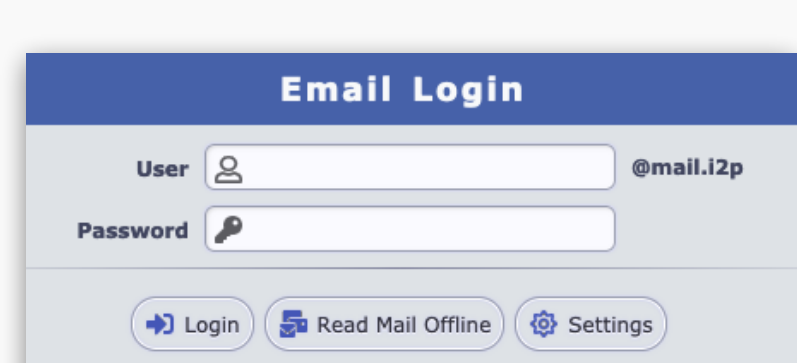


The Invisible Internet Project

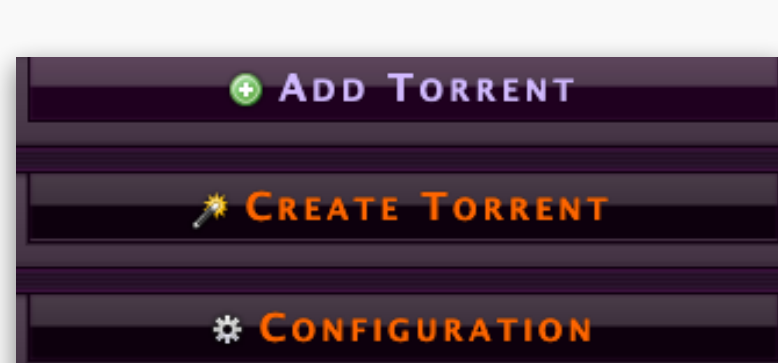
The Invisible Internet is a privacy by design, people-powered network. It is a truly free and anonymizing Internet alternative.

[Get Started](#)

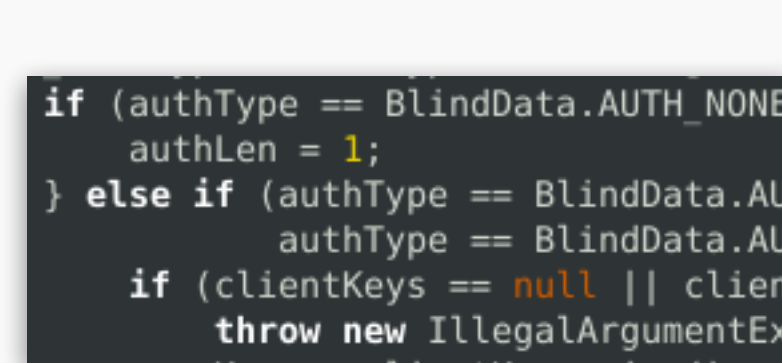
What you can do on the Invisible Internet



Email



Torrent



Create

[And More >](#)

[Download](#)

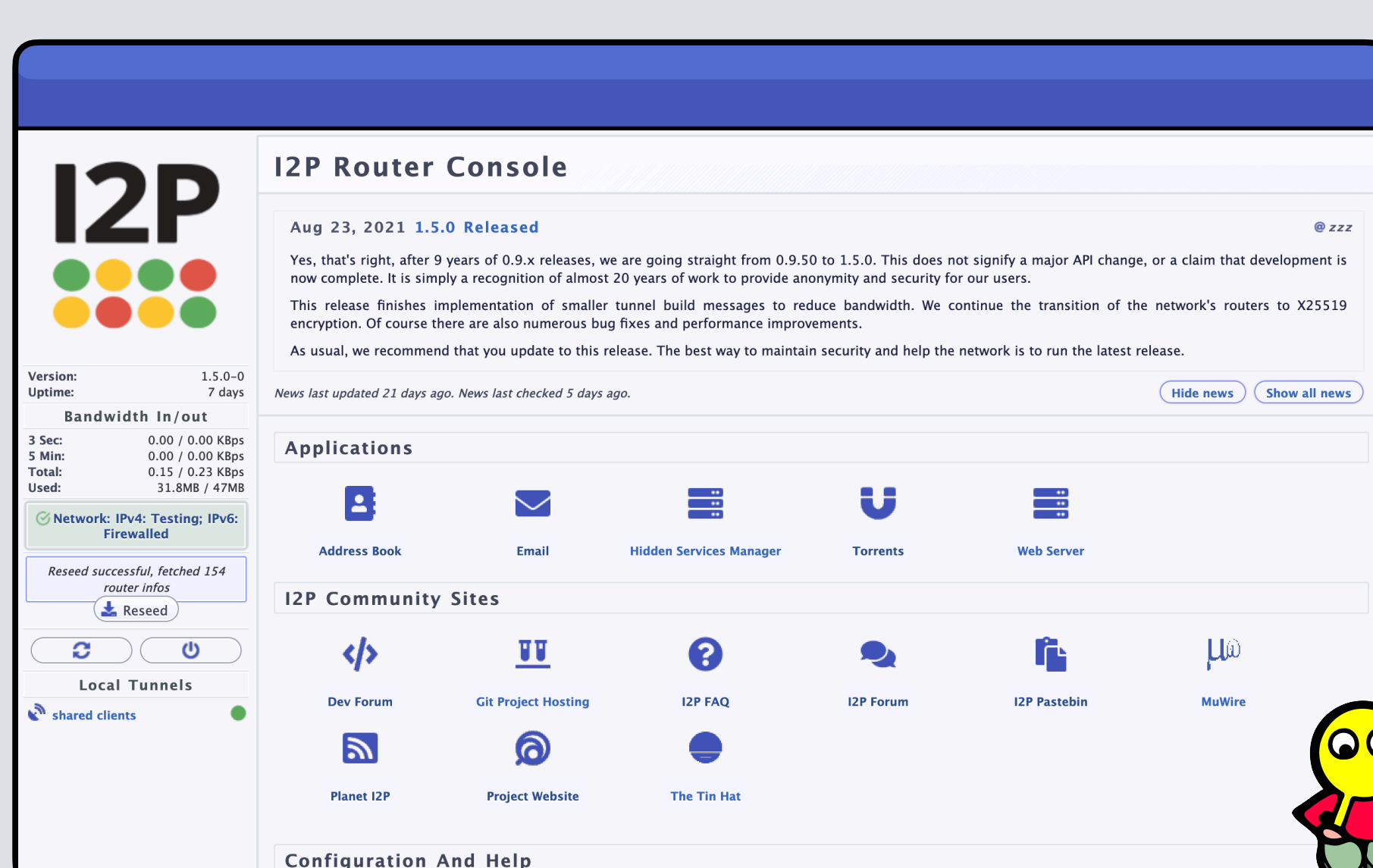
New User

I2P Software

Privacy by Design: Foundational Privacy Network Design and Architecture

This is a blurb about how you can get an [introduction to I2P](#) and how it works.

Another blurb about [things you can do on I2P](#) like email and torrent.



Get Involved

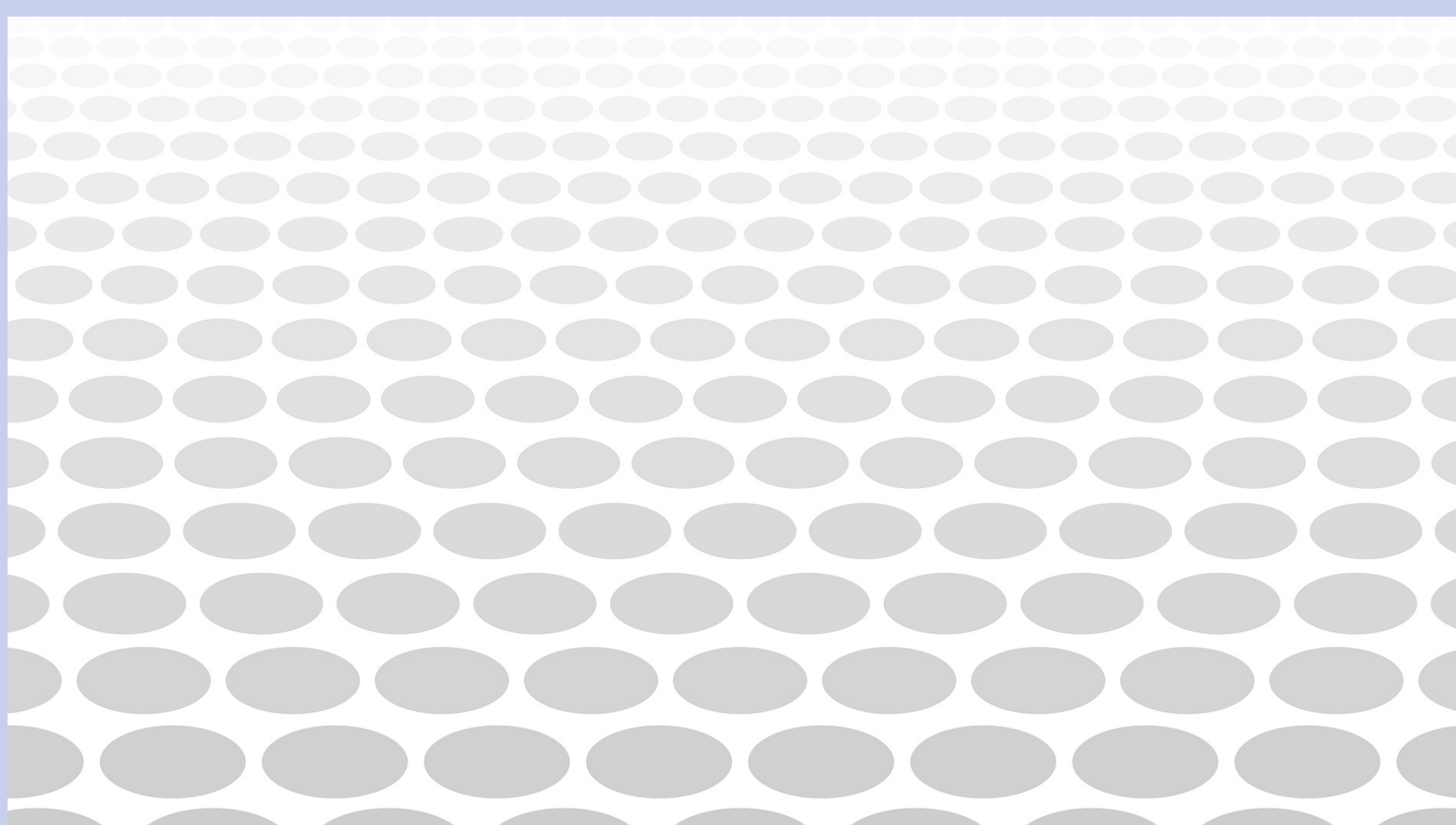
Here are a few ways to support the I2P Network

Contribute to the network by become a [reseed operator](#) and help the I2P project grow.

Help [translate](#) the documentation into other languages.

Take a moment to [donate](#) to support further development.

Network Admin and Translators and Donate



I2P Developers

Documentation for people that want to make their own applications or work on the software router

Application Developers - Documentation for people that want to make their own applications [read the documentation](#).

Software Router - blurb for technical/network developers who are more advanced. They may want to [Developer Resources](#).

Roadmap follow ups

Network and SR Devs

```
// layer 2 (inner) encryption
I2PAppContext ctx = I2PAppContext.getGlobalContext();
byte[] salt = new byte[SALT_LEN];
ctx.random().nextBytes(salt);
HKDF hkdf = new HKDF(ctx);
byte[] key = new byte[32];
// use first 12 bytes only
byte[] iv = new byte[32];
int authLen;
```

I2P Network

Documentation for people that want to make their own applications or work on the software router

[Researchers](#)

[Transport Layer](#)

[Router Message Protocol](#)

[Network Database](#)

[End to End Encryption](#)

[Tunnels](#)

Researchers and Network Protocol Stack and Transport

```
// layer 2 (inner) encryption
I2PAppContext ctx = I2PAppContext.getGlobalContext();
byte[] salt = new byte[SALT_LEN];
ctx.random().nextBytes(salt);
HKDF hkdf = new HKDF(ctx);
byte[] key = new byte[32];
// use first 12 bytes only
byte[] iv = new byte[32];
int authLen;
```

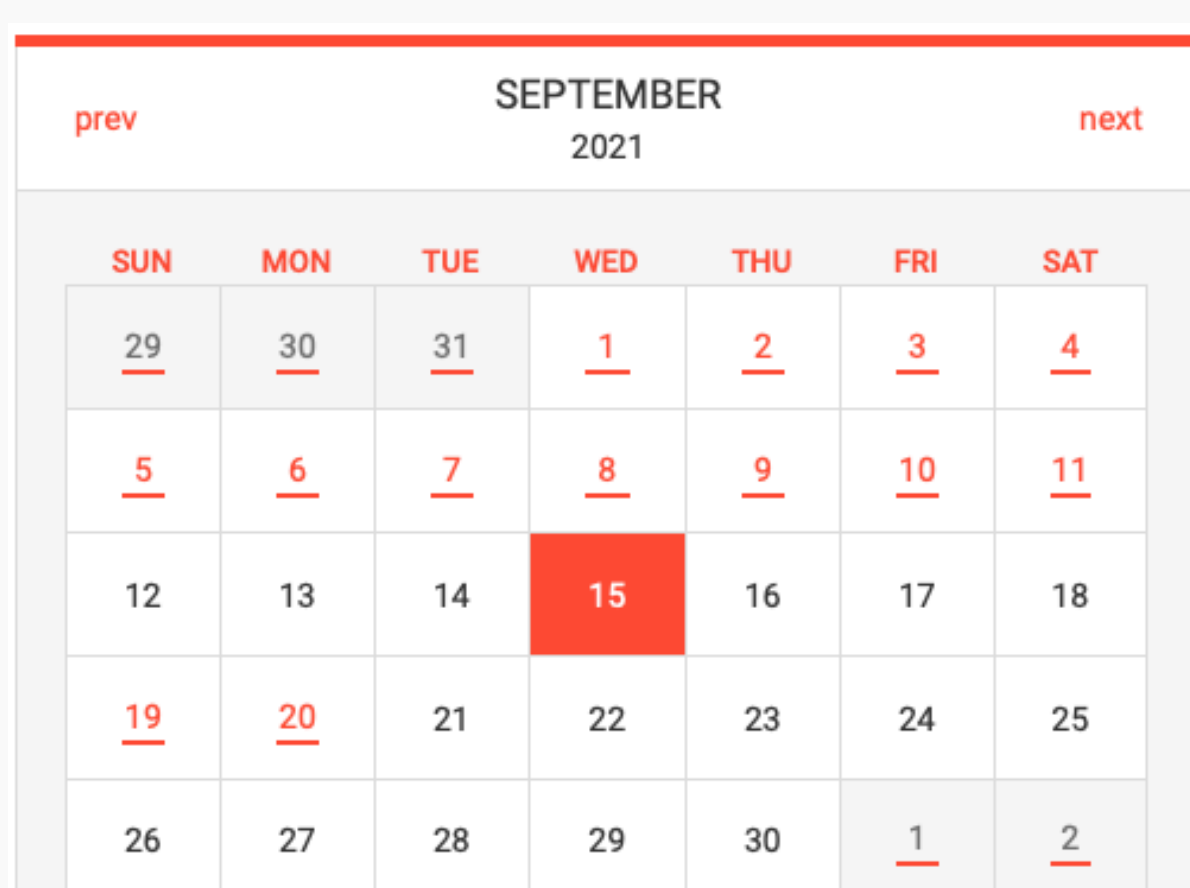
Calendar

Every Tuesday [LS2 Meeting](#)

First Tuesdays [I2P Dev Meeting](#)

Every Tuesday [Usability & Design Meeting](#)

[See the Calendar of Events](#)



[Download I2P](#)

Blog

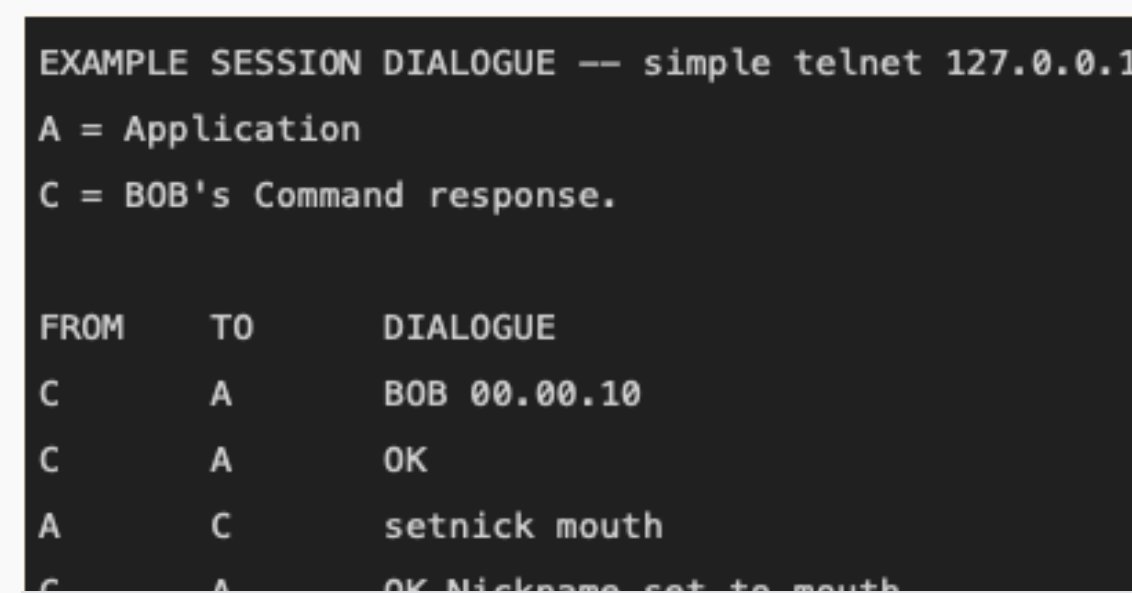
[20th Anniversary of I2P](#)
October 1, 2021

[See More Blog Posts](#)

Latest Release

[1.5.0 Release](#)
August 23, 2021

[See Previous Release Notes](#)



August 23, 2021

[1.5.0 Release](#)

[Read More](#)

[New](#)

I2P

[About](#)
[Blog](#)
[Forums](#)
[Contact Us](#)

Getting Started

[Support](#)
[Technology](#)
[API](#)
[Docs](#)

Get Involved

[Contribute](#)
[Donate](#)
[Partners](#)

Follow Us

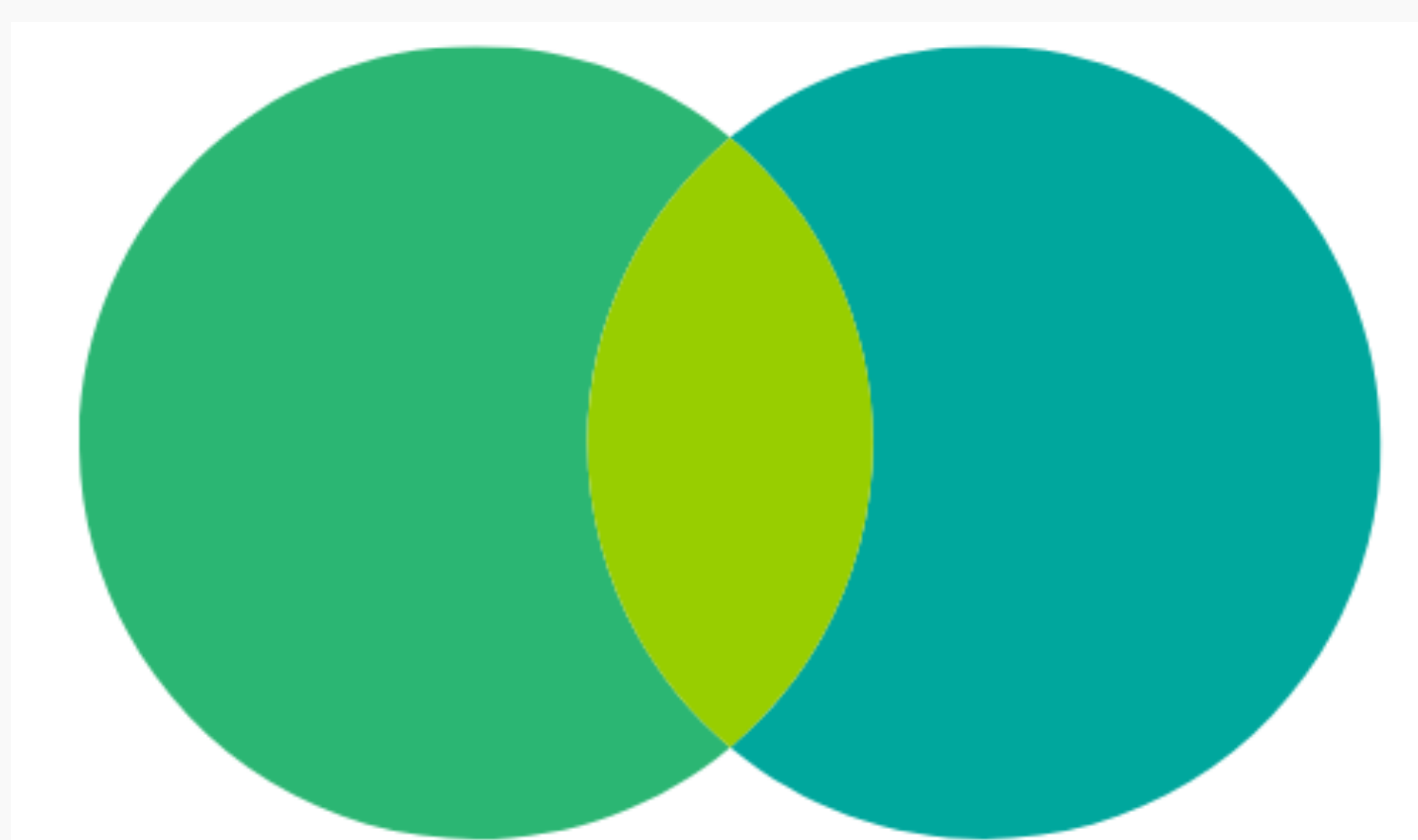
[Twitter](#)
[Gitlab](#)
[Reddit](#)
[Mastodon](#)



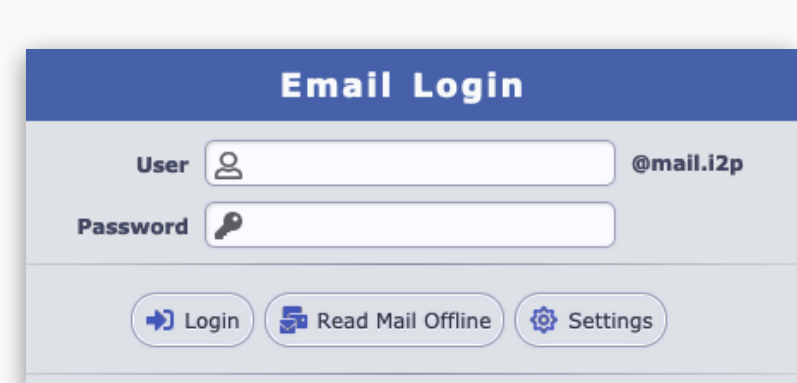
The Invisible Internet Project

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

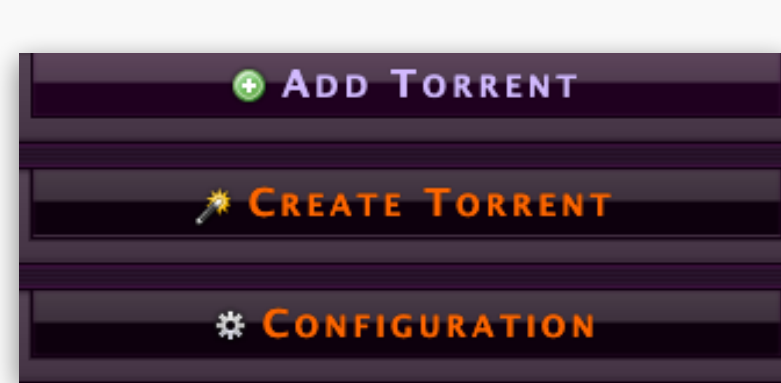
[Get Started](#)



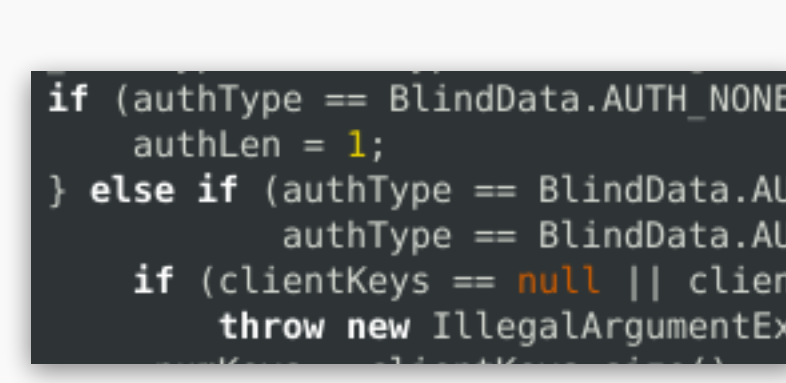
What you can do on the Invisible Internet



Email



Torrent



Create

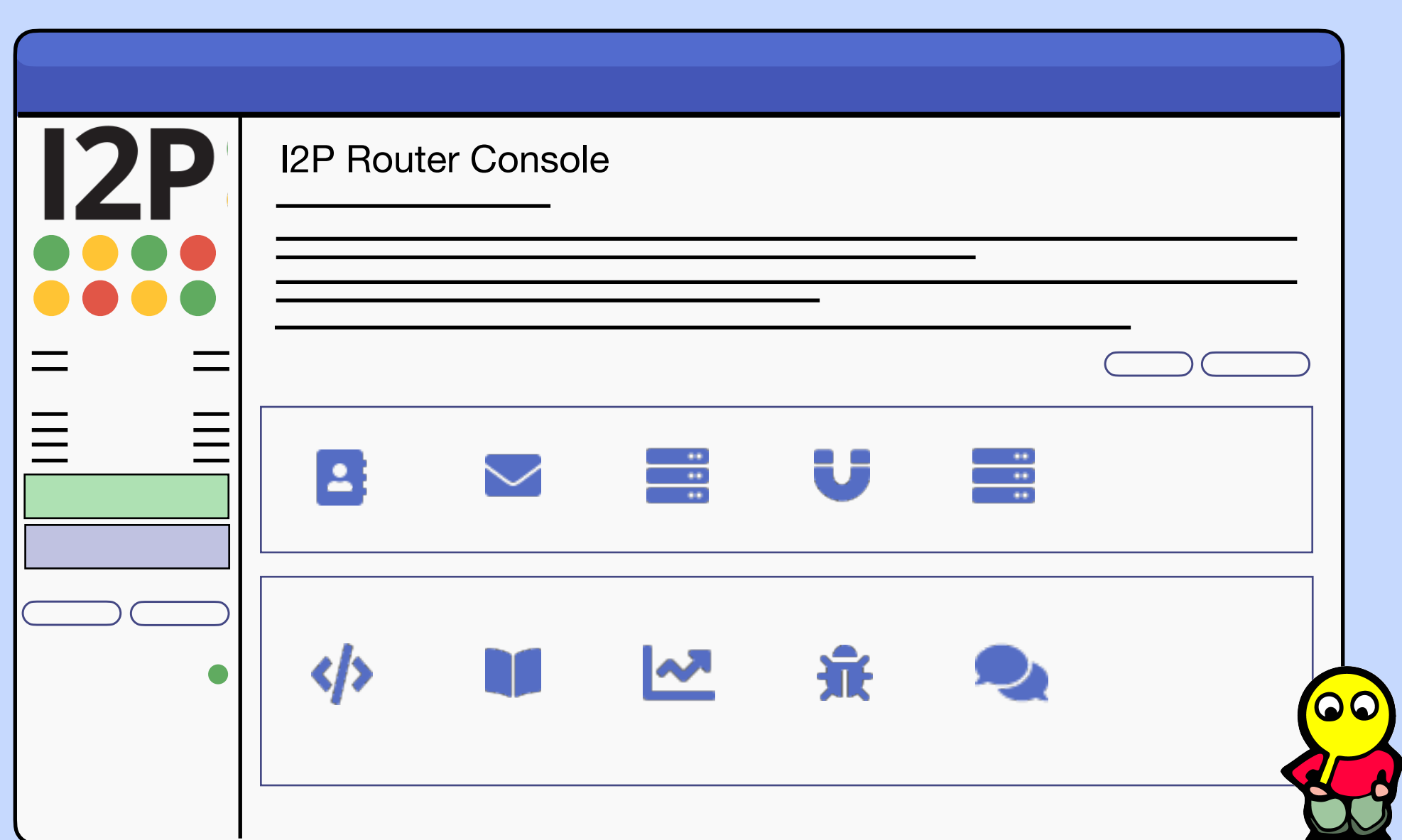
I2P Software

Your connection to the I2P Network

Learn about the **Invisible Internet**

Join a global, distributed private network. Learn about how the **I2P network** works.

[Get started](#) with I2P



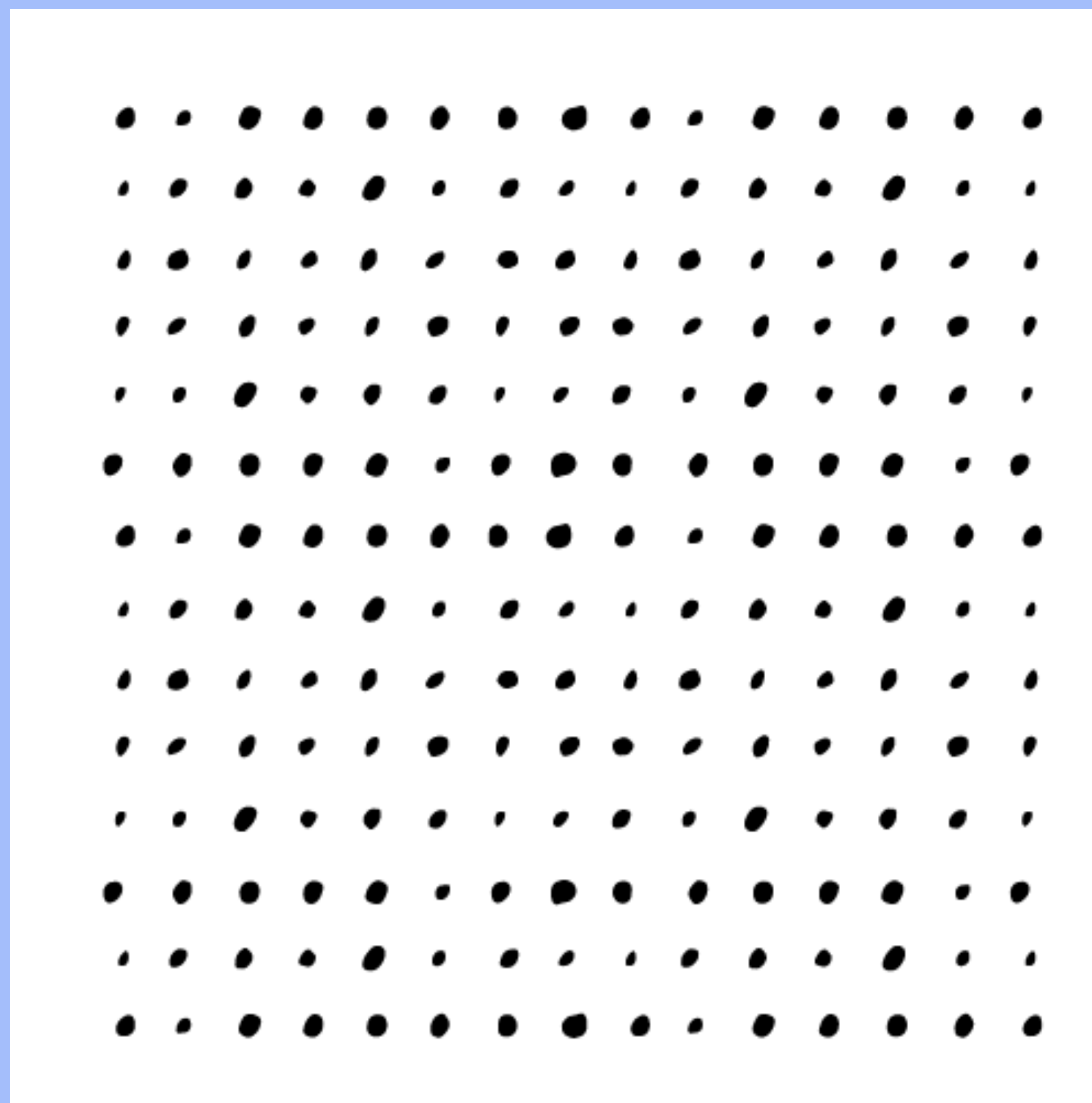
Get Involved

Want to support the I2P network? Here are a few ways that you can get involved

Become a **reseed operator**.

Help **translate** the software and documentation into other languages.

I2P is free and community supported. Please **donate** to support its future.



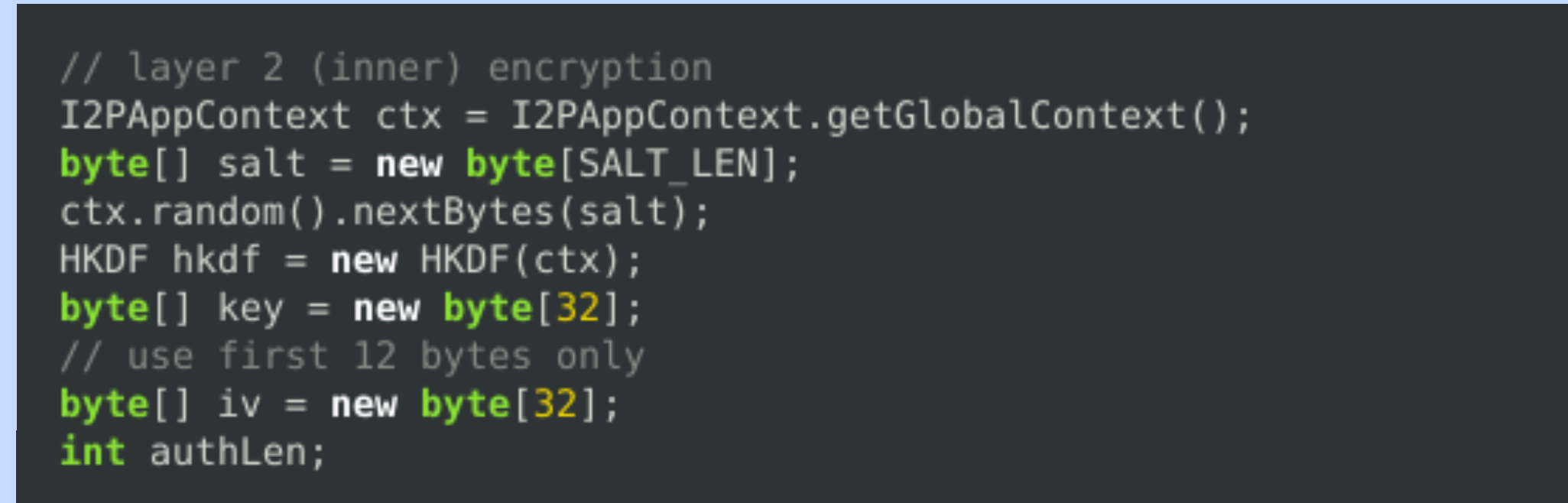
I2P Developers

Create your own I2P applications or contribute to ongoing I2P core development

Documentation for **Application Developers**

Getting Started Documentation for **I2P Router Development**

[Development Roadmap](#)



I2P Network

I2P's privacy protecting protocols and network infrastructure

Find out more about the network architecture and design. See the index of [Technical Information](#).

Resources for **Academic Researchers** include Support, Metrics and Documentation.

Events

Every Monday **LS2 Meeting**

First Tuesdays **I2P Dev Meeting**

Every Tuesday **I2P Usability Lab**

[View All Events](#)

Blog

20 Years of Privacy
October 1, 2021

[More Blog Posts](#)

EXAMPLE SESSION DIALOGUE — simple telnet 127.0.0.1

```
A = Application
C = BOB's Command response.

FROM TO DIALOGUE
C A BOB 00.00.10
C A OK
A C setnick mouth
C A OK Mouth got set to mouth
```

August 23, 2021

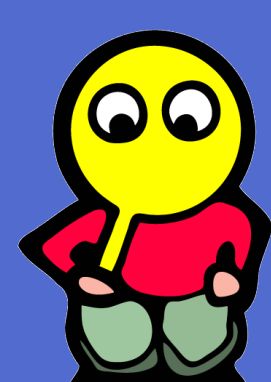
1.5.0 Release

[Read More](#)

[New](#)

[Previous Release Notes](#)

[Download I2P](#)

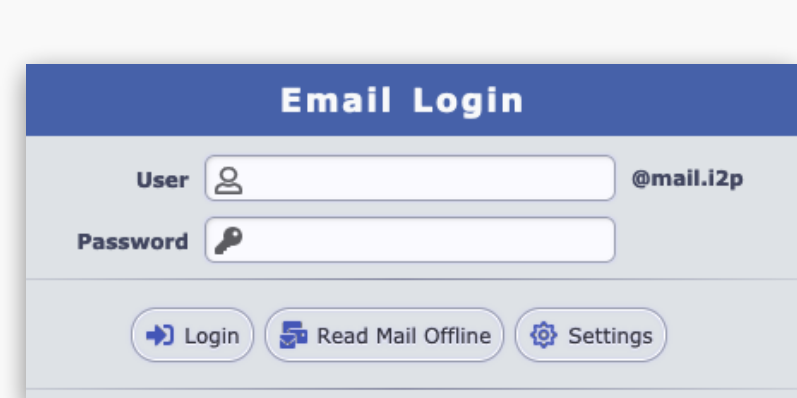


The Invisible Internet Project

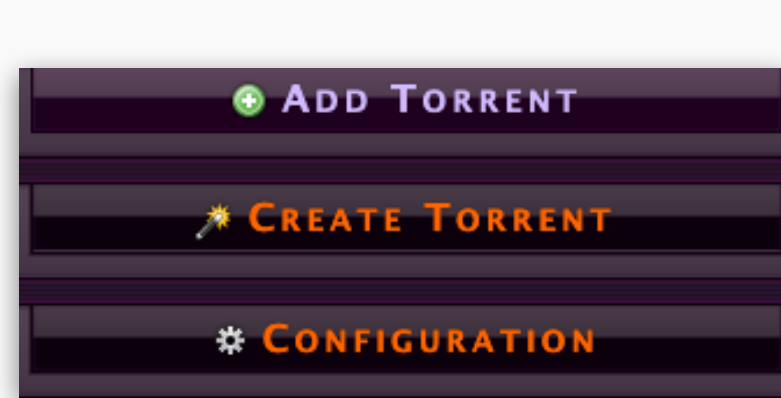
The Invisible Internet is a privacy by design, people-powered network. It is a truly free and anonymizing Internet alternative.

[Get Started](#)

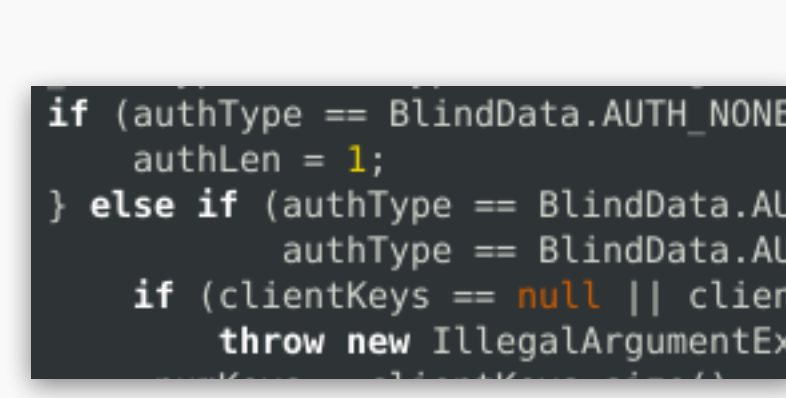
What you can do on the Invisible Internet



Email



Torrent



Create

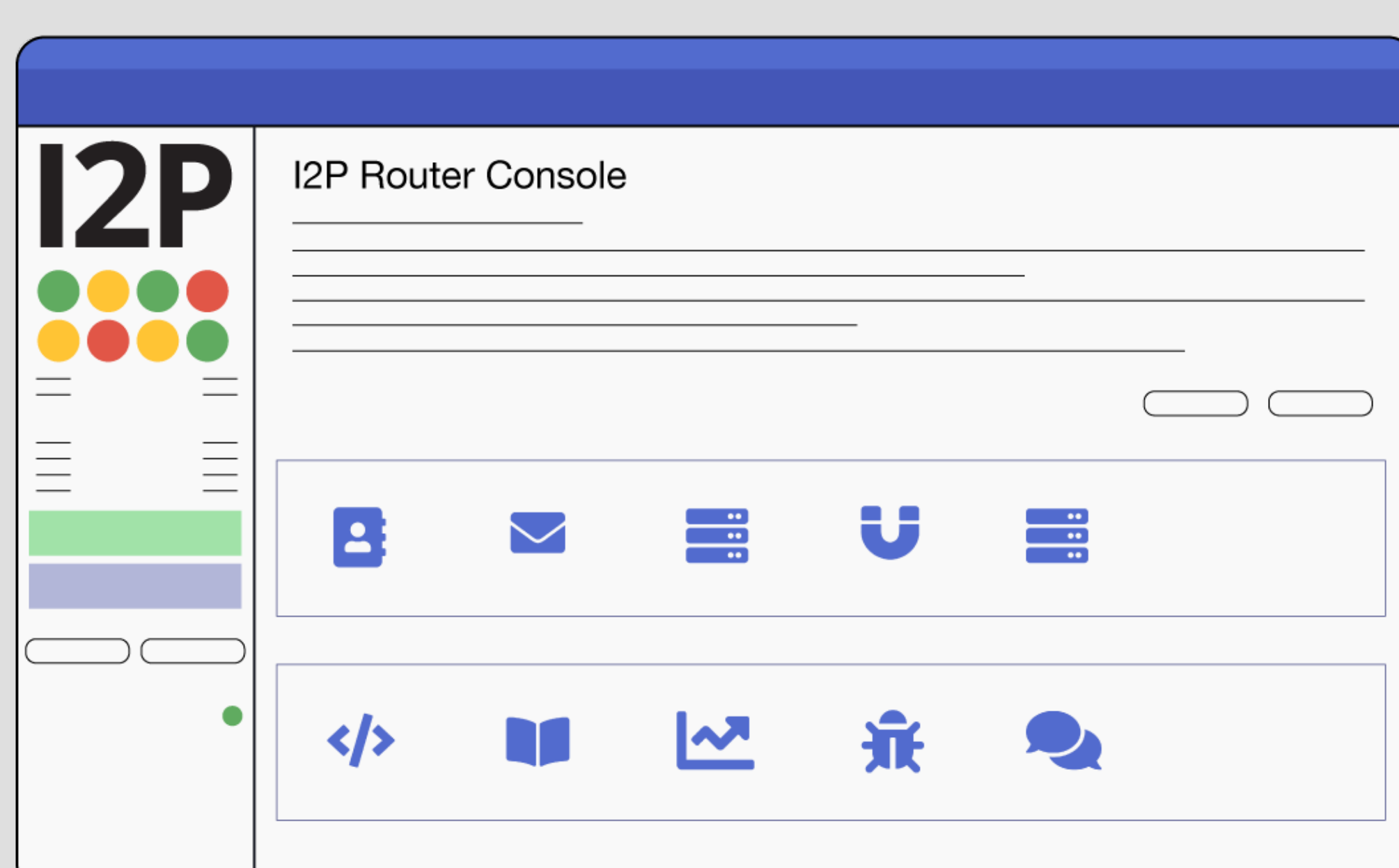
I2P Software

Your connection to the I2P Network

Learn about the **Invisible Internet**

Join a global, distributed private network. Learn about how the **I2P network** works.

Get started with I2P



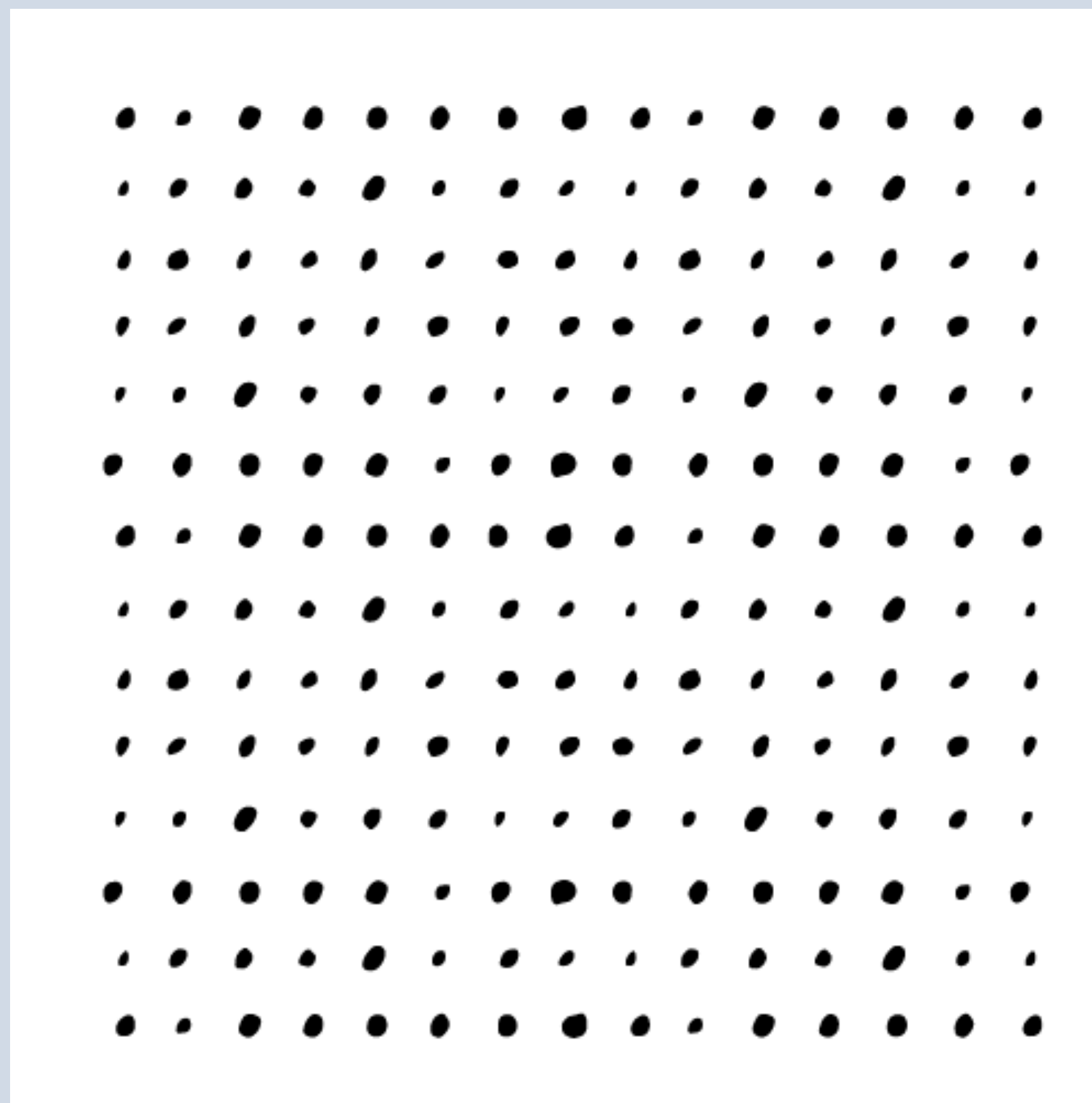
Get Involved

Want to support the I2P network? Here are a few ways that you can get involved

Become a **reseed operator**.

Help **translate** the software and documentation into other languages.

I2P is free and community supported. Please **donate** to support its future.



I2P Developers

Create your own I2P applications or contribute to ongoing I2P core development

Documentation for **Application Developers**

Getting Started Documentation for **I2P Router Development**

Development Roadmap

```
// layer 2 (inner) encryption
I2PAppContext ctx = I2PAppContext.getGlobalContext();
byte[] salt = new byte[SALT_LEN];
ctx.random().nextBytes(salt);
HKDF hkdf = new HKDF(ctx);
byte[] key = new byte[32];
// use first 12 bytes only
byte[] iv = new byte[32];
int authLen;
authType = authType; // debug
if (authType == BlindData.AUTH_NONE) {
    authLen = 1;
} else if (authType == BlindData.AUTH_DH ||
    authType == BlindData.AUTH_PSK) {
    if (clientKeys == null || clientKeys.isEmpty())
        throw new IllegalArgumentException("No client keys provided");
}
```

I2P Network

I2P's privacy protecting protocols and network infrastructure

Find out more about the network architecture and design. See the index of **Technical Information**.

Resources for **Academic Researchers** include Support, Metrics and Documentation.

Events

Every Monday **LS2 Meeting**

First Tuesdays **I2P Dev Meeting**

Every Tuesday **I2P Usability Lab**

[View All Events](#)

Blog

20 Years of Privacy
October 1, 2021

[More Blog Posts](#)

EXAMPLE SESSION DIALOGUE — simple telnet 127.0.0.1

```
A = Application
C = BOB's Command response.

FROM TO DIALOGUE
C A BOB 00.00.10
C A OK
A C setnick mouth
C A OK Mouth got its mouth
```

August 23, 2021

1.5.0 Release


[Read More](#)

[Previous Release Notes](#)

[Download I2P](#)



Calendar of Events



LS2 Meeting

For development conversations about I2P network performance and security.

[Past Topics](#)
[I2P Proposals](#)

Mondays
6:30 PM UTC
Join Meeting on IRC #LS2




I2P Developer Meeting

Monthly community meetings and updates from developers on current roadmap status.

If you have something to discuss, please find the developers on IRC in #i2p-dev
[View the Current Roadmap](#)

First Tuesday of Every Month
8:00 PM UTC
Join Meeting on IRC #i2p-dev



I2P Usability Lab

Join us for conversations about our user research and open panel talks with the community.

The I2P Usability Lab will announce monthly Discord meetups.
[Join the Discord #i2p-usability-lab](#)

I2P

[About](#)
[Blog](#)
[Forums](#)
[Contact Us](#)

Getting Started

[Support](#)
[Technology](#)
[API](#)
[Docs](#)

Get Involved

[Contribute](#)
[Donate](#)
[Partners](#)

Follow Us

[Twitter](#)
[Gitlab](#)
[Reddit](#)
[Mastodon](#)

Donate

Your support helps fund creators and contributors!



© 2021 The Invisible Internet Project
Content available under a Creative Commons license.

[Data Policy](#) [Legal](#) [Impressum](#)

I2P

[About](#)
[Blog](#)
[Forums](#)
[Contact Us](#)

Getting Started

[Support](#)
[Technology](#)
[API](#)
[Docs](#)

Get Involved

[Contribute](#)
[Donate](#)
[Partners](#)

Follow Us

[Twitter](#)
[Gitlab](#)
[Reddit](#)
[Mastodon](#)

Donate

Your support helps fund creators and contributors!



© 2021 The Invisible Internet Project
Content available under a Creative Commons license.

[Data Policy](#) [Legal](#) [Impressum](#)

