(Affiliated to Osmania University) Hyderabad - 500 031.

DEPARTMENT OF

ECE

NAME OF THE LABORATORY : CM Name G-54 Ganga Pgianav Roll No. 1602-21-735-117 Page No.

VLAN configuration Aim!

to:

\* Verity the default VLAW configurations

\* Configure VLANCS

\* Accign VLANIS to ports

Tools used: - Pc loaded with cisco packed Traces

Procedure: -

I view the default NLAN configuration lesing

show vlan brief command

I verify connectivity between PCs on the same

I create and name vlans on S,

van 10: Faculty 1staff

Vlan 20: students

Nan 30: Grust default

Vlan 99: Management & Mative Vlan 150: VOICE

Similarly, assign the same vlans to the same ports on S3

-) Assign vians to active ports on Si. Configure the interfaces as access ports and assign vians as follows:

(Affiliated to Osmania University) Hyderabad - 500 031. DEPARTMENT OF

NAME OF THE LABORATORY : CAL

Name Crism Cranga Peranav Roll No. 1602-21-735-(17 Page No.

Wan 10: Fast Ethernel ol11 van 20: tast Ethernet 0/18 vian 30: Fast Ethernet 016

Isimilarly, anign the same vlans to the same ports on sz TASsign the VOICE Wan to Fast Ethernet of 11 on 53. As shown in the topology, the ss fast Ethernet di interface connects to a cisco IP phone and Pax. the IP phone contains an integrated switch. one port on the phone is labeled switch and connects to foly. Another port on the phone is labelted PC and connects to PC4. The IP phone also has an internal port that connects to the FP phone functions.

The s3 Foly interface must be configured to support uses traffic to Plus using vlanco and voice traffic to the Ip phone using vlan 150. The interface must also enable gos and trust the class of service (Los) values arighed by the top phone. IP voice traffic requires a minimum amount of throughput to support acceptable voice communication quality. This command helps the switch port to provide this minimum amount of throughput.

(Affiliated to Osmania University)
Hyderabad - 500 031.

**DEPARTMENT OF** 

ECE

Name Gr. Sti Gaviga Paanav Roll No. 1602-21-735-117 Page No.

source code: switch-1 configuration:

sisenate

sitt config t

silconfig)# vlan 10

Silventig-vian)# name faculty/staff

silvoryig-vlan)#exit

Silverting - vlan)# vlan 20

Si (contig-vlan) # name students

SI (config-van) #exit

si (contig)#vlan 30

Stleenfig - Vlan)# name CruestObebault)

SI (config-vlan) Hexit

Silventia)# vlanga

Si (config-vlan) # name Management & Native

Si (config-vlan)# exit

SI (config)# vlan 150

Silventig-vlan) # name vote

SI Cconfig - vlan ) # exit

#### E OF ENGINEERING VASAVI COLLE

(Affiliated to Osmania University) Hyderabad - 500 031.

DEPARTMENT OF

ECE

NAME OF THE LABORATORY : computer wetworks

Name Gr-Svi Cranga Pranow Roll No. 1602-21-735-117 Page No.

### Switch 2 configuration;

Sz Denatte

S2# config t

& cconfig) #vlan 10

& contig-vian) # name Faculty/stall

Sz Cconfig-Vlan) Hexit

& (wing) # vlan 20

Sicconfig-vlan) #name students

Se (config-vlan) #exit

Si Lungig) # vlan 30

Sz (config-vlan)# name Guest (Defacult)

Se ceonfig-vlan)# exit

Si ceonlig)# vlanga

management freative Sz (config-van)#name

Sz (config-vlan)# exit

Se ceonfig) # vlan 150

S2 Ceonfig-Vlan)# name VOICE

Sz Config-vlan)# exit

32 Ceonbig) # interface foll

Sz (contig-it)# switchport mode access

& Ceontry-it) # switchport access vlango

32 Ccontig-if) #exit

Se (untig) H interface folis

(Affiliated to Osmania University)
Hyderabad - 500 031.

DEPARTMENT OF

ECE

Name Cr. Sri Granga Pranav Roll No. 1602-21-735-117 Page No.

Salconfig-16) # switchport mode access Salconfig-16) # switchport access vlando

SI Counting-13) # exit

& (config) # interpace foll

In (config-if) # switchport mode access

Sz ceenbig-if )# switchport access van 30

S. (config-if) Hexit

Switch 3 Configuration:

Sometile

Satt config t

S3(wnfig)# vlanto

S3 (config- Man) # name Faculty (stay)

Salvanjig-vlan) Hexit

S3(w rfig) #vlan 20

Sz (config-vien) # name students

S3 (wnfig) # vlan 30

Sz Config-Vlan) # name Cruest Obefault)

S3 (config-vlan) # exit

S3(config)# vlan 99

S3 Config-vlan) # name management & mative

S3 (workig-Vlan) #exit

S3 Lungia) # v (an 150)

(Affiliated to Osmania University)
Hyderabad - 500 031.

DEPARTMENT OF : BCE

Name G-Syi broung a Prounav Roll No. 1602-21-735-110 Page No.

Schonfig-vlan)# name vollts Schonfig-vlan)# exit

S3 Leonbig)# interpace folu

S3 (config-it) # switch port mode access

53 (worbig-it) # switchport access vlanto

S(wnbig) Herit

& config ) # interface folls

S3 (conorg-17) # switchport mode access

53 (config-if) # switchport acces vlan 20

-33 (config-if)# exit

\$3 (config) # interface foll

S3 (config -if) # switchport mode access

S3 (conting-if) # switchport access vlan 30

Sacontig-it) # exit

S(contig)# interface foly

33 Lungig-it)# mls 90s trust cos

S3 (config-it) # switch port voice van 150

S3 Leonbig-ib) Herit

Rosult: - van was configured using cisco packet Tracer