IoE and DHCP

1. Objective

Configure DHCP for IPv4 or IPv6 on a Cisco 1941 router.

1. Scenario

This chapter presents the concept of using the DHCP process in a small- to medium-sized business network; however, DHCP also has other uses!

With the advent of the Internet of Everything (IoE), any device in your home capable of wired or wireless connectivity to a network will be able to be accessed from just about anywhere.

Using Packet Tracer for this modeling activity, perform the following tasks:

* Configure a Cisco 1941 router (or DHCP-server-capable ISR device) for IPv4 or IPv6 DHCP addressing.
* Think of five devices in your home you would like to receive IP addresses from the router’s DHCP service. Set the end devices to claim DHCP addresses from the DHCP server.
* Show output validating that each end device secures an IP address from the server. Save your output information via a screen capture program or use the **PrtScrn** key command.
* Present your findings to a fellow classmate or to the class.

1. Required Resources

Packet Tracer software

1. Reflection
   1. Why would a user want to use a Cisco 1941 router to configure DHCP on his home network? Wouldn’t a smaller ISR be good enough to use as a DHCP server?

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* 1. How do you think small- medium-sized businesses are able to use DHCP IP address allocation in the IoE and IPv6 network world? Brainstorm and record five possible answers.

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