

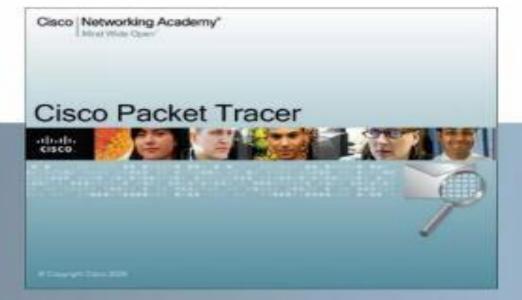
#### Cisco Packet Tracer Overview



#### What is Cisco Packet Tracer?

 Comprehensive networking technology teaching and learning software developed by Cisco Networking

Academy



Offers a unique combination of realistic simulation and visualization experiences, complex assessment and activity authoring capabilities, and opportunities for multiuser collaboration and competition

The free Cisco Packet Tracer software helps you to practice your network configuration and troubleshooting skills using your desktop or laptop computer.

It allows you to simulate networks without having access to physical equipment.

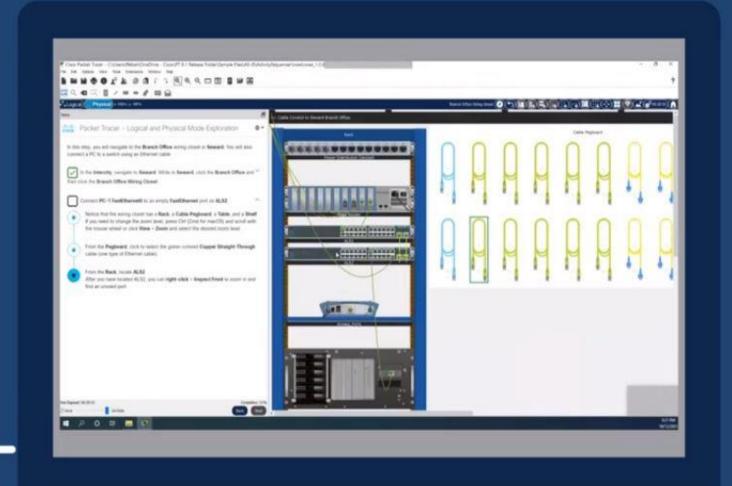
❖ In addition to networking, you can learn, and then practice your Internet of Things (IoT) and Cybersecurity skills.

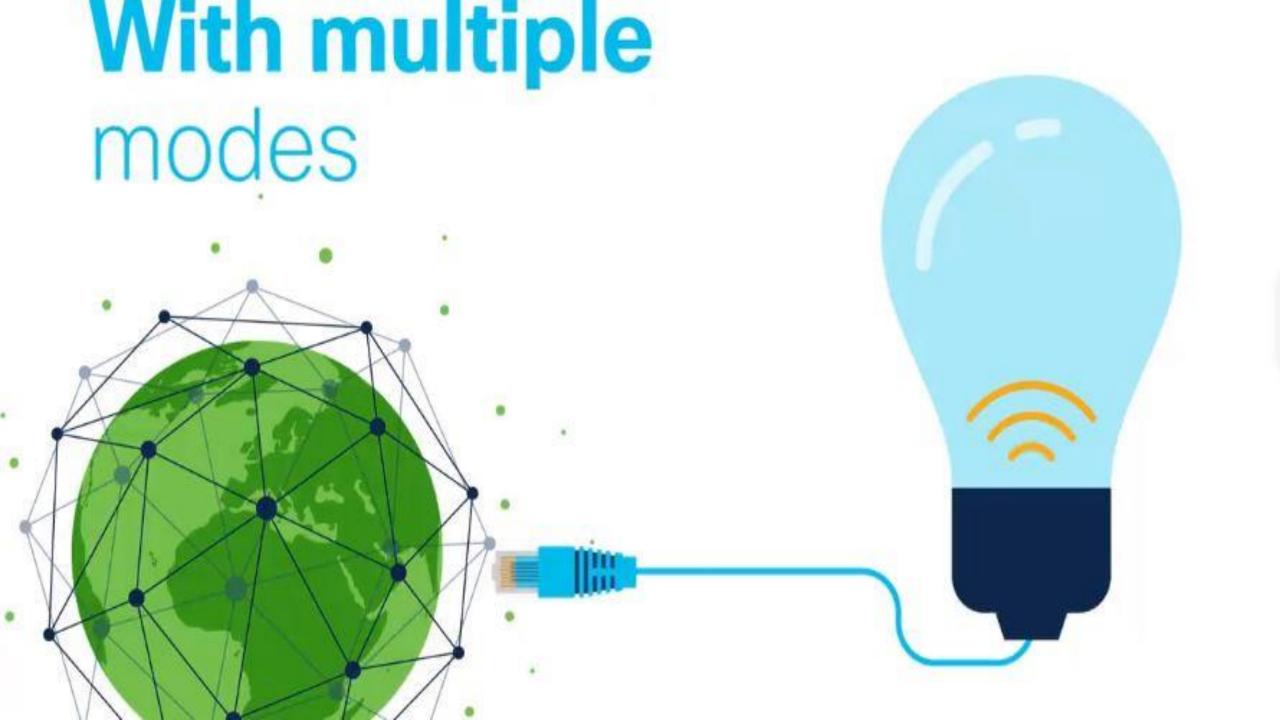
## Powerful learning tool

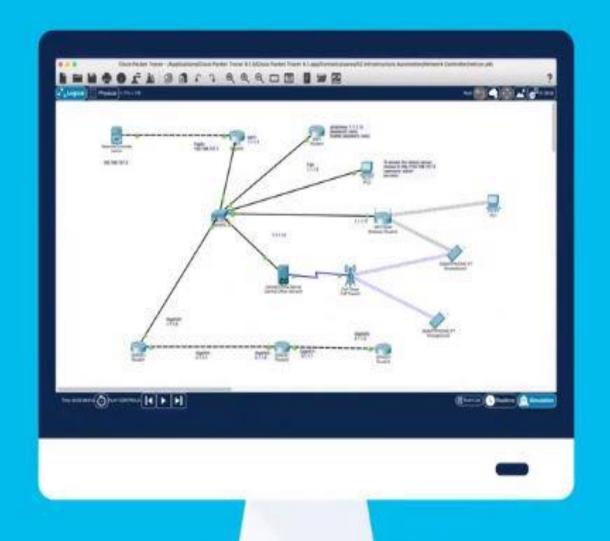
#### **KEY FEATURES**



#### Virtual lab

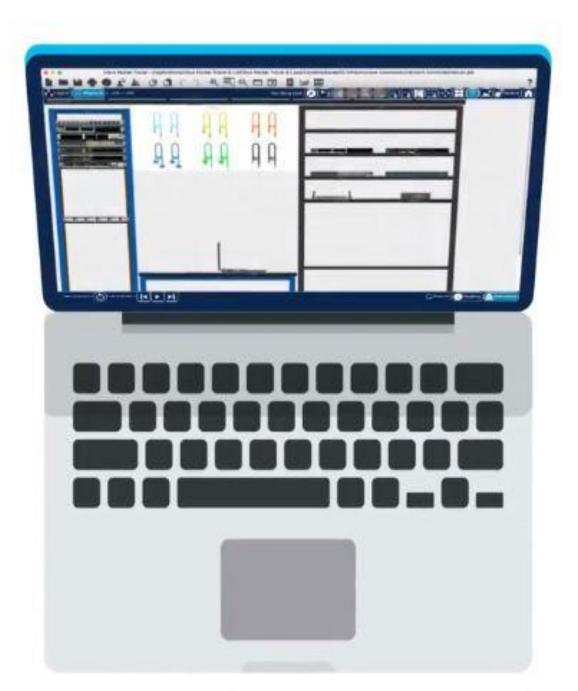






## Simulation mode

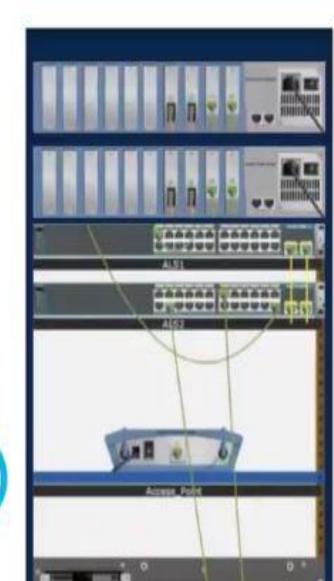
### Physical mode

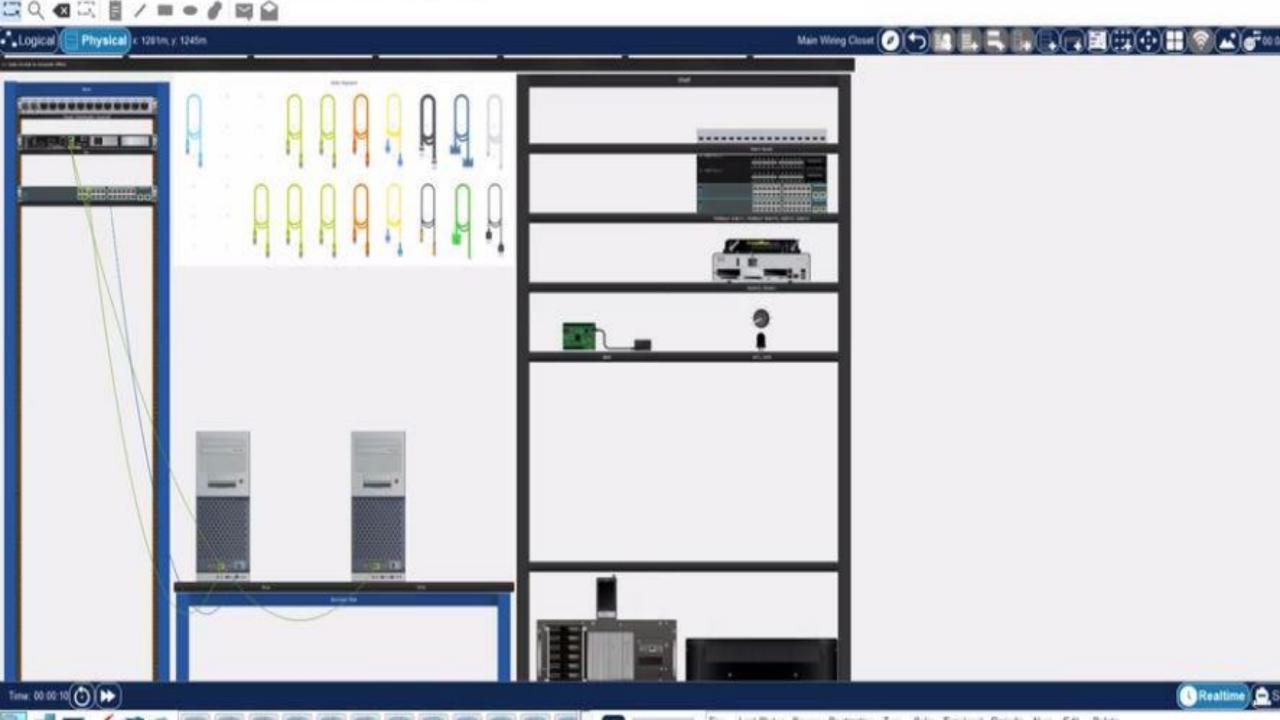


## Practice setting up device racks





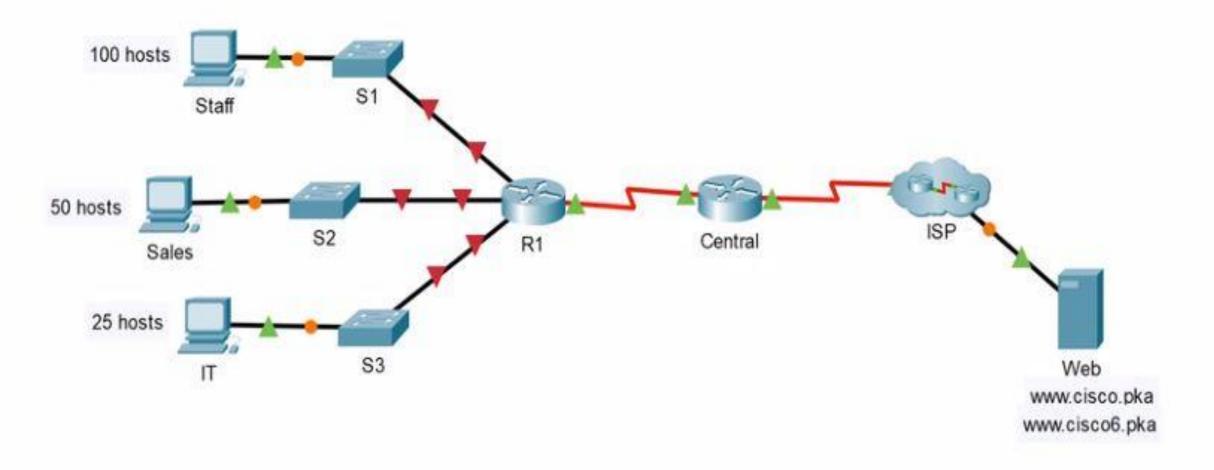


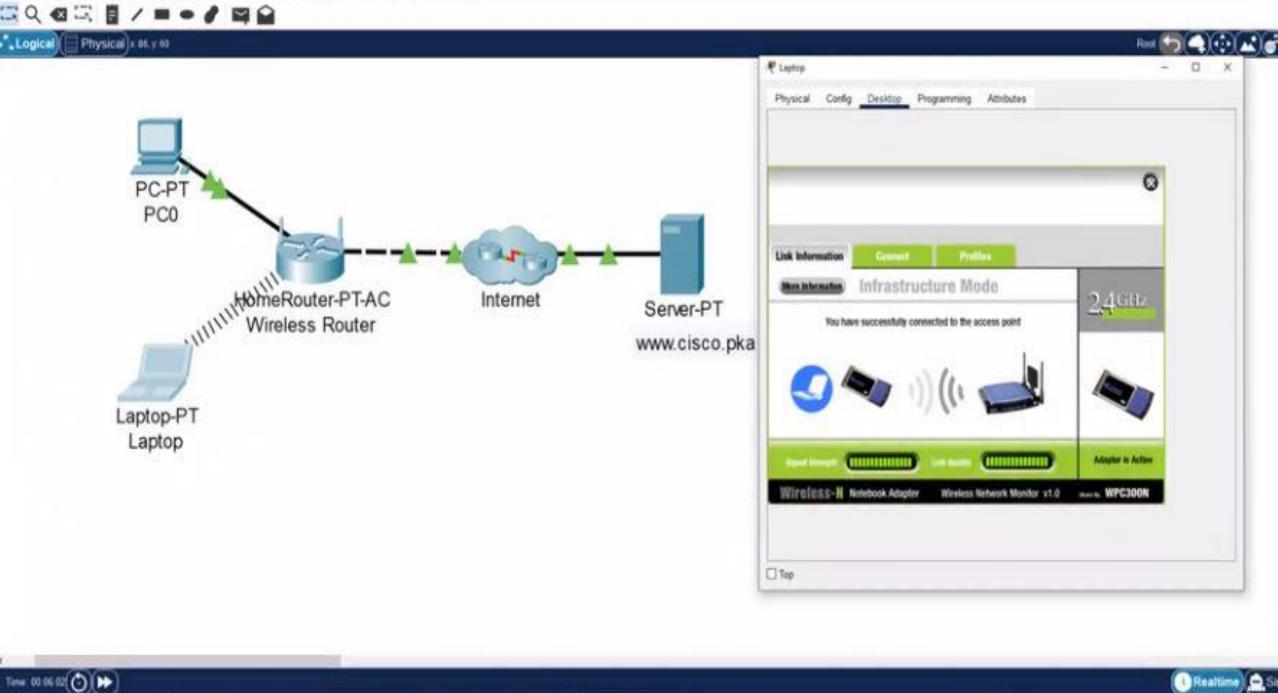


### What you can do in Packet Tracer

Time: 60 00:20 (b)



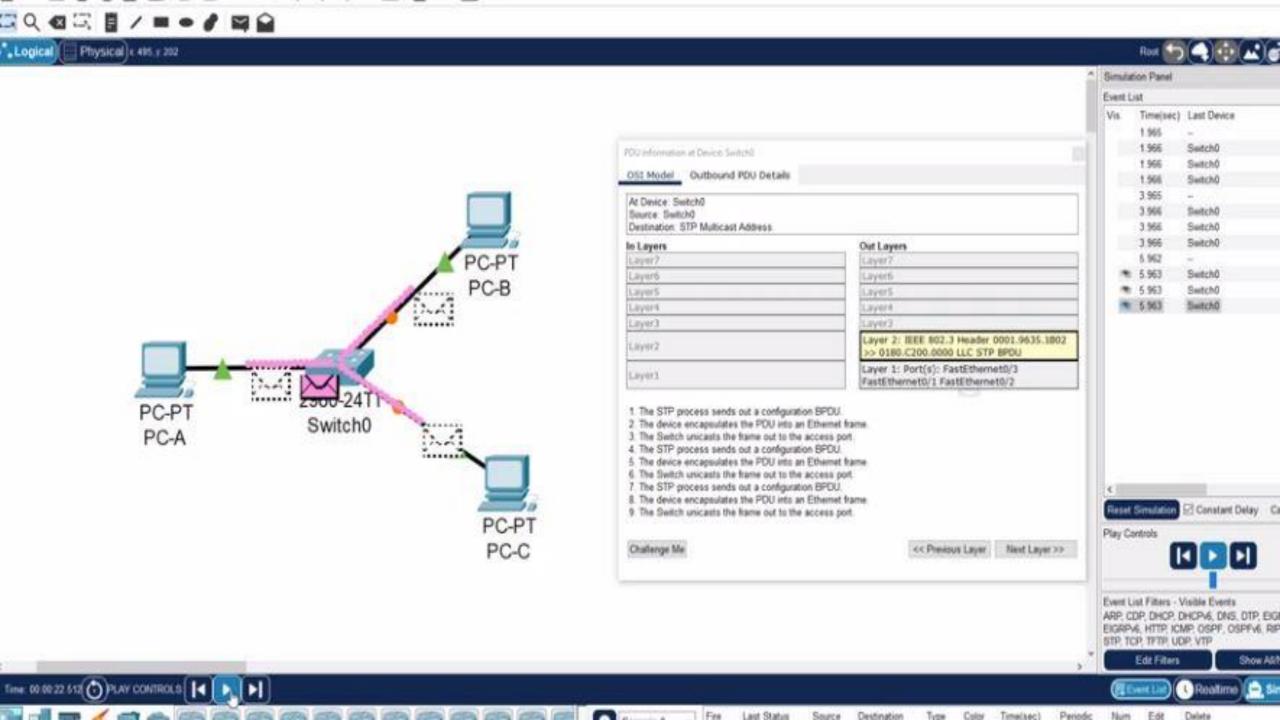




Fire Last Status Source Destination Type Color Time(sec) Penodic Num Edit Delete

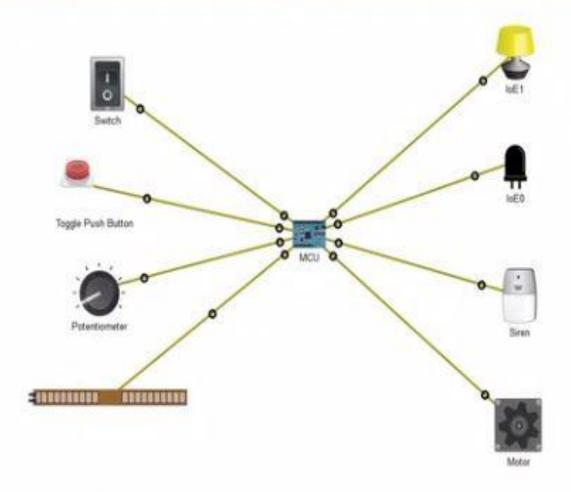
## Follow











#### Network Descriptions

An MCU (microcontroller unit) is a board that has a USB port, six digital I/O ports, and four analog I/O ports. The digital I/O ports on the MCU allows a user to connect digital sensors and actuators. Meanwhile, the analog I/O ports allows a user to connect analog sensors and actuators.

In this demo, there is a single MCU connected to four sensors and four actuators. The four sensors include a digital switch, a digital toggle push button, an analog potentiometer, and an analog flex sensor. The four actuators include a digital light, a digital LED, a digital siren, and an analog motor.

The MCU is programmed in Python to continuously read the sensor values and then write to the actuators, governed by conditional logic. The relationship between the sensors and actuators can be summed up by:

Switch -> Light Toggle Push Button -> LED Potentiometer -> Siren Flax Sensor -> Motor

Flex Sensor





# Cisco Packet Tracer costs nothing

#### 1.0.3 Download Cisco Packet Tracer



To obtain and install your copy of Cisco Packet Tracer, please follow the instructions from the link below:

https://skillsforall.com/resources/lab-downloads

To obtain and install your copy of Cisco Packet Tracer, please follow these simple steps:

Step 1. Download the version of Packet Tracer you require.

Packet Tracer 8.2.1 MacOS 64bit

Packet Tracer 8.2.1 Ubuntu 64bit

Packet Tracer 8.2.1 Windows 64bit

Step 2. Launch the Packet Tracer install program.

Step 3. Launch Cisco Packet Tracer by selecting the appropriate icon.

Step 4. When prompted, click on Skills For All green button to authenticate.

Step 5. Cisco Packet Tracer will launch and you are ready to explore its features.

#### Cisco Packet Tracer

