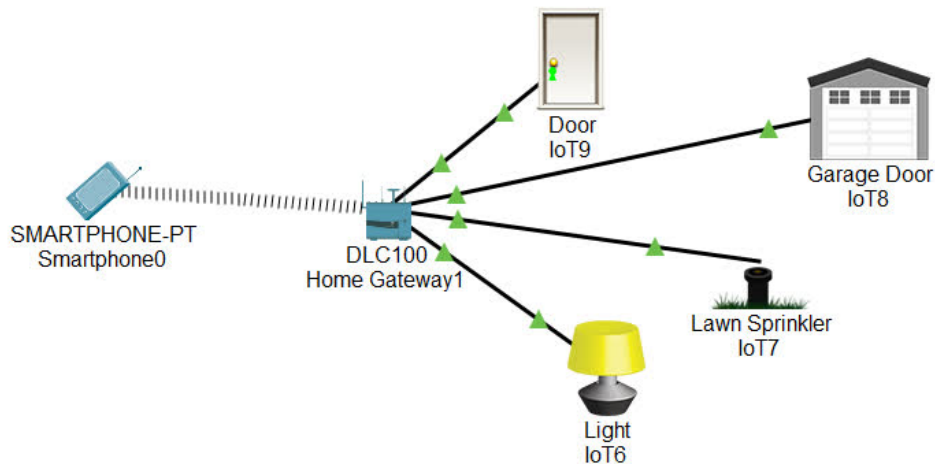


IOT - Cisco Packet Tracer Examples

| Access Files Via : <https://github.com/pariya-tavangar/Cisco-Packet-Tracer-IOT-Examples>



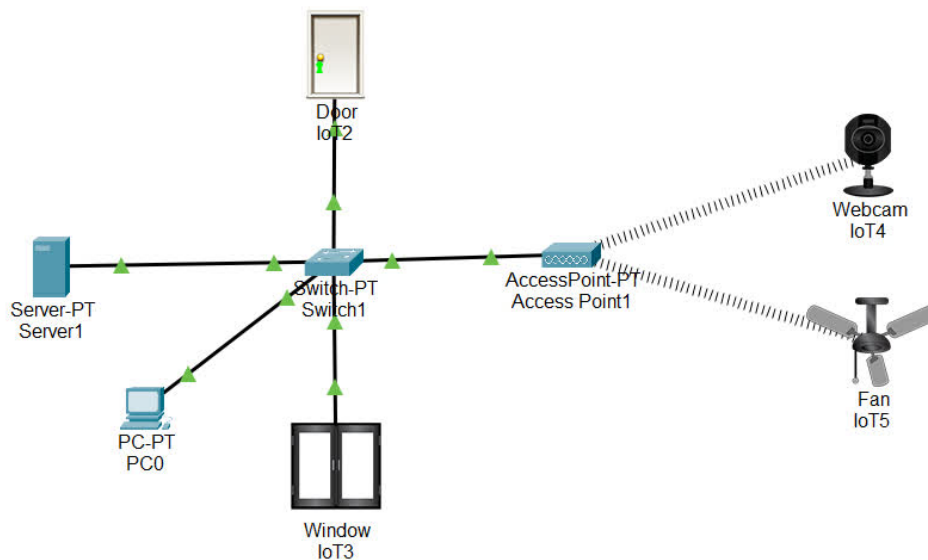
Scenario 1

Control Devices With Home Gateway

Components: home gateway, four devices, one smartphone

Procedure:

- 1- Connect Devices with fastethernet
 - 2- enable dhcp on every device (via config menu)
 - 3- enable homgateway button (via iot server section)
 - 4- connect a phone to homgateway with copying the ssid from wireless
 - 5- check connection from iot monitor in phone
-



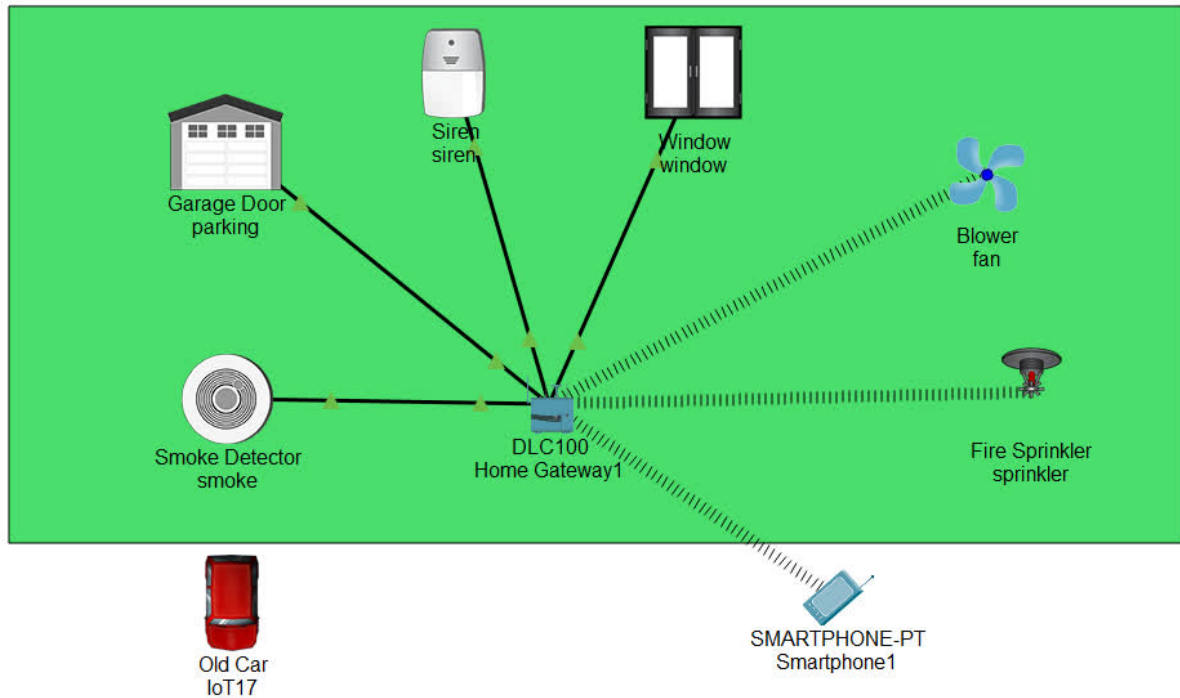
Scenario 2

Control Devices with server+switch+accesspoint

Components: Server, switch, accesspoint, four devices, one pc

Procedure :

- 1- (FastEthernet) connect devices to the switch with cable
 - 2- (Wireless) copy accesspoint SSID and paste on other wireless evices
 - 3- Set Ip for server | server> config> fastethernet | e.g. 192.168.1.1
 - 4- Turn on DHCP server | server> services> dhcp
e.g. Gateway:192.168.1.1 & start Ippaddress: 10 & Maximum no users: 20
 - 5- Turn on IOT on server | server> config> iot
 - 6- Add user In iot service | server> desktop> iot monitor | e.g. user:admin
pass:123
 - 7- Enable dhcp on devices | device> config> fastethernet
 - 8- Enable remote server on devices | devices> config> settings
 - 9- Check Connections (two ways)
- First way | server or pc> iot monitor
- Second way | server or pc> web browser
-



Scenario 3

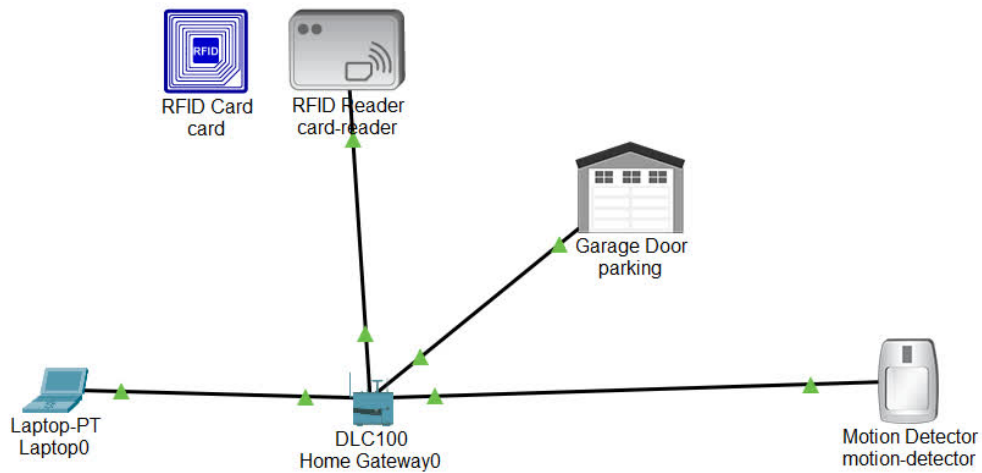
Fire Extinguisher

Components: Home Gateway, six devices(siren-smoke detector-parking-window-fire sprinkler-fan), car, one smartphone

Procedure :

- 1- Connect Devices with fastethernet or wireless
- 2- Enable dhcp on every device | device> config> settings
- 3- Enable homgateway option | device> config> settings> lot server
- 4- Connect a phone to home gateway with copying the SSID
- 5- Set conditions for smoke detector | phone> lot monitor> conditions> add
 condition1 : if smoke level > 0.1 then set fan level on low
 condition2 : if smoke level > 0.15 then turn everything on and set on highest status
 condition3 : if smoke level < 0.05 then turn everything off and set on lowest status
- 6- Check Connections (two ways)
 First way | mobile> lot monitor
 Second way | mobile> web browser

7- Test the smoke detector with the car | atl+click



Scenario 4

Smart Parking

Components: Home Gateway, garage door, motion detector, RFID card, RFID reader, one laptop

Procedure :

- 1- Connect Devices with fastethernet or wireless
 - 2- Enable dhcp on every device | device> config> settings
 - 3- Enable hom gateway option on devices | device> config> settings> lot server
 - 4- Connect the laptop to home gateway with copying the SSID
 - 5- Set conditions | phone> lot monitor> conditions> add
condition1 : if card reader id == 1001 then set card reader valid
condition2 : if card reader status == valid then set garadge status true
condition3 : if motion detector on is true then set garage status false
 - 6- Test RFID reader and motion detector | alt + click
-