

# Can core switches automatically assign IP addresses



## Overview

No device can get its IP address automatically even when it's connected to a switch. If DHCP is not configured, one has to assign each device its IP manually. IPs and. Just to confirm, do you have IP routing enabled on the core switch and disabled on the access switches?

Please rate and mark as an accepted solution if you have found any of the information provided useful. This then could assist others on these forums to find a valuable answer and broaden the. Core switches set up a CSS that functions as the core of the entire campus network to implement high network reliability and forwarding of a large amount of data. I have a Cisco 2960 and have IP routing enabled. Network switches play a pivotal role in facilitating the assignment of unique IP addresses to connected devices, ensuring efficient network operation and resource. The switch can have multiple IP addresses. Each IP address can be assigned to specified interfaces or ports, Link Aggregation Groups (LAGs), or Virtual Local Area Networks (VLANs).



## Article Content

Apr 18, 2026

### Chapter 8. IP address assignment by using Dynamic Host

In this chapter, you'll learn how to configure a Cisco switch to automatically assign IP addresses using DHCP. If your organization already has a DHCP server, you'll learn how to configure your switch to

Mar 03, 2026

### Assigning an IP Address to a Switch : r/ccna

Switches are Layer 2 devices which mean it's not using IP to communicate. At layer 2 switches are using physical (MAC) address for communication which mean you can't assign IP address to interfaces.

Mar 23, 2026

### Making a Managed Network Switch assign IP Addresses within

1) When I'm offline/no internet, I want a network switch that will assign IP addresses, or have it's own IP addresses that it will assign to devices automatically when they connect to it, that

Dec 27, 2025

### Assigning IP Address And Default Gateway To A Switch

If you don't have chance to the same location of switch, you need to connect the devices remotely and manage them via SSH or Telnet. If you don't assign an IP address of a switch, it is almost impossible

Jul 10, 2025

### Configure IP Address Settings on a Switch using the CLI

This article provides instructions on how to configure the IP address settings on the Sx350, SG350X, Sx500, Sx500X series switches through the Command Line Interface (CLI).

Mar 01, 2026

### Understanding the Core Switch: Key Differences and Uses

Explore the core switch's role as the backbone of your network. Discover key differences, uses, and insights into layer 3 core switch technology.

Sep 10, 2025

### Native AC Solution: Core Switches Function as the Gateway for Wired

Configure the core switches to function as the DHCP server to assign IP addresses to APs and users. # Configure the function of assigning IP addresses to APs from the wireless management interface

Feb 07, 2026

How do devices connected to a switch get their IPs?

No device can get it's IP address automatically even when it's connected to switch. The DHCP server assigns each device it's IP which is

Feb 25, 2026

Why assign IP addresses to router/switch interfaces?

But why assign IP addresses to the interfaces? Is it so the router/switch knows which port to send the packet out? Route summation? But I thought they do that through the routing table, like "

Jul 05, 2025

How to Configure a Switch IP Address

A switch does not change the IP addresses of other devices on the network. However, you can configure an IP address on a switch interface to

May 02, 2026

Do Network Switches Have IP Addresses? Here's What You Need

Here's What You Need If you've ever stacked a few switches to grow a network or plugged a small managed switch under your desk, you've probably wondered, do network switches have ip

Apr 09, 2026

Which network service automatically assigns IP addresses to devices

DHCP Telnet DNS traceroute Explanation: Dynamic Host Configuration Protocol (DHCP) can be used to allow end devices to automatically configure IP information, such as their IP address,

Jan 30, 2026

How To Get A Network Switch To Assign IP

Learn how to configure a network switch to assign IP addresses efficiently. Understand the process and optimize your network for seamless

Nov 01, 2025

Assigning the Switch IP Address and Default Gateway

Understanding the Boot Process To start your switch, you need to follow the procedures in the Getting Started Guide or the hardware installation guide for installing and powering on the switch and for

May 15, 2026

### S600-E Series Switches Typical Configuration Examples

After the DHCP server function based on the interface address pool is configured on the user gateway, the hosts and mobile terminals on the interface can automatically obtain network

Jul 21, 2025

### How to setup dhcp pooling to automatically assign ip addresses

You aren't going to get this to work without NAT which your switch doesn't support. You have two DHCP servers - your router and your switch - which are in the same vlan and since DHCP discover

Sep 25, 2025

### Configure an IP address on a switch

This article describes how to configure an IP address on a Cisco switch in order to connect over the network for management.

Jul 01, 2025

### How to assign an IP address to a device

Alternatively, you can set the device to use Dynamic Host Configuration Protocol (DHCP) to automatically obtain an IP address from the

Jul 26, 2025

### Does a Network Switch Have an IP Address?

Can I use DHCP to assign an IP address to a network switch? Yes, many managed switches support DHCP (Dynamic Host Configuration Protocol), which allows them to automatically

Nov 20, 2025

### DHCP: How Networks Automatically Assign IP Addresses | Javith

Ever noticed your device's IP address changing randomly? Yesterday it was 192.168.1.105, today it's 192.168.1.142. You didn't change anything, yet the address just shifted.

Dec 16, 2025

### Assign an IP address based on switch port

Short: I want DHCP server to assign a preconfigured IP address based on a port (on a switch, ideally) a device is connected to. Long: My

May 14, 2026

How to Configure a Switch IP Address

Guide to configure a switch IP address via CLI: enter privileged mode, set interface ip address and mask, activate interface, save config, and verify

May 19, 2026

can you guys help me understand how ip address

And you can afford only one switch. And in addition you have your ISP box. And besides the servers you will have say a few phones and a few laptops and a few

Sep 24, 2025

ECS1100 Series Web Management Guide

You can configure the switch to obtain an address from a DHCP server, or manually configure a static IP address. Valid IP addresses consist of four decimal numbers, 0 to 255, separated by periods.

Mar 03, 2026

Configure IP Address Settings on a Switch using the CLI

The IP address of the switch can be manually configured or automatically received from a Dynamic Host Configuration Protocol (DHCP) server. If there are no DHCP servers available, the

## Contact Us

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