

You are a new user that wants to download I2P software. Go through the process. Think out loud. Assume you use Mac and Firefox.

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 I2P 0.9.50](#)

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 with 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...](#)

Getting Started with 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.

Basic Steps

1

Download

1.1 If you are using Mac, Windows, and Linux, I2P needs Java to run. Download that [here](#).

1.2 Download I2P. The download can be found [here](#).

2

Installation

Step-by-step installation guides based on your operation system can be found [here](#).

These include setting up Java, installing I2P and using the I2P set up wizard to check your bandwidth settings, which is optional.

3

Configuration

You will need to configure your browser. You and also learn about outproxies, NAT, bandwidth, add-ons, and more.

Configure [here](#).

4

Exploration

Learn how to use I2P [here](#).

Explore use cases. Learn how to build an I2P website and applications.

- Windows
- Mac OS X
- GNU/Linux / BSD / Solaris
- Debian / Ubuntu
- Android
- Source package
- Automatic updates
- Manual updates



I2P for Mac OS X

Latest version: 0.9.50.jar

[Download](#)

[Installation Instructions](#)

You will need [Java](#) to run I2P

[select alternate mirror sig](#)

[What is this?](#)

SHA256:

34902d2a7e678fda9261d489ab31566

[What is this?](#)



I2P for Android

Latest version: 0.9.50.jar

[Outside I2P](#)

[Google Play](#)

[F-Droid](#)

[Installation Instructions](#)

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.

[select alternate mirror sig](#)

[What is this?](#)

SHA256:

34902d2a7e678fda9261d489ab31566

[What is this?](#)

Updates from earlier releases:

Both automatic and manual upgrades are available for the release.



If you are running 0.7.5 or later, your router should detect the new release. To upgrade simply click the 'Download Update' button on your router console when it appears.

Since 0.9.23, some releases are signed by str4d, whose signing key has been in the router since 0.9.9. Routers older than 0.9.9 will fail to verify update files signed by str4d, and will need to be manually updated using the process below.



Download I2P for Manual updates

[i2pupdate_0.9.50.zip](#)

[select alternate mirror](#)

Your download will begin shortly. If it doesn't start within 5 seconds, click [here](#).

When your download is complete, choose the instructions for your operating system and follow the steps in the Installation Instructions. You will also configure your browser and take additional steps in the [Configuration](#) page after you have completed the installation.

Choose the installation instructions for your operating system:

Mac OS
Instructions

Linux
Instructions

Docker
Instructions

Windows
Instructions

Android
Instructions

Debian and Ubuntu
Instructions

Mac, Windows, and Linux:

Java is required to 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.

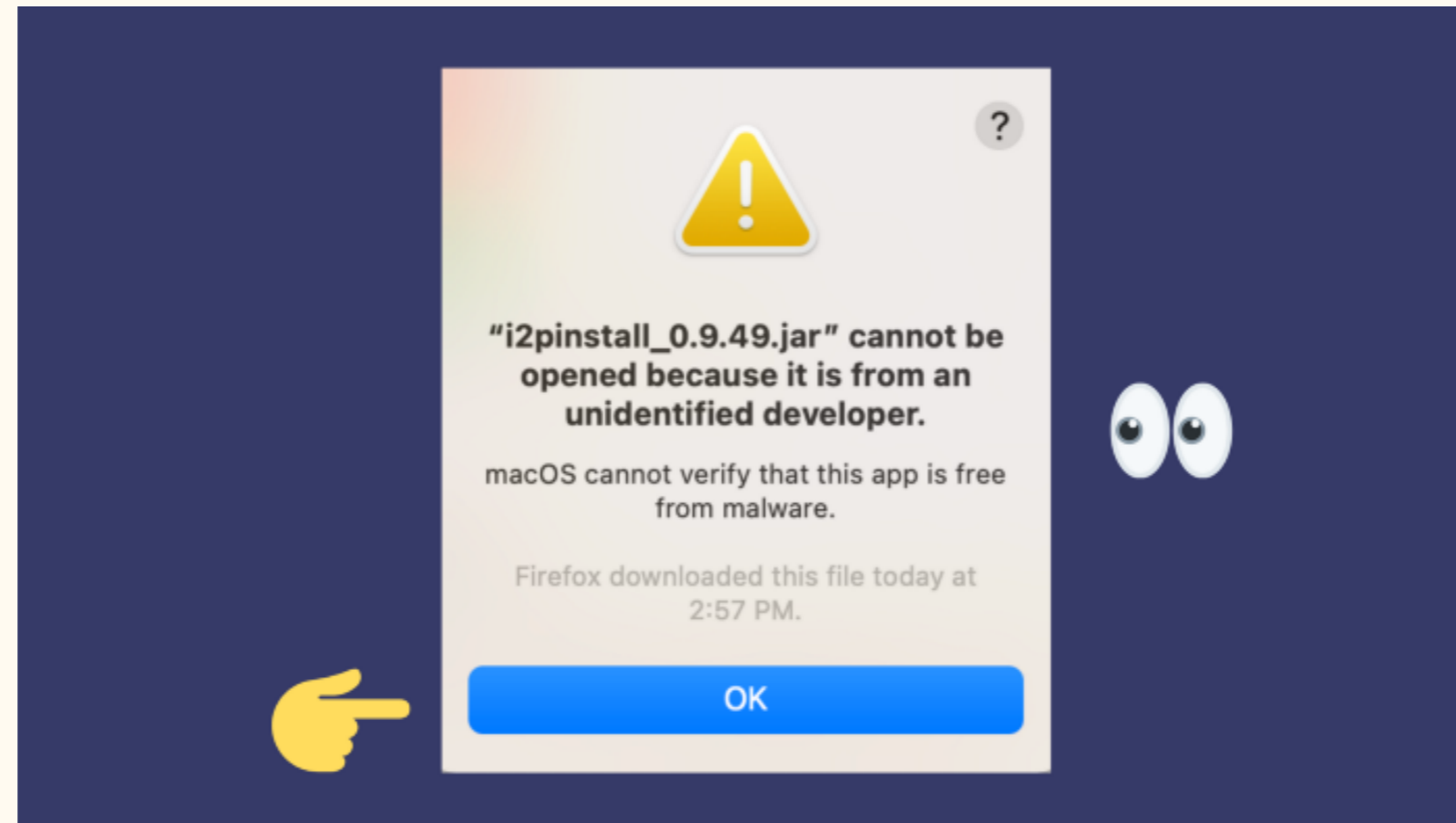
- Download Java
- I2P Installation
- Starting I2P
- Install Wizard
- Conclusion
- Configuration

Installation Instructions for Mac OS

Download Java

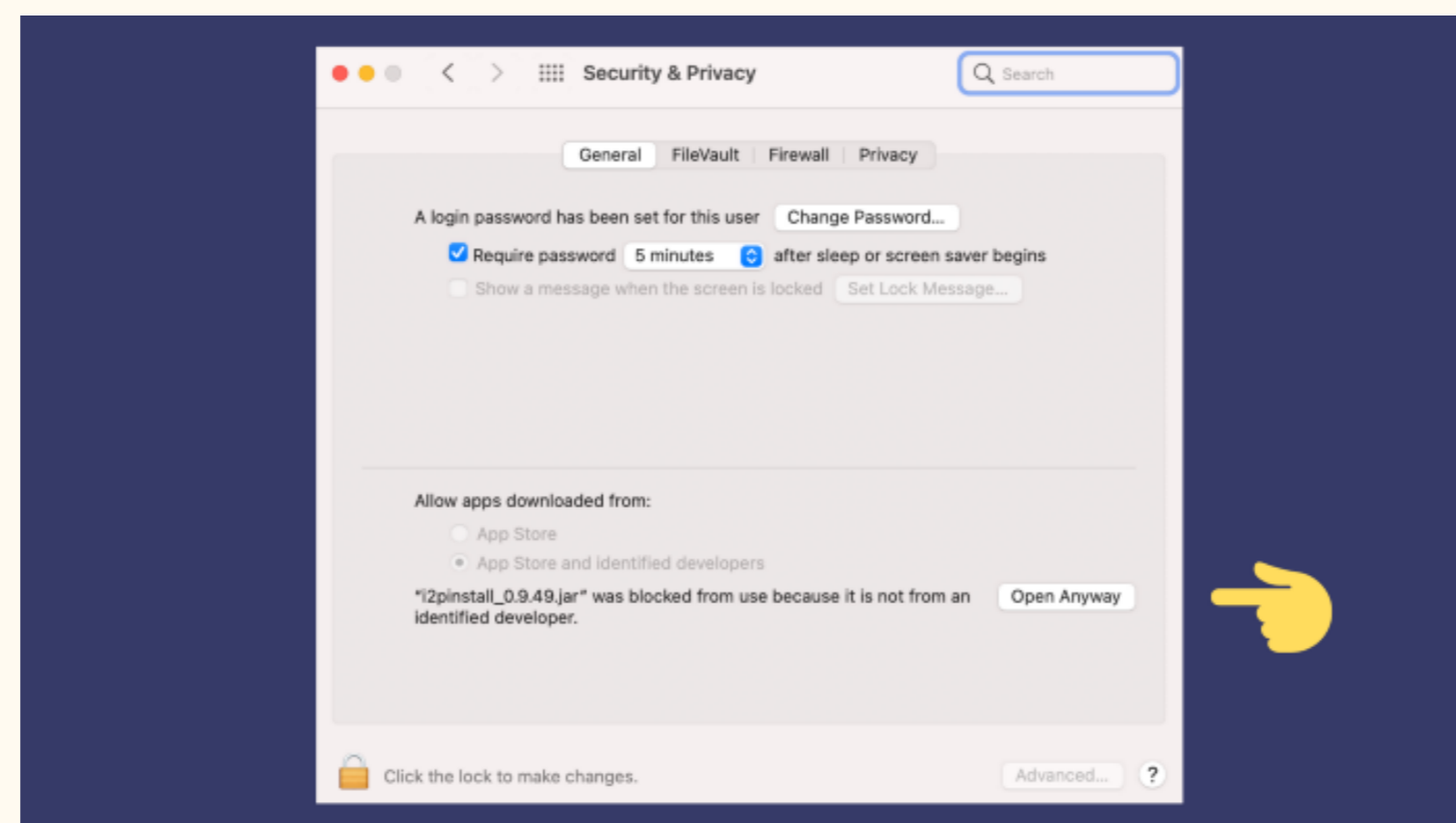
Download [Java](#) if you have not already. Otherwise, jump to [I2P Installation](#).

Since the I2P software is not from the app store, Apple lets us know that. The message warns us that the developer is not known, but we can go ahead and click okay. The I2P software is open source, and we can see who maintains it and active development. Once we get comfortable, we might even want to help them out!

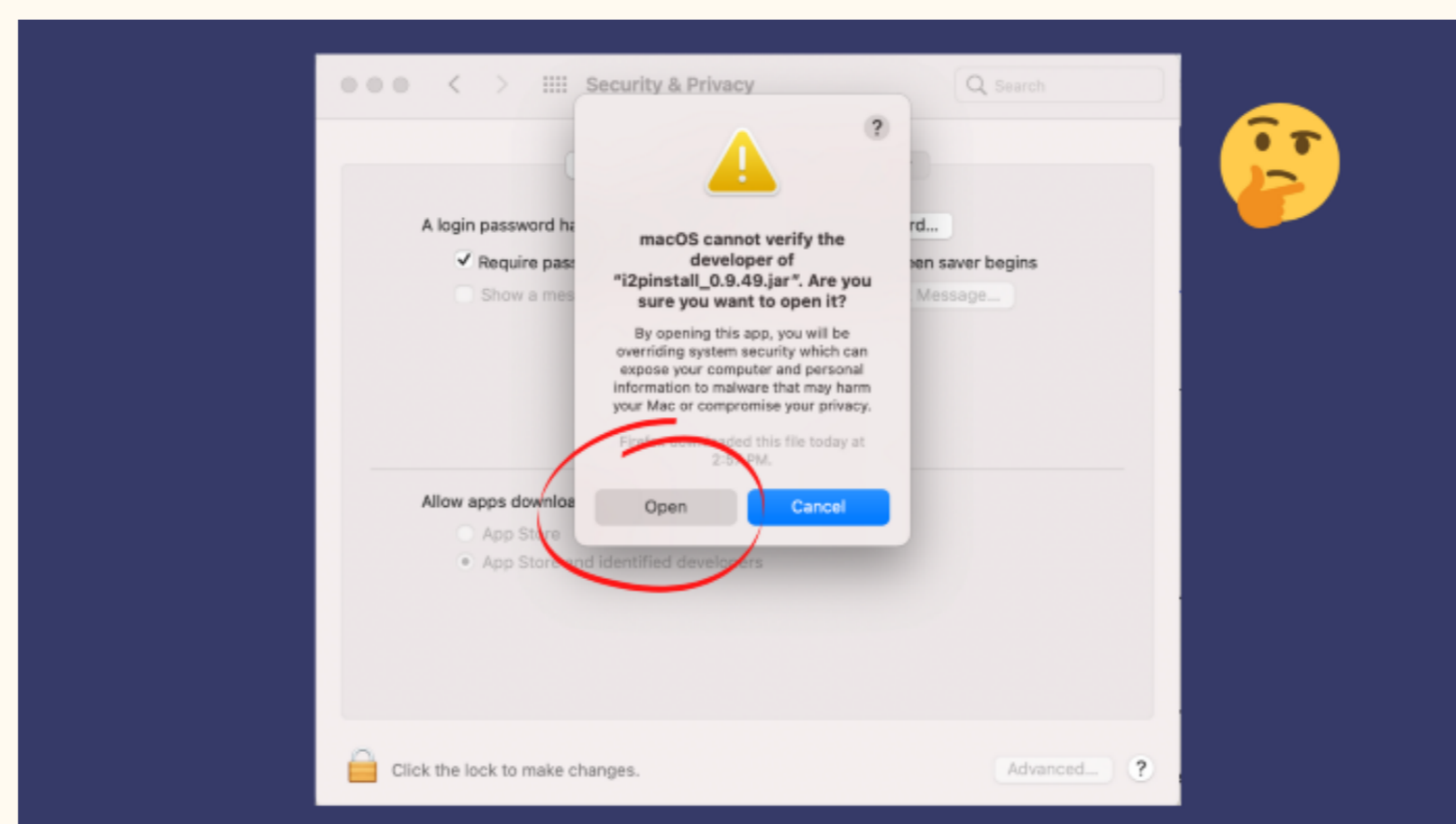


To install the software on our computer, we need to confirm that we are making an informed choice to open it.

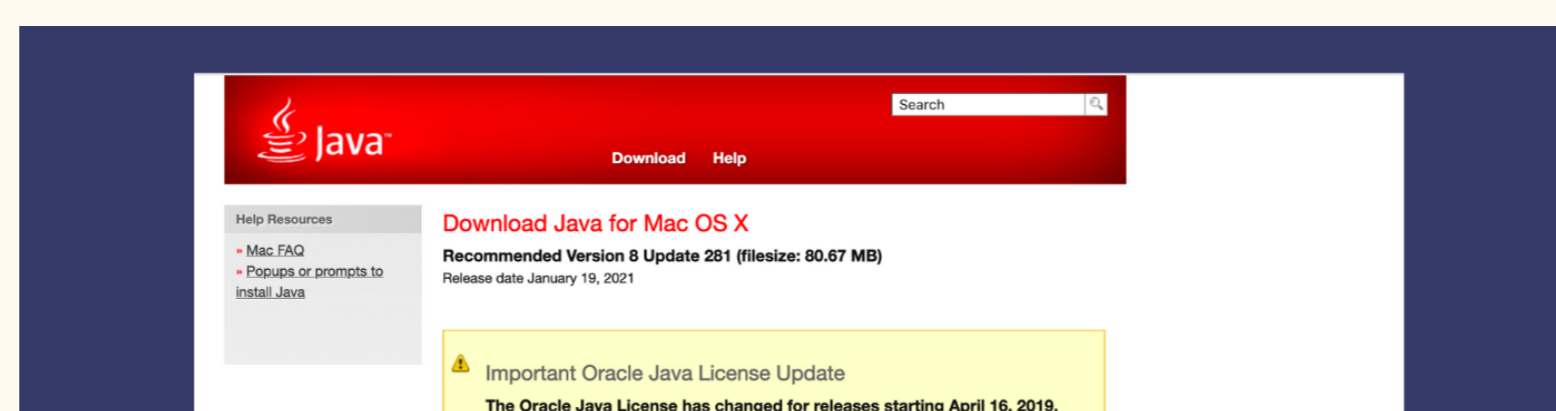
To do this, go to your Apple icon, then to System Preferences, and then to Security and Privacy. You will end up here where a message that your I2P install process has been blocked. Click on “Open Anyway.”



We appreciate the abundance of caution, and the message letting us know what our consequences are. The message options here will default to “Cancel,” but we will choose “Open” instead.



Whups! We went through all of that and it cannot be completed! That’s right — we need Java for I2P to work.



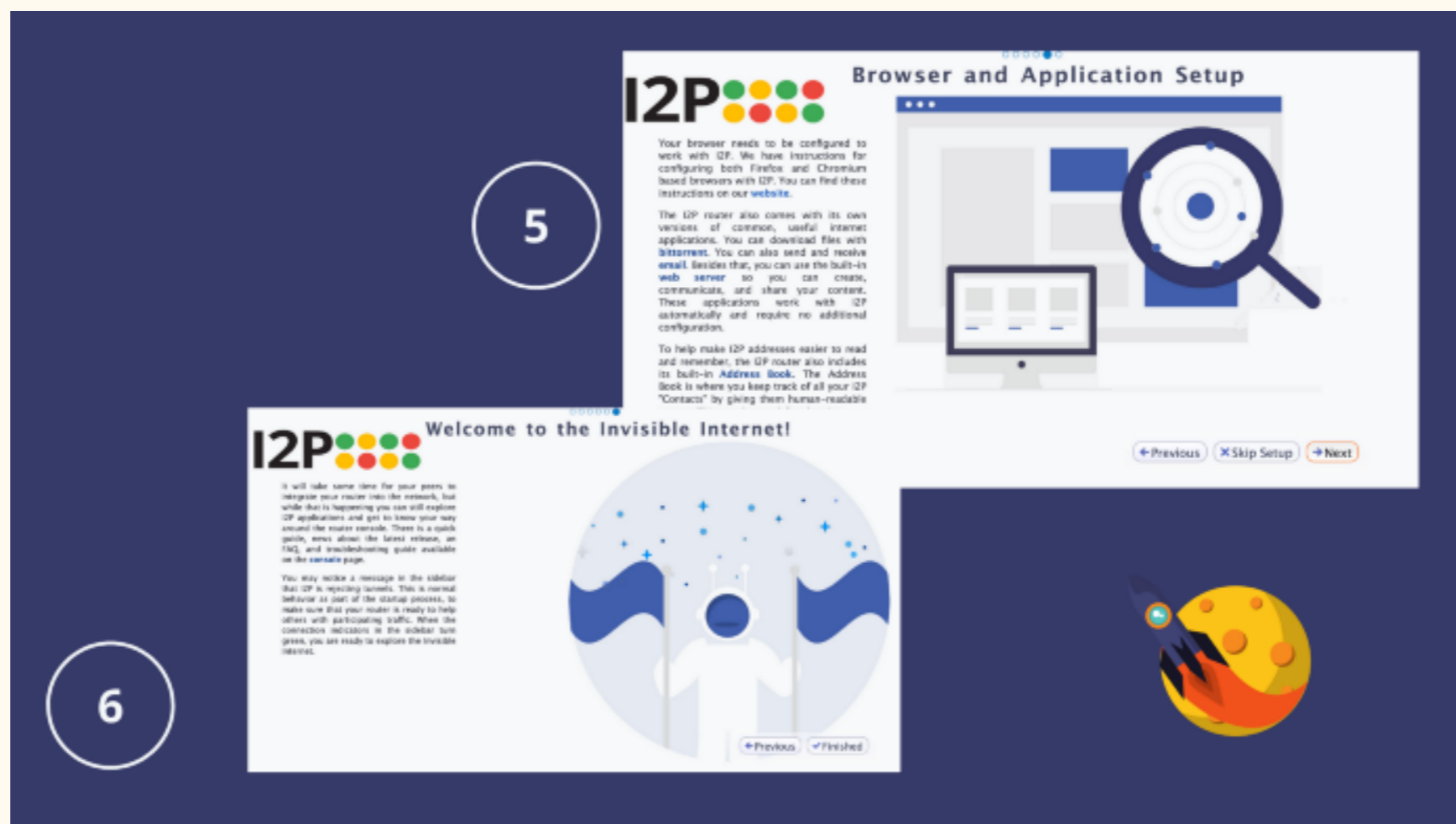
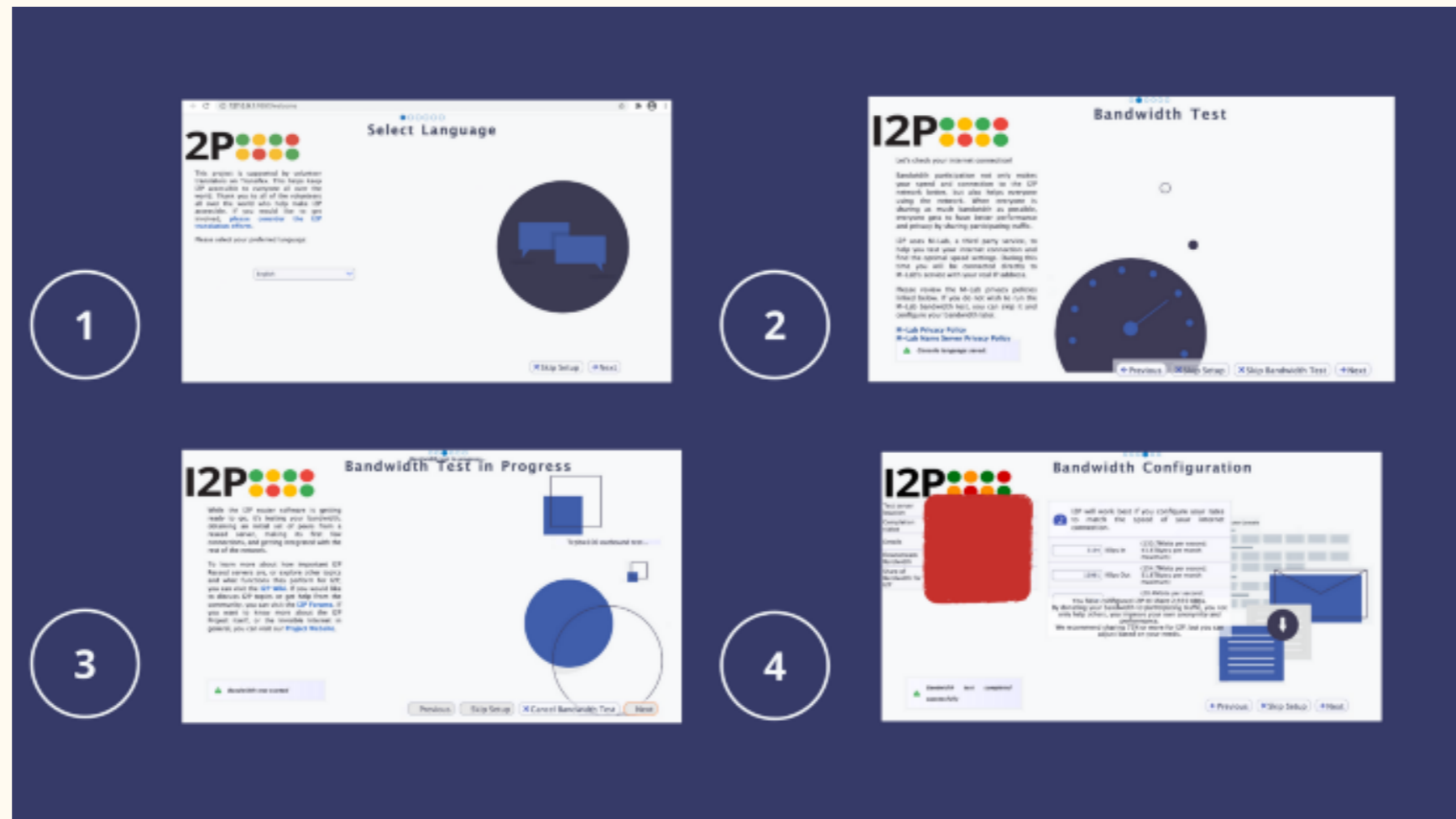
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Install Wizard

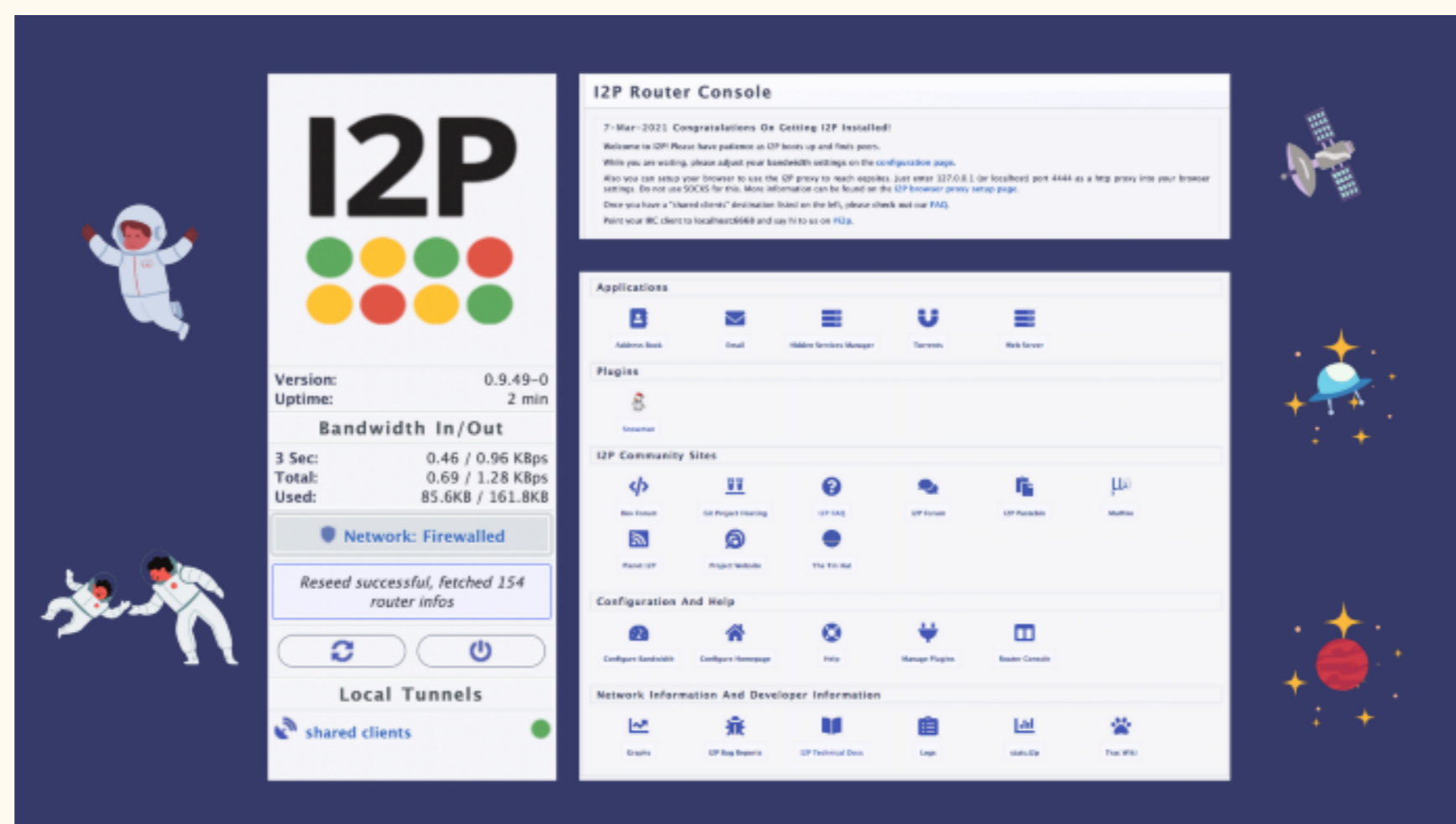
This was created for a few reasons. One, to choose your router console language, the next to test and set your bandwidth for network participation, and finally, to allow your I2P network connection to get started so that you have some peers ready for you when it is done.

We will 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.



Welcome to your I2P router console! The sidebar will keep you up to date with information about your network connections and health, and allows you to disconnect from the network. You will see a Welcome message and the options to use some everyday applications, search some community sites, do some configuration, and access other network information.



Conclusion

I2P has an installation workflow that will take more time than we may be used too. It may also introduce new or unfamiliar terminology and show us more about how things work, and security and consent messages and choices. We need to keep in mind that I2P has some things that it needs so that it can work that it cannot easily give to us in one package, so we must put it together ourselves with some guidance. Making this process easier is on the roadmap and actively being worked on by the team.

Next: Configure Your I2P Connections



Browser Configuration

[Firefox](#)
[Chrome](#)
[Android](#)
[Internet Explorer 8](#)
[Firefox Privacy Add-on](#)
[NAT and Bandwidth](#)
[Outproxy Terms of Service](#)
[How to Use I2P Software](#)

Configuring Your I2P Network Connections

Browser Configuration

You must configure your browser in order to use I2P. Choose your browser below for instructions.

- [Firefox](#)
- [Chrome](#)
- [Android](#)
- [Internet Explorer 8](#)

Firefox Privacy Add-On

Click [here](#) to do a privacy add-on. The add-on will help you with blank. It is an optional step.

NAT and Bandwidth

After running the installer on windows, simply click on the "Start I2P" button which will bring up the router console, which has further instructions.

On Unix-like systems, I2P can be started as a service using the "i2prouter" script, located in the directory you selected for I2P. Changing to that directory in a console and issuing "sh i2prouter status" should tell you the router's status. The arguments "start", "stop" and "restart" control the service. The router console can be accessed at its usual location. For users on OpenSolaris and other systems for which the wrapper (i2psvc) is not supported, start the router with "sh runplain.sh" instead.

When installing for the first time, please remember to **adjust your NAT/firewall** if you can, bearing in mind the Internet-facing ports I2P uses, described [here](#) among other ports. If you have successfully opened your port to inbound TCP, also enable inbound TCP on the configuration page.

Also, please review and **adjust the bandwidth settings** on the configuration page, as the default settings of 96 KBps down / 40 KBps up are fairly slow.

If you want to reach I2P Sites via your browser, have a look on the browser proxy setup page for an easy how-to.

Your web browser will need to be configured in order to browse web sites on I2P and to utilize the outproxies available within I2P. Below are walkthroughs for some of the most popular browsers.

Outproxy Terms of Service

Remember: I2P was not designed for creating proxies to the outer Internet. Instead, it is meant to be used as an internal network.

The I2P project itself does not run any proxies to the Internet. The only outproxy is a service from the privacy solutions project. Consider donating to them for a continued stable service. Increased funding will allow them to improve this service.
<http://privacysolutions.no>

By default, I2P comes with two outproxies configured: `false.i2p` and `outproxy-tor.meeh.i2p`. Even the domain names are different, it's the same outproxy you hit. (multi-homed/keyed for better performance)
Filtering is active on these outproxies (for example, mibbit and torrent tracker access is blocked). I2P Sites that are accessible via .i2p addresses are also not allowed via the outproxies. As a convenience, the outproxy blocks ad servers.
Tor is a good application to use as an outproxy to the Internet

Next: [How to Use I2P Software](#)



Browser Configuration

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- [How to use I2P](#)

Firefox

Experimental, extension-based Configuration

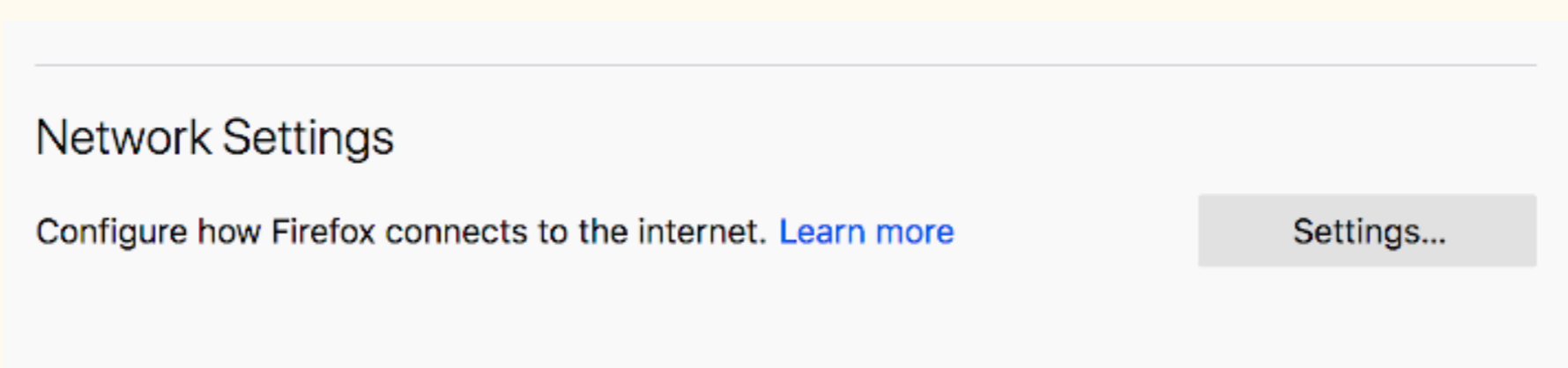
A new way of automatically configuring the I2P Browser is currently being tested. It uses the Firefox's "Container Tabs" to build private browsing tools for use with I2P and I2P applications.

It does pre-configuration of your browser by enabling some of the privacy Browser Settings like ResistFingerprinting, and enforces WebRTC proxy obedience. It also contains menus, shortcuts, and monitoring tools improving Firefox's integration with I2P. It is a by-product of the I2P Browser project.

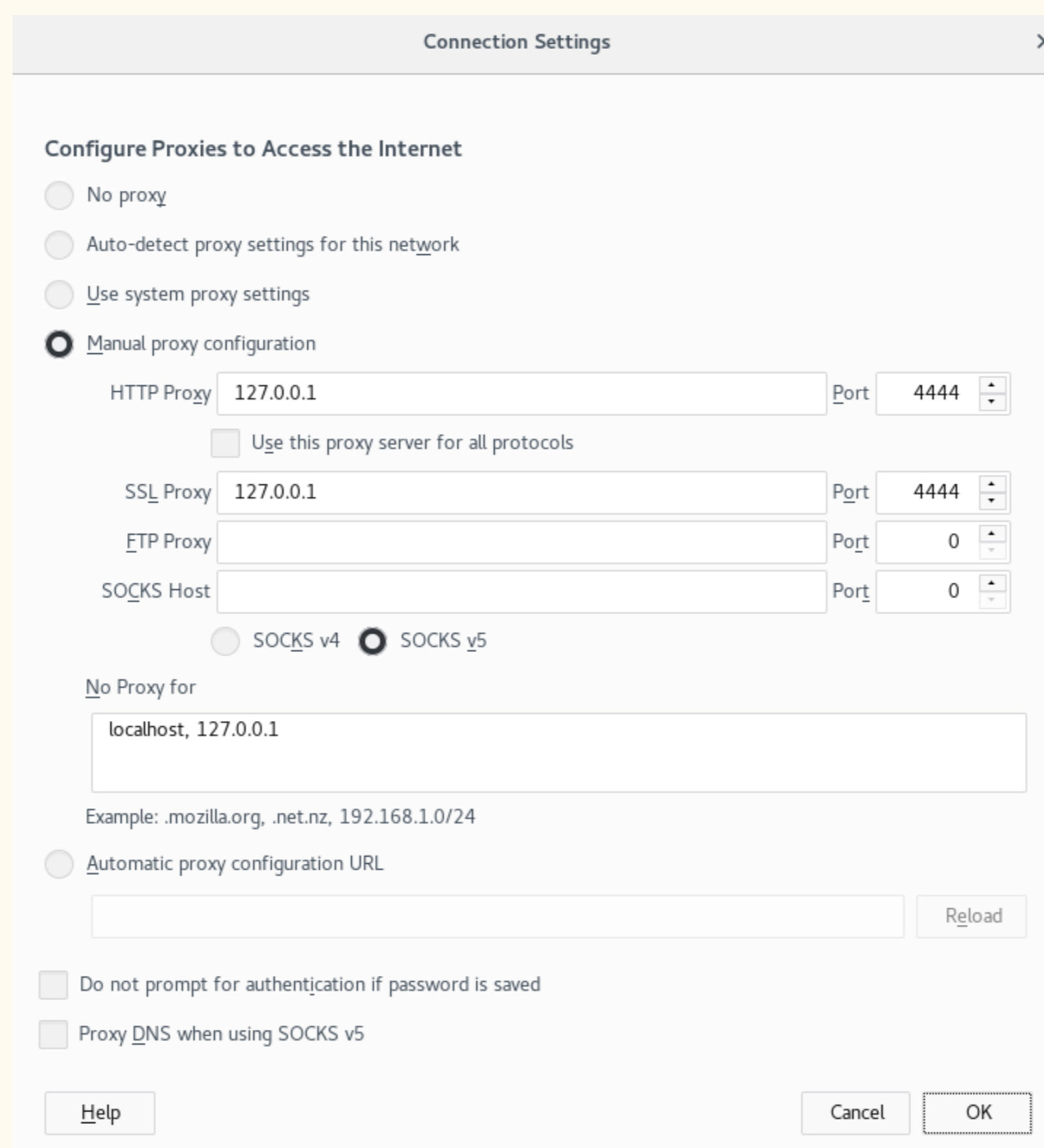
The extension, I2P in Private Browsing, can be obtained from the Mozilla add-on store.

Instructions for Firefox 57 and above:

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*



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.



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

