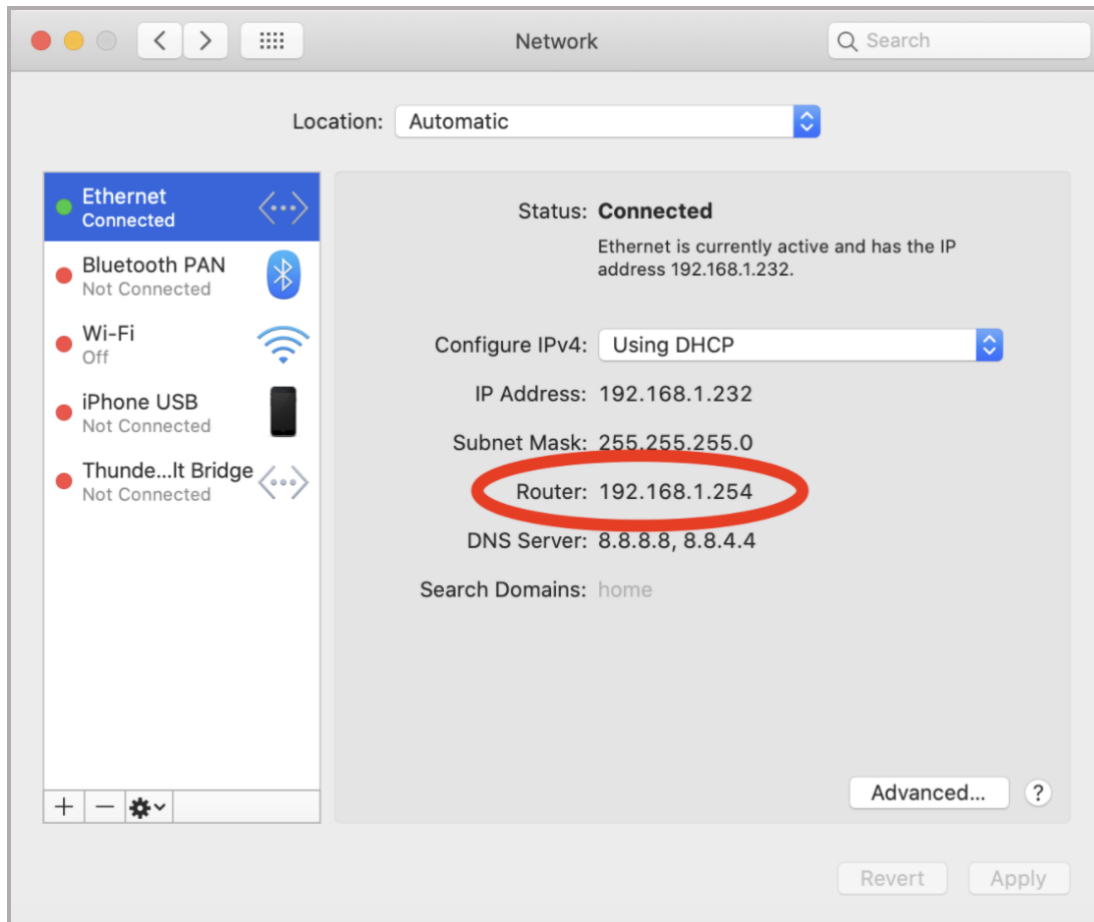


Step-by-Step Port Forwarding Guide

Here is a step-by-step guide to set up port forwarding in your router:

1. Go to System Preferences > Network to find the **IP address of your router**.



2. **Copy the IP address and paste it into a browser window.** This should take you to your router's user interface. Log in to your router if prompted, using the administrative password (often found on a sticker on the router). Some popular routers will direct you to a website or phone app to manage your router. Follow the instructions if prompted.
3. **Navigate to the Port Forwarding section of your router's interface.** On some routers, this is known as Port Mapping, Virtual Server, or Application access. Port Triggering is NOT the same as port forwarding, so be sure to avoid the port triggering function in your router.

4. **Some routers will ask you to select the device you want to port forward to.** This usually means the router will save the IP address and you will not need to worry about setting up a static IP, also known as DHCP reservation.
5. **Select the Device you want to port forward to, then choose 'Add port forward rule'.** Enter 6000 for the port number or port range, and UDP for the Protocol. Some routers will ask for an internal and external port. You can enter the same port for both. Some routers will ask for an external or public IP, you can usually leave this blank.

Network > NAT > Port Mapping - #1 (Edit)

Enable this rule

Private IP . . .

Whitelisted Public IP . . .

Protocol ▼

Private Port -

Public Port -

6. **Select the Device again and add another port forward rule, this time for UDP port 6001.**

Port Mapping List (Max Limit : 32)

No.	Status	Private IP	Whitelisted Public IP	Protocol	Private Port	Public Port	Configure
1	<input checked="" type="checkbox"/>	192.168.1.232		UDP	6000	6000	<input type="button" value="Edit"/> <input type="button" value="Delete"/>
2	<input checked="" type="checkbox"/>	192.168.1.232		UDP	6001	6001	<input type="button" value="Edit"/> <input type="button" value="Delete"/>

Because there are such a wide variety of routers, and it is impossible to cover them all in this course, we recommend looking at your router's manual for help with navigating the

router's menus to find the correct sections. Internet Service Providers who support port forwarding often provide instructions for the specific routers they supply.

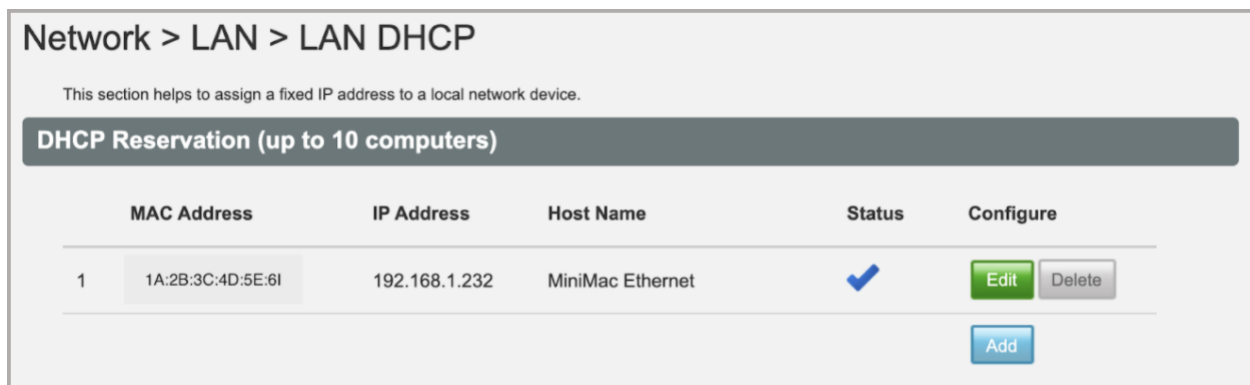
DHCP reservation and Static IP

In a router that does not let you choose your computer from a list of devices, you will likely need to reserve the IP address manually.

In terms of our postal worker, sometimes they may decide they want to shuffle about the IP address of locations in your network. This can mean they then try to send things addressed to UDP ports 6000 and 6001 to the wrong IP address.

By creating a DHCP reservation or Static IP in the router, we are telling the tiny postal worker to ALWAYS keep this address associated with this location.

As well as an IP address, your computer's connection will have a MAC address. IP addresses can be reused and recycled amongst devices, but MAC addresses are unique and permanent. We will tell the tiny postal worker to always keep the same IP address assigned to your computer's MAC address.



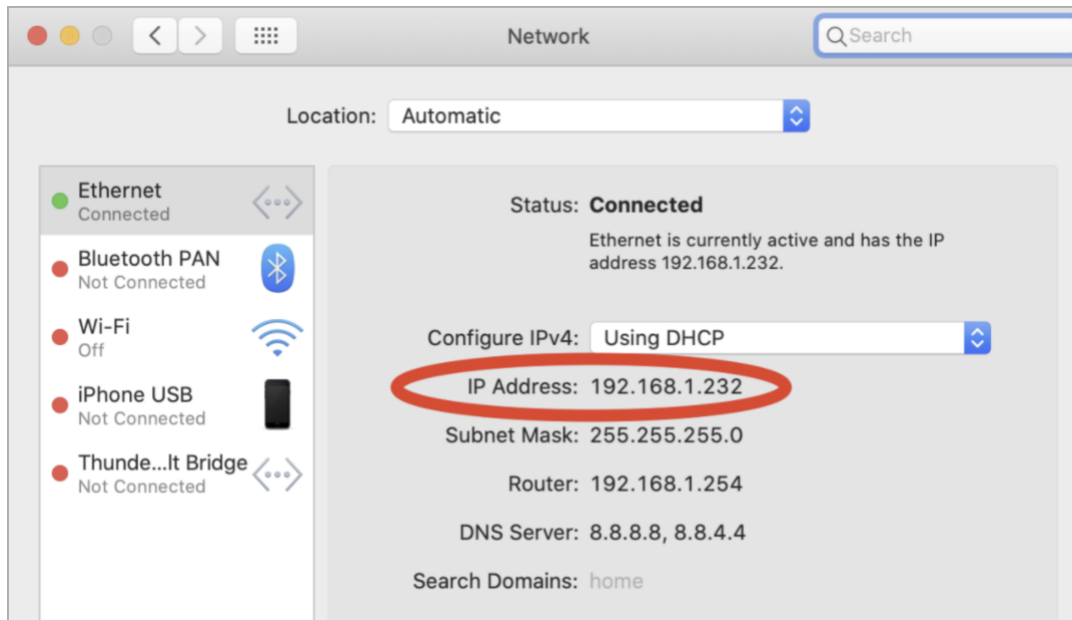
The screenshot shows a web interface for configuring a router's LAN DHCP settings. The breadcrumb navigation is "Network > LAN > LAN DHCP". Below the navigation, there is a sub-header "DHCP Reservation (up to 10 computers)". A table lists the current reservation with columns for MAC Address, IP Address, Host Name, Status, and Configure. The table contains one entry with a checked status. Below the table is an "Add" button.

	MAC Address	IP Address	Host Name	Status	Configure
1	1A:2B:3C:4D:5E:6I	192.168.1.232	MiniMac Ethernet	✓	Edit Delete

[Add](#)

Finding your computer's IP and MAC address

To find your computer's IP address and MAC address, go to System Preferences > Network.



The IP address is displayed when the computer is connected to the network.

Click the 'Advanced' button in the bottom right corner, then navigate to the 'Hardware' tab in order to view your computer's MAC address.

