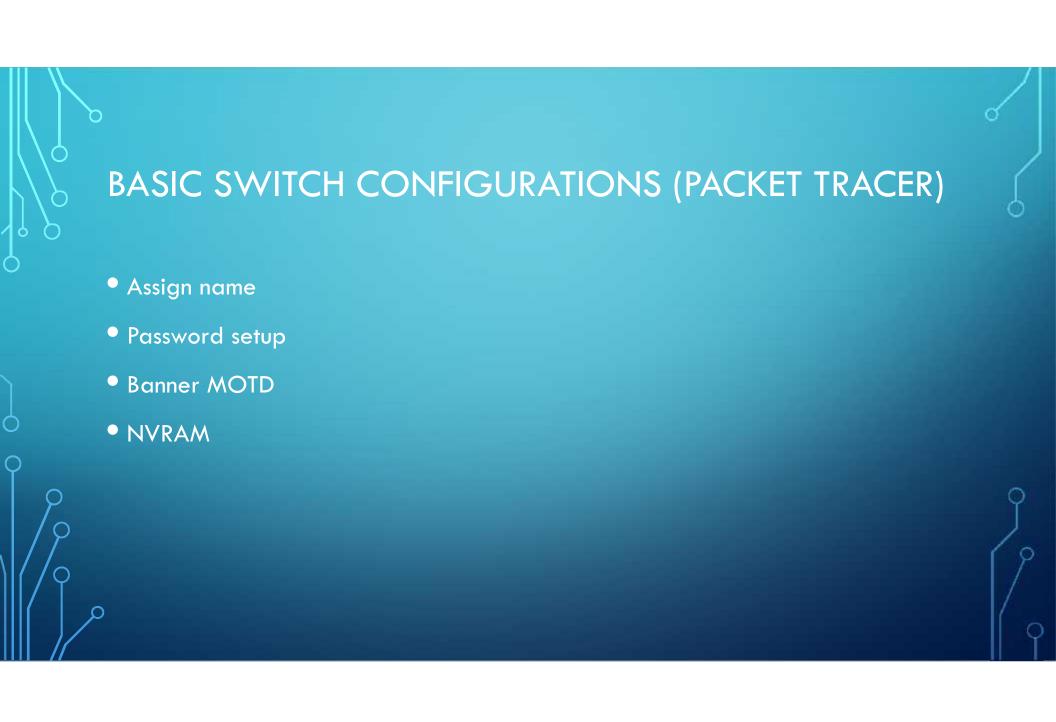






- Like Routers as well
- But limited to node-node communication on same network
- MAC Bridge
- Uses MAC address for data transfer
- Decides which computer is the messages intended





PACKET TRACER COMMANDS (2/3)

- Setup Static MAC address
- S1(config)#mac-address-table static 00e0.2917.1884 vlan 99 interface

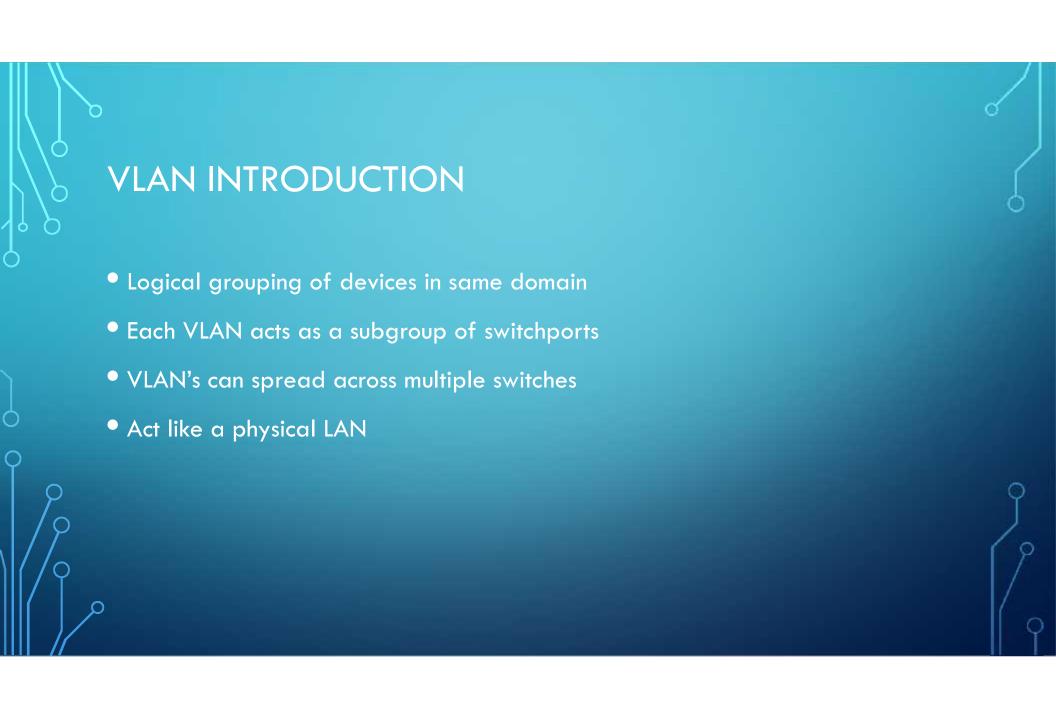
fastethernet interface number (fa0/1)

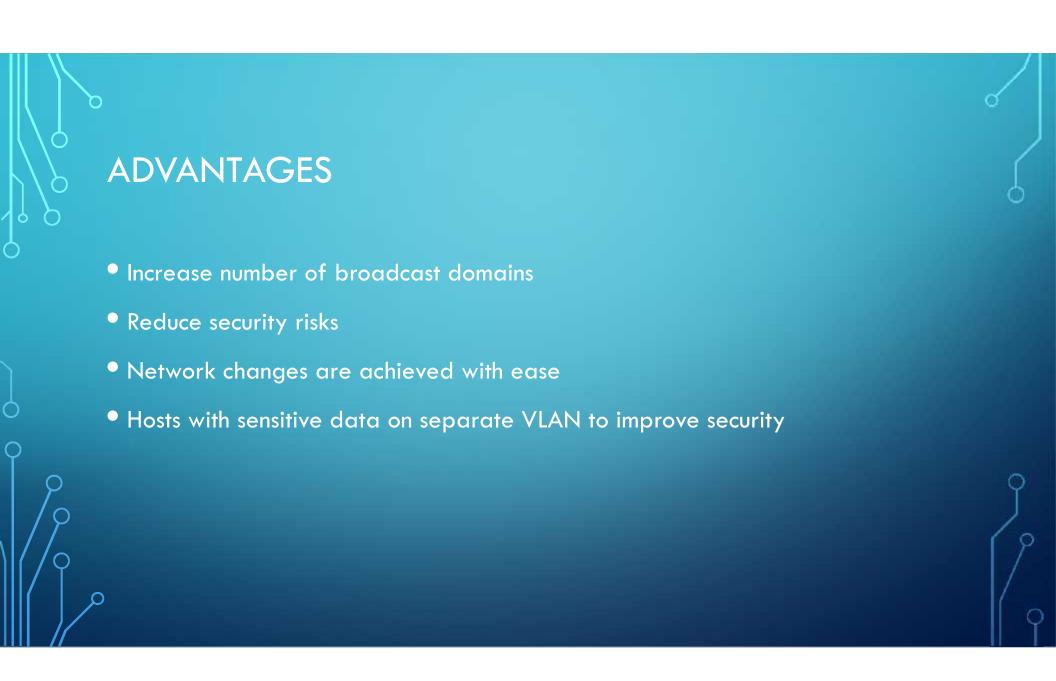
- Remove MAC address entry
- S1(config)#no mac-address-table static 00e0.2917.1884 vlan 99 interface

fastethernet 0/1

PACKET TRACER COMMANDS (3/3)

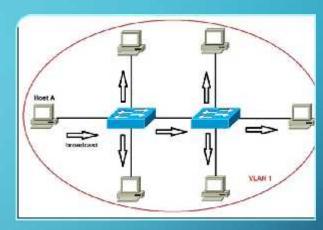
- Port Security
- ☐S1# configure terminal
- S1(config)#interface fastethernet 0/18
- ☐S1(config-if)#switchport port-security
- ☐S1(config-if)#switchport mode access
- S1(config-if)#switchport port-securityS1(config-if)#switchport port-security maximum 2
- S1(config-if)#switchport port-security mac-address sticky
- ☐S1(config-if)#switchport port-security violation protect/shutdown
- ☐S1(config-if)#end

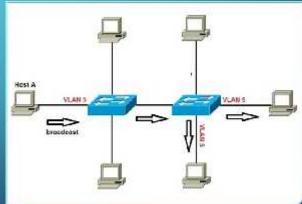




VISUALISATION

- Without VLANs, a broadcast sent from host A would reach all devices on the network
- By placing interfaces on both switches into a separate VLAN, a broadcast from host A would reach only devices inside the same VLAN, since each VLAN is a separate broadcast domain





TRUNKING • Trunks are connections between the switches that allow the switches to exchange information for all VLANS By-default trunk ports belong to all VLANS Opposed to an access port, which can only belong to a single VLAN • IEEE 802.1Q

