Aim: To doign and Complement Inter VLAN using switch configuration.

Introduction: Router on a Stick allows routing between wards with only one Porterface. Each VLAN represents a different Subnet In general, routers can take traffic from only one subnet and transfer It to another subnet.

Device Requirement: 1, 4 PCs

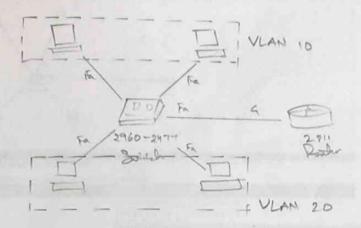
3, 1 Switch

3, 1 Rauter

Procedure: 1, Open Cisco Packet Fracer

- 2. Nowigate to Network tool box and get tu required devices.
- 3. Drog and Drop the devices Goto the logical view.
- 4, Now make connections using Copper Straight through cable.
- 5. Connect tu Fa port of router with the Fa ports of switch on Fa port of router with the Fa port of switch.
- 6, Assign to IP address, Defeult Caleways for 4 PCs
- 3. Configure to Switch and Rowder
- & Test the connection between PCs by Sing prograg.

Network Diagram



Commands Used

Switch

Switchzen SwHoht config t Switch (config) # vlan 10 Switch (config-vlan)# name +HR Switch (config-vbn) # vlan 20 Switch (canfig-vlan) HA name IT Swith (config-ubn)#Pat fa0/1 Switch (config-if)# switchport access vlan 10 Switch (config-if) # Port facts Switch (cordig-is) # switchport access vlan to Switch (config-it)# int fady Switch (configuit) # switchport access vlan 20 Switch (config-18) # Port facty Switch (config-is) Switchport access vlan 20 Switch (config-is) #814 Laus Switch (config-18/4 switch mode trunk

Router

Rowler sen

Rowler (config) # for factor

Rowler (config - 18) # no shutdown

Rowler (config - 18) # no shutdown

Rowler (config - 18) # contactor det 19 10

Rowler (config - subir) # concapsulation det 19 10

Rowler (config - subir) # podd 192.168.1.1 255.255.255.0

Rowler (config - subir) # encapsulation det 19 20

Rowler (config - subir) # encapsulation det 19 20

Rowler (config - subir) # ip add 192.168.2.2 255.255.255.0

Configuration Table / Device Configuration

Device	VLAN	IP	Subriel	Cateway
PCO	10	192.168.1.10	255-255-255-0	192.168.1.1
PCI	10	192.168.1.20	255-255-255-0	192.68.1.1
PCZ	20	192.168.2.10	222-572-522-0	192-168.2.2
PC3	20	192.168.2.20	825-255,255-0	192.168.2.2

Result: Thus the Complementation of Juster VIAM using Router-Onstick method using switching and vouting has been done successfully

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