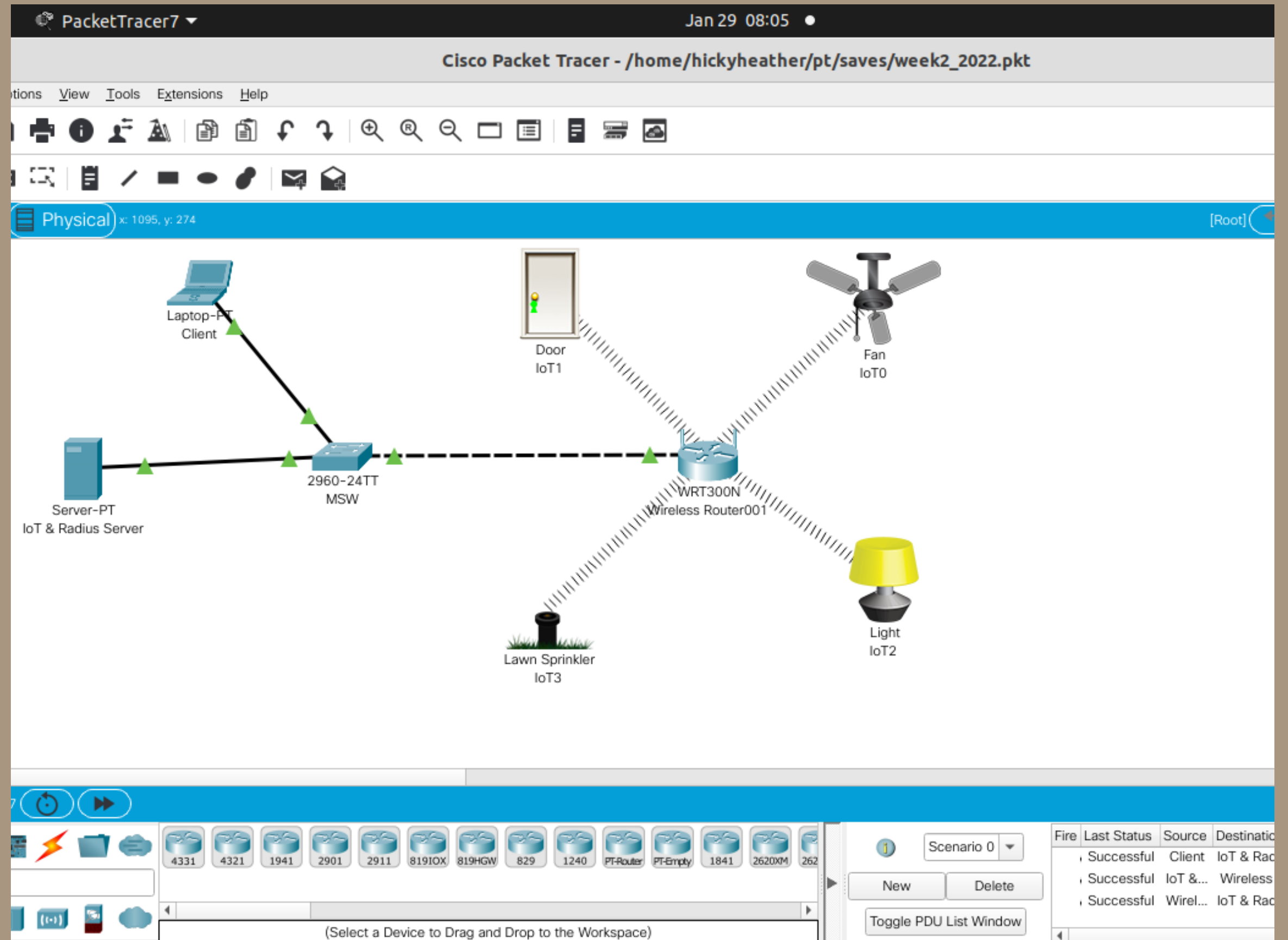# Setting Up Network

All objects are connected wirelessly to the wireless router and the laptop and server are connected using cables
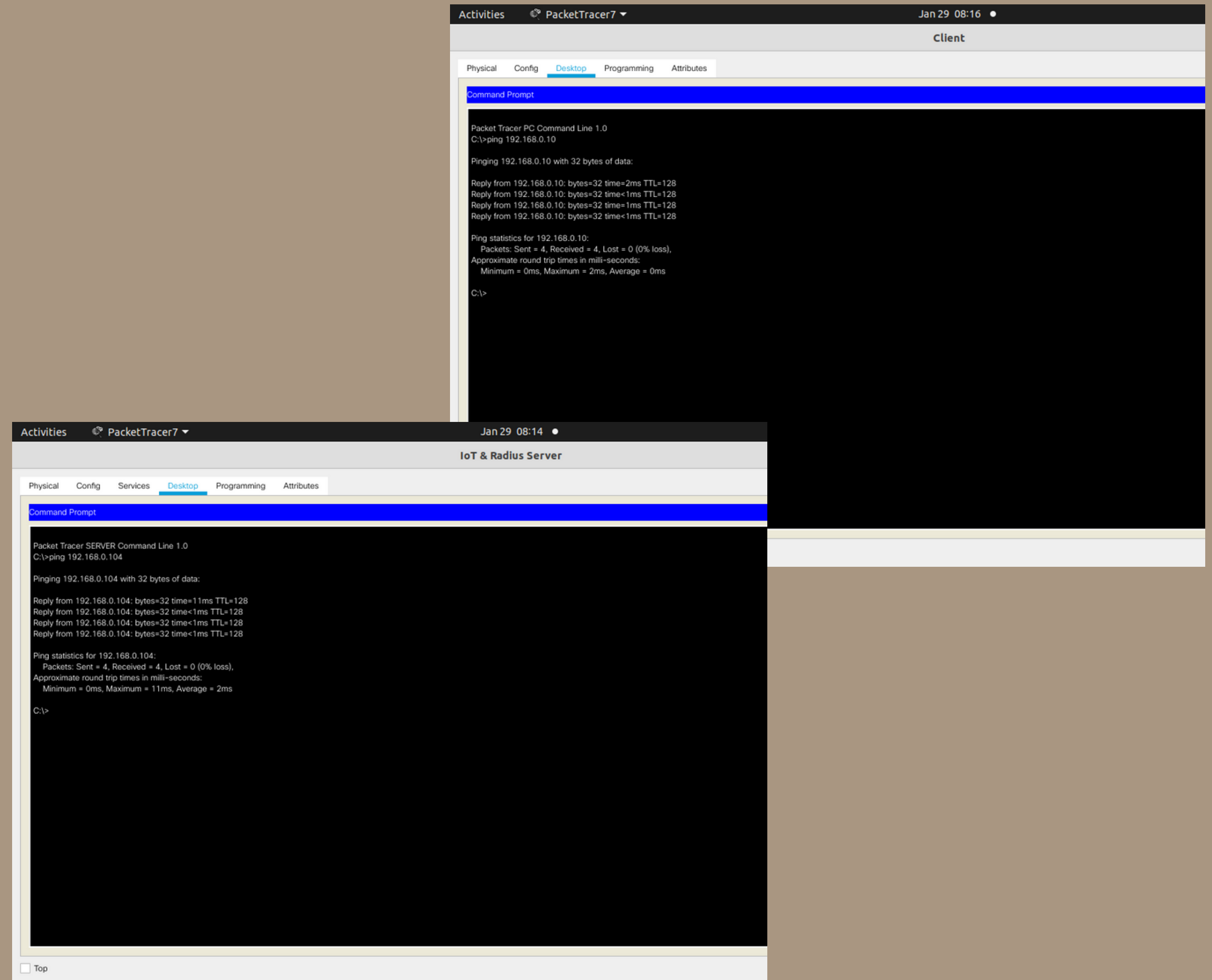
find the .pkt file here

Testing Connection

To test the connection I ping the IP address of the laptop on the command prompt of the server and also the server IP on the laptop
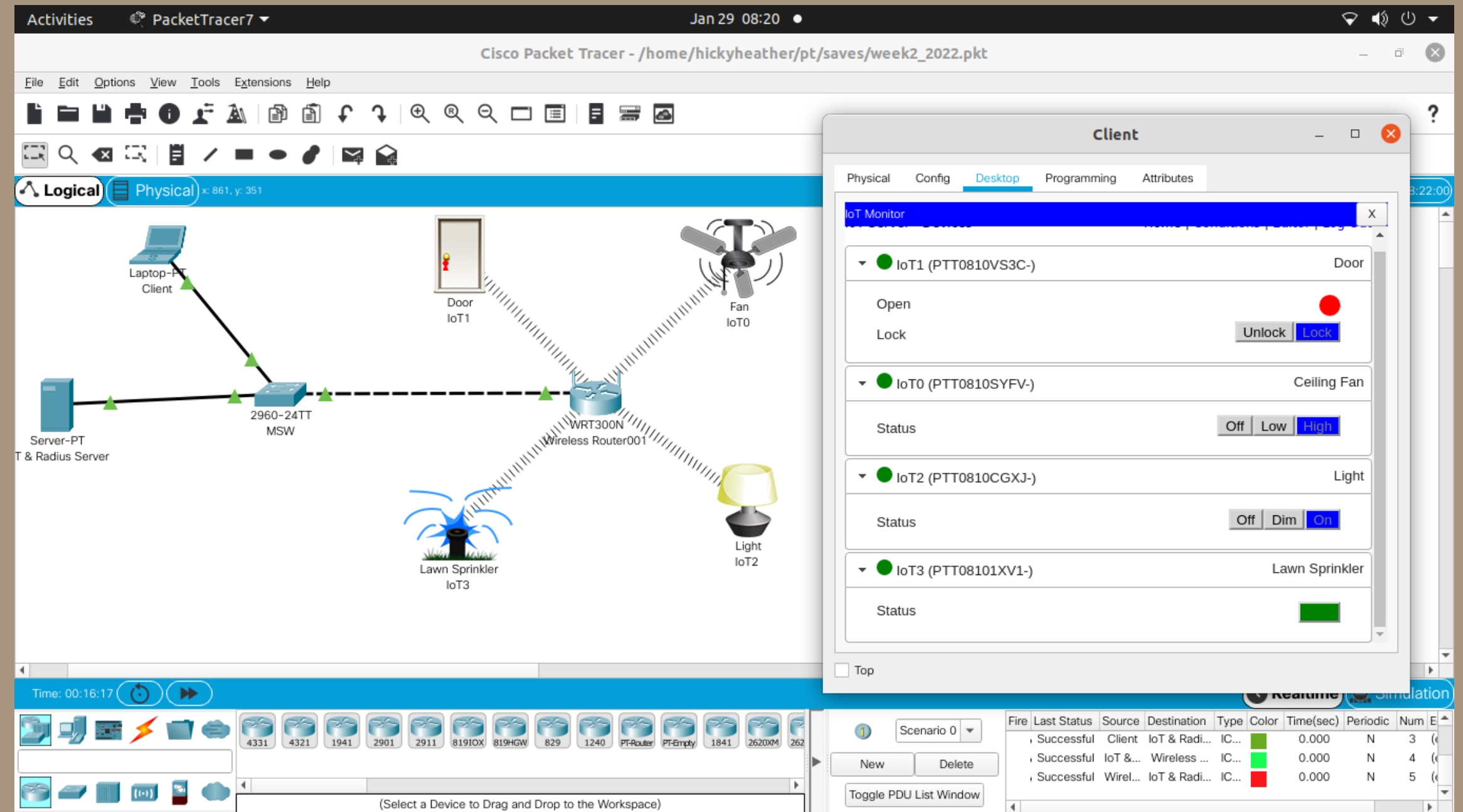
Laptop IP = 192.168.0.104
Server IP = 192.168.0.10

Client

Physical Config Desktop Programming Attributes

Command Prompt

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.0.10

Pinging 192.168.0.10 with 32 bytes of data:

Reply from 192.168.0.10: bytes=32 time=2ms TTL=128
Reply from 192.168.0.10: bytes=32 time<1ms TTL=128
Reply from 192.168.0.10: bytes=32 time=1ms TTL=128
Reply from 192.168.0.10: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.10:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 2ms, Average = 0ms

C:\>
```

IoT & Radius Server

Physical Config Services Desktop Programming Attributes

Command Prompt

```
Packet Tracer SERVER Command Line 1.0
C:\>ping 192.168.0.104

Pinging 192.168.0.104 with 32 bytes of data:

Reply from 192.168.0.104: bytes=32 time=11ms TTL=128
Reply from 192.168.0.104: bytes=32 time<1ms TTL=128
Reply from 192.168.0.104: bytes=32 time<1ms TTL=128
Reply from 192.168.0.104: bytes=32 time<1ms TTL=128

Ping statistics for 192.168.0.104:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 11ms, Average = 2ms

C:\>
```

Top

Changing States of Objects

To change the state of each object I used the IoT monitor on the laptop

Cisco Packet Tracer - /home/hickyheather/pt/saves/week2_2022.pkt

Activities   PacketTracer7   Jan 29 08:34

File Edit Options View Tools Extensions Help

Logical   Physical   x: 863, y: 167

Laptop-PT
Client

Server-PT
T & Radius Server

2960-24TT
MSW

WRT300N
Wireless Router001

Door
IoT1

Fan
IoT0

Light
IoT2

Lawn Sprinkler
IoT3

Time: 00:29:29

Client

Physical | Config | Desktop | Programming | Attributes

IoT Monitor   X

IoT1 (PTT0810VS3C-)   Door

Open

Lock   Unlock Lock

IoT0 (PTT0810SYFV-)   Ceiling Fan

Status   Off Low High

IoT2 (PTT0810CGXJ-)   Light

Status   Off Dim On

IoT3 (PTT08101XV1-)   Lawn Sprinkler

Status

Top

Realtime   Simulation

	Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	E
		Successful	Client	IoT & Radi...	IC...		0.000	N	3	
		Successful	IoT &...	Wireless ...	IC...		0.000	N	4	
		Successful	Wirel...	IoT & Radi...	IC...		0.000	N	5	

Scenario 0

New   Delete

Toggle PDU List Window

4331 4321 1941 2901 2911 819IOX 819HGW 829 1240 PT-Router PT-Empty 1841 2620XM 262

2901