

USE-B

NAME: A Kawin STD III not year SEC ROLL NO 220701122 Teacher's Page No. Title Sign/ Date S.No. Remarks Study of warious network commands used in cinums windows 16/7/24 1. study of Network cables 23/7/24 2. Experiments & CISCO PACKET 30/7/24 3 TRACER (simulation tooks Setup and configure a LAN using a switch and Ethornel calle 618/24 4. Experiments on sachet capture 918/24 5. Esser consection at data 16/8/24 6 link layer (Hamming Gode) Flow control at data link 23/8/24 layor (Stiding window PROLOCO) 7. 10/9/24. Stimulate visitual LAN 80 cisco Parket Traver 30/9/24 Implementation or subnetting 9. 4/10/24 Internetworking using sputer and internet cloud 10. 8/10/24 Stimulate static routing Bidad 11 . consignation using CISO Packet & RIP echo client TCPLUDP sockets 15/10/24 12. chart dient server TCP/UDP 22/0/24 write own Ping Problem 13 25/15/20 Raw sochats to implement Packet Sniffling 29/10/24 webilizes tool 15. Palaniappa

EXP. not Practical - 8 10/09/24

> Aim: a) Stimulate virtual LAN configuration using CISCO packet bracer simulation.

Packet bracer - configure VLANZ and Trunking -Physical made repoleg

Rowler IP address Subnet most Default

192.168.1.11 255.255.2550 N/A

192.168.1-12255.255.256.0 N/A

Contract or other Designation of the last	PC-A	SCHICAGO	192.168.103 255.255.255.0192.168.10.1
STATE OF TAXABLE SALES	PC-B O	SINC TO	192.168.10.4 265.265.265.0 192.168.10.1
			Live all March L

objectives: (promote) Part 1: Built the relevork and configure basic

Interface

VLAN I

VLANI

Dovice

51

52

device selling Part 2: Greate VLANS and assign switch ports.

Park 3: Maintain VLAN port assignment and the VLAN debalase HI CORNY

devices Instruction Part 1! Build the nelwork and configure basic

Past 4: consigure an 802,19 Trunk between the

device settings. step 1: Build the network as shown in Regology.

a) click and doing both switch SI and 52 b) click and drag both PC-A and PC-B to the table

c) Provide network connectivity by connecting copper straight toologh cables do connect console calles from device R-A 51 and grom device PCB to 52 Step 2: configure basic settings for each swift (a) From the despiter tal on each Pc, we the terminal to console into each suit and enabled privilized EXEC mode. b) Enter consiguration made c) Assign a device name to each switch Step 3 - configure pc hosts Styp 4 - Test connectivity Port-20 create VLAN'S and assign switch ports VLANDI steps: esteate VLANS on the switches W. Bal. RR! open configuration window 11.701 COL a) create the VLAN on SI SI (config)# vian 10 52 (consig year) # name operations was 59 Consig-Vianyt Vianzo SI (consig. vlan) to name yourking los SI (consig-wan) # Idan 99 odrion & day SI (working - Vlan) I name management الملالم وكروي

Step 2. Assign MANS to the correct switch interfaces

a) Assign VIANS to the interbaces on st 1) Assign PC-A to the Operation ULAN sikionsign# intersace solb \$1 (config-i6)# switchport mode access

SICCORDIG-187# Switchport quess VLAN 10 1-DE GETT A 3 MAG

2300

2) From VLANI, Fremove the management IP address and consigure it on VLAN 99
SICCONSIGURE) # interface Vlan I
SICCONSIG-16) # interface Vlan 99
SICCONSIG-16) # interface Vlan 99

SI (config-is)# in address 192,168,1,11,155,255,255,0 SI (config-i6)# end

Part-3 1 Maintain VLAN port assignment and VLAN databooks.

Step 1: Assign a VLAN to multiple interfaces. Open congiguration window

\$1 (configure) # interface grange 60/11-24
\$1 (config-ib-grange) # switchport mode access
\$11 config-ib-grange) # switchport access vlan 99
\$1 (config-ib-grange) # end

Step 2. Remove a VLAN assignment from an interface

Step 3: Demove a VLAN ID from the VLAN datah Part-4: configure an 802.19 Trunk between the switches.

Step 1: Use DTP to initiate trunking on Fol 1 Step 2: Manually configure trunk interface Pol1 Student observation

a) Draw and label VLAN for (3b)

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TO wisualise the VLAN selys, imagine three blocks (A,B,C) with 10 faculty member seated on it

No.			1. 00 0/200 00 1			
And And	Block A	Block B	Blockc			
elaco e alg	Faculty PCs VLANIO	Faculty PCS VLANIO	VLANIO			
March L.	Sound 17. 2008	क किल्लाम् वर्ष	· Harrison .			
	Robotics Department Switch (VLANIO)					
17.07	Wes Business	St. 1914 As Daily				

other switches and was a

b) show ip configuration for each device.

192-168.10.2	255-255-255-0	orateway	VLAN
	200 200 2000	192.168.10.1	VLANIO
192.168.10.3	225.255.255.0	192.168.10.1	VLANIC
92.168.10.4	255.255.255.0	192.168.10.1	VLANID
92.168.10.5	255-255-255-0	192-168-10-1	VLANIC
192.168.10.6	255-255,2550	192-168-10-1	VLANIE
192-168.10.7	255.255.255.0	192.168.10.1	VLANIC
	92.168.10.4 92.168.10.5 192.168.10.6	92.168.10.4 92.168.10.5 255.255.255.0 192.168.10.6	92.168.10.4 255.255.255.0 192.168.10.1 92.168.10.1 255.255.255.0 192.168.10.1 192.168.10.1 255.255.255.0 192.168.10.1

configuration in Switch

Switch# configure lerminal

Switch (congig)# vlan 10

switch > enable

Switch (config) to interface grange foll-10

Switch (config) It switch post mode access switch (config) It switch access vlan 10

Switch (config) # no shutdown

Switch (config) # no shutdown Switch (config) # exit

Bony assist boyed sportings &

ga fasik som til mednas i arti ett ett som i sterili som til s A Million i artistisk som til s

Result

Thus virtual LAN configuration using CISCO packet traver is executed

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Aim.

kara - Simon ar en finit i report timo (r. 1. 2500). b) configuration of wireless using LAN CISCO gracket tracer so to all the

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Perborm bollowing configuration

* configure static IP on PC and wireless * Set SSID to mother network

* Set IP address of Fronter to 192-168.0.1 * * \$ \$ \ TPCO to 192.168.0.2, PC1 to 192.168,0.3

akhara < albahar

Trouter

and PC2 to 192-168,0,400 delices

* secure your network by condiguring WAD lacy Jose 1 (20,000 5 76.

* connect PC's using WAP lary

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Student's observation

a) what is SSID of a wireless router The SSID is the name that identifies a wireless network when you show for available wi-bi networks on your device the list of networks name displayed supresents ssios & nearly wireless roulers

b) what is security bey in a wireless network?

A security bey is a possioned used to protect a wireless network, ensuring only authorized devices can connect common types include were and were?

- c) configure a simple wireless LAN
 - 17 Access the nouser's

'connect your laptor and enter IP address

- 2) configure the SSID
- · Set SSID (eg. Lab_WIFI) 3) choose a wireless channel . Set auto or menual
- 4) set security as open

 N wireless open network (WPA2.Psk

 * Cheate a password ("12345678")
- 5) Assign DHCP sower that automatically connect to wireless network

6) Save the sellings and relioot the router or access point it necessary configuring

SSID of Lab with the person was the

Channel: Auto antiquos pro integral

Security: WPA2-PSK

Security key Lab 12345

DHCP Range: 192. 168.1.10-192.168.1.100

Result

Thus wireless LAN configuration is