I2P

The Invisible Internet Project

I would like to simplify all of these headers and tagline

Welcome to the Invisible Internet

The Invisible Internet is a privacy by design, people-powered network. It is a truly free and anonymizing Internet alternative. Get I2P.

Get Started   **Learn More**

Added a Learn More secondary button

What is I2P?

The Invisible Internet Project (I2P) is a fully encrypted private network layer. It protects your activity and location. Every day people use the network to connect with people without worry of being tracked or their data being collected. In some cases people rely on the network when they need to be discrete or are doing sensitive work.

I2P Cares About Privacy

I2P hides the server from the user and the user from the server. All I2P traffic is internal to the I2P network. Traffic inside I2P does not interact with the Internet directly. It is a layer on top of the Internet. It uses encrypted unidirectional tunnels between you and your peers. No one can see where traffic is coming from, where it is going, or what the contents are. Additionally I2P offers resistance to pattern recognition and blocking by censors. Because the network relies on peers to route traffic, location blocking is also reduced.

Peer-to-Peer

The network is people powered . Peers make a portion of their resources, particularly bandwidth, available to other network participants. This allows the network to function without relying on centralized servers. **Learn more about the Protocol Stack.**

Privacy and Security By Design

I2P has created transport protocols that resist DPI censorship, and continuously improves its end to end encryption. **Read the I2P Transport Overview.**

Built For Communication

I2P has an application layer with easy to use **APIs for creating your own privacy - aware apps.**

News & Updates

2021-05-17 - **0.9.50 Release**

2021-02-17 - **0.9.49 Release**

2020-12-10 - **Hello Git, Goodbye Monotone**

2020-11-30 - **0.9.48 Release**

2020-08-24 - **0.9.47 Release**

2020-06-07 - **Help your Friends Join I2P by Sharing Reseed Bundles**

2020-05-25 - **0.9.46 Release**

2020-03-18 - **Using a git bundle to fetch the I2P source code**

More blog posts…

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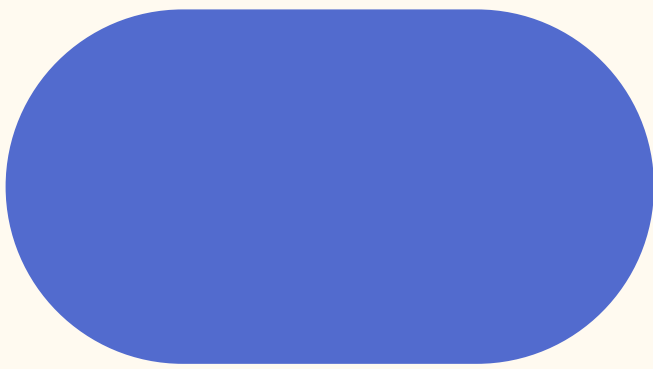
Peer to Peer

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Privacy and Security

I2P has created transport protocols that resist DPI censorship, and continuously improves its end to end encryption.

Built for Communication

I2P has an application layer with easy to use APIs for creating your own privacy - aware apps.

Get Started

```
var drive = await beaker.hyperdrive.createDrive()
await drive.readdir('/')
await drive.writeFile('/hello.md', '# Hi!')
await drive.stat('/hello.md')
await drive.readFile('/hello.md', 'utf8')
await drive.unlink('/hello.md')
```

Developer Guide

Developers can create apps within I2P and a bunch of other stuff as well.

Dev Resources   **Read the Docs**

What People are Saying about I2P Software

"As a journalist, I care about my privacy online and with I2P I can use the internet without being tracked and I love that it is open source."

— Yumi T.

"I'm a long time contributor of I2P, started in 2016 and have been creating new apps with a great community of people."

— Sean W.

I2P

Getting Started with I2P

The Invisible Internet Project (I2P) is a fully encrypted private network layer. The network protects your activity and
location. Additionally, I2P has created transport protocols that resist DPI censorship.

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I2P has an application layer with easy to use APIs for creating your own privacy-aware apps.

Learn more about I2P

System Requirements

For Windows, Mac, and Linux:
Java is required the run I2P. Download it here.
Directions for terminal and command line (headless) install.

For Android:
Android comes with a Java virtual machine as part of the platform, which I2P for Android uses. Therefore it is not necessary to install Java to use I2P for Android

Debian and Ubuntu:
On Debian and Ubuntu when using a .deb package to install, the system will automatically install and configure a Java environment for you.

Basic Steps

Step 1: Download Software   Download I2P

You can use this text section to describe each of the following steps in more detail. Step 1: Download will take you to a download page based on your operating system. Keep in mind that for Mac, Windows, and Linux you will need to also have Java downloaded and installed. You may bypass this step for Android. Linux users that are running on Debian and Ubuntu have additional instructions.

Step 2: Installation Instructions

Step 2: Installation will consist of instructions on how to install the software once you've got it downloaded. You will follow each step and it will take you through a wizard walk through. Finally, you will open and launch I2P for the first time.

Step 3: Browser Configuration

Lastly, Step 3: Configuration requires that you configure your browser. This is necessary because of these reasons here blah blah blah. Keep in mind you will not be able to access the regular web (also known as clearnet) with the browser configured. We recommend Firefox so that you can bypass this with the privacy add-on.

You are ready to get started! If you'd like to learn more about I2P and how the network runs, stop by the Resources page.

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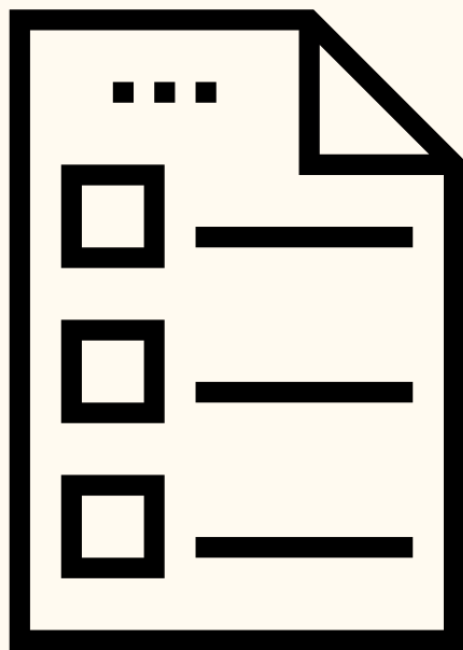
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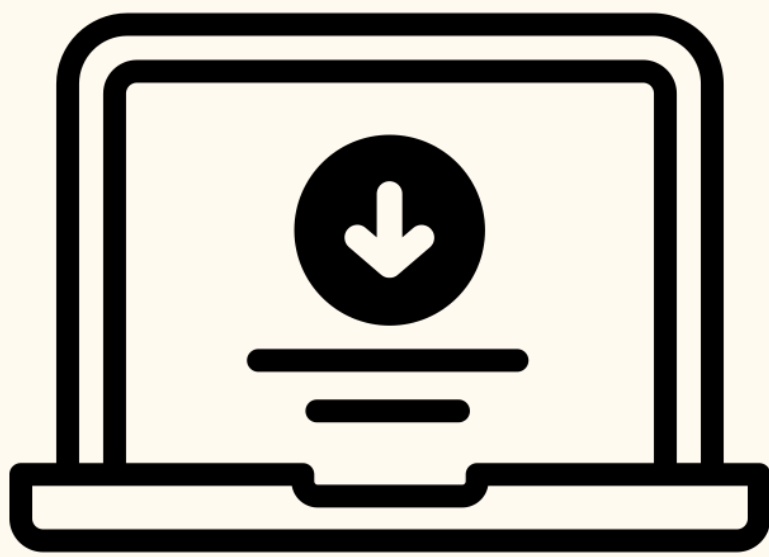
1. Download the Software

`Download will take you to a download page based on your operating system. Keep in mind that for Mac, Windows, and Linux you will need to also have Java downloaded and installed.

2. Follow the Installation Instructions

Installation will consist of instructions on how to install the software once you've got it downloaded. You will follow each step and it will take you through a wizard walk through. Finally, you will open and launch I2P for the first time.
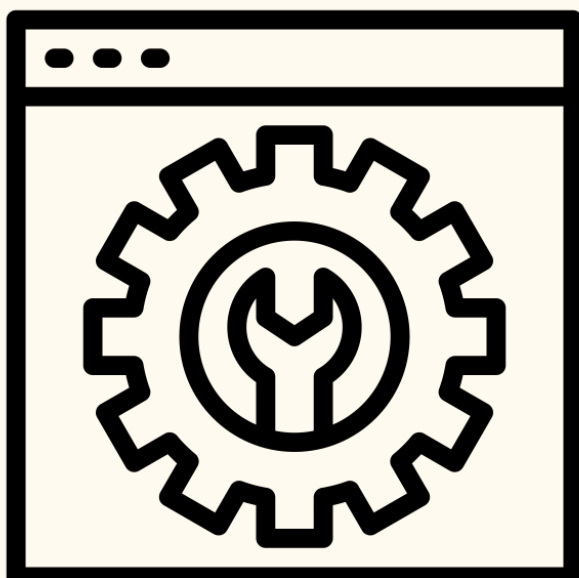
3. Configure your Browser

Configuration requires that you configure your browser. This is necessary because of these reasons here blah blah blah. We recommend Firefox so that you can bypass this with the privacy add-on.

Get started now

Download I2P

If you'd like to learn more about I2P and how the network runs, stop by the Resources page.

Version 2C
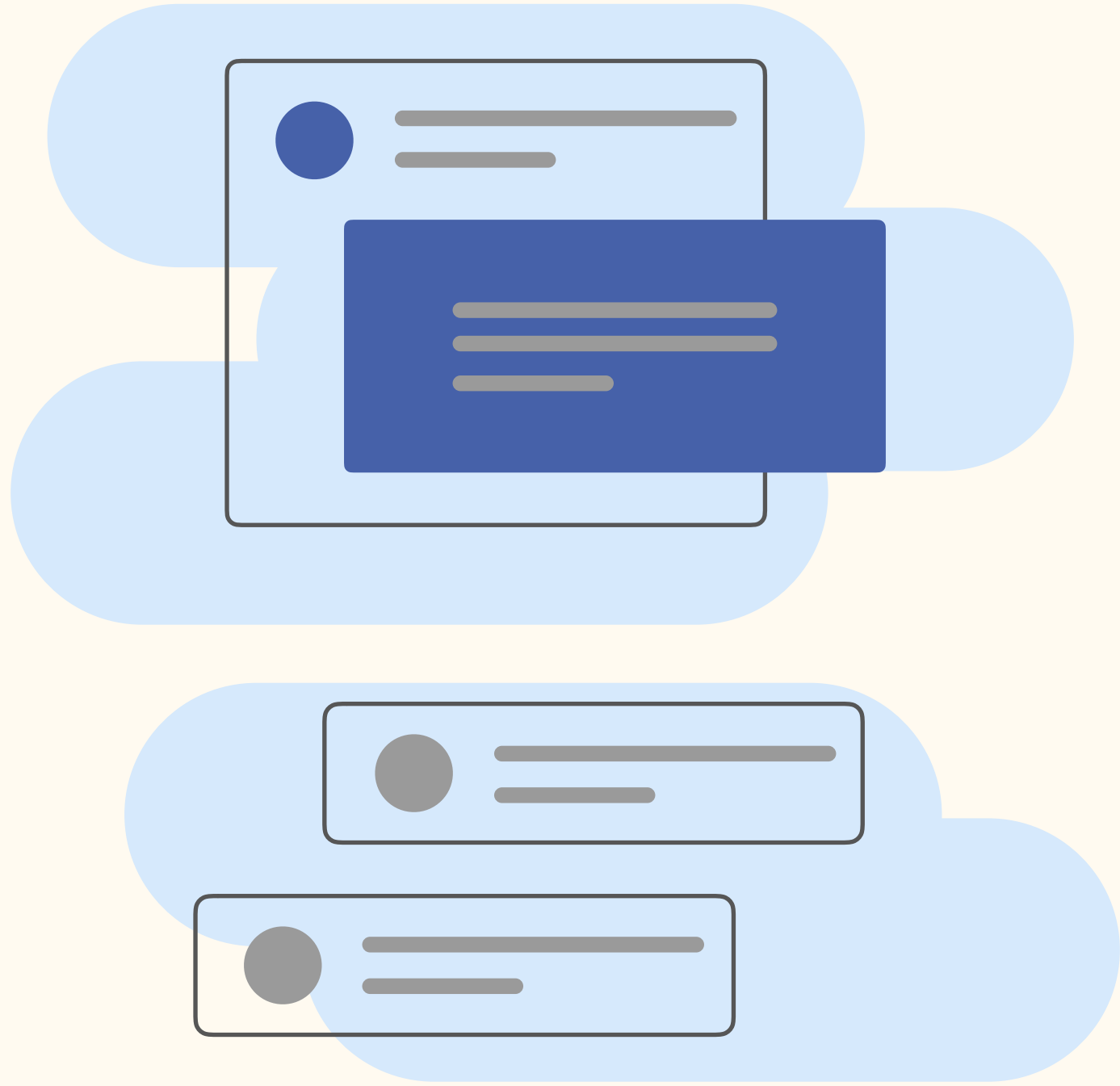
I2P for Mac

Latest version: 0.9.50

⬇ Download I2P

Java is required run I2P

| select alternate mirror | verify signature |

What is this?

```
SHA256:
34902d2a7e678fda9261d489ab31566
```

What is this?

Windows   **Mac**   **Linux**   **Android**   **Docker**

Basic Steps for Installation

Once you've got I2P downloaded, getting I2P installed and running will consist of up to three steps

1 ## Download Java

I2P needs Java to run for Windows, Mac, and Linux.

Download Java

2 ## Installation Guide

Step-by-step installation guides include setting up Java, installing I2P and using the I2P set-up wizard.

Instructions

3 ## Browser Configuration

Configure your browser settings to be compatible with the I2P network.

Configuration

Directions for terminal and command line (headless) install.

Version 2C

I2P for Mac

Latest version: 0.9.50

⬇ Download I2P

Java is required run I2P

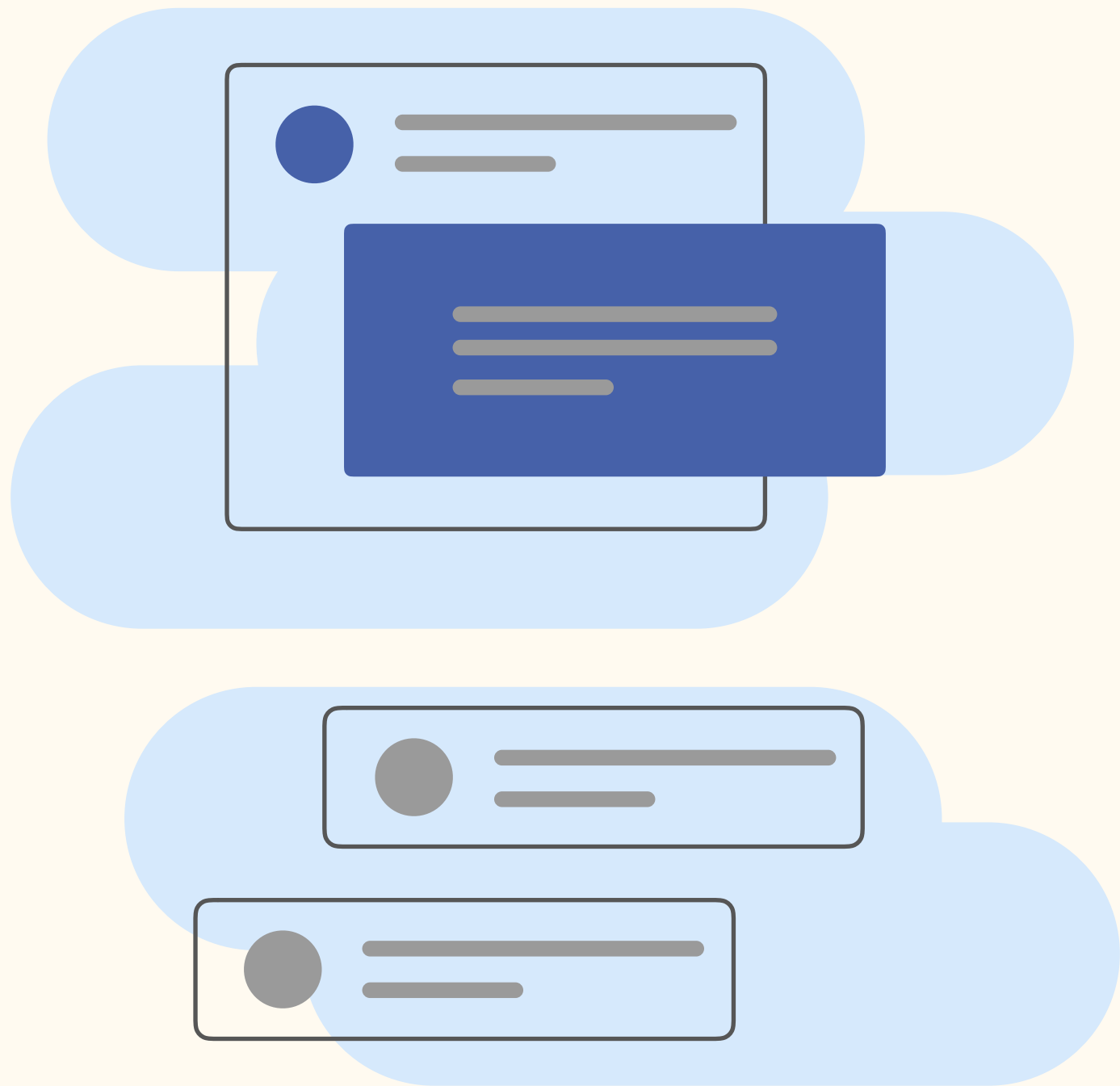select alternate mirror | verify signature

What is this?

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What is this?

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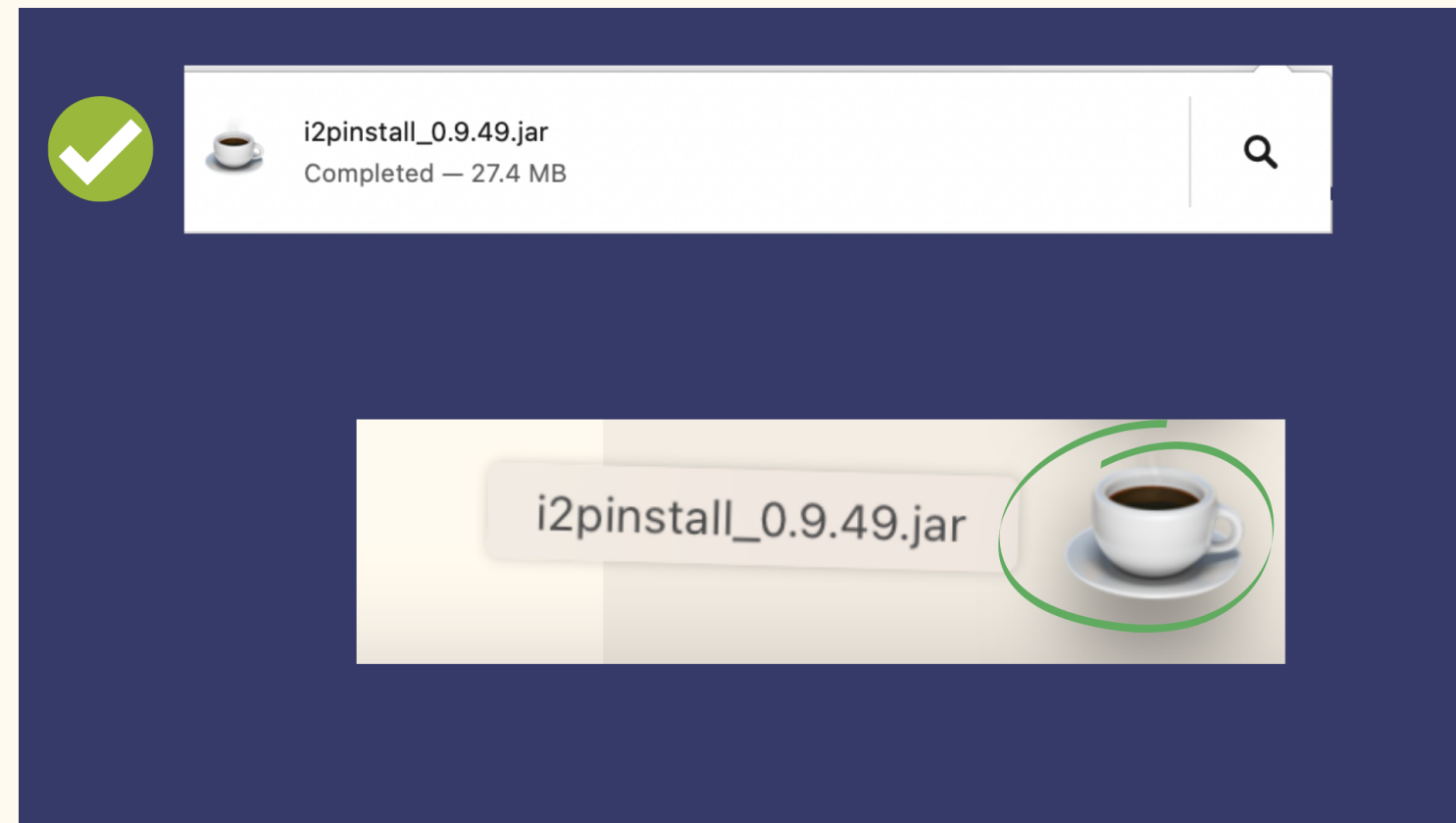Directions for terminal and command line (headless) install.

I2P

Installation Instructions for Mac OS

I2P Installation

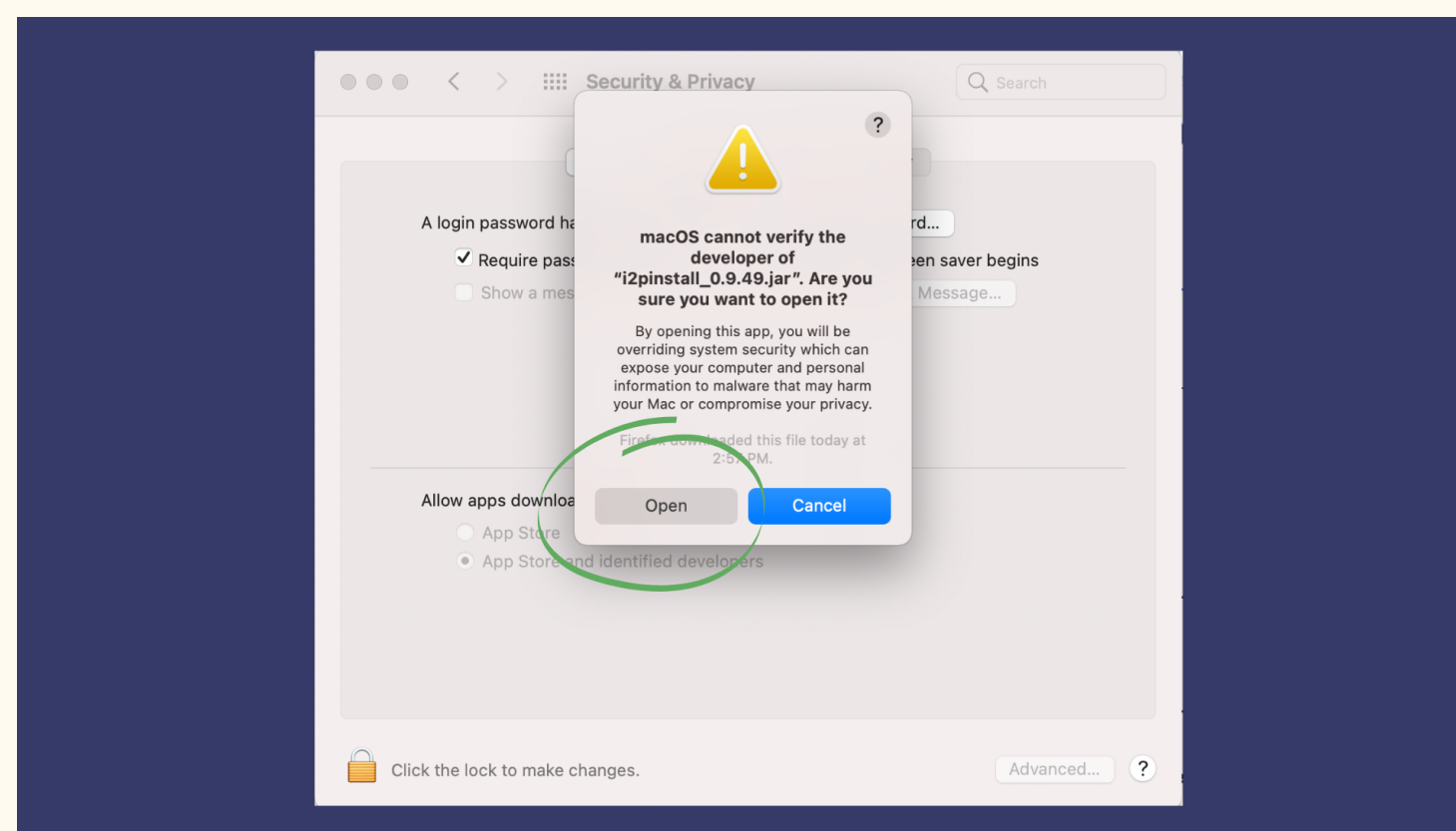**1** Download and install Java if you have not already. Step by step installation instructions for Java can be found here.

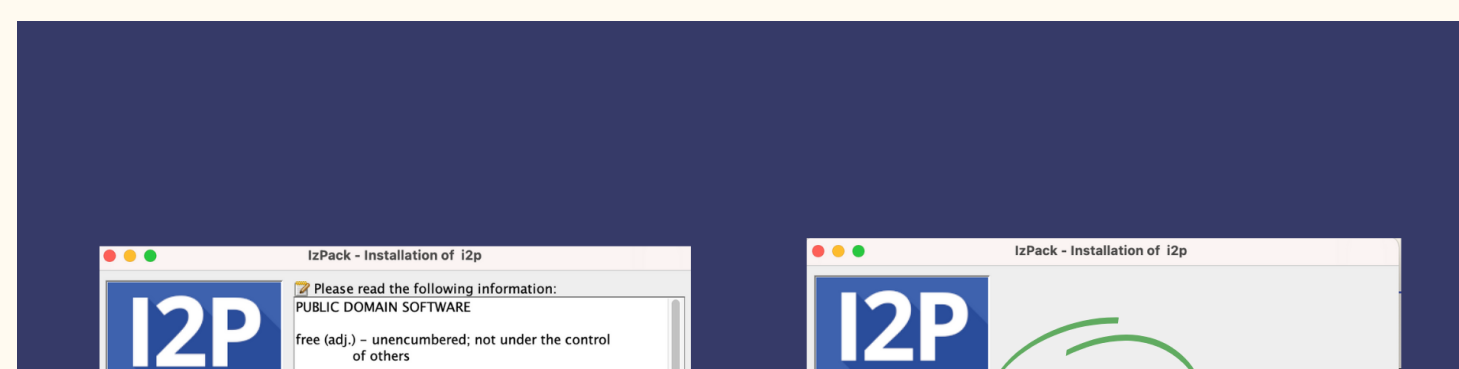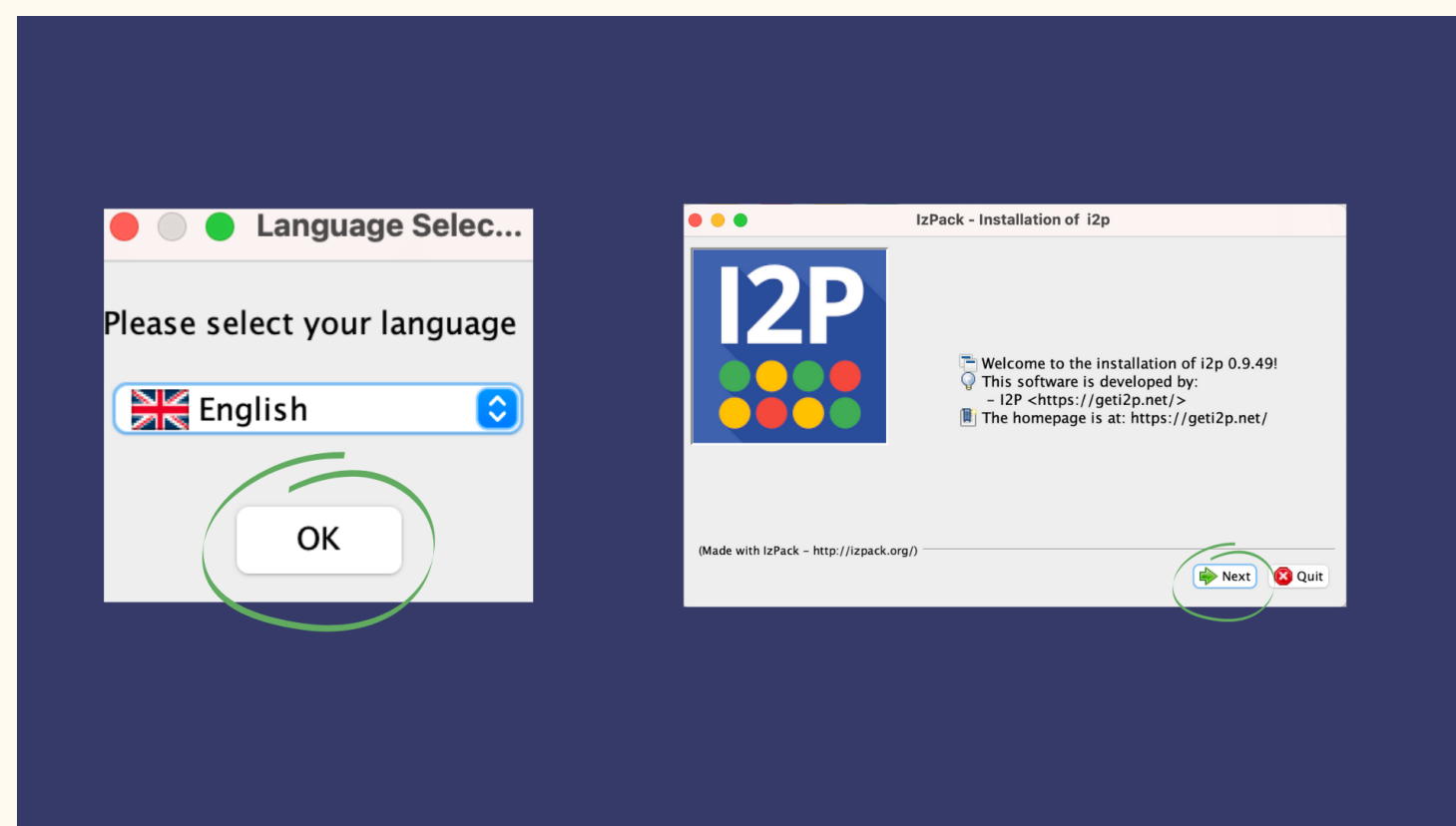**2** Open the .jar file. Notice the coffee cup icon, which means it can be opened since Java is installed.

3 Mac will ask you to allow permissions to open the file.
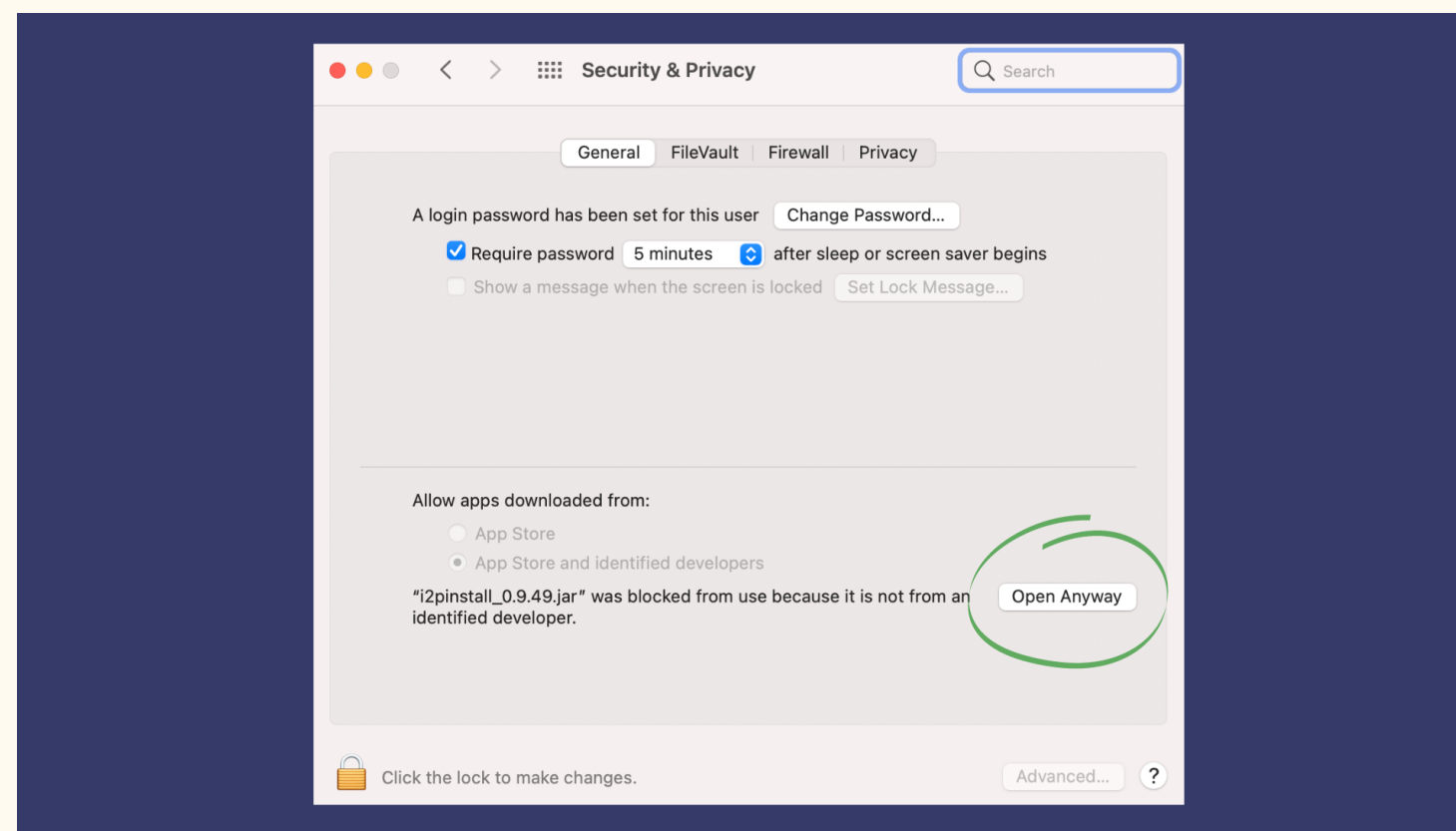
Might seem scary, add tool tip
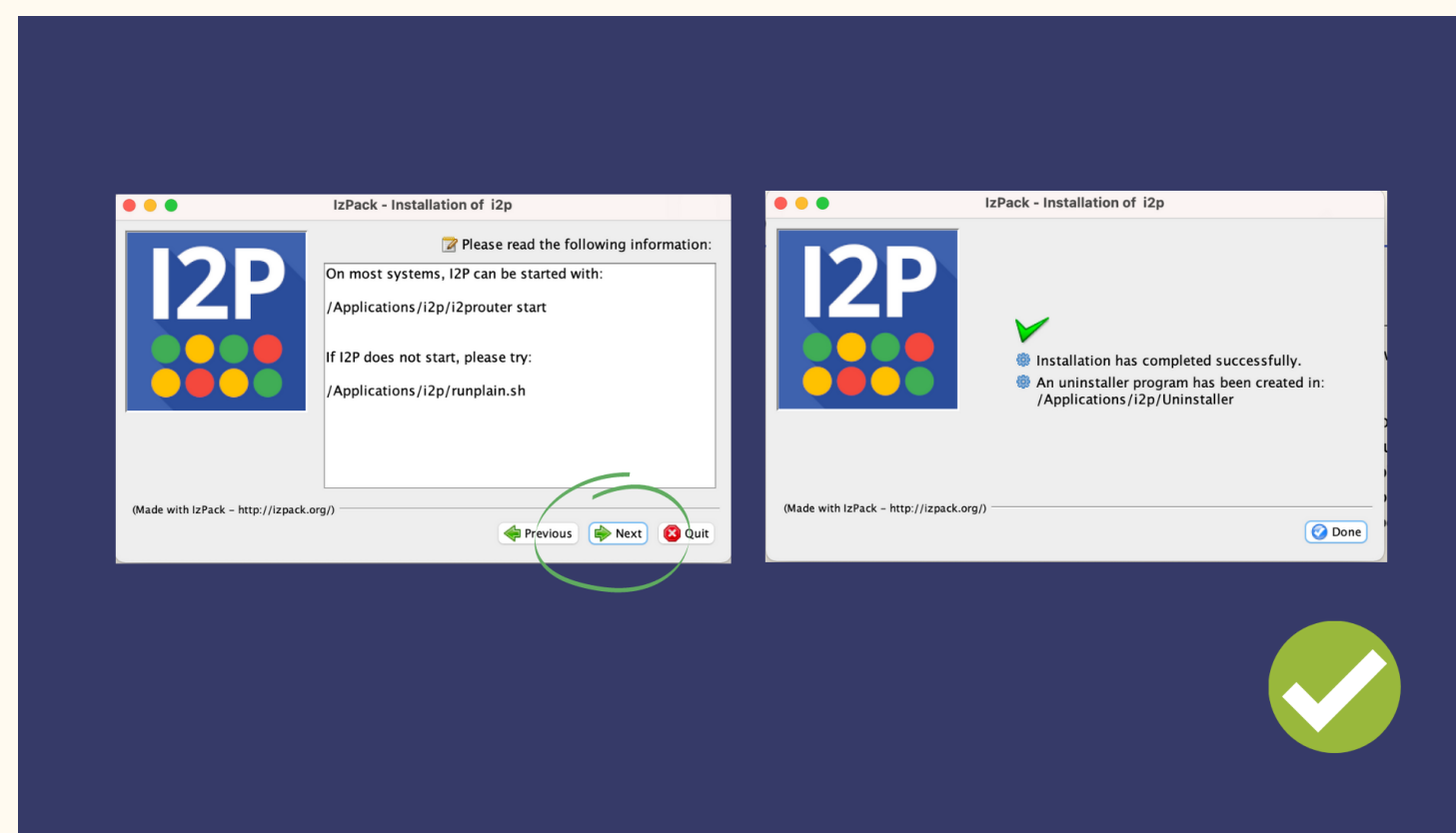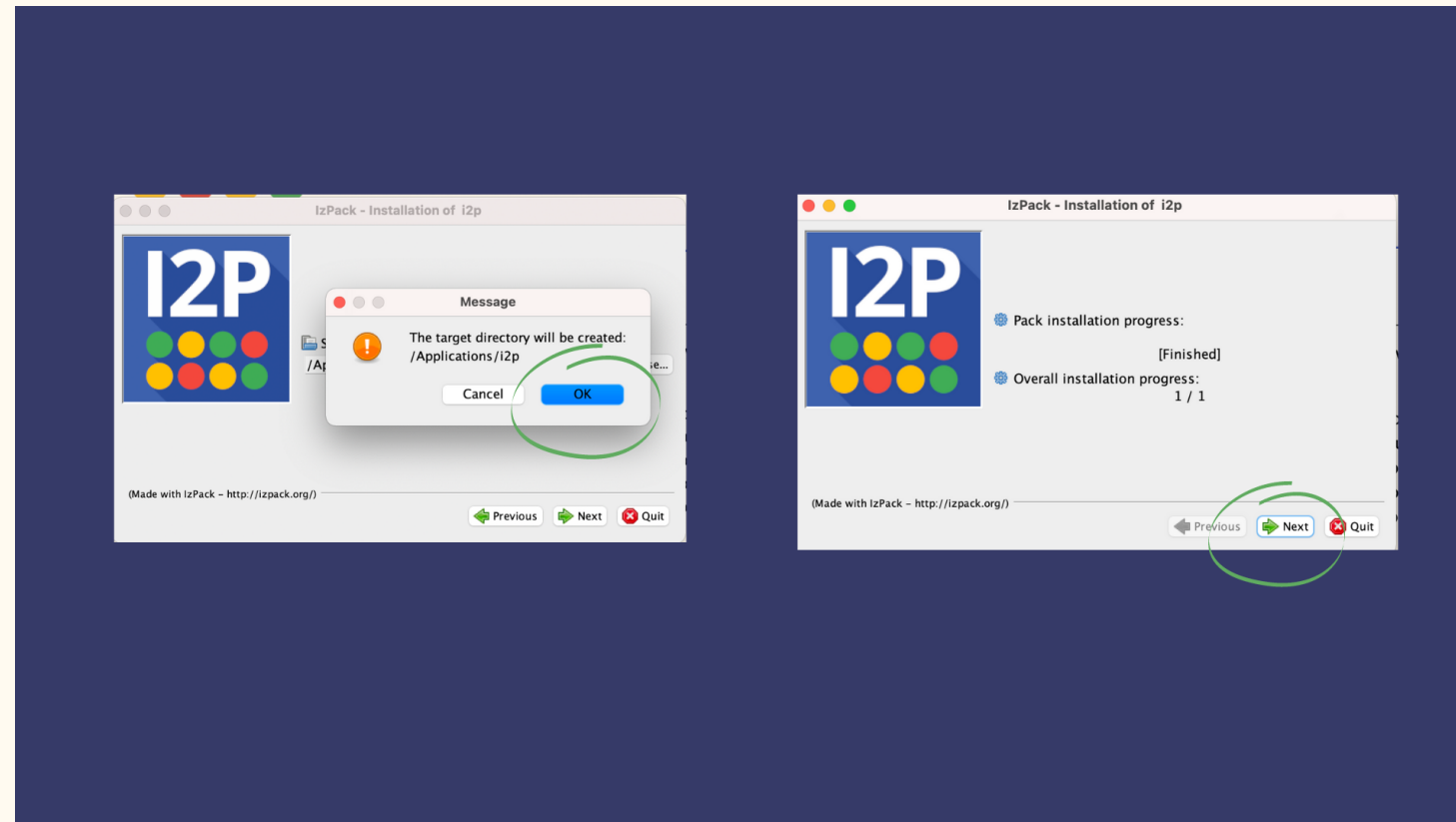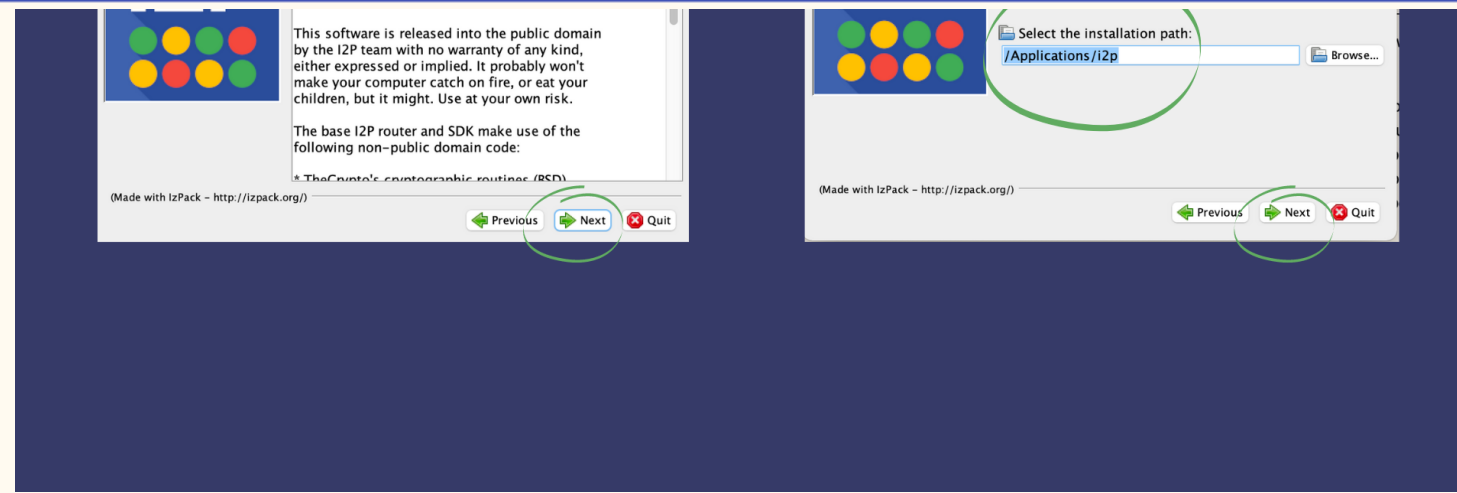

4 Follow the steps for installation.

![I2P logo with colored dots pattern]

Launching I2P

① Go to Finder, and open your Applications to locate the I2P folder.
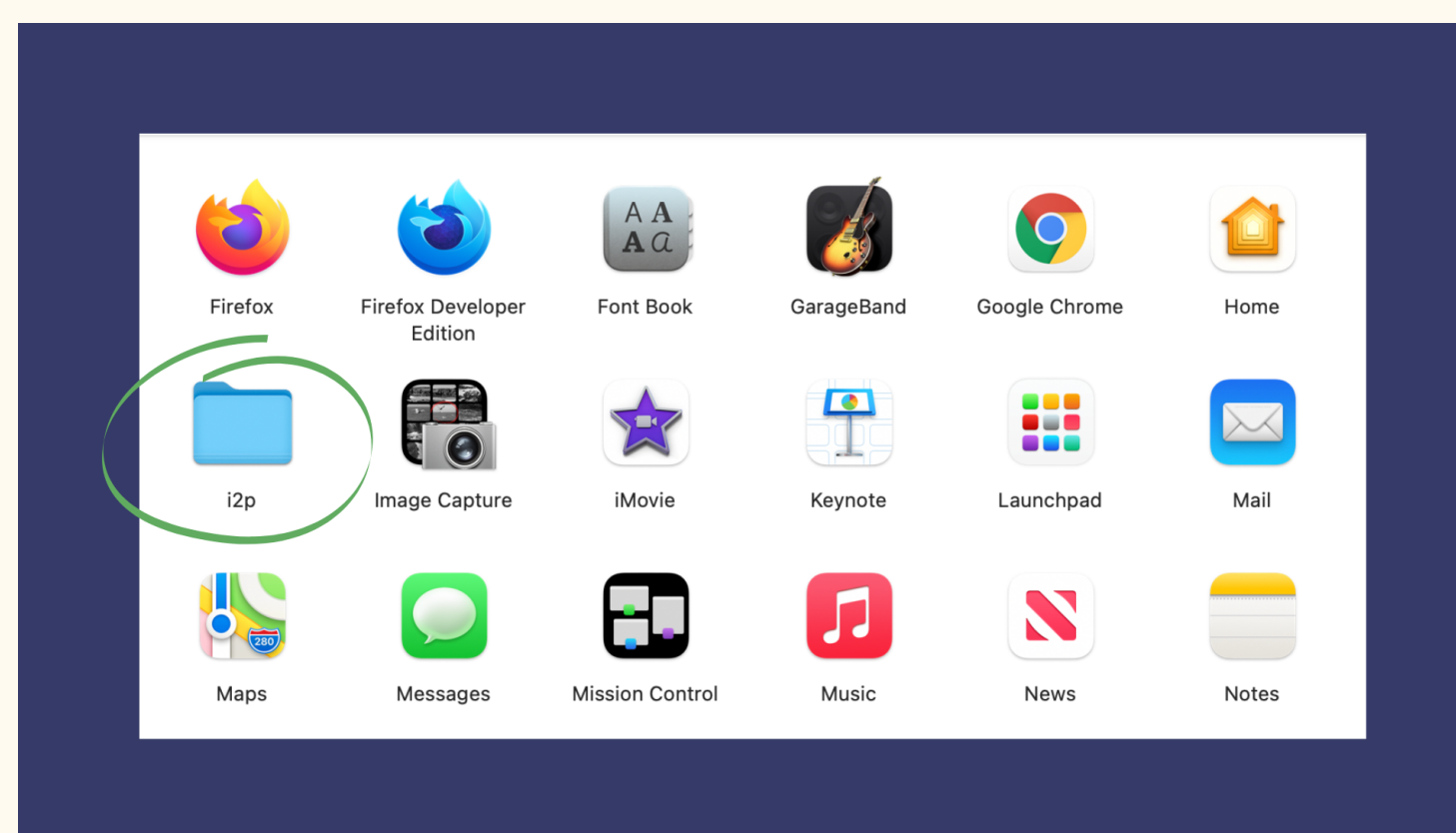
② Locate Start I2P Router.
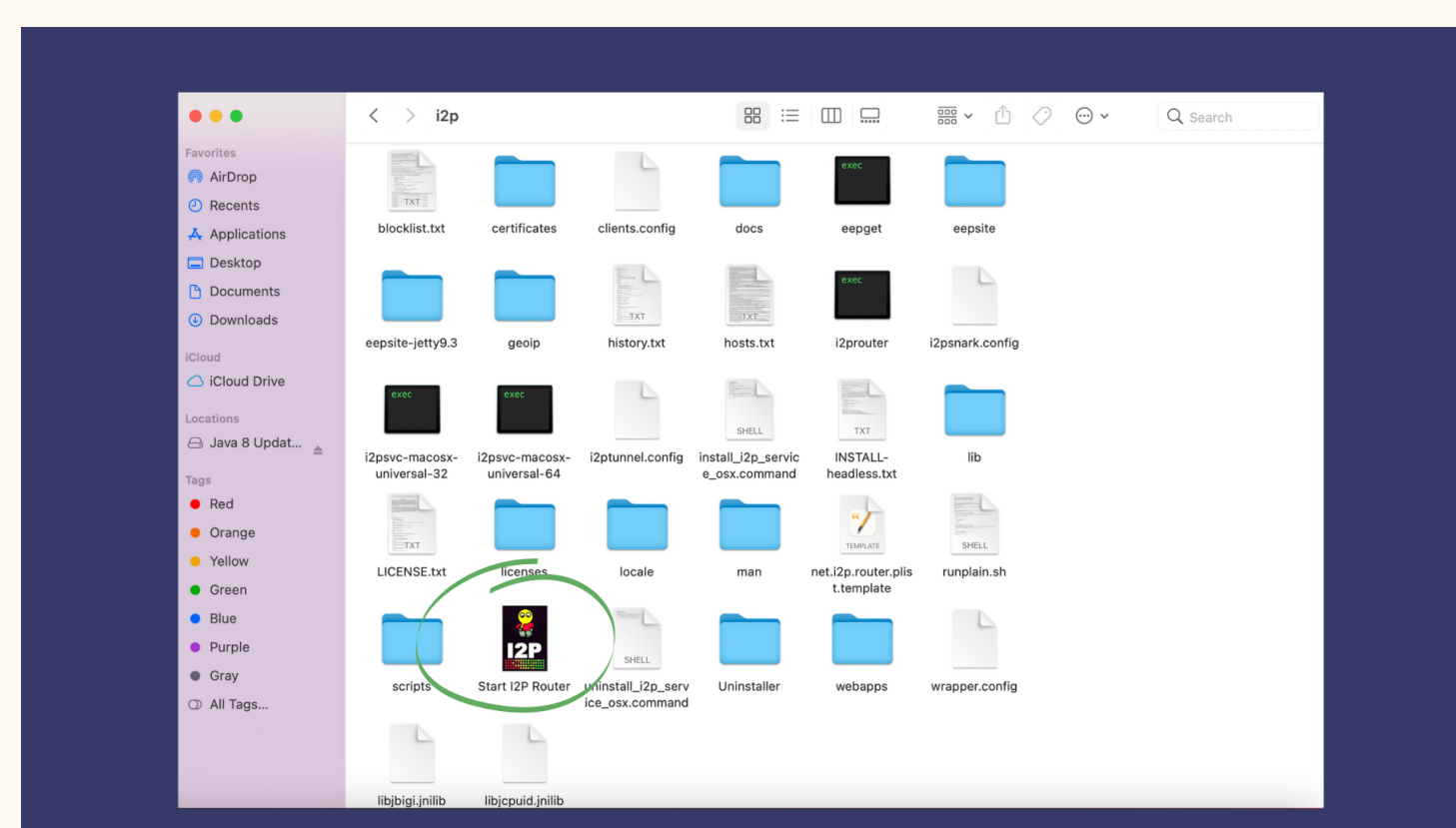
② Drag the icon into your dock.
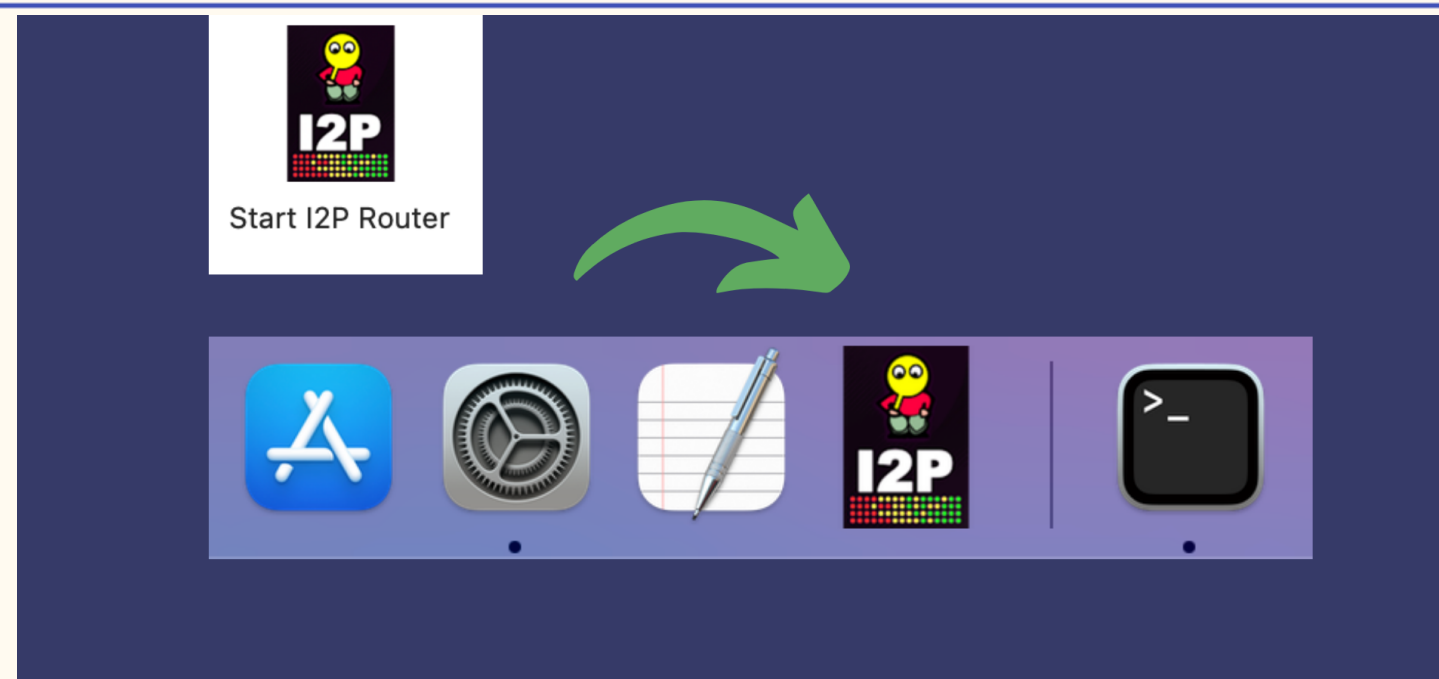
Wizard Walk-through

1 The wizard was created for a few reasons. One, to choose your router console language, the next to test and set your bandwidth for network participation, and finally, to allow your I2P network connection to get started so that you have some peers ready for you when it is done. Follow the prompts!

For the bandwidth settings, the software has good default sharing percentages in place, so no need to worry about picking the right amount. You can also adjust this later.
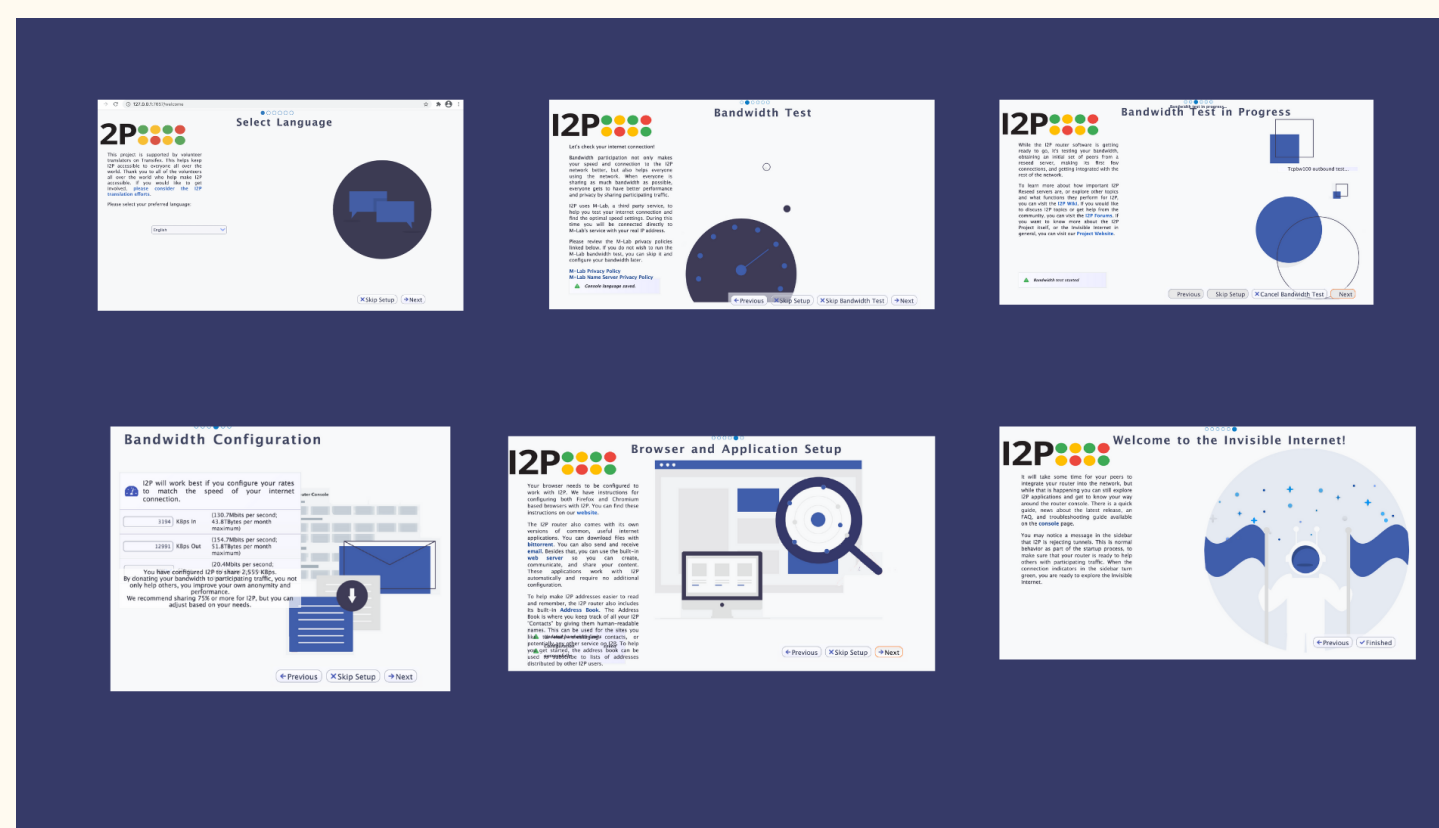
2 The router console will look like this.
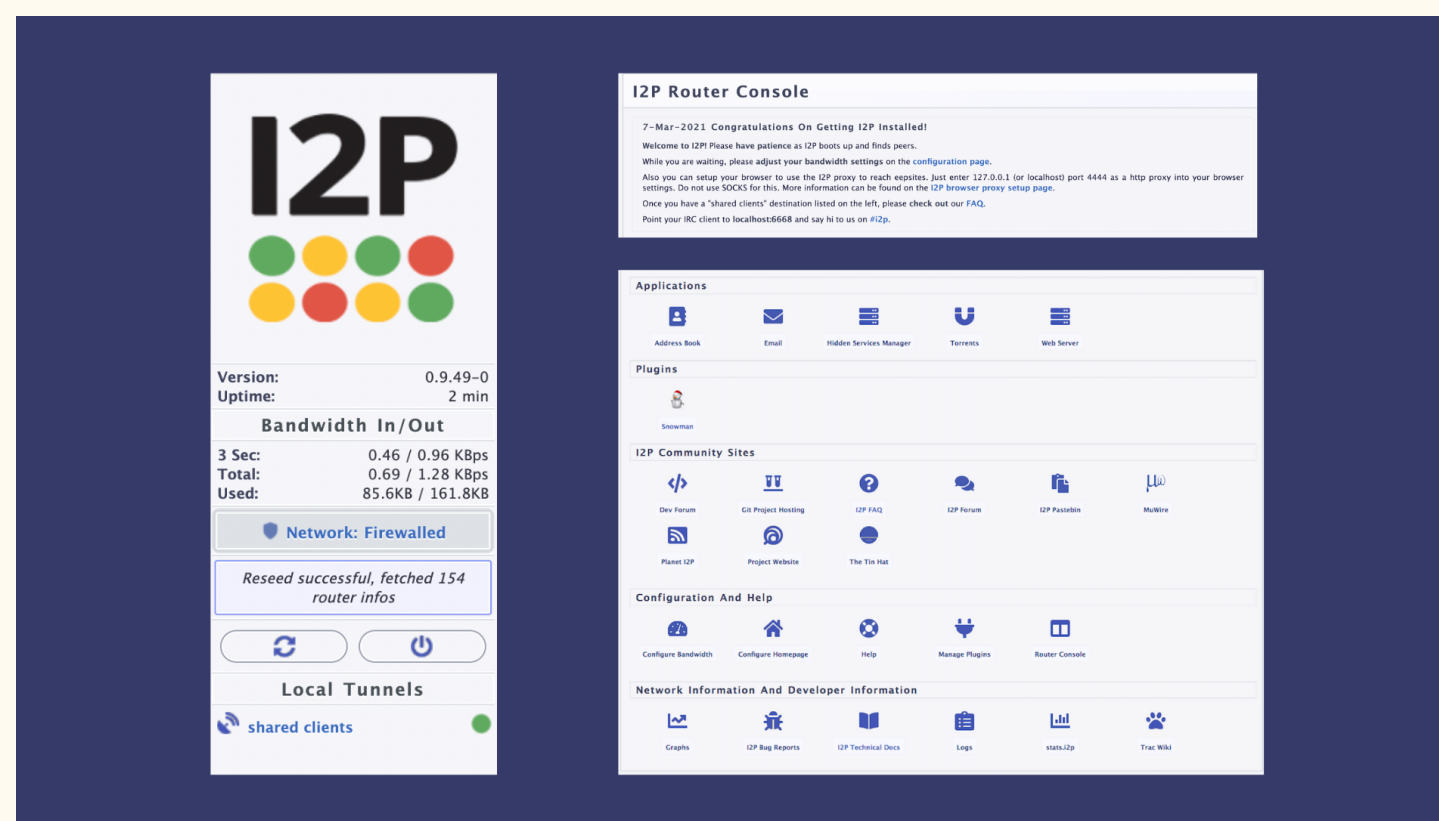
3 You've completed the installation process! You must configure your browser in order to use I2P. Choose your browser below for instructions.

- Firefox
- Chrome
- Android
- Internet Explorer 8

Configuring Your I2P Network Connections

Browser Configuration for Firefox 57 and above

1 From the Menu button in the top right, select *Preferences*. Scroll down until you see the *Network Proxy* section, as shown in the screenshot below. Click on *Settings*

Network Settings

Configure how Firefox connects to the internet. Learn more   Settings...

2 In the *Connection Settings* pop-up, select *Manual proxy configuration*. Set both the HTTP and SSL Proxy to address `127.0.0.1` with port `4444` as shown in the following screenshot.

Connection Settings   ×

Configure Proxies to Access the Internet

○ No proxy
○ Auto-detect proxy settings for this network
○ Use system proxy settings
● Manual proxy configuration
    HTTP Proxy   127.0.0.1   Port   4444
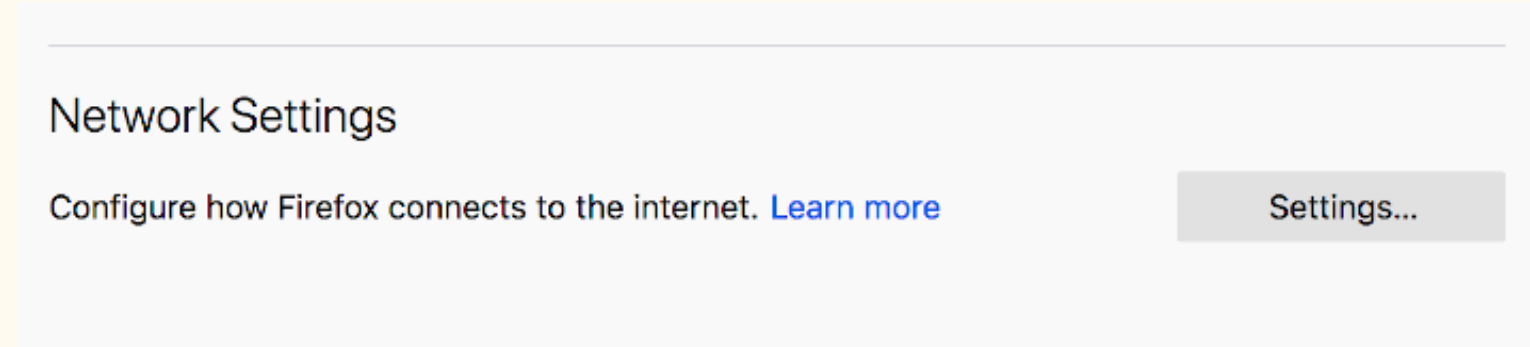   □ Use this proxy server for all protocols
    SSL Proxy   127.0.0.1   Port   4444
    FTP Proxy   Port   0
    SOCKS Host   Port   0
          ○ SOCKS v4   ● SOCKS v5
No Proxy for
    localhost, 127.0.0.1

Example: .mozilla.org, .net.nz, 192.168.1.0/24
○ Automatic proxy configuration URL
          Reload

□ Do not prompt for authentication if password is saved
□ Proxy DNS when using SOCKS v5

Help   Cancel   OK

3 Finally, go to the address *about:config* and find the property media.peerConnection.ice.proxy_only. Ensure that this setting is True.

🔍 peerConnection.ice.proxy|

media.peerconnection.ice.proxy_only   true   ⇄ ↩
media.peerconnection.ice.proxy_only_if_behind_proxy   false   ⇄

peerConnection.ice.proxy   ● Boolean ○ Number ○ String   +

4 **You've completed the configuration and all required steps for I2P Installation!**

What's Next?
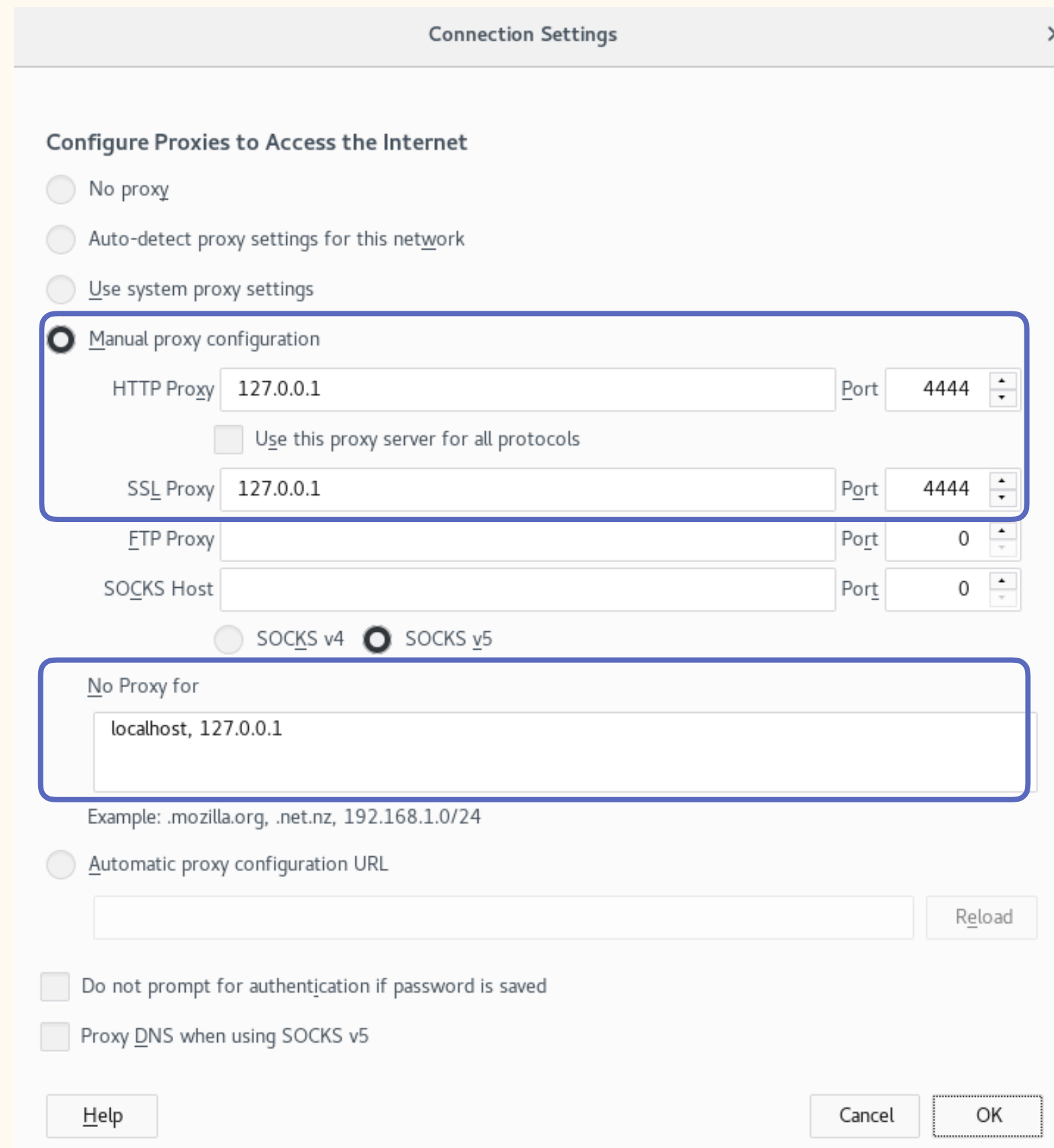How to Use I2P
Resources
Tutorials

Configuring Your I2P Network Connections
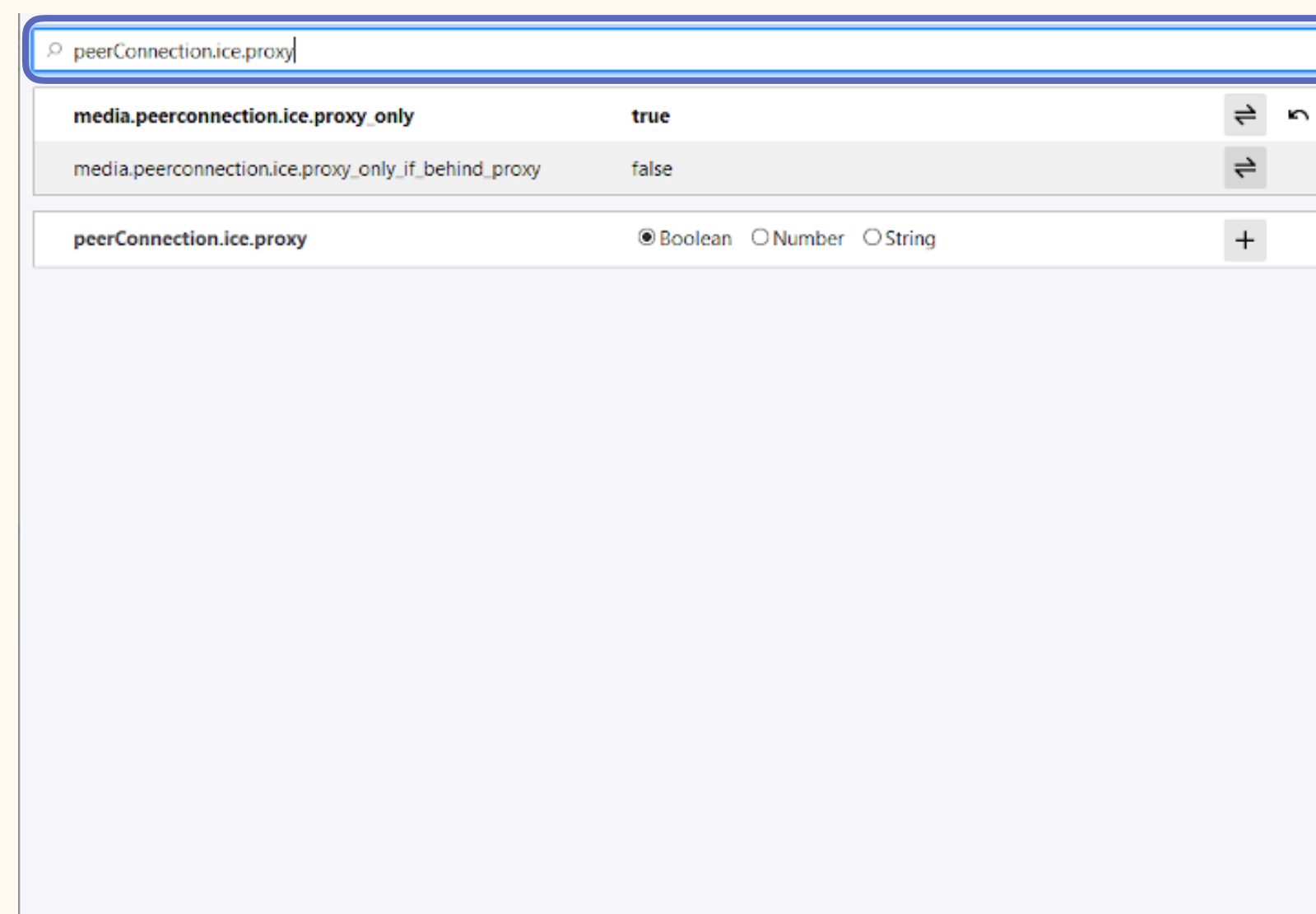
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☐ Use this proxy server for all protocols

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FTP Proxy   Port   0

SOCKS Host   Port   0

○ SOCKS v4   ● SOCKS v5

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media.peerconnection.ice.proxy_only   true   ⇄   ↺

media.peerconnection.ice.proxy_only_if_behind_proxy   false   ⇄

peerConnection.ice.proxy   ● Boolean   ○ Number   ○ String   +

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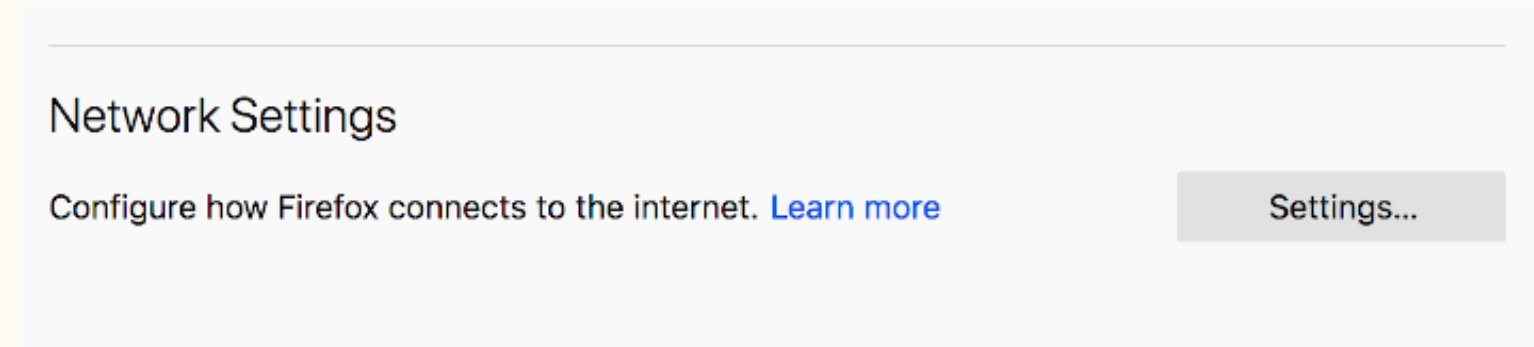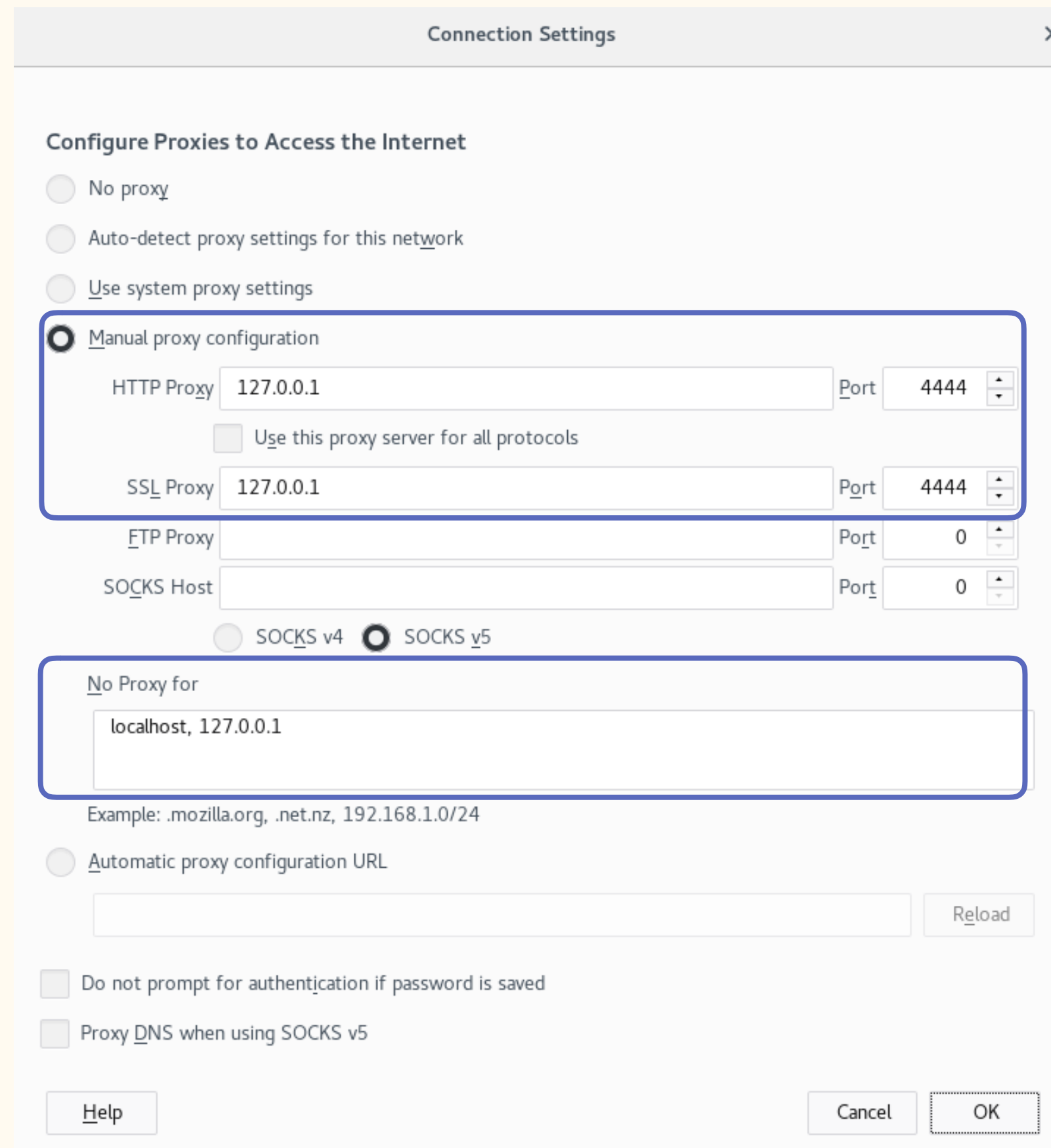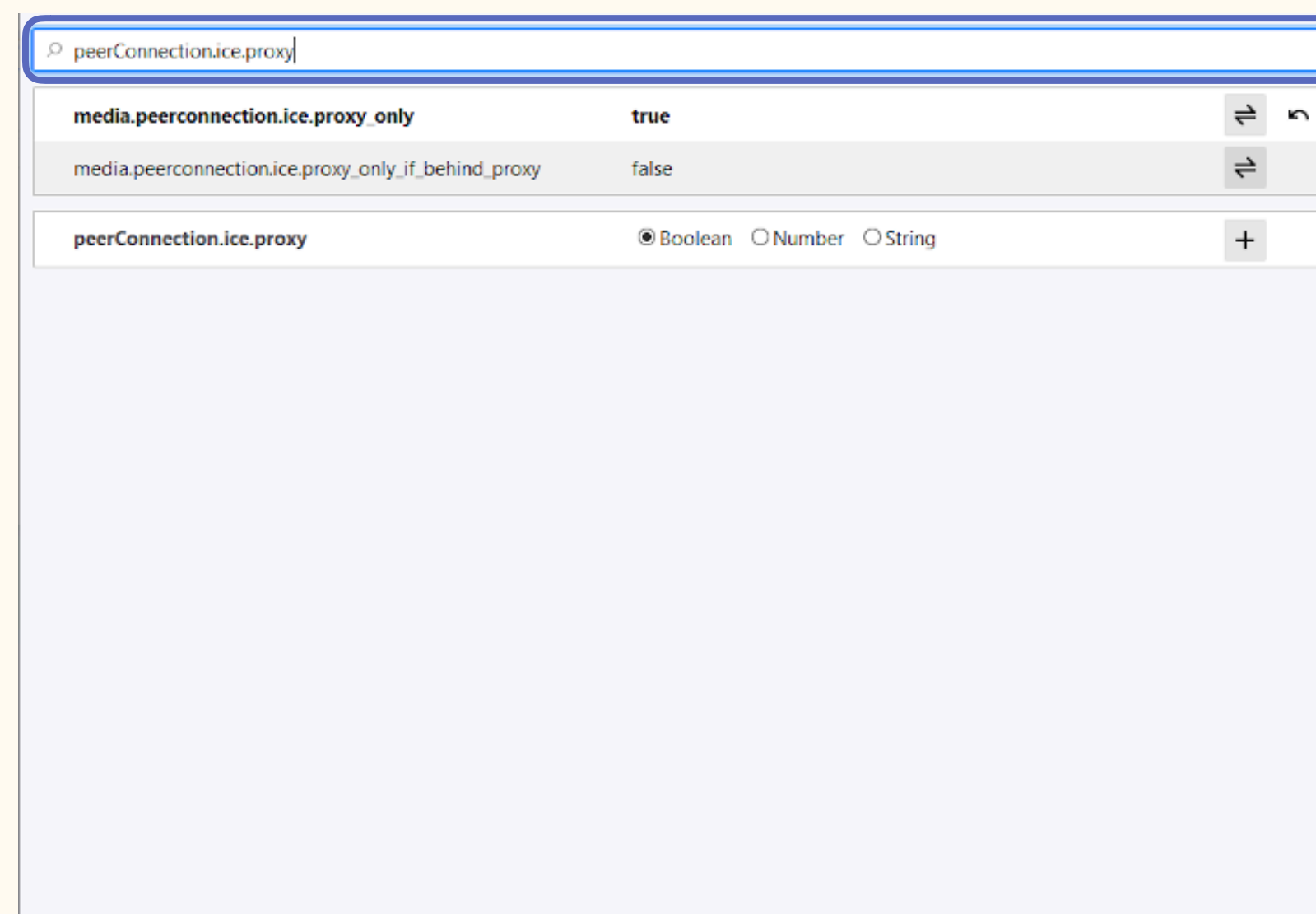
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