FIRE EXTINGUISHER USING CISCO PACKET TRACER

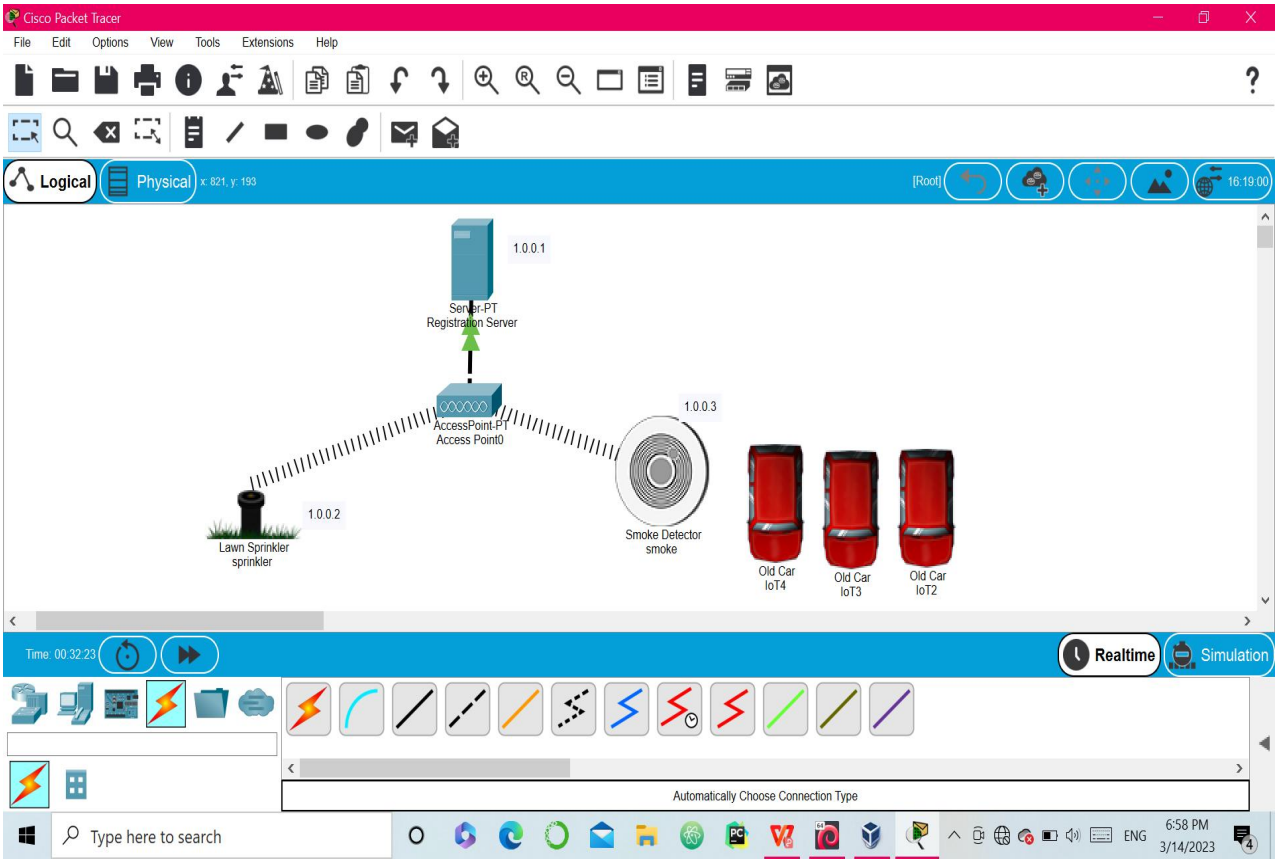
Fire Extinguisher project is done using the cisco packet tracer. Cisco packet tracer is a network simulation tool . This project is used to control the fire and to activate the sprinkler when there is smoke detected beyond the range specified.
To implement this we required mainly 4 components the are a server, water sprinkler, smoke detector , and 3 cars that emits the smoke.

STEPS:

• Drag and Drop Server pt,Access point,Smoke detector,lawn sprinkler sprinkler,old car-3.
• Rename Server pt as *"Registration Server"* and Rename lawn sprinkler sprinkler as "*lawn sprinkler IOT-0".*
• Double click on Access point and select config then select port1 and write *"SSIO"* inplace of CISCO .
• Double click on server and select desktop then select IP config then select *"static"* & also write IPv4 as *"1.0.0.1"*• Double click on Smoke detector and select config then select wireless0 and write *"SSIO"* inplace of CISCO & also select IP config as *"static"* and IPV4 as *"1.0.0.2"*.
• Double click on Sprinkler and select config then select wireless0 and write *"SSIO"* inplace of CISCO & also select IP config as *"static"* and IPV4 as *"1.0.0.3"*
• Now connect access point to registration server using symbol
• Double click on Sprinkler and select settings and then select Remote Server and write server address as *"1.0.0.1"* ,username:"*admin"* & password :"*admin"*and press *connect*.
• Double click on Smokedetector and select config and then select settings and then select Remote Server and write server address as *"1.0.0.1"* , username : "*admin"* & password :"*admin"* and press *connect*.
• Add IPaddress for Registration Server as *"1.0.0.1"*,Smoke detector as *"1.0.0.2"* & Lawn sprinkler IOT-0 as*"1.0.0.3"* .• Now double click on Registration server and select services
and select IOT and select *"on"*.
• Now double click on Registration server and select Desktop
and select web browser and in url type as *"1.0.0.1"* and press go.
• Now select *"signup"* and type username & password as "*admin" then press create.*
• Select *"conditions"* and select add and type name as *"smoke on"* and then set the level as *">=0.4"* and select sprinkler
status *"true"* and then press ok.
• Select *"conditions"* and select add and type name as *"smoke off"* and then set the level as *"<=0.4"* and select sprinkler

status *"false"* and then press ok.

• Now done with establishing connection . To obtain the smoke press ALT+car.



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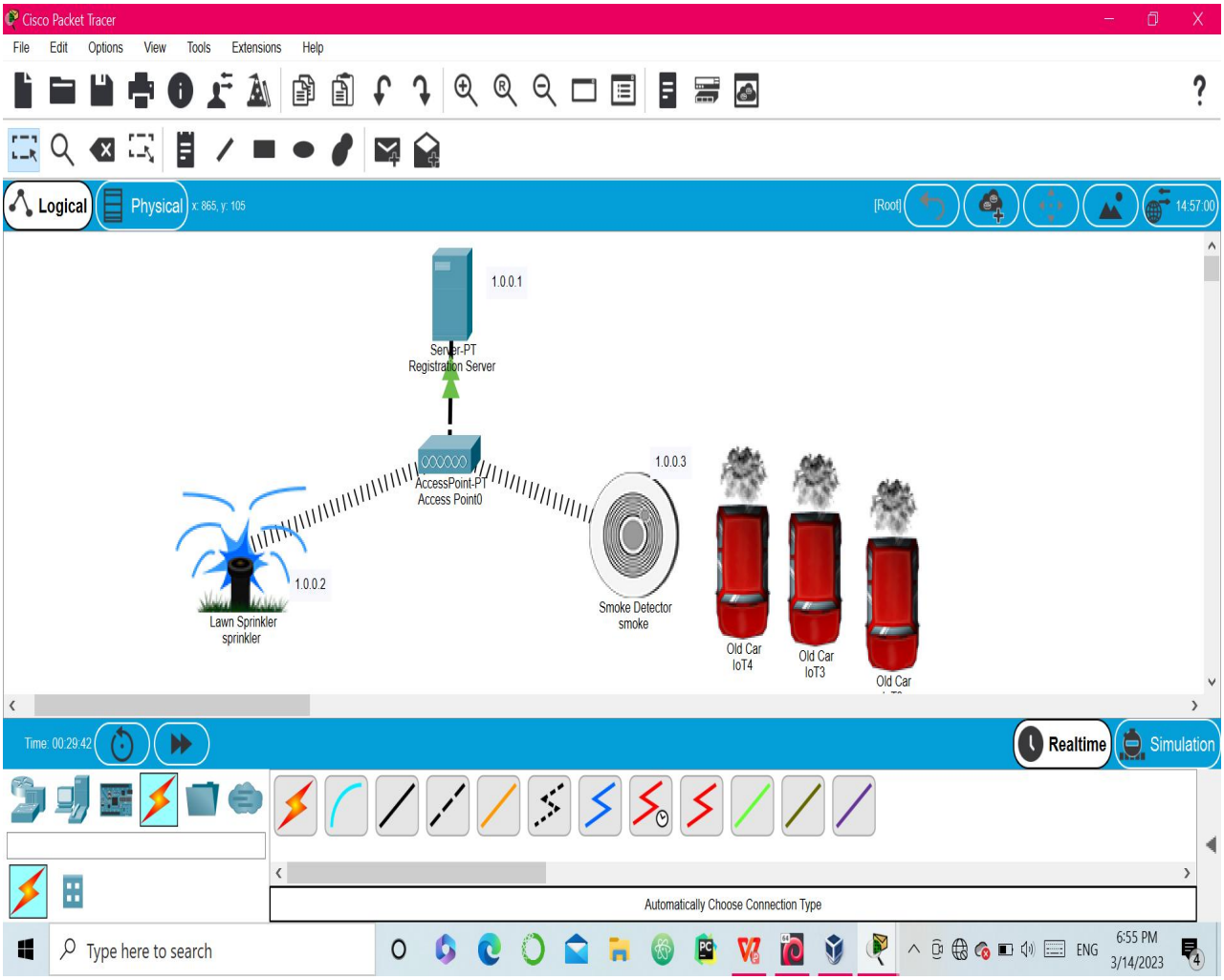
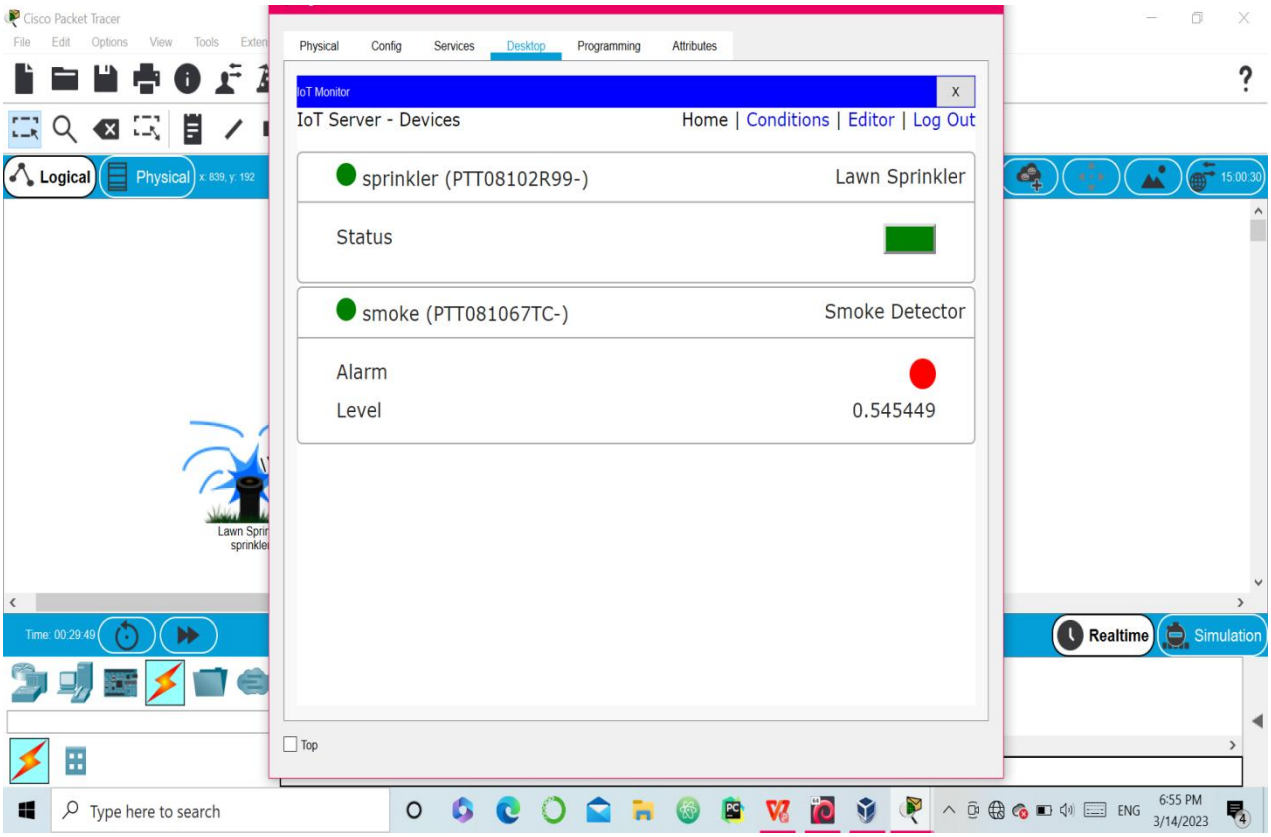

Cisco Packet Tracer
File Edit Options View Tools Extensions Help
Logical
Physical
[Root]
1.0.0.1
Server-PT
Registration Server
AccessPoint-PT
Access Point0
1.0.0.3
1.0.0.2
Lawn Sprinkler
sprinkler
Smoke Detector
smoke
Old Car
IoT4
Old Car
IoT3
Old Car
Time: 00:29:42
Realtime
Simulation
Automatically Choose Connection Type
Type here to search
ENG
6:55 PM
3/14/2023


Physical
Config
Services
Desktop
Programming
Attributes
IoT Monitor
IoT Server - Devices
Home | Conditions | Editor | Log Out
sprinkler (PTT08102R99-)
Lawn Sprinkler
Status
smoke (PTT081067TC-)
Smoke Detector
Alarm
Level
0.545449
Top
Logical
Physical
Realtime
Simulation
Type here to search
ENG
6:55 PM
3/14/2023