EVNO: 08 DATES

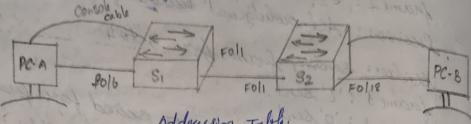
Pratical - 8a

10/09/24

AIM:

a) Etimulate relectual LAN configuration CISCO Packet Terrier Stimulation.

Packet Terocot configure MAN's and Terreting - Physical Mate.



Addressing - Table.

Device	Interface	IP Addouss	Scilenet Mask	Default Onteron
Si	VLAN-1	192.168.1.1)	255-255-255-0	MA
S2	VLAN-1	192.168.1.12	255-255-255-0	NA.
PC-A	NIC	192.168.10.3	255-255.255.0	19218.10,
PC-B.	NIC	192.168.10-4	25.255.255-0	192.168.10.1

Objections.

Part1:

Build a Network and configure the basic Device settings.

ereate VLANS and assign Switch Ports. Part 23

Maintain VLAN pout Assignments and VLAN of Part 3: the batabase.

configure on 80210 Trunk between the Biritches. Part 4 3

Instruction. Part 1: Build the network and configure Basic Devoice settings. Step 1: Build the notwork as shown in the Topology. a) click and swortch and during Et AD Rack. 6) which and dwag two PCI and PCZ and use power button to two on. e] connect pe 1 to swortch 1 and PC2 to surtche using copper stearght through with. Step 2: configuou lassic sexting for each swinter. of to the disktop open PC terminal to console Into each sworter and enable it. b Enter configuration mode. of Assign duorce name to switch. de suign class and cisco to coulde. Enceught the plintext password. To counte a bannor that wasens anyone alless 9) configuou the IP addous listed & the the device. Addressing Aable for VLANI on seventeh. 9] thut down all interfaces that wall not used. I set the clock on the swortch.

I saw the configuration. from the duktor tab to each per click IP configuration as displayed and linter the addressing information as displayed In the Address table. Test connect orty by attempting to ping between Attenti: Test connect only. Also PC's of enabled durices. Nan PC-B ping PC-B class the configuration wirdow

Part 2: create VIANS and Surger sworth ports. To part 2 you will collate Management, operate garding lot, and Native VLAN'S on booth dioxides. step1: remarke VIANS on Swertches open Alexaninal In PC a reveate VLANS On SI SICKONSO) # Vlon 10 SI (long - VLAN) + name operation gil config- Vlan) # Vlan 20 Si (config-Van) # rame Parking-lot SI (Clonfig - Vlan) # Vlanga SI Clonfig - Vlan) # trans aborgument 31 (Lonfig-Vlan) # Vlan 1000 Sichanfig-kin) # end. C] Tosue the Show VIAN bereif command to give VIANOS SI # Stow MANs bearf. Questions: -I) what he default VLAN? The default VLAN Re VLAN 1. 2) which poets are asserged to default NAN? · Fall to Fall24 (Fast Sthound Pouts). · OPOl1 to GP D12 (Gigalot Ethorist Poests). Day 2: Assign VIANS to covered wortch interfaces. Question; I what is the status of VLANGA? . The status of VLANGO & likely down of no active posts are assigned to it, on up If it has active poects. with VLAD99, IP adobusses sole In the Same 2 To SI able to parg S2? dubnet and propor strunking is enabled.

3) To PC-A able At pring PC-B.

Yes of both pe's are in VLAN to locately is configured con there Mulperti de sunt the and tounking Is set up lateren SI and S2. Part 38 Marndan VIANS Ports assignment and the Step 1: Assign a VIAN AD multiple Anterface.
Assign interface FO[1] - 24 to VLAN99. Step 2° Remove YLAN assignment ferom Enterface. Dustion:

1) which VLAN is FO 124 now associated with?

1) which VLAN is FO 124 now associated with fewers

After memoring the VLAN assignment fewers

FO 124 it is now associated with VLANI. Step 8: Remove VLAN ID forces the VLAN Dotabase Trokat is default name of VIAN 30? Quistion? The default name of VLAN30 & VLAN0030. 2) What VLAN is post FO/24 now assigned to? After VLAN 30 & deleted and the no swortch port accest VI Ad command & issued Fol 24 will be 3) To which VLAN & FOLZY assigned after Essuing assigned. AD VLANI. the no sugter port access VLAN Command. After issuing no suortexposit acces WAN Momenard Pol24 is assigned to VLAN). port 4: ronfiguor on 802. la Teune lecture sucritches. step 1: use of AD intate Templing Fol). Step 2: Manually configure Accent interface t-01. The switch post mode teach command is weld to manually configure post as teach.

Reflection Question I what is needed to allow hosts on VIAN 10 to. communicate so hoste on VLAN 90? · A layor 3 duartch or mouter with mouting Rapabilities to soute teaffic between VLANS. The interface for VLAN 10 and VLAN 99 need to be charged an configured 19 addresses con evante Layer 3 duestch to facilite communication between the two MANS. 2) what are some largets that an organization can successe therough effective use of VLANK. · Improved network security · Enhanced network prespourance. · Bettermanagement of clearces. · Reduced Congression.

student observation: a) braw and label VLAN for Qb).
To viscualize the VLAN setup, imagine there are blocks (AB, C) with 10 faculty mendes are stated on it. Blockc Block B Block A Faulty Re Faculty PCs Faculty PCs VLAN 10 VLANID VLANIO Department Switch (VLANIO) Robetics other switchs copias Show Ip configuration for each durice. 6 VLAN 1 addbus Subnet Graturay Dusice 1912.168-10:20 250.250 192.168.10.1 VLAMO DEI VLANIO 192.168.1032752552550 192-168-10-1 PC2 VLANIO 192-168-10-4 255-255-2550 192-168-10.1 PC-3 192-168-10-9295-255-0 VLAND 192.168.10.1 PC-4 VLANID 192-168-10.6 259-259-255-0 192-168-10-1 PC-5 192.168.10-7 295-255-0 192-168-10.1 VLANIO PC-6

Wealt: Thus residual can peoplywashon Packs Lucas Is framsted.

c] white the commands used for VLAN Configurate in Switch. switch & configure turninal Burth (Cofig) # Vlan 10 Busheh (Konfg) # interface erange fo |1-10, Switch (Confr) # Switch port mode was Switch (cofg) # switch access vlan 10 Surtes (config) # interface vlan to ducitch (config) # in address 192.168.10.1 switch (config) # no shutdown worten (config) # exert. 11 adobus Julent 1 Thus rejectual LAN configuration using CISEO Packet Aracer is brewted.