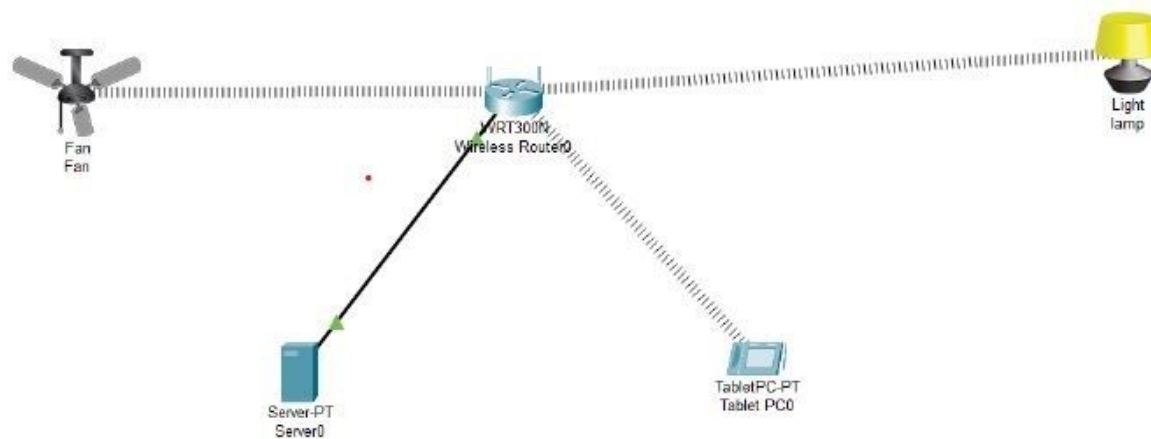


13. IOT Devices in Networking Using Cisco Packet Tracer



Name: G Geeth
Reg no: 192210476

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 587, y 500

Simulation Panel

Event List

Vis	Time(sec)	Last Device	At Device	Type

Reset Simulation ☒ Constant Delay Captured to: (no captures)

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, PPPoE, 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: 08:42:32.000 PLAY CONTROLS

Scenario 0

New Delete

Toggle PDU List Window

Copper Cross-Over

30°C Mostly cloudy

Search

ENG IN

09:27 12-08-2023

14. Simulating X,Y,Z Company Network Design

Name: G Geeth
Reg no: 192210476

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 641 y 133 [Root] 16:16:30

Server-PT Server0

2960-24T Switch

PC-PT PC0, PC-PT PC5, PC-PT PC10, PC-PT PC15, PC-PT PC1, PC-PT PC6, PC-PT PC11, PC-PT PC16, PC-PT PC2, PC-PT PC7, PC-PT PC12, PC-PT PC17, PC-PT PC3, PC-PT PC8, PC-PT PC13, PC-PT PC18, PC-PT PC4, PC-PT PC9, PC-PT PC14, PC-PT PC19

PC15

Physical Config Desktop Programming Attributes

IP Configuration

Interface FastEthernet0

IP Configuration

☒ DHCP ☐ Static DHCP request successful.

IP Address 192.168.1.4

Subnet Mask 255.255.255.0

Default Gateway 192.168.1.254

DNS Server 8.8.8.8

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::203:E4FF:FE8E:A4DC

IPv6 Gateway

IPv6 DNS Server

802.1X

☐ Use 802.1X Security

Authentication MD5

☐ Top

Time: 00:32:22

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
	Successful	Server0	PC15	ICMP		0.000	N	0	(edit)	(delete)

Copper Straight-Through

29°C Mostly cloudy

Search

ENG IN

09:01 12-08-2023

15. Make Computer Lab in Cisco Packet Tracer

Name: G Geeth
Reg no: 192210476

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 445, y 251 [Root] 10:39:30

PC-PT Host1 172.16.1.1 255.255.0.0

Printer-PT Printer0 172.16.1.3 255.255.0.0

Switch0 172.16.1.254 255.255.0.0

PC-PT PC1 172.16.1.2 255.255.0.0

PC-PT PC2 172.16.1.4 255.255.0.0

Host1

Physical Config Desktop Programming Attributes

Command Prompt

```
Pinging 172.16.1.3 with 32 bytes of data:
Reply from 172.16.1.3: bytes=32 time<1ms TTL=128
Reply from 172.16.1.3: bytes=32 time<1ms TTL=128
Reply from 172.16.1.3: bytes=32 time<1ms TTL=128
Reply from 172.16.1.3: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>ping 172.16.1.4

Pinging 172.16.1.4 with 32 bytes of data:
Reply from 172.16.1.4: bytes=32 time<1ms TTL=128
Reply from 172.16.1.4: bytes=32 time<1ms TTL=128
Reply from 172.16.1.4: bytes=32 time<1ms TTL=128
Reply from 172.16.1.4: bytes=32 time<1ms TTL=128

Ping statistics for 172.16.1.4:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>
```

16. Simulate a Multimedia Network

Name: G Geeth

Reg no: 192210476

Time: 00:21:12

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Copper Straight-Through

30°C Mostly cloudy

Search

ENG IN

09:24 12-08-2023

Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 337, y 163 [Root] 21-12-30

Server-PT IoT & radius server

2960-24TT Switch1

Laptop-PT Laptop0

WRT300N Wireless Router0

Fan

Door Door

Light Lamp

Garage Door garage door

17. AAA Local & Server Based Authentication Configuration in Cisco Packet Tracer

Name: G Geeth

Reg no: 192210476

Time: 01:29:33

Realtime Simulation

Scenario 0

New Delete

Toggle PDU List Window

Fire Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

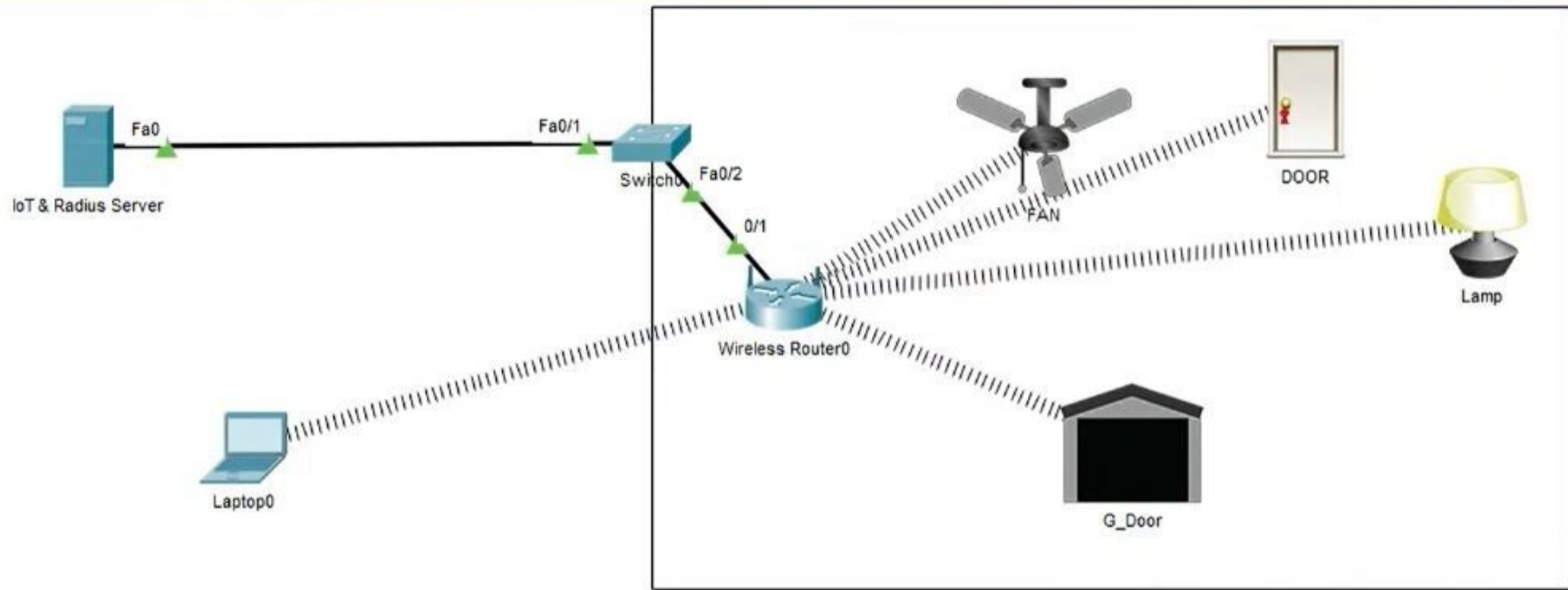
Copper Straight-Through

32°C Mostly cloudy

Search

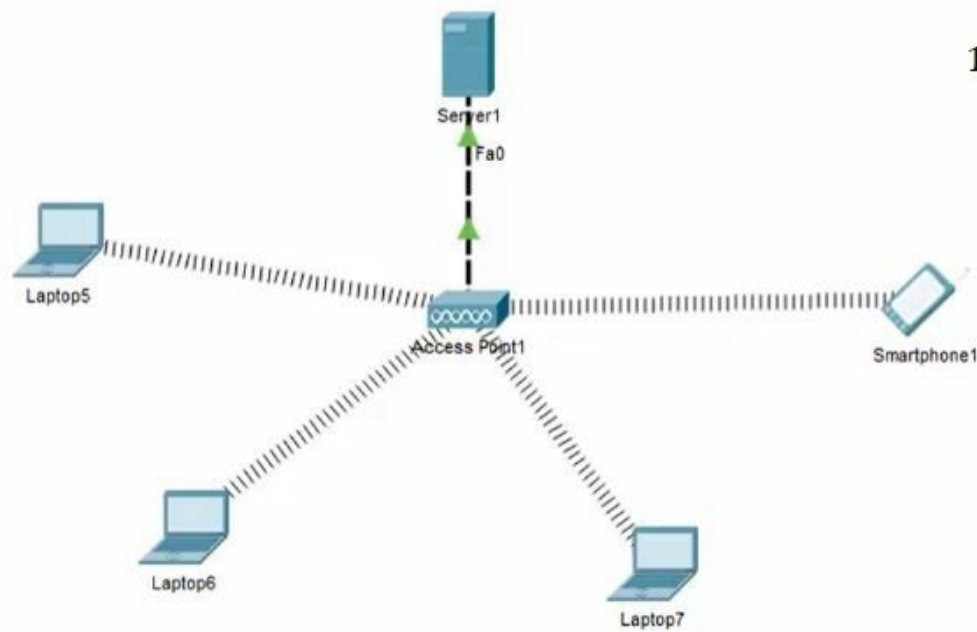
ENG IN

10:57 12-08-2023



Name: G Geeth
Reg no: 192210476

18. IOT Based Smart Home using WPA Security & Radius Server



19. WLAN Using Cisco Packet Tracer

Name: G Geeth
Reg no: 192210476



Cisco Packet Tracer

File Edit Options View Tools Extensions Help

Logical Physical x 778, y 381 [Root] 10:06:30

SMARTPHONE-PT Smartphone1

R100 Home Gateway

Fan Fan

Light Lamp

Appliance CF1

Window Windows

Smartphone1

Physical Config Desktop Programming Attributes

IoT Monitor

IoT Server - Devices Home | Conditions | Editor | Log Out

Fan (PTT0810ZASQ-)	Ceiling Fan
Status	Off Low High
Lamp (PTT0810R8ND-)	Light
Status	Off Dim On
Windows (PTT0810ZH65-)	Window
On	
CF1 (PTT08107ZC7-)	Appliance
On	

Top

20. Control of Fan, Light, Window & Application of Using Cisco Packet Tracer

Time: 00:20:09 Realtime Simulation

PC Laptop Server Wireless Router IoT Phone VoIP Device Phone TV Wireless Tablet Smart Device Generic Wireless Generic Wired Sniffer

SMARTPHONE-PT

35°C Mostly cloudy

Search

ENG IN 14:47 12-08-2023