

# How to browse anonymously with Garlic Routing

Garlic routing is an improved browsing technology, utilizing multiple layers of encryption to anonymize Internet traffic from companies, hackers and network service providers.

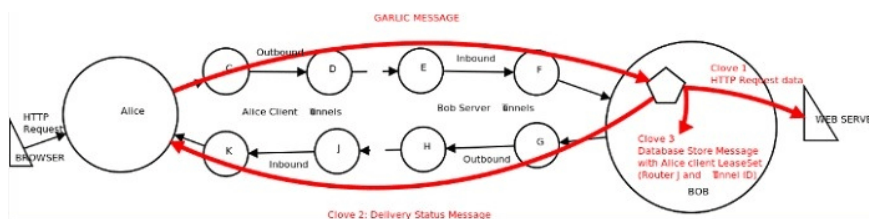
Garlic routing is an improved browsing technology, utilizing multiple layers of encryption to anonymize Internet traffic from companies, hackers and network service providers. In this regard, it has the same purpose as onion routing using Tor encrypted network for anonymity.

However, there are some differences. In onion routing, data passes through intermediate nodes that are peeled layer by layer like onions. In addition, Tor uses two-way tunnels to ensure more efficient memory usage, low bandwidth costs and centralized control.

1. How to use Tor Browser to surf anonymously
2. Anonymous browsing has more uses than you think
3. Is the anonymous browsing mode really safe?

## What is Garlic routing?

Garlic routing is an extension of the onion concept, in which many bulletins are packaged and encoded together, similar to garlic cloves. The hidden information is sent individually and is only revealed at the destination.



The biggest advantage of this 'garlic' technique is peer-to-peer and by using a different answer block, garlic routing has completely changed the global network concept. The idea is to ensure better protection, prevent client activity from being detected, even when an attacker can join the tunnel.

To browse the anonymous web with garlic routing, you must download and install the software called I2P.

## Download and install I2P

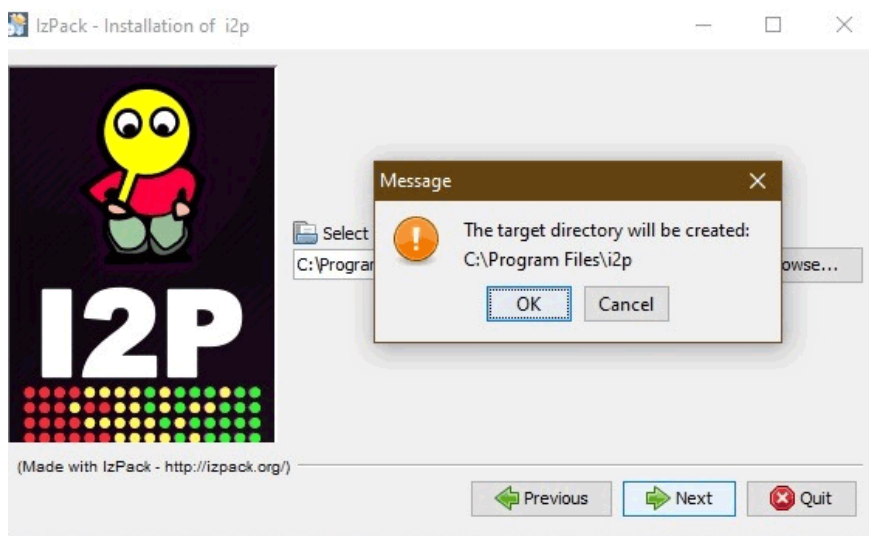
Invisible Internet Project (I2P) has primarily contributed to garlic routing. Although the anonymous browsing project is still in beta, you can use it now without any problems.

To download, visit the official link below and get software for Windows, Mac, Solaris / BSD, Android, Debian or Ubuntu.

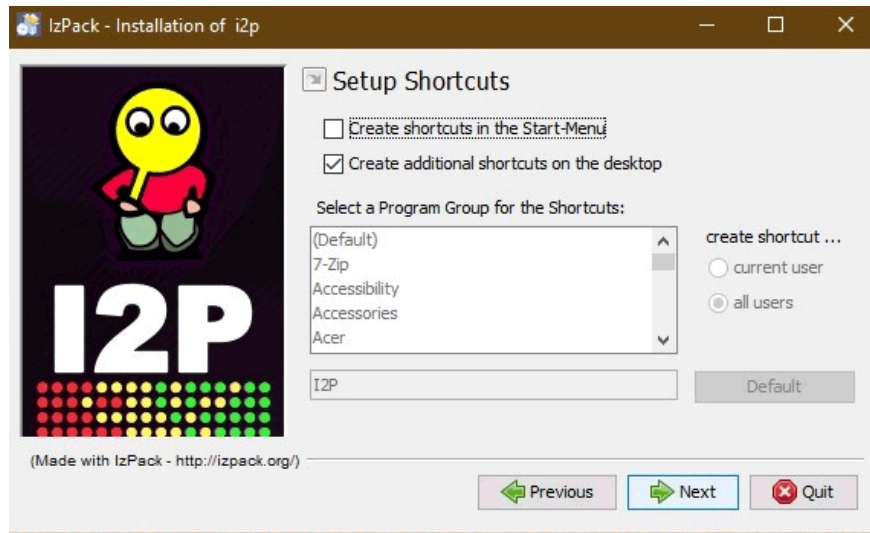
<https://geti2p.net/en/download>



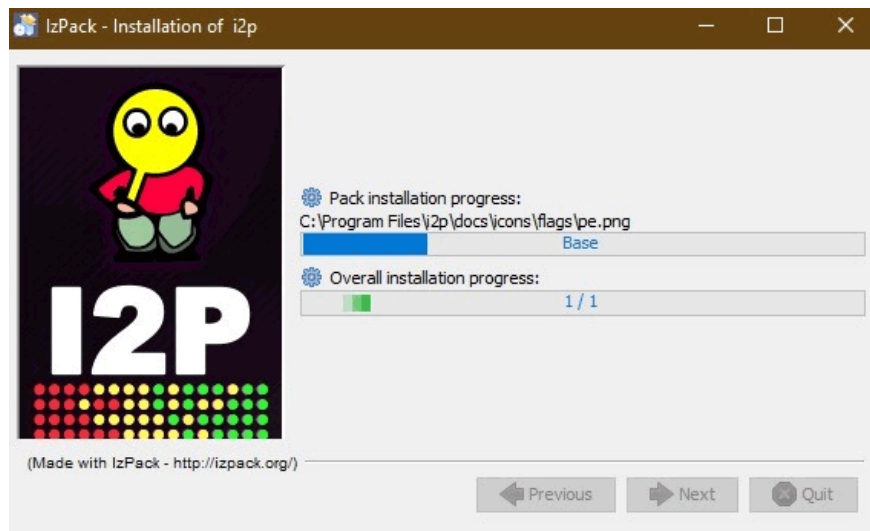
Select a destination folder similar to normal Windows programs.



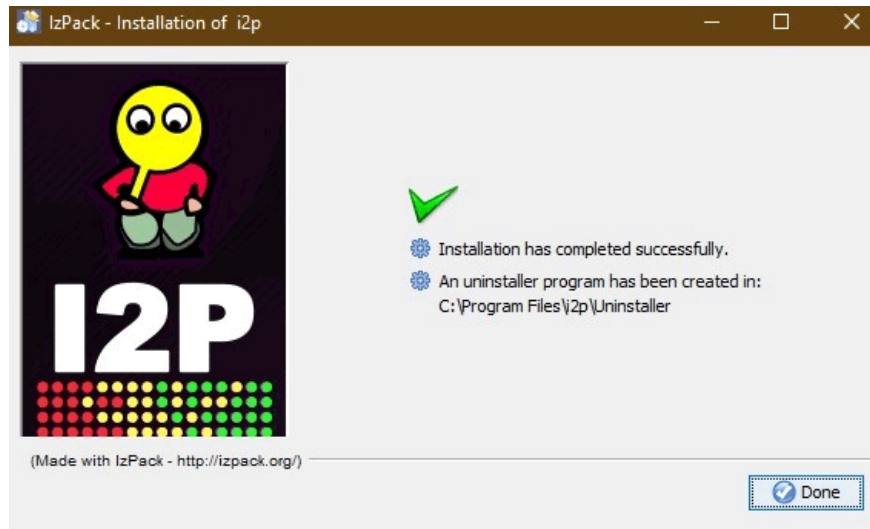
If you want, you can create an I2P shortcut in the Start menu or simply place it on the desktop.



This installation process only takes a few minutes.

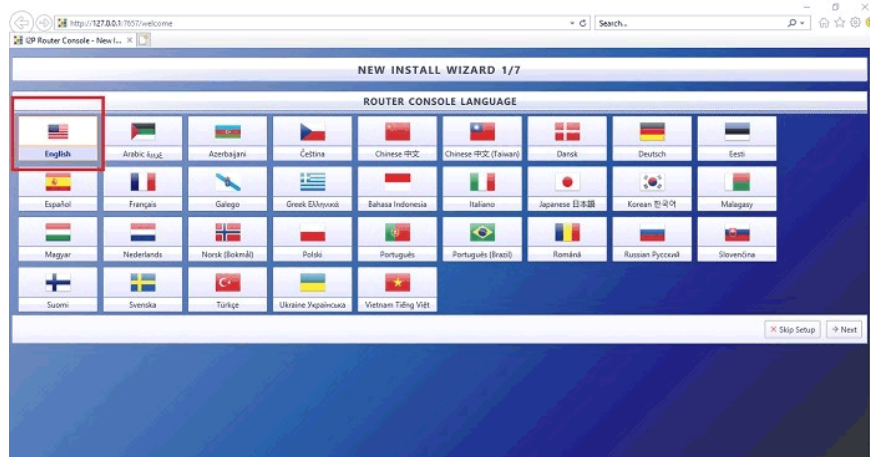


When the installation is complete, you will receive a notification of completion.

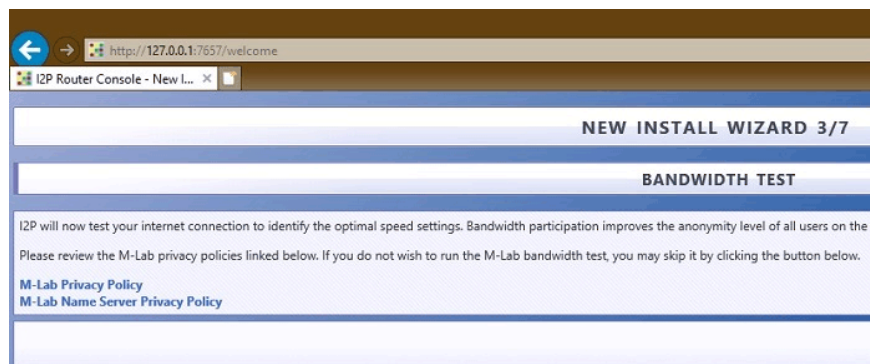


## Check bandwidth

Click on the IP2 router control panel, use your computer's default browser to install more. You need to select the language first.



Next, perform a bandwidth test to see how much bandwidth you need.



As shown below, the bandwidth is expected to provide 2.46 Mbps download speed and 492 kbps upload speed. You should record this data to use for the next section.

The screenshot shows the I2P Router Console interface. At the top, it says "NEW INSTALL WIZARD 5/7". Below that, a green checkmark indicates "Bandwidth test completed successfully". The "BANDWIDTH TEST RESULTS" section contains the following data:

|                            |  |
|----------------------------|--|
| Test running?              | false  |
| Test complete?             | true   |
| Test server location       | Milan IT ndt-iupui-mlab1-mil05.measurement-lab.org |
| Completion status          | Completed: up=156.4 KBps, down=57.1 KBps           |
| Details                    | Completed: up=156.4 KBps, down=57.1 KBps           |
| Downstream Bandwidth       | 57.1 KBps  |
| Upstream Bandwidth         | 156.4 KBps   |
| Share of Bandwidth for I2P | 75%  |

The "BANDWIDTH CONFIGURATION" section is highlighted with a red box and contains the following text:

I2P will work best if you configure your rates to match the speed of your internet connection.

|                                  |          |  |
|----------------------------------|----------|--|
| <input type="text" value="43"/>  | KBps In  | (2.46 Mbits per second; 823 GBytes per month maximum)  |
| <input type="text" value="117"/> | KBps Out | (492 Kbits per second; 164.6 GBytes per month maximum) |
| <input type="text" value="80%"/> | Share    | (270 Kbits per second; 90.5 GBytes per month maximum)  |

## Download I2P Firefox Browser Profile

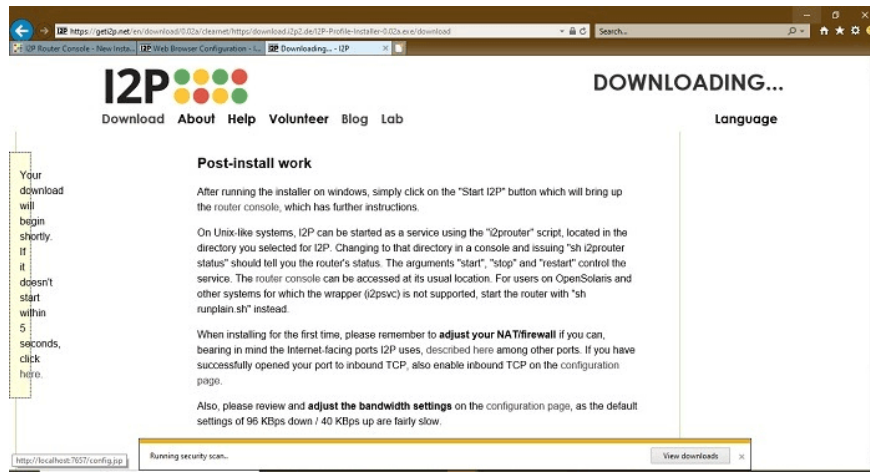
Next, you need to download the Firefox Browser Profile to work with I2P. And you need Firefox to surf the web "garlic".

<https://geti2p.net/en/download/firefox>

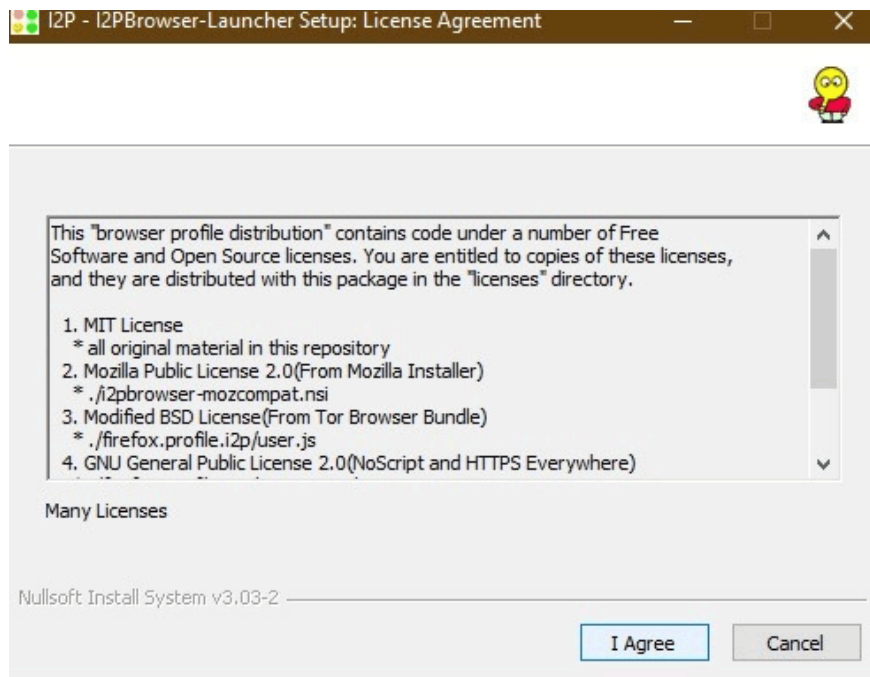
The screenshot shows the I2P website's "I2P Firefox Browser Profile" page. The I2P logo is at the top left, and the page title is "I2P Firefox Browser Profile". The page content includes:

- A description of an eepsite: "An eepsite is a website that is hosted anonymously, a hidden service which is accessible through your web browser. It can be accessed by setting your web browser's HTTP proxy to use the I2P web proxy, port 4444, and browsing to the site."
- Instructions: "To make that easy, the Firefox browser profile is pre-configured to work with I2P. While you can use any browser to access I2P sites, using a dedicated browser profile keeps your I2P browsing activity separate from your clearnet activity."
- Additional information: "This profile also includes the NoScript plugin which protects you from malicious Javascript and the HTTPSEverywhere plugin which enforces SSL encryption where available."
- A download button for "I2P-Profile-Installer-0.02a.exe" with a mirror link "sistern.no".
- A "select alternate mirror" button.
- A note: "Download that file and run it."

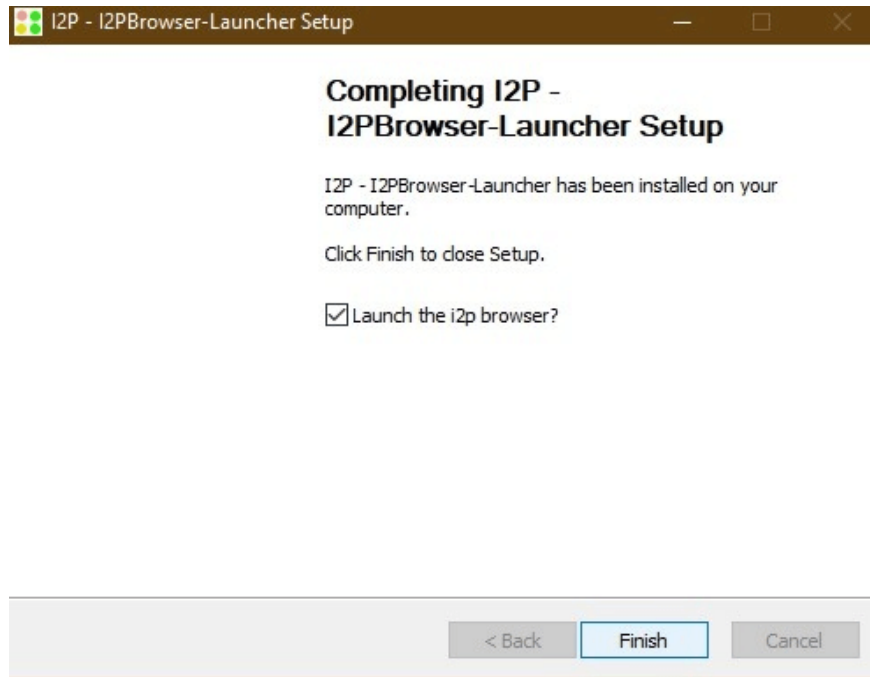
After downloading, you need to run the browser profile program.



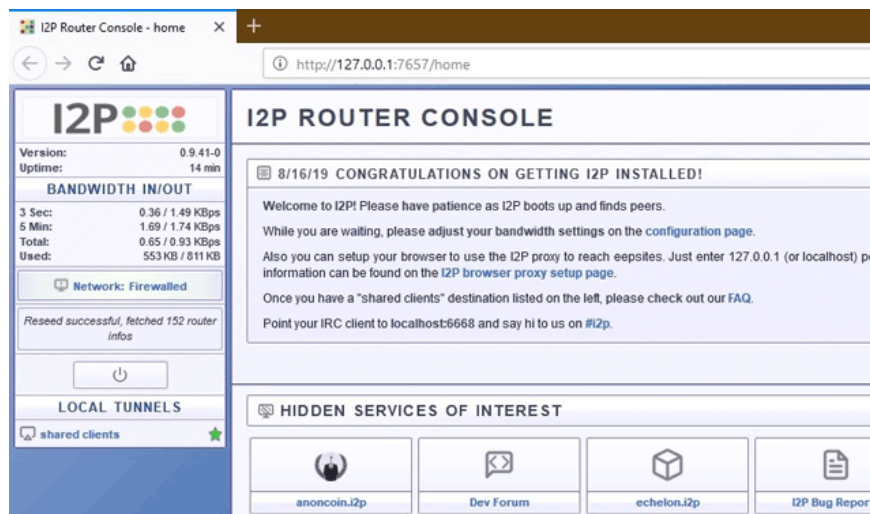
Click **I Agree** to agree to the launcher setup license agreement.



Click **Launch the i2p browser?** right after installation finishes. The next time you can directly launch the Firefox browser profile from the desktop.



When opened, you will see the home page that controls the I2P router with a complete list of I2P related websites. Go to the configuration page to adjust the settings.



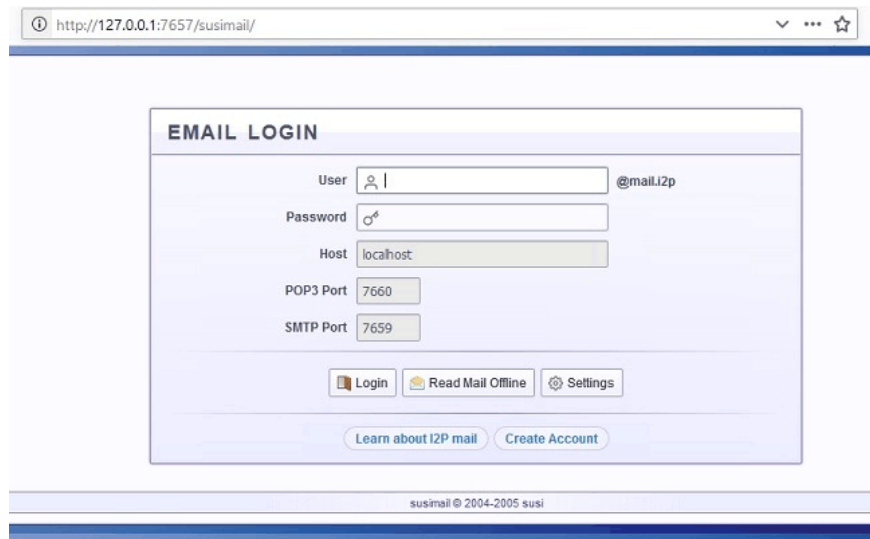
On the I2P configuration page, you can see the parts that need to be adjusted manually but the most important adjustment is bandwidth. And this is where the previous bandwidth data is used.

The screenshot shows the I2P bandwidth configuration page. The main heading is "I2P BANDWIDTH CONFIGURATION". Below it are tabs for "Advanced", "Bandwidth", "Clients", "Home Page", "I2CP", "Keyring", "Logging", "Network", "Peers", and "Plugins". A secondary set of tabs includes "Summary Bar", "Tunnels", "UI", "Update", and "Web Apps". The "BANDWIDTH LIMITER" section contains a note: "I2P will work best if you configure your rates to match the speed of your internet connection." Below this are three rows of settings: "543 KBps In (344 Kbits per second; 115.2 GBytes per month maximum)", "2117 KBps Out (934 Kbits per second; 313 GBytes per month maximum)", and "80% Share (246 Kbits per second; 82.3 GBytes per month maximum)". A dropdown menu is open over the "Share" setting, showing a list of percentages from 0% to 100% in 10% increments, with 80% highlighted.

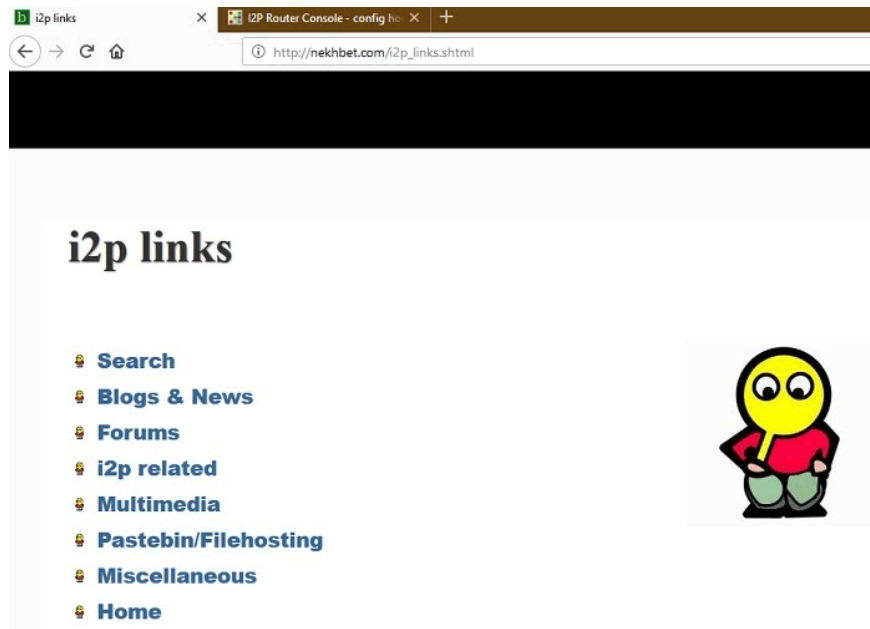
After allocating enough bandwidth for I2P, you can surf the web anonymously like on a regular Firefox browser. No one, including Internet service providers, has any clues about your software, computer or IP address information.

The screenshot shows a web browser window with a DuckDuckGo search. The search bar contains the text "what is my ip address" and a green search button. The browser address bar shows "https://duckduckgo.com/html". Below the search bar, there are two main sections: "save Software" and "computer Hardware". The "save Software" section includes sub-sections for "Operating System", "Browser", and "Browser Plugins" (with the note "No plugins detected."). Under "Prevention:", it says "To prevent your browser from leaking information about your software use NoScript." The search results for "what is my ip address" show "Your IP address is unavailable."

You can use I2P garlic routing to send anonymous emails from the mail.i2p domain.

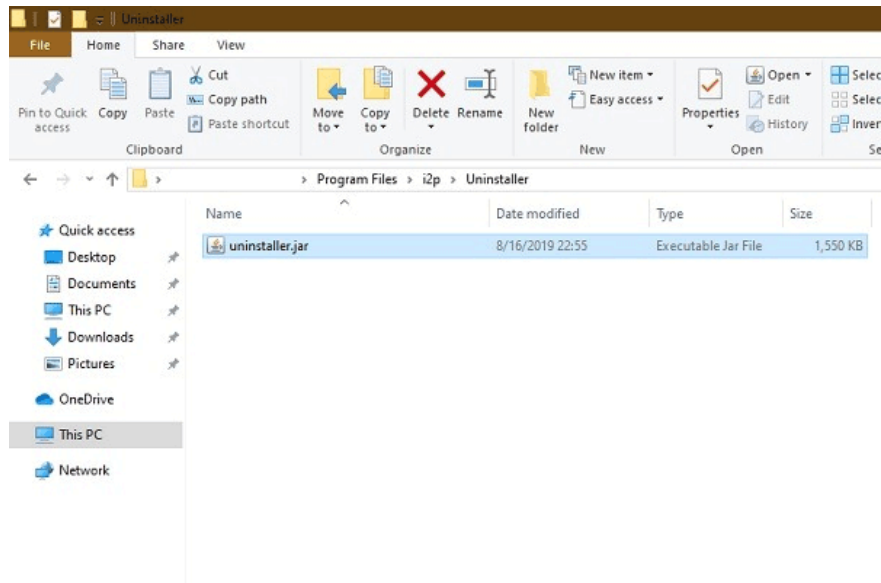


Like onion links, you will find many i2p links called eepsites. With onion, these links do not open in regular web browsers like Chrome.



## Uninstall the program

If you want to uninstall I2P, just run the uninstaller.jar file and don't save any traces of your online activities.



Onion is very popular with Dark web users and that is why they are attracting more attention from Internet service providers. In contrast, "garlic" routers are still inadequate to be blocked or attacked by DDoS attacks.

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