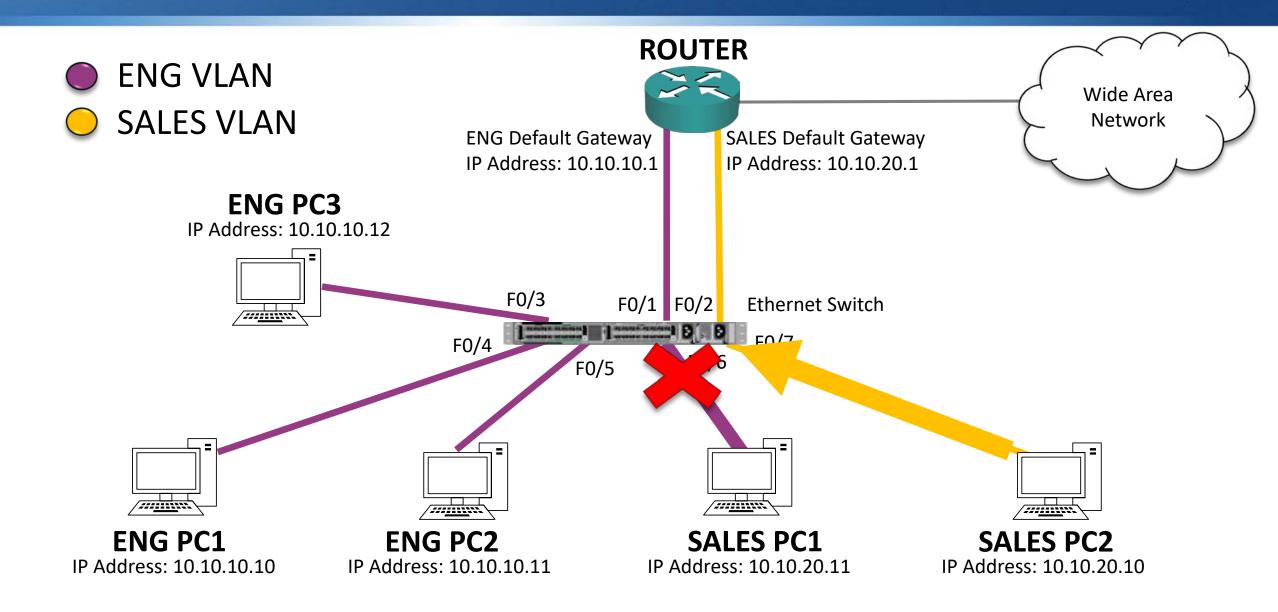
- VLAN access ports are configured on switch interfaces where end hosts are plugged in
- Access ports are configured with one specific VLAN
- The configuration is all on the switch, the end host is not VLAN aware
- Switches only allow traffic within the same VLAN



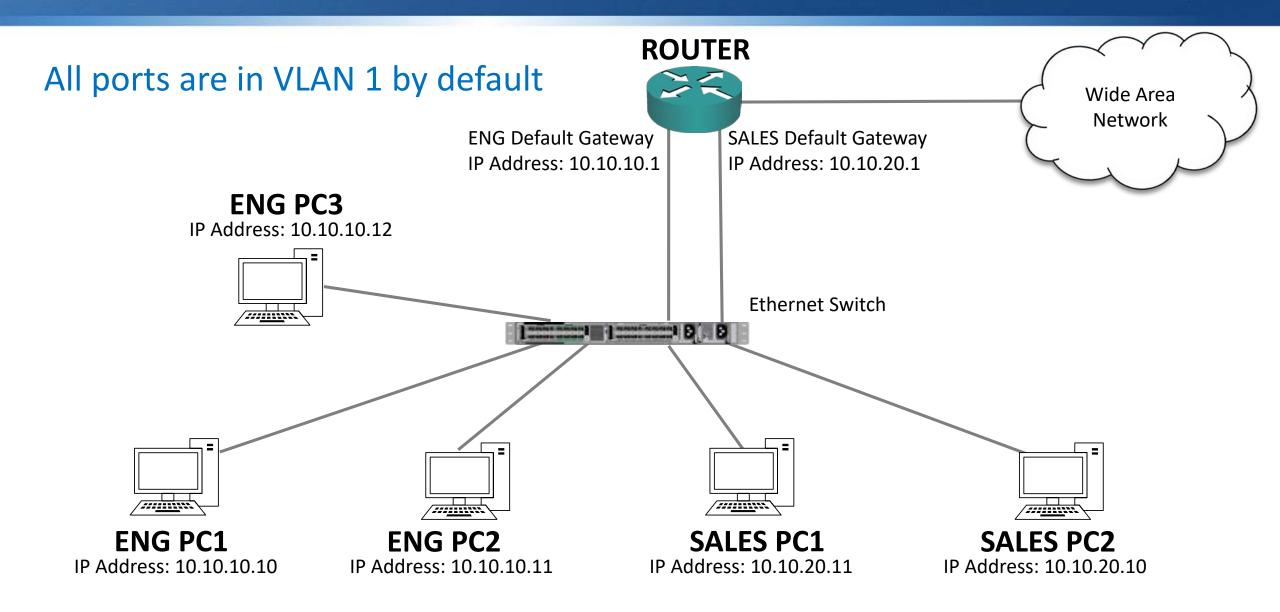
Unicast Traffic within same IP subnet



Misconfigured VLAN



The Default VLAN - VLAN 1



Access Port Configuration – Eng VLAN

```
SW1(config)#vlan 10
SW1(config-vlan)#name Eng
SW1(config)#interface FastEthernet 0/1
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 10
SW1(config)#interface range FastEthernet 0/3 - 5
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 10
```



Access Port Configuration – Sales VLAN

```
SW1(config)#vlan 20
SW1(config-vlan)#name Sales
SW1(config)#interface FastEthernet 0/2
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 20
SW1(config)#interface range FastEthernet 0/6 - 7
SW1(config-if)#switchport mode access
SW1(config-if)#switchport access vlan 20
```



Verification – show vlan brief

SW1#show vlan brief

VLAN	Name	Status	Ports
1	default	active	Fa0/8, Fa0/9, Fa0/10, Fa0/11 Fa0/12, Fa0/13, Fa0/14, Fa0/15 Fa0/16, Fa0/17, Fa0/18, Fa0/19 Fa0/20, Fa0/21, Fa0/22, Fa0/23 Fa0/24, Gig0/1, Gig0/2
10	Eng	active	Fa0/1, Fa0/3, Fa0/4, Fa0/5
20	Sales	active	Fa0/2, Fa0/6, Fa0/7
1002	fddi-default active		
1003	token-ring-default active		
1004	fddinet-default active		
1005	trnet-default active		



Verification – show interface switchport

```
SW1#show interface FastEthernet 0/1 switchport
Name: Fa0/1
Switchport: Enabled
Administrative Mode: static access
Operational Mode: static access
Administrative Trunking Encapsulation: dot1q
Operational Trunking Encapsulation: native
Negotiation of Trunking: Off
Access Mode VLAN: 10 (Eng)
Trunking Native Mode VLAN: 1 (default)
! truncated
```



VLAN Lab

