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Ques 1:

Objective: To Design a network for the HR department and size is 10 users.

Solutions:

Step 1: Firstly switch - the configuration The configuration to be made on switch are, making some ports access ports and a port as a trunk port to the router

2: Trunk to- router:
To create a trunk port on the switch that will connect to the router, and all other access ports.

3: Create VLAN's

4: Assigning switch port to VLAN's.

5: Configuring default gateway

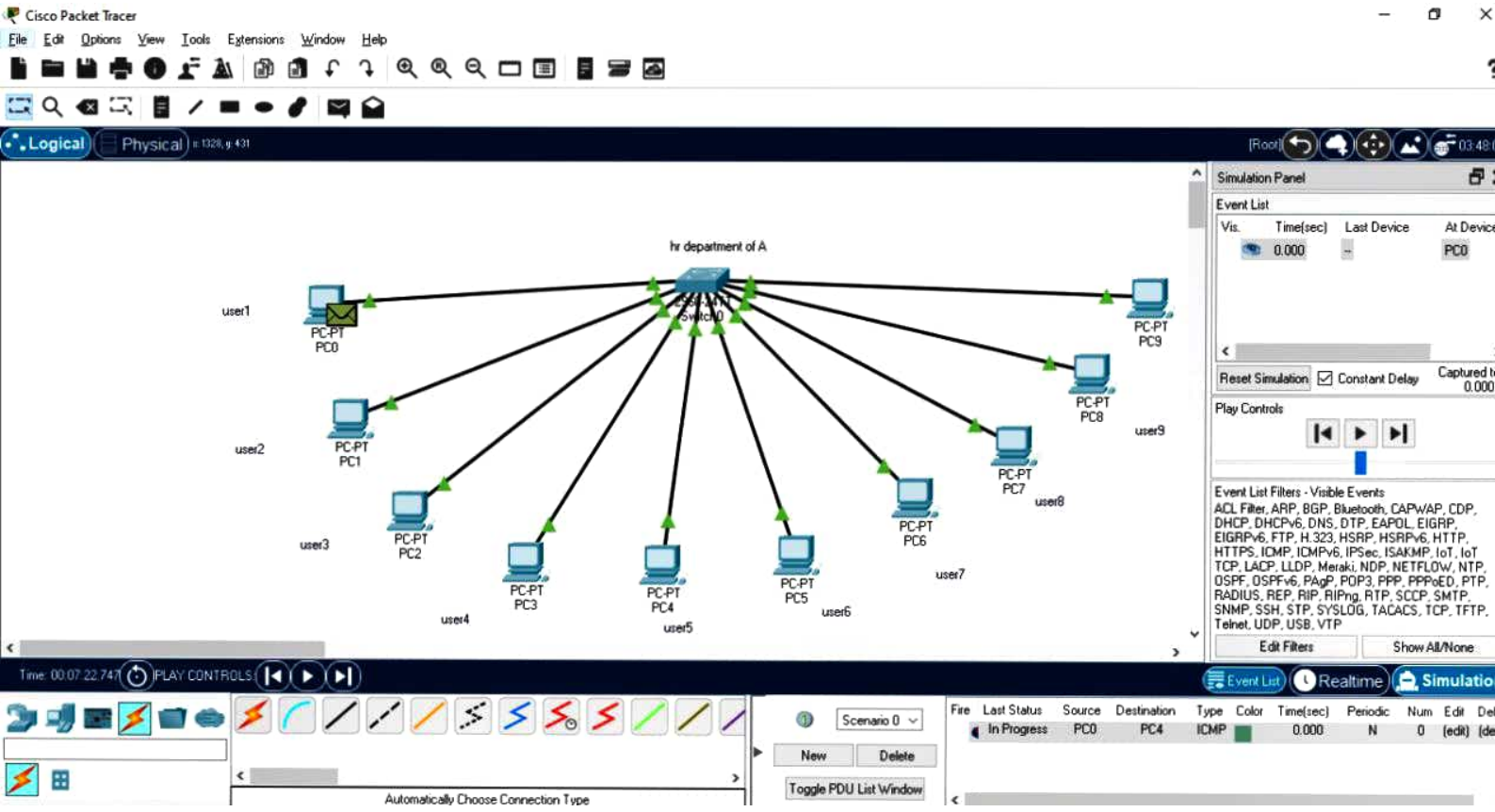
6. Routers Configuration

7. Create Sub-Interfaces for Each VLAN

8. Wireless access point Configuration

9. Server Configuration

10. DHCP Server setup


Cisco Packet Tracer
File Edit Options View Tools Extensions Window Help
Logical
Physical
hr department of A
user1
user2
user3
user4
user5
user6
user7
user8
user9
PC-PT PC0
PC-PT PC1
PC-PT PC2
PC-PT PC3
PC-PT PC4
PC-PT PC5
PC-PT PC6
PC-PT PC7
PC-PT PC8
PC-PT PC9
Simulation Panel
Event List
Vis. Time(sec) Last Device At Device
0.000 -- PC0
Reset Simulation
Constant Delay
Play Controls
Event List Filters - Visible Events
ACL Filter, ARP, BGP, Bluetooth, CAPWAP, CDP, DHCP, DHCPv6, DNS, DTP, EAPOL, EIGRP, EIGRPv6, FTP, H.323, HSRP, HSRPv6, HTTP, HTTPS, ICMP, ICMPv6, IPSec, ISAKMP, IoT, IoT TCP, LACP, LLDP, Meraki, NDP, NETFLOW, NTP, OSPF, OSPFv6, PAgP, POP3, PPP, PPPoED, PTP, RADIUS, REP, RIP, RIPng, RTP, SCCP, SMTP, SNMP, SSH, STP, SYSLOG, TACACS, TCP, TFTP, Telnet, UDP, USB, VTP
Edit Filters
Show All/None
Time: 00:07:22.747
PLAY CONTROLS
Event List
Realtime
Simulation
Scenario 0
New
Delete
Toggle PDU List Window
Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit
In Progress PC0 PC4 ICMP 0.000 N 0 (edit)
Automatically Choose Connection Type