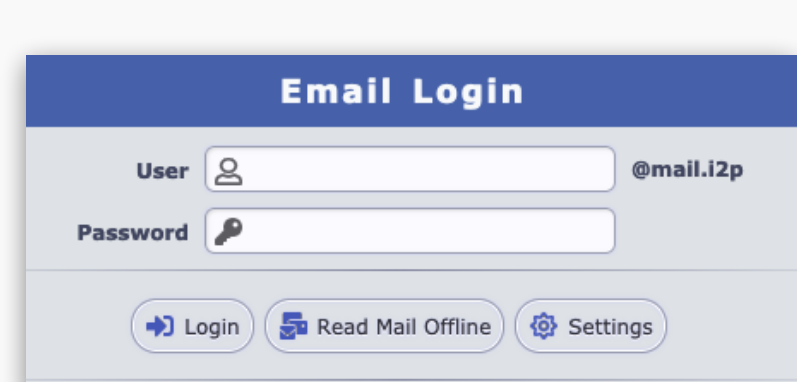


The Invisible Internet Project

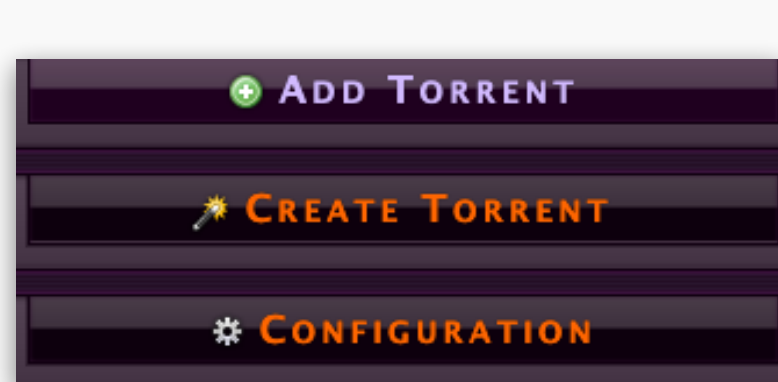
The Invisible Internet is a privacy by design, people-powered network. It is a truly free and anonymizing Internet alternative.

[Get Started](#)

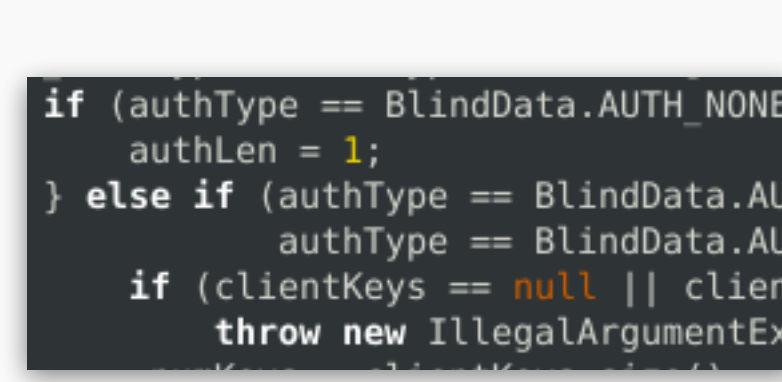
What you can do on the Invisible Internet



Email



Torrent



Create

[Download I2P](#)

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 [how to use I2P](#).



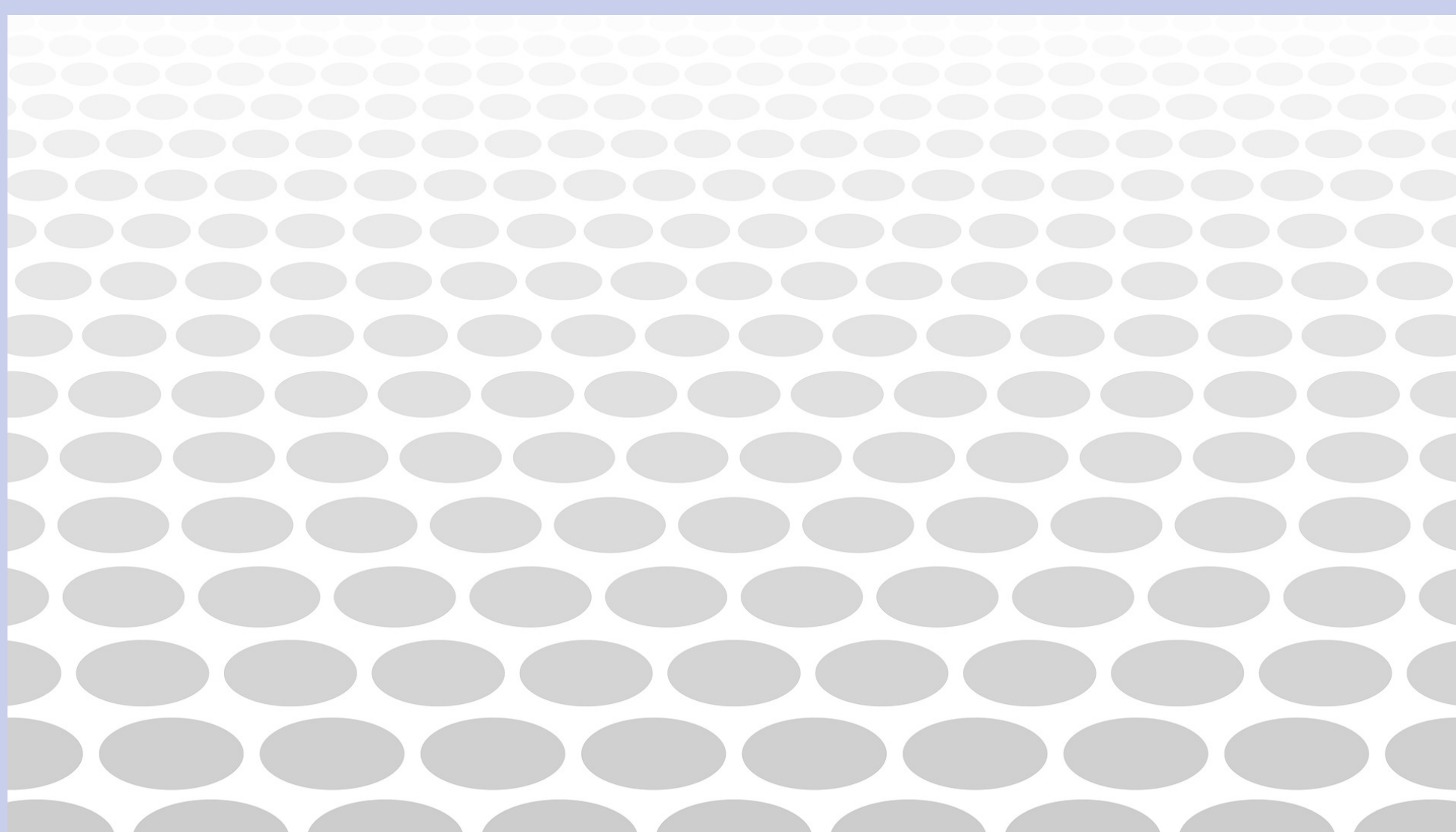
Get Involved

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.



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](#)

```
// 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](#)

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Calendar

Every Tuesday [LS2 Meeting](#)

First Tuesdays [I2P Dev Meeting](#)

Every Tuesday [Usability & Design Meeting](#)

[View Calendar of Events](#)

Blog

20th Anniversary of I2P
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

August 23, 2021 New

1.5.0 Release



Read More


```

[Previous Release Notes](#)

[Download I2P](#)

