SOFTWARE & TECH

How To Find Ip Address On Mac

Published: November 20, 2026 | Index ID: #-

Introduction: Understanding IP Addresses on Your Mac

Every device connected to a network, whether it's a home Wi-Fi or a corporate intranet, is assigned a unique identifier known as an IP (Internet Protocol) address. Think of it as a digital mailing address that allows data to find its way to and from your Mac. Knowing how to find your IP address on a Mac can be essential for a variety of tasks: troubleshooting network connectivity, setting up a home server, configuring a printer, accessing your Mac remotely, or even just checking your location-based services. While the process is straightforward, MacOS offers several methods, from beginner-friendly graphical interfaces to more technical command-line tools. This guide will walk you through every approach, ensuring you can locate both your local (private) and public IP address with ease.

Whether you're a casual user trying to share a file over a local network or a tech enthusiast diagnosing a connection issue, understanding the different types of IP addresses and how to find them is a valuable skill. We'll cover the terminology, step-by-step instructions, and troubleshooting tips, all tailored for MacOS. By the end of this article, you'll be able to quickly retrieve any IP address your Mac uses, and you'll know exactly which method to choose for any scenario.

Local vs. Public IP Addresses: What's the Difference?

Before diving into the "how," it's helpful to understand the "what." Your Mac actually has two main IP addresses: a local (private) IP address and a public (external) IP address.

Local IP Address (Private): This is the address assigned to your Mac by your router within your home or office network. It's used for communication between devices on the same local network, such as your Mac, iPhone, printer, or smart TV. These addresses typically fall within ranges like *192.168.x.x*, *10.x.x.x*, or *172.16.x.x*. They are not directly routable over the internet.

Public IP Address (External): This is the address assigned to your entire network by your Internet Service Provider (ISP). It identifies your home or office on the wider internet. All devices behind your router share the same public IP address when accessing the web. You need your public IP if you want to set up remote access to your Mac from outside your network, or if you're troubleshooting issues like a blocked online service.

Knowing which address you need is the first step. The instructions below will help you find both.

How to Find Your Local IP Address on Mac (Easiest Methods)

Method 1: Using System Settings (MacOS Ventura and Later)

For newer versions of MacOS, Apple has consolidated network settings into System Settings.

1. Click the Apple logo in the top-left corner of your screen and select System Settings.
2. In the sidebar, click Network.
3. Select your active network connection from the list (e.g., Wi-Fi, Ethernet, Thunderbolt Bridge). A green dot indicates it's active.
4. Click the Details button next to your connection.
5. Your local IP address will appear in the IP Address field at the top of the window.

That’s it. You’ll also see other useful information like the Subnet Mask and Router address.

Method 2: Using System Preferences (Older MacOS Versions)

If you’re using MacOS Monterey or earlier, the steps are slightly different.

1. Click the Apple logo and go to System Preferences.
2. Click Network.
3. From the list on the left, select your active connection (Wi-Fi or Ethernet).
4. Your local IP address is displayed directly in the connection status area on the right. For Wi-Fi, it’s usually under “Status: Connected” and says “IP address: 192.168.x.x”.

Method 3: Using the Terminal (Fastest & Most Detailed)

For users comfortable with the command line, Terminal provides a quick and reliable way to find your local IP. It also works for any MacOS version.

1. Open Terminal (found in Applications > Utilities).
2. Type the following command and press Enter: ifconfig
3. Look for the section corresponding to your active interface. Common interface names are:

   en0: usually Wi-Fi (on MacBooks with Wi-Fi)
4. en1: sometimes Ethernet or Thunderbolt
5. en2, en3: often for USB adapters or other connections

Alternatively, you can use a simpler command that returns just your active local IP (assuming Wi-Fi on en0):ipconfig getifaddr en0

If your active interface is Ethernet, replace en0 with en1 or whatever is correct. This command outputs only the IP address, nothing else.

Method 4: Using the Option Key + Wi-Fi Icon

This is a hidden gem that many Mac users don’t know about. It provides instant network information without opening any app.

1. Hold down the Option (Alt) key on your keyboard.
2. While holding Option, click the Wi-Fi icon in the menu bar.
3. A detailed dropdown will appear. Look for IP address. It will show your local IP next to it.

This method works in any modern MacOS version and is incredibly handy for quick checks.

How to Find Your Public IP Address on Mac

Your public IP address is not stored directly on your Mac; it’s assigned by your ISP to your router. However, you can easily discover it using online services or Terminal commands.

Method 1: Using a Web Browser (No Setup Required)

1. Open any web browser on your Mac (Safari, Chrome, Firefox).
2. In the address bar, type one of the following popular IP-checking websites and press Enter:

   whatismyip.com
3. whatsmyip.org
4. ipchicken.com

5. ifconfig.me (shows IP in plain text)

Note: These websites also often show your approximate location and ISP. If you're using a VPN, the IP shown will be the VPN server's address, not your actual home IP.

Method 2: Using Terminal with a DNS or HTTP Service

If you prefer the command line or want to script the process, Terminal can fetch your public IP directly.

1. Open Terminal.
2. Type one of the following commands and press Enter:

curl ifconfig.me — returns only your public IP.
3. curl icanhazip.com — simple and reliable.
4. curl ipinfo.io/ip — returns just the IP.

For more detailed information, you can use curl ipinfo.io which returns a JSON string containing your IP, location, ISP, and more.

How to Find the IP Address of Another Device on Your Network

Sometimes you need to find the IP of a printer, a server, or another computer connected to the same local network. MacOS provides several ways to do this.

Method 1: Use the Router's Web Interface

Your router maintains a list of all connected devices and their assigned IP addresses.

1. Find your router's gateway IP (usually your local IP ending in .1, e.g., 192.168.1.1). You can get this from System Settings > Network > Details > Router.
2. Open a browser and enter that IP address.
3. Log in with your router's admin credentials (often printed on the router or set by you).
4. Look for a section called "DHCP Client List," "Attached Devices," "Network Map," or similar. All devices with their IP and MAC addresses will be listed.

Method 2: Use the Terminal with ARP

The ARP (Address Resolution Protocol) table on your Mac stores the IP-to-MAC mappings of devices it has recently communicated with.

1. Open Terminal.
2. Type arp -a and press Enter.
3. You'll see a list of IP addresses and their corresponding MAC addresses (physical hardware addresses) on your local network.

This method only shows devices that have recently exchanged data with your Mac. For a complete list, the router method is more reliable.

Method 3: Use Network Utility (Older MacOS) or Ping & ARP

If you know the device's hostname (e.g., "MyPrinter.local"), you can use the ping command to resolve its IP.

1. Open Terminal.
2. Type ping MyPrinter.local and press Enter. Replace with the actual local hostname of the device.
3. After a second or two, press Control+C to stop the ping. The IP address will be shown in the output (e.g., "PING MyPrinter.local (192.168.1.50)").

Troubleshooting Common Issues When Finding IP Addresses on Mac

Even with straightforward methods, you might encounter a few hiccups. Here are solutions to common problems:

- No IP Address Appearing: If your Mac shows no IP under network settings, ensure you are actually connected to a network. Check the Wi-Fi icon – it should be solid black (not grey). Try turning Wi-Fi off and on, or restarting your router.
- IP Address Starting with 169.254.x.x: This is an Automatic Private IP Addressing (APIPA) address. It means your Mac couldn't get a valid IP from the router's DHCP server. Try renewing your DHCP lease: go to System Settings > Network > Wi-Fi > Details > TCP/IP tab, then click "Renew DHCP Lease".
- Terminal Command Not Found: Ensure you typed the command correctly. For ifconfig, it's a single word. For curl, it must be installed (it's present by default on MacOS).
- Public IP Changing Frequently: Many ISPs assign dynamic IPs. If you need a static public IP for remote access, contact your ISP or consider using a dynamic DNS service.

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