En

Conf t

Hostname S3

**line console 0**

**password cisco**

**login**

**line vty 0 15**

**password cisco**

**login**

**exit**

**en**

**conf t**

**enable secret class**

**int fa0/6**

switchport mode access

switchport access vlan 30

int fa0/11

switchport mode access

switchport access vlan 10

int fa0/18

switchport mode access

switchport access vlan 20

end

**copy running-config startup-config**

**VLAN**

**int fa0/6**

**switchport mode access**

**switchport access vlan 30**

**int fa0/11**

**switchport mode access**

**switchport access vlan 10**

int fa0/18

**switchport mode access**

**switchport access vlan 20**

**end**

**copy running-config startup-config**

en

conf t

int range fa0/1 -5

switchport mode trunk

switchport trunk native vlan 99

no shut

exit

int range fa0/6 -10

switchport mode access

switchport access vlan 30

no shut

exit

int range fa0/11 -17

switchport mode access

switchport access vlan 10

no shut

exit

int range fa0/18 -24

switchport mode access

switchport access vlan 20

no shut

exit

conf t

int vlan 99

ip add 172.17.99.12 255.255.255.0

**vlan 99**

**name Management&Native**

exit

**vlan 10**

**name Faculty/Staff**

**exit**

**vlan 20**

**name Students**

**exit**

**vlan 30**

**name Guest(Default)**

**exit**

en

conf t

no ip domain-lookup

**Lab3.3.12\_2112998\_LamQuangLinh\_ Packet Tracer - VLAN Configuration**

**S1**

int fa0/11

switchport mode access

switchport access vlan 10

int fa0/18

switchport mode access

switchport access vlan 20

int fa0/6

switchport mode access

switchport access vlan 30

vlan 10

name Faculty/Staff

exit

vlan 20

name Students

exit

vlan 30

name Guest(Default)

exit

vlan 99

name Management&Native

exit

vlan 150

name VOICE

exit

**S2**

int fa0/11

switchport mode access

switchport access vlan 10

int fa0/18

switchport mode access

switchport access vlan 20

int fa0/6

switchport mode access

switchport access vlan 30

vlan 10

name Faculty/Staff

exit

vlan 20

name Students

exit

vlan 30

name Guest(Default)

exit

vlan 99

name Management&Native

exit

vlan 150

name VOICE

exit

**S3**

int fa0/11

switchport mode access

switchport access vlan 10

int fa0/18

switchport mode access

switchport access vlan 20

int fa0/6

switchport mode access

switchport access vlan 30

vlan 10

name Faculty/Staff

exit

vlan 20

name Students

exit

vlan 30

name Guest(Default)

exit

vlan 99

name Management&Native

exit

vlan 150

name VOICE

exit

int int f0/11

mls qos trust cos

switchport voice vlan 150

**3.4.5 Packet Tracer - Configure Trunks**

**S1**

interface range g0/1 - 2

switchport mode trunk

switchport trunk native vlan 99

**S2**

interface range g0/1 - 2

switchport mode trunk

switchport trunk native vlan 99

**S3**

interface range g0/1 - 2

switchport mode trunk

switchport trunk native vlan 99

**3.4.6 Packet Tracer - Configure VLANs and Trunking - Physical Mode**

en

conf t

hostname S1

enable secret class

line console 0

password cisco

login

exit

vty 0 15

password cisco

login

exit

service password-encryption

banner motd &Unauthorized Access is Prohibited!&

int vlan 1

ip add 192.168.1.11 255.255.255.0

no shut

exit

int range f0/2-5, f0/7-24, g0/1-2

shutdown

clock set 10:25:00 29 September 2021

copy running-config startup-config

vlan 10

name Operations

exit

vlan 20

name Parking\_Lot

exit

vlan 99

name Management

exit

vlan 1000

name Native

end

interface f0/6

switchport mode access

switchport access vlan 10

interface vlan 1

no ip address

shutdown

interface vlan 99

ip address 192.168.1.12 255.255.255.0

end

interface range f0/11-24

switchport mode access

switchport access vlan 99

end

int f0/1

switchport mode dynamic desirable

**3.5.5 Packet Tracer - Configure DTP**

vlan 10

name Red

exit

vlan 20

name Blue

exit

vlan 30

name Yellow

end

interface range f0/1 - 8

switchport mode access

switchport access vlan 10

interface range f0/9 -16

switchport mode access

switchport access vlan 20

interface range f0/17 - 24

switchport mode access

switchport access vlan 30

S1

interface g0/1

switchport mode dynamic desirable

exit

interface g0/2

switchport mode trunk

switchport nonegotiate

interface range g0/1 - 2

switchport trunk native vlan 999

S2

interface range g0/1 - 2

switchport trunk native vlan 999

S3

interface g0/1

switchport mode dynamic desirable

exit

interface g0/2

switchport mode trunk

switchport nonegotiate

interface range g0/1 - 2

switchport trunk native vlan 999

**3.6.1 Packet Tracer - Implement VLANs and Trunking**

vlan 10

name Admin

exit

vlan 20

name Accounts

exit

vlan 30

name HR

vlan 40

name Voice

exit

vlan 99

name Management

exit

vlan 100

name Native

end

interface range f0/1

switchport mode access

switchport access vlan 10

interface range f0/2

switchport mode access

switchport access vlan 20

interface range f0/3

switchport mode access

switchport access vlan 30

interface range f0/4

switchport mode access

switchport access vlan 40

switchport voice vlan 40

SWA

int vlan 99

ip add 192.168.99.252 255.255.255.0

no shut

exit

SWB

int vlan 99

ip add 192.168.99.253 255.255.255.0

no shut

exit

SWC

int vlan 99

ip add 192.168.99.254 255.255.255.0

no shut

exit

int g0/1

sw mode trunk

sw nonegotiate

sw trunk native vlan 100

exit

int g0/2

sw mode dynamic desirable

sw trunk native vlan 100

exit

**4.3.8 Packet Tracer - Configure Layer 3 Switching and Inter-VLAN Routing**

**MLS**

int g0/2

no switchport

ip address 209.165.200.225 255.255.255.252

vlan 10

name Staff

exit

vlan 20

name Student

exit

vlan 30

name Faculty

exit

int vlan 10

ip add 192.168.10.254 255.255.255.0

int vlan 20

ip add 192.168.20.254 255.255.255.0

int vlan 30

ip add 192.168.30.254 255.255.255.0

int vlan 99

ip add 192.168.99.254 255.255.255.0

exit

int g0/1

switchport mode trunk

switchport trunk native vlan 99

switchport trunk encapsulation dot1q

ip routing

MLS#show ip route

Ipv6 unicast-routing

Int vlan 10

**ipv6 address 2001:db8:acad:10::1/64**

**exit**

**int vlan 20**

**ipv6 address** 2001:db8:acad:20::1/64

exit

int vlan 30

ipv6 address 2001:db8:acad:30::1/64

exit

**int g0/2**

**ipv6 address 2001:db8:acad:a::1/64**

**exit**

**S1**

int g0/1

switchport mode trunk

switchport trunk encapsulation dot1q

**4.4.9 Packet Tracer - Troubleshoot Inter-VLAN Routing - Physical Mode**

En

Conf t

Int g0/0/1.0

Encapsulation dot1q 8 native

Exit

int f0/5

no switchport access vlan 3

switchport mode trunk

switchport trunk native vlan 8

no switchport access vlan 3

switchport trunk allowed vlan 3,4,8,13

exit

**4.5.1 Packet Tracer - Inter-VLAN Routing Challenge**

En

Conf t

Vlan 10

Name Faculty/Staff

Exit

Vlan 20

Name Students

Exit

Vlan 30

Name Guest(Default)

Exit

Vlan 88

Name Native

Exit

Vlan 99

Name Management

Exit

En

Conf t

int g0/1

no shut

int g0/1.10

encapsulation dot1q 10

ip add 172.17.10.1 255.255.255.0

int g0/1.20

encapsulation dot1q 20

ip add 172.17.20.1 255.255.255.0

int g0/1.30

encapsulation dot1q 30

ip add 172.17.30.1 255.255.255.0

int g0/1.88

encapsulation dot1q 88 native

ip add 172.17.88.1 255.255.255.0

int g0/1.99

encapsulation dot1q 99

ip add 172.17.99.1 255.255.255.0

**S1**

int vlan 99

ip add 172.16.99.10 255.255.255.0

no shut

exit

ip default-gateway 172.17.99.1