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ID: 18-36333-1

Course: Computer Networks

Sec: B

Problem Statement:

Subnet	Ip requirement	If ID:18-36333-1 IP Addreess
Р	YX	33
Q	XW	33
Vlan 10	WV	36
vlan 15	ZS	11
Vlan which the last name of server	TX	83

Network Design:

Cisco Packet Tracer - H:\AIUB\Spring 20-21\CN\Final\FA\HW-Hridoy.pkt

File Edit Options View Tools Extensions Help ^ Logical Physical x: 729, y: 117 6erver-PT 213.36.0.1 213.36.0.2 213.36.0.20 213.36.0.21 Subnet P IPrange: 213.36.0.19 SubNet Q IPrange: 213.36.1.0 -213.36.0.255 SM:255.255.255.192 -213.36.1.63 213.32.1.85 SM 255.255.255.192 213.32.1.81 213.32.1.88 2811 213.32.1.82 В R3 2811 213.32.0.190 IPrange: 213.36.1.84 IPrange:213.36.1.80 -213.38.1.87 -213.36.1.83 SM255.255.255.252 SM255.255.255.252 213.38.1.67 2960-24 PC-PT 2960-24TT Switch2 Switch1 213.36.1.66 213.38.1.68 Server-PT Server-PT LAstName web Server FirstName Web Server 213.38.1.65 213.38.0.1 VLAN 15 213.36.0.130 213.36.0.129 IPrange: 213.38.1.64 IPrange: 213.38.0.0 - 213.36.179 - 213.38.0.127 VLAN 10 SM:255.255.255.240 IPrange:213.36.0.128 SM255.255.255.128 - 213.36.0.191 SM:255.255.255.192

VLSM Table:

#	: 10000		Date	• :
1/ VI	-SM To	ble:		
Subonet	TP	Allowcoted	Subnet	Allocated It
Vion last name	83	27= 128	255.255.255 ·128	213.36.0.0
Vian 10	36	26= 64	255.255.255	213.36.0.128
P	33	26= 64	253.255.255	213.36.0.192
9	33	26= 64	255. 255. 255 · 192	-10.26.1.0
Vbn15	11	24 = 16	255.255.255	13.36.1.64
A	4	2 = 4	255.255.255	213.36.1.79/= 213.36.1.80 213.36.1.83/
В	4	22 = 4	255,255,255	213.36.1.88

Configuration Table:

TABLE 1 switech0 configuration

Switch(config)#vlan 10 Switch(config-vlan)#Exit Switch(config)#vlan 15 Switch(config-vlan)#Exit	Create a vlan 10 and 15
Switch(config)#interface range fa0/3-4 Switch(config-if-range)#switchport mode access Switch(config-if-range)#switchport access vlan 10 Switch(config-if-range)#exit	Select Interface range fa0/3-4 Make both interface access link include them to the VLAN 10
Switch(config)#interface range fa0/5-6 Switch(config-if-range)#switchport mode access Switch(config-if-range)#switchport access vlan 15 Switch(config-if-range)#exit	Select Interface range fa0/5-6 Make both interface access link include them to the VLAN 15
Switch(config)#interface fa0/2 Switch(config-if)#switchport mode trunk	Select Interface fa0/2 Make it a trunk port

TABLE 2 switch1 configuration

Switch(config)#vlan 10	Create a vlan 10 and 15.Though this pc has no pc
Switch(config-vlan)#Exit	for vlan 10 and 20, we have to create vlan 10 and
Switch(config)#vlan 15	20 as a switch need to foeward a frame vlan 10
Switch(config-vlan)#Exit	and 20 from sw0 to sw1
Switch(config)#interface fa0/1	Select Interface fa0/1
Switch(config-if)#switchport mode trunk	Make it a trunk port
Switch(config)#interface fa0/2	Select Interface fa0/2
Switch(config-if)#switchport mode trunk	Make it a trunk port
_	

TABLE 3 switch2 configuration

Switch(config)#vlan 10	Create a vlan 10 and 15
Switch(config-vlan)#Exit	
Switch(config)#vlan 15	
Switch(config-vlan)#Exit	
Switch(config)#interface range fa0/5-6	Select Interface range fa0/5-6
Switch(config-if-range)#switchport mode	Make both interface access link
access	include them to the VLAN 15
Switch(config-if-range)#switchport access	
vlan 15	
Switch(config-if-range)#exit	
Switch(config)#interface fa0/1	Select Interface fa0/1
Switch(config-if)#switchport mode trunk	Make it a trunk port

TABLE 4 switch0 vtp configuration

Switch(config)#vtp mode server	Make the Switch server
Device mode already VTP SERVER.	Set the domain name Hridoy
Switch(config)#vtp domain Hridoy	set the password 123
Changing VTP domain name from NULL to	
Hridoy	
Switch(config)#vtp password 123	
Setting device VLAN database password to	
123	

TABLE 5 switch1 vtp configuration

Switch(config)#vtp mode client	Make the Switch client
Setting device to VTP CLIENT mode.	Set the domain name Hridoy
Switch(config)#vtp domain Hridoy	set the password 123
Domain name already set to Hridoy	
Switch(config)#vtp password 123	
Setting device VLAN database password to	
123	

TABLE 6 switch2 vtp configuration

Switch(config)#vtp mode client	Make the Switch client
Setting device to VTP CLIENT mode.	Set the domain name Hridoy
Switch(config)#vtp domain Hridoy	set the password 123
Domain name already set to Hridoy	
Switch(config)#vtp password 123	
Setting device VLAN database password to	
123	

TABLE 7 router0 VLAN 10 IP From DHCP Server

Router>en	
Router#config t	
Router(config)#interface fa0/0	
Router(config-if)#ip address 213.32.0.190	
255.255.255.192	
Router(config-if)#no shut	
Router(config)#ip dhcp pool mypool	create a pool
Router(dhcp-config)#network 213.32.0.190	
255.255.255.192	
Router(dhcp-config)#dns-server 213.32.1.2	
Router(dhcp-config)#default-router	
215.32.1.86	
Router(dhcp-config)#ip dhcp excluded-	
address 213.32.1.17 213.32.1.18	
Router(config)#exit	