

NPS LAB EXPERIMENT-6

Implementation of Smart home using Cisco packet tracer and verify the configuration.

Step 1: Open cisco packet tracer and drag and drop the following devices.

Server-ipv4-192.168.0.10

PC ip address – 192.168.0.108, default gateway:192.168.0.1

Router

Switch

Fan

Lamp

Garage

Speakers

Connect the pc to the switch (FastEthernet-F0/3), Server to switch (FastEthernet-F0/1)

Switch to the server (FastEthernet-F2/1) and connect the router to the switch by the copper-cross over wire in the picture.

Step 2: Click on each device (EX:LAMP).

Go to the Config tab.

Step 3: Select the Home Gateway as its network and assign the **SSID** (e.g., HomeNetwork).

Step 4: The devices can either receive an IP address dynamically (via DHCP) from the Home Gateway or you can manually assign static IPs under the **Config > Wireless** section.

Step 5: Go to pc in that go to iot devices in that create username and password.

Step 6: Assign ip address to the pc and same address give in the fan in the remote server with username and password created in the iot device in the pc and repeat all the other devices like this.

Step 7: In the Desktop tab of the pc, go to IoT Monitor.

Here you should see all the connected smart devices.

Step 8: You can control devices like turning on/off smart lights, locking/unlocking doors, etc.

Here I have on the lamp and opened the garage door and on the Bluetooth.

