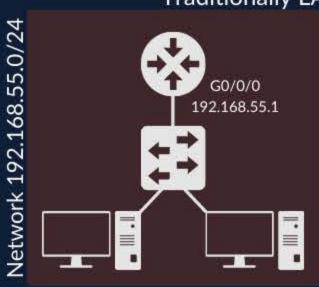
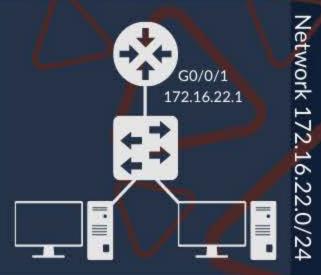
M³

Inter VLAN Routing

Traditionally LANs were Separated



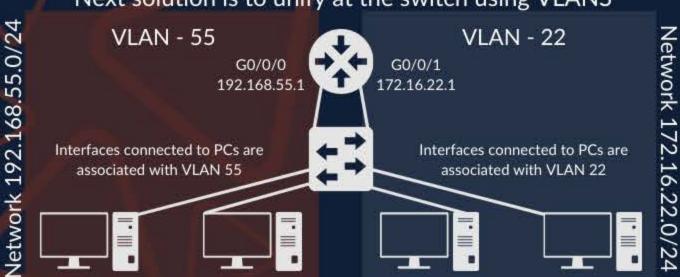


2 LANs means double the hardware this is too costly.

A solution was to unify at the router | Co/0/0 | Go/0/1 | 172.16.22.1 | Go/0/2 | Go/0/1 | Go/0/2 | Go

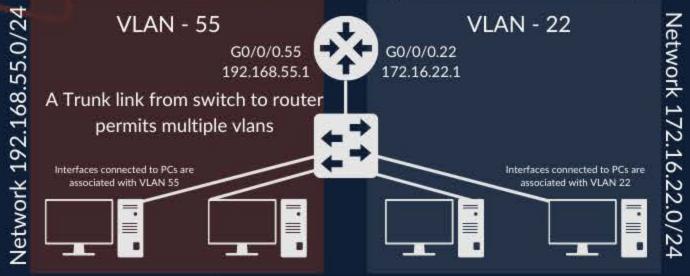
This still involves additional switches

Next solution is to unify at the switch using VLANS



Routers typically only have 2 or 3 interfaces... This model is not scalable (can only have 2 or 3 vlans)

Create Sub-interfaces and trunking to allow for scalability



Router Confie

Switch(config-if)# end

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-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 My Minds Madness