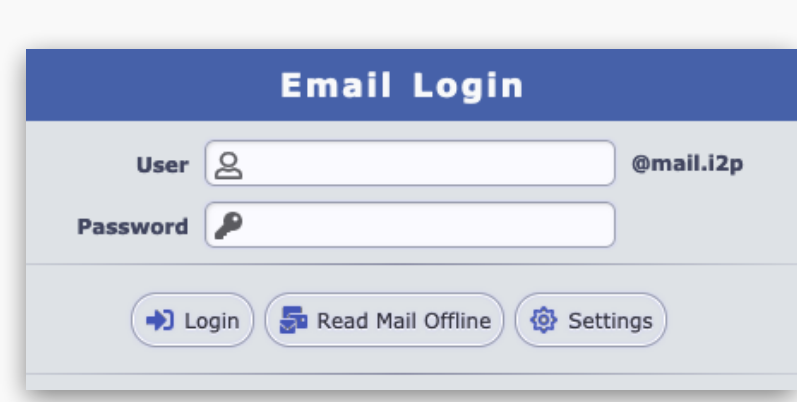


The Invisible Internet Project

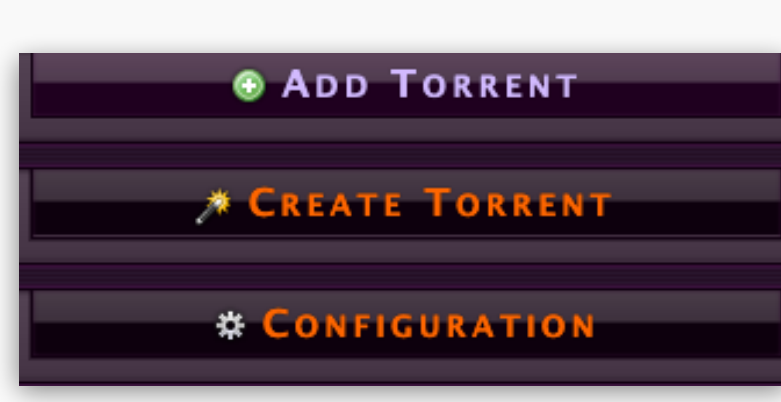
The Invisible Internet is a privacy by design, people-powered network. It is a truly free and anonymizing Internet alternative.

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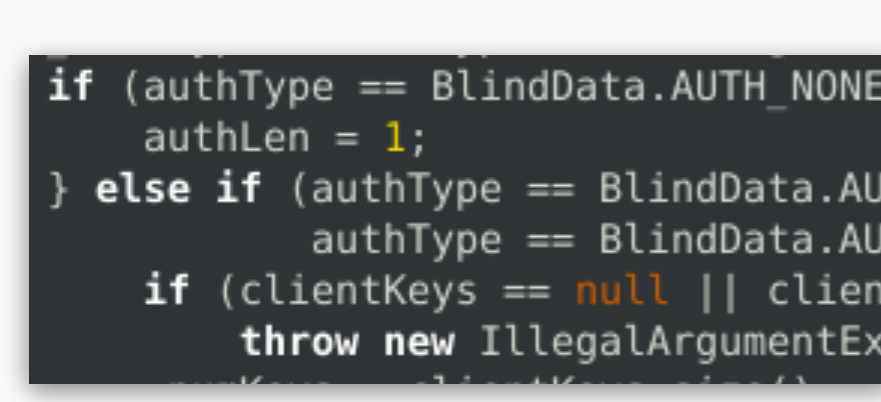
What you can do on the Invisible Internet



Email



Torrent



Create

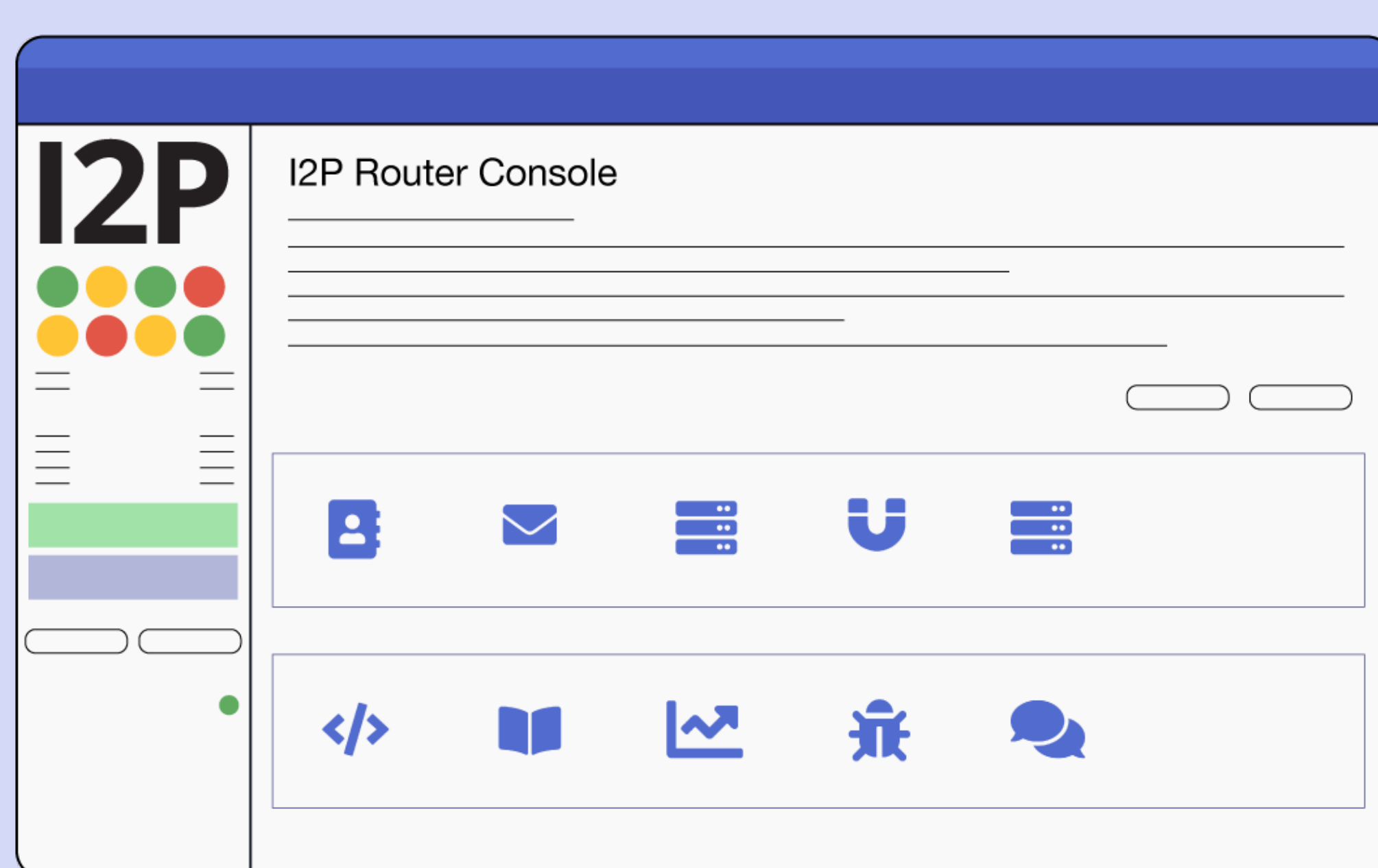
I2P Software

Your connection to the I2P Network

What is the **Invisible Internet**?

I2P is a global, distributed private network. [Learn more.](#)

Download the I2P software and join the Invisible Internet.



Get Involved

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

Become a **reseed operator** and help people join the I2P network.

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

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



I2P Developers

Create applications and contribute to ongoing I2P core development

Create your own I2P applications. Learn more in our **Documentation** for application developers.

Check out the **Developer Resources** and **Roadmap** for I2P router development.

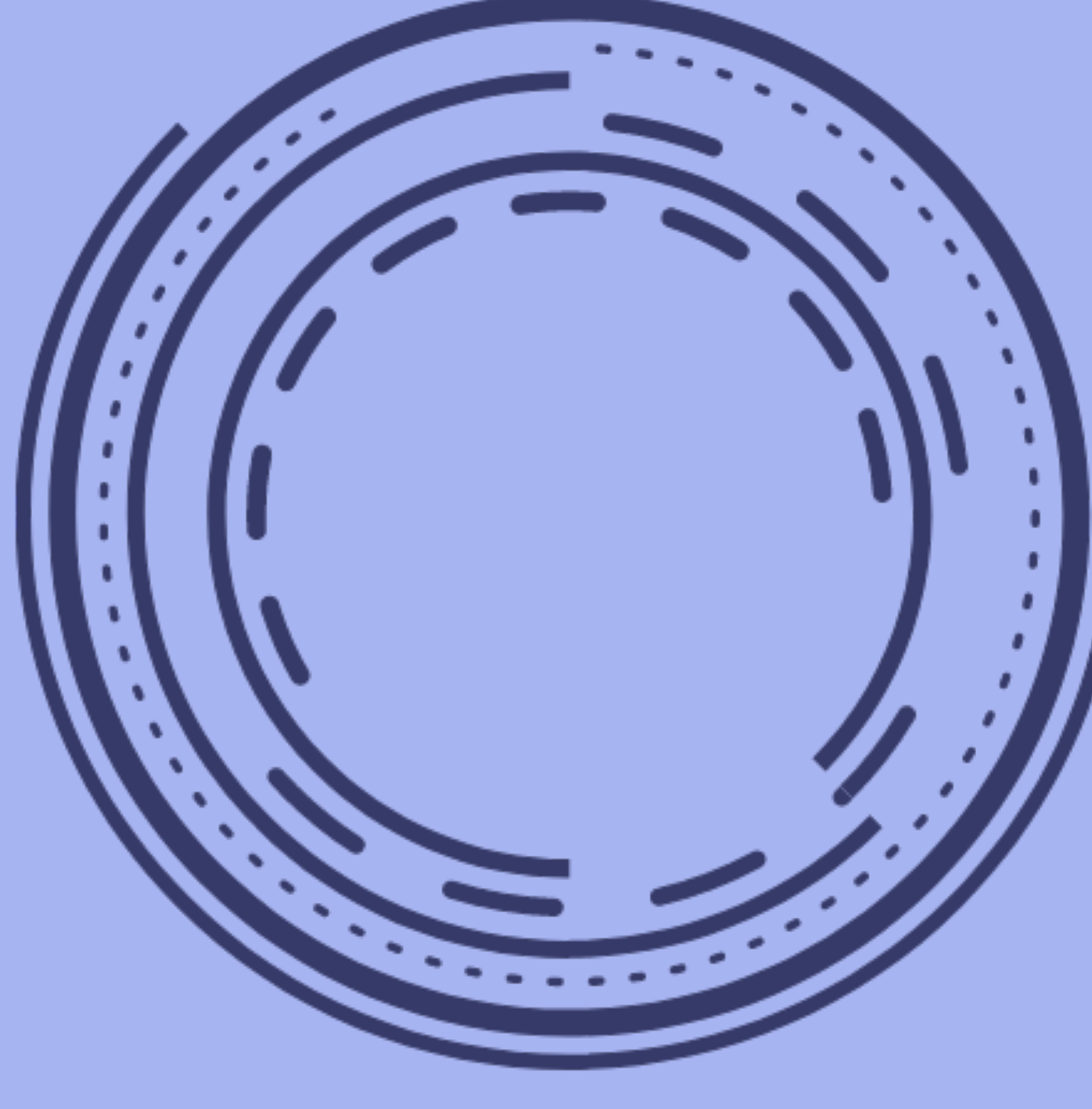
```
// layer 2 (inner) encryption
I2PAppContext ctx = I2PAppContext.getGlobalContext();
byte[] salt = new byte[SALT_LEN];
ctx.random().nextBytes(salt);
HKDF hkdf = new HKDF(ctx);
byte[] key = new byte[32];
// use first 12 bytes only
byte[] iv = new byte[32];
int authLen;
authType = authType; // debug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

I2P is a scalable, self organizing, resilient packet switched anonymous network layer. Learn more in the **Technical Documentation**.

Access the resources for metrics and open research questions in the **Research 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 Mouths set to 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

[IRC Client Configuration](#)




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

[IRC Client Configuration](#)



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

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