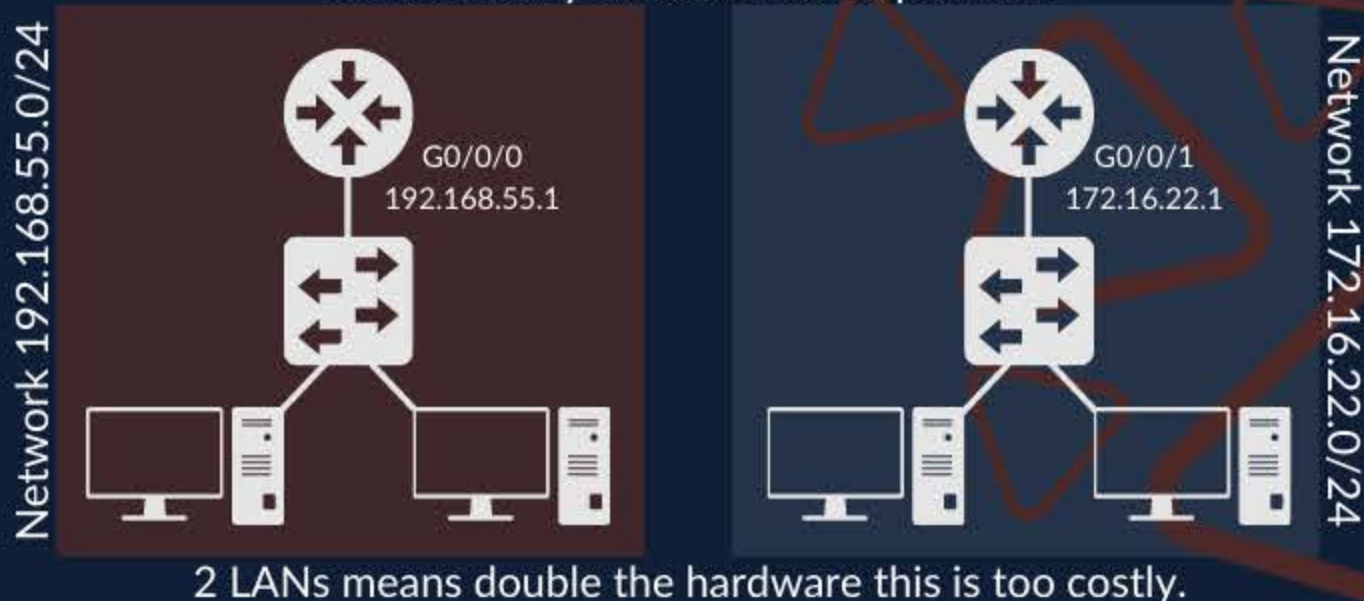
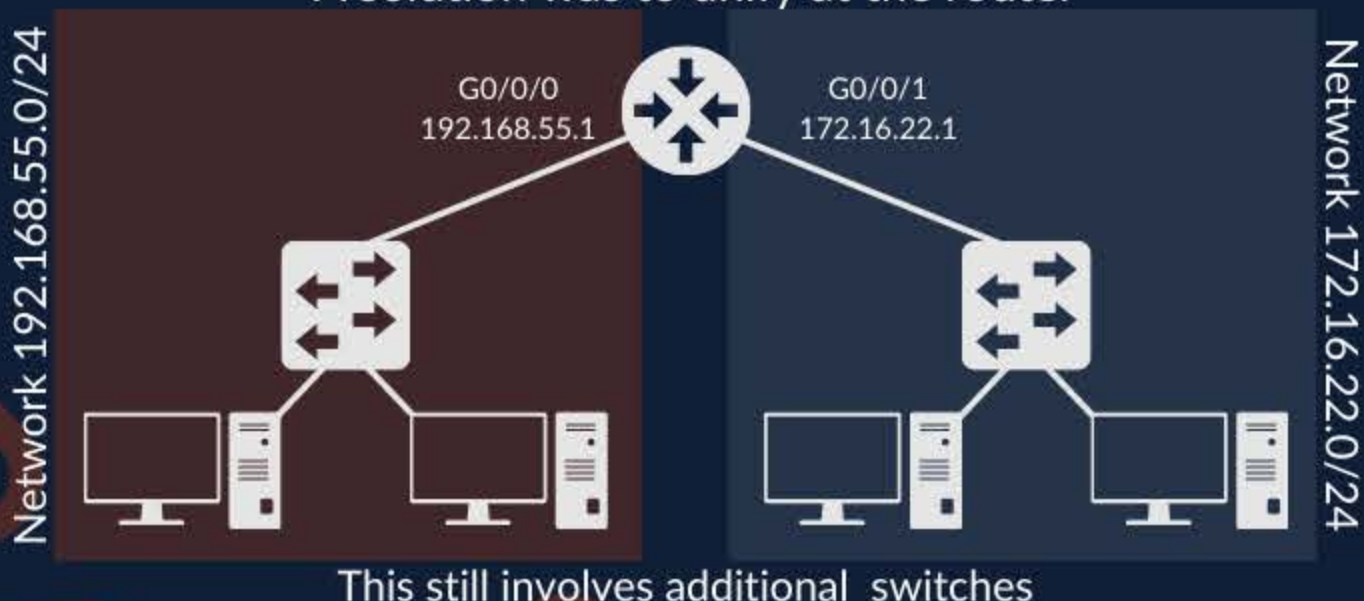


Inter VLAN Routing

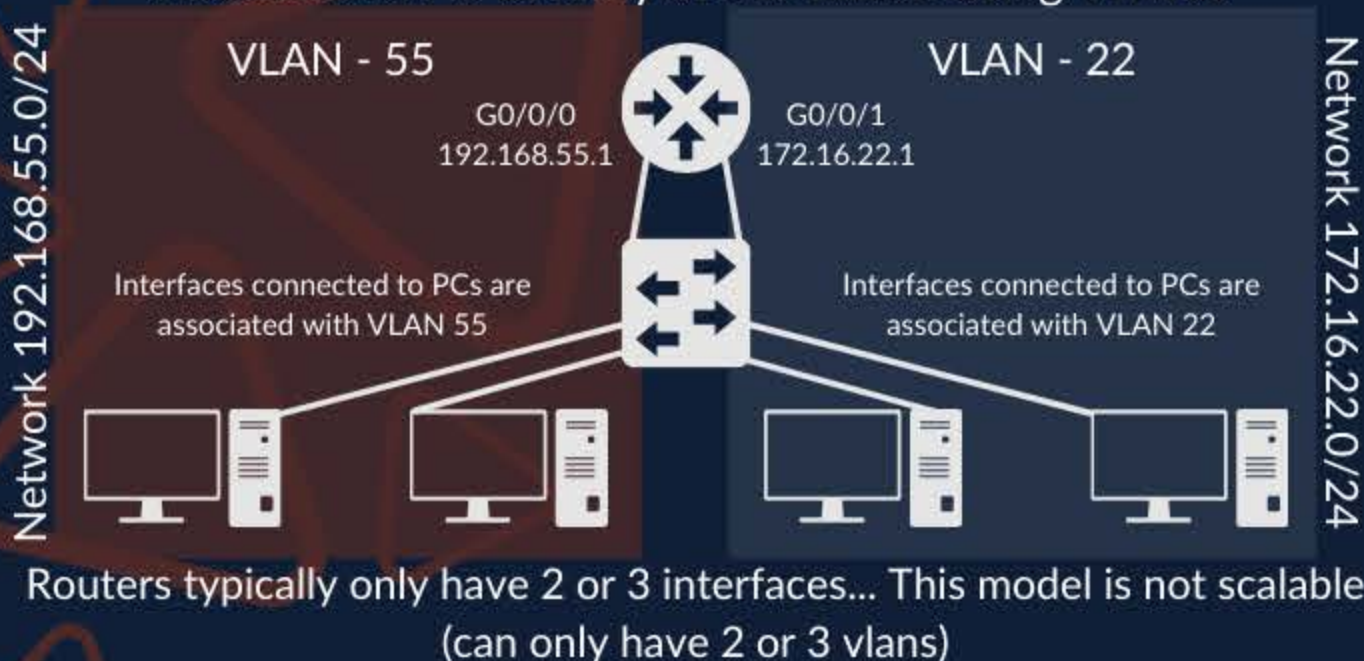
Traditionally LANs were Separated



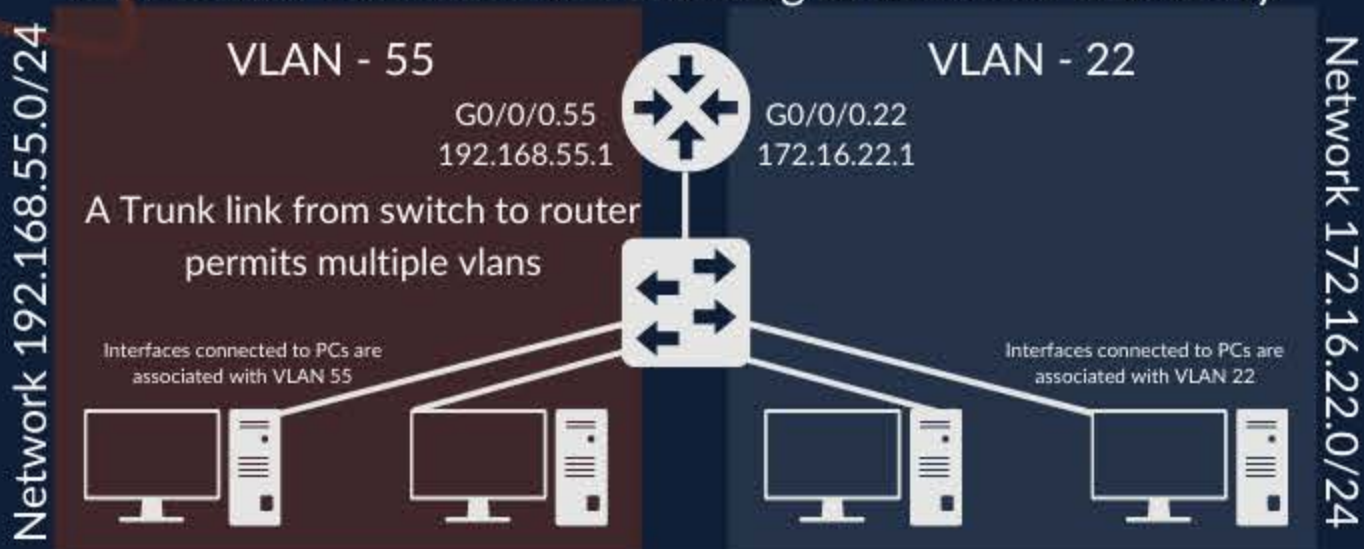
A solution was to unify at the router



Next solution is to unify at the switch using VLANS



Create Sub-interfaces and trunking to allow for scalability



Router Config

```
Router> en
Router# conf t
Router(config)# int g0/0/0.22
Router(config-subif)# encapsulation dot1Q 22
Router(config-subif)# ip address 172.16.22.1 255.255.255.0
Router(config-subif)# exit
Router(config)# int g0/0/0.55
Router(config-subif)# encapsulation dot1Q 55
Router(config-subif)# ip address 192.168.55.1 255.255.255.0
Router(config-subif)# exit
Router(config)# int g0/0/0
Router(config-if)# no shut
```

```
Switch# conf t
Switch(config)# int range f0/1-2
Switch(config-if-range)# switchport mode access
Switch(config-if-range)# switchport access vlan 55
Switch(config-if-range)# exit
Switch(config)# int range f0/3-4
Switch(config-if-range)# switchport mode access
Switch(config-if-range)# switchport access vlan 22
Switch(config-if-range)# exit
Switch(config)# int g0/1
Switch(config-if)# switchport mode trunk
Switch(config-if)# switchport trunk allowed vlan 22,55
Switch(config-if)# end
```

Switch Config

My Minds Madness