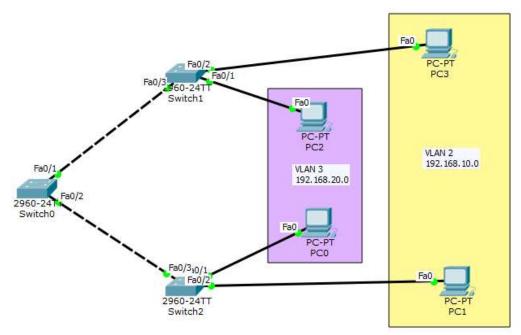
Military Institute of Science and Technology

Department of CSE, CSE 310, Week 12

VTP (VLAN Trunking Protocol)

Problem 1:

Design the following network in packet tracer and create two VLANs. Then configure the switch so that PCs of the same VLAN can communicate, but those of the different VLAN cannot.



Switch 0:

Switch>en
Switch#config t
Switch(config)#hostname vtpserver
vtpserver(config)#vtp domain nm
vtpserver(config)#vtp password mist
vtpserver(config)#vtp mode server
vtpserver(config)#vlan 2
vtpserver(config-vlan)#name cse
vtpserver(config-vlan)#vlan 3
vtpserver(config-vlan)#name eece
vtpserver(config-vlan)#exit
vtpserver(config-vlan)#exit
vtpserver(config-vlan)#exit
vtpserver(config-if-range)#switchport mode trunk

vtpserver(config-if-range)#exit vtpserver(config)#do copy running-config startup-config

Switch 1:

Switch>en Switch#config t Switch(config)#hostname vtpclient1 vtpclient1(config)#vtp ver 2 vtpclient1(config)#vtp domain nm vtpclient1(config)#vtp password mist vtpclient1(config)#vtp mode client vtpclient1(config)#int f0/1 vtpclient1(config-if)#switchport mode access vtpclient1(config-if)#switchport access vlan 3 vtpclient1(config-if)#int f0/2 vtpclient1(config-if)#switchport mode access vtpclient1(config-if)#switchport access vlan 2 vtpclient1(config-if)#int f0/3 vtpclient1(config-if)# switchport mode trunk vtpclient1(config-if)#exit vtpclient1(config)#do copy running-config startup-config

Switch 2:

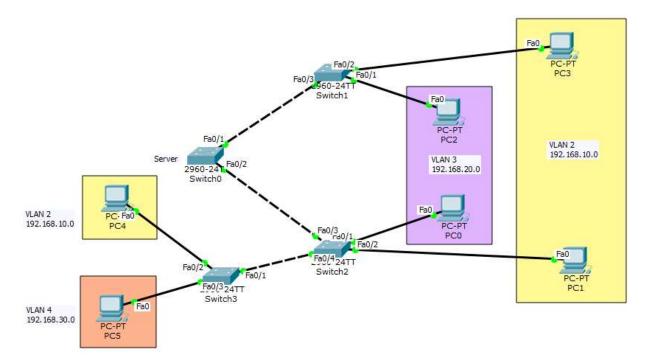
Switch>en
Switch#config t
Switch(config)#hostname vtpclient2
vtpclient2(config)#vtp ver 2
vtpclient2(config)#vtp domain nm
vtpclient2(config)#vtp password mist
vtpclient2(config)#vtp mode client
vtpclient2(config)#int f0/1
vtpclient2(config-if)#switchport mode access
vtpclient2(config-if)#switchport access vlan 3
vtpclient2(config-if)#switchport mode access
vtpclient2(config-if)#switchport mode access
vtpclient2(config-if)#switchport access vlan 2
vtpclient2(config-if)#switchport mode trunk

vtpclient2(config-if)#exit
vtpclient2(config)#do copy running-config startup-config

** Then PC configuration

Problem 2:

Design the following network in packet tracer and create three VLANs. Then configure the switch so that PCs of the same VLAN can communicate, but those of the different VLAN cannot.



** Complete all the steps of the above problem. Then do the following steps:

Switch 0 (Server Switch):

vtpserver(config)#vlan 4 vtpserver(config-vlan)#name me vtpserver(config-vlan)#exit

Switch 2 (Client Switch):

Vtpclient2(config-if)#int f0/4 Vtpclient2(config-if)# switchport mode trunk

Switch 3 (Client Switch):

Switch>en Switch#config t Switch(config)#hostname vtpclient3 vtpclient3(config)#vtp ver 2 vtpclient3(config)#vtp domain nm vtpclient3(config)#vtp password mist vtpclient3(config)#int f0/1 vtpclient3(config-if)#switchport mode trunk vtpclient3(config-if)#int f0/2 vtpclient3(config-if)#switchport mode access vtpclient3(config-if)#switchport access vlan 2 vtpclient3(config-if)#int f0/3 vtpclient3(config-if)#switchport mode access vtpclient3(config-if)#switchport access vlan 4 vtpclient3(config-if)#exit vtpclient3(config)#do copy running-config startup-config

** Then PC configuration