

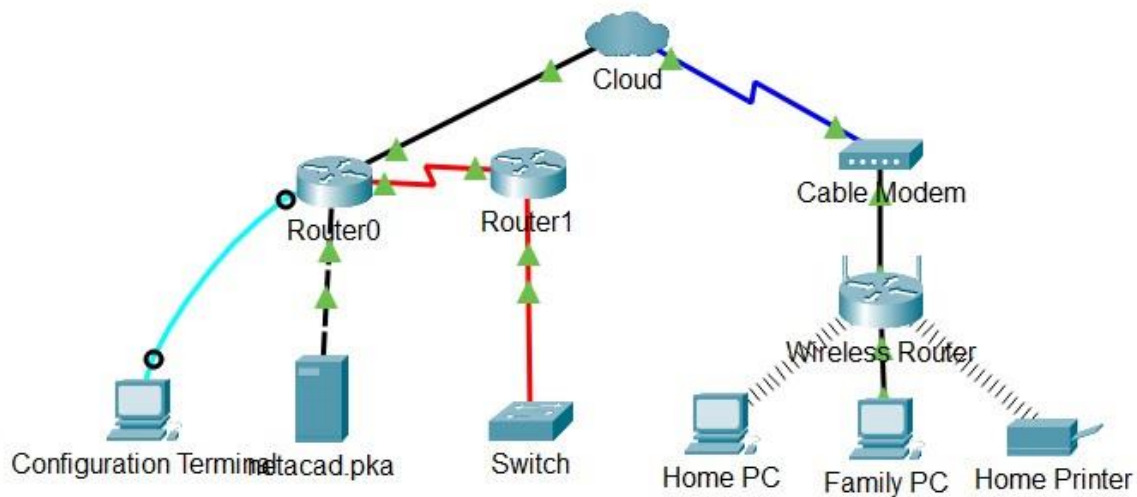
EXPERIMENT-6

Aim: To connect a wired and wireless LAN activity.

Software Used:

Cisco Packet Tracer

Topology:



Addressing Table:

Device	Interface	IP Address	Connects To
Cloud	Eth6	N/A	F0/0
	Coax7	N/A	Port0
Cable Modem	Port0	N/A	Coax7
	Port1	N/A	Internet
Router0	Console	N/A	RS232
	F0/0	192.168.2.1/24	Eth6
	F0/1	10.0.0.1/24	F0
	Ser0/0/0	172.31.0.1/24	Ser0/0
Router1	Ser0/0	172.31.0.2/24	Ser0/0/0
	F1/0	172.16.0.1/24	F0/1
WirelessRouter	Internet	192.168.2.2/24	Port 1
	Eth1	192.168.1.1	F0
Family PC	F0	192.168.1.102	Eth1
Switch	F0/1	172.16.0.2	F1/0
Netacad.pka	F0	10.0.0.254	F0/1
Configuration Terminal	RS232	N/A	Console

Connections:

- 1.Cloud to Router0 ->Ethernet6 to FastEthernet 0/0 through Copper Straight-Through.
- 2.Cloud to Cable Modem->Coaxial to Port0 through Coaxial Cable
- 3.Router0 to Router1->Ser0/0/0 to Ser0\0 through Serial DTE
- 4.Router0 to netcad.pka->FastEthernet0 to FastEthernet0/1 through Copper Cross-Over
- 5.Router0 to Configuration Terminal->Console to RS232 through Console
- 6.Router1 to Switch->FastEthernet1/0 to FastEthernet0/1 through Fiber
- 7.Cable Modem to Wireless Router->Port1 to Internet through Copper Straight-Through
- 8.Wireless Router to Family PC->Ethernet1 to FastEthernet1 through Copper Straight-Through

Objectives:

Part 1: Connect to the Cloud

Part 2: Connect to Router0

Part 3: Connect remaining devices.

Part 4: Verify connections.

Part 5: Examine the physical topology.

PART 1: Connect to the Cloud

Step 1: Connect the cloud to Router0.

Step 2: Connect the cloud to Cable Modem.

PART 2: Connect to Router0

Step 1: Connect Router0 to Router1.

Step 2: Connect Router0 to netacad.pka.

Step 3: Connect Router0 to the Configuration Table.

PART 3: Connect Remaining devices

Step 1: Connect Router1 to Switch.

Step 2: Connect Cable model to Wireless Router.

Step 3: Connect Wireless Router to Family PC.

PART 4: Verify Connections

Step 1: Test the connection from Family PC to netacad.pka.

Step 2: Ping the Switch from Home PC.

Step 3: Open Router0 from configuration terminal.

PART 5: Examine the Physical Topology Step

1: Examine the Cloud.

Step 2: Examine the Primary Network.

Step 3: Examine the Secondary Network.

Step 4: Examine the home network.

Packet Tracer Activity:

Activity Results Time Elapsed: 00:11:04

Congratulations Guest! You completed the activity.

Overall Feedback [Assessment Items](#) Connectivity Tests

Expand/Collapse All Show Incorrect Items

Assessment Items	Status	Points	Component(s)	Feedback
Network				
Cable Modem				
Ports				
Port 0		0	Other	
Link to Cloud		0	Other	
Connects to Coaxial7	Correct	5	Device Connection	
Port 1		0	Other	
Link to Wireless Router		0	Other	
Connects to Internet	Correct	5	Device Connection	
Cloud				
Ports				
Coaxial7		0	Other	
Link to Cable Modem		0	Other	
Connects to Port 0	Correct	5	Device Connection	
Ethernet6		0	Other	
Link to Router0		0	Other	
Connects to FastEthernet0/0	Correct	5	Device Connection	
Configuration Terminal		0	Other	
RS 232		0	Other	
Link to Router0		0	Other	
Connects to Console	Correct	5	Device Connection	
Family PC		0	Other	
Ports				
FastEthernet0		0	Other	
Link to Wireless Router		0	Other	
Connects to Ethernet 1	Correct	5	Device Connection	
netacad.pka		0	Other	
Ports				
FastEthernet0		0	Other	
Link to Router0		0	Other	
Connects to FastEthernet0/1	Correct	5	Device Connection	
Router0				
Console		0	Other	
Link to Configuration Terminal		0	Other	
Connects to RS 232	Correct	5	Device Connection	
Ports				
FastEthernet0/0		0	Other	
Link to Cloud		0	Other	
Connects to Ethernet6	Correct	5	Device Connection	
FastEthernet0/1		0	Other	
Link to netacad.pka		0	Other	
Connects to FastEthernet0	Correct	5	Device Connection	
Serial0/0/0		0	Other	
Link to Router1		0	Other	
Connects to Serial0/0	Correct	5	Device Connection	
Router1				
Ports				
FastEthernet1/0		0	Other	
Link to Switch		0	Other	
Connects to FastEthernet0/1	Correct	5	Device Connection	
Serial0/0		0	Other	
Link to Router0		0	Other	
Connects to Serial0/0/0	Correct	5	Device Connection	
Switch		0	Other	
Ports				
FastEthernet0/1		0	Other	
Link to Router1		0	Other	

Score : 80/80

Item Count : 16/16

Component	Items/Total	Score
Device Connection	16/16	80/80

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Conclusion

The network topology was connected and verified.