

**FreedomBox**



Setup

Demo: Setting up FreedomBox



Connect Power



Plug Internet Cable

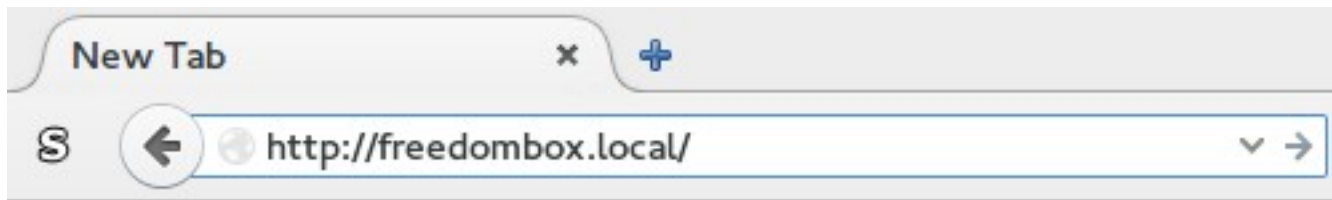


Power On

# Connect to FreedomBox Wi-Fi



In Browser: `freedombox.local`



# Step 1: Welcome Screen



## FreedomBox

Congratulations! Your FreedomBox is up and running!

Please provide the following basic information to complete the setup process.

Next



# Step 2: Create Account

## Administrator Account

Choose a username and password to access this web interface. The password can be changed and other users can be added later. An LDAP user with administrative privileges (sudo) is also created.

**Username**

Required. 30 characters or fewer. Letters, digits and @/./+/-/\_ only.


**Password**





**Password confirmation**


Enter the same password as above, for verification.

Box It up!

# Step 3: Done

 FreedomBox

   admin  Log out




User account created, you are now logged in 


## Setup Complete!



FreedomBox setup is now complete. However, you should check the network setup and modify it if necessary. Do not forget to change the default Wi-Fi passwords.

To make your FreedomBox functional, you need some applications. Applications will be installed the first time you access them.

### Network Configuration



**External**  
 FreedomBox WAN (eth0)

**Internal**  
 FreedomBox wlan0 (wlan0)  
 FreedomBox LAN ens9 (ens9)

Go to Networks

Go to Apps

Hardware

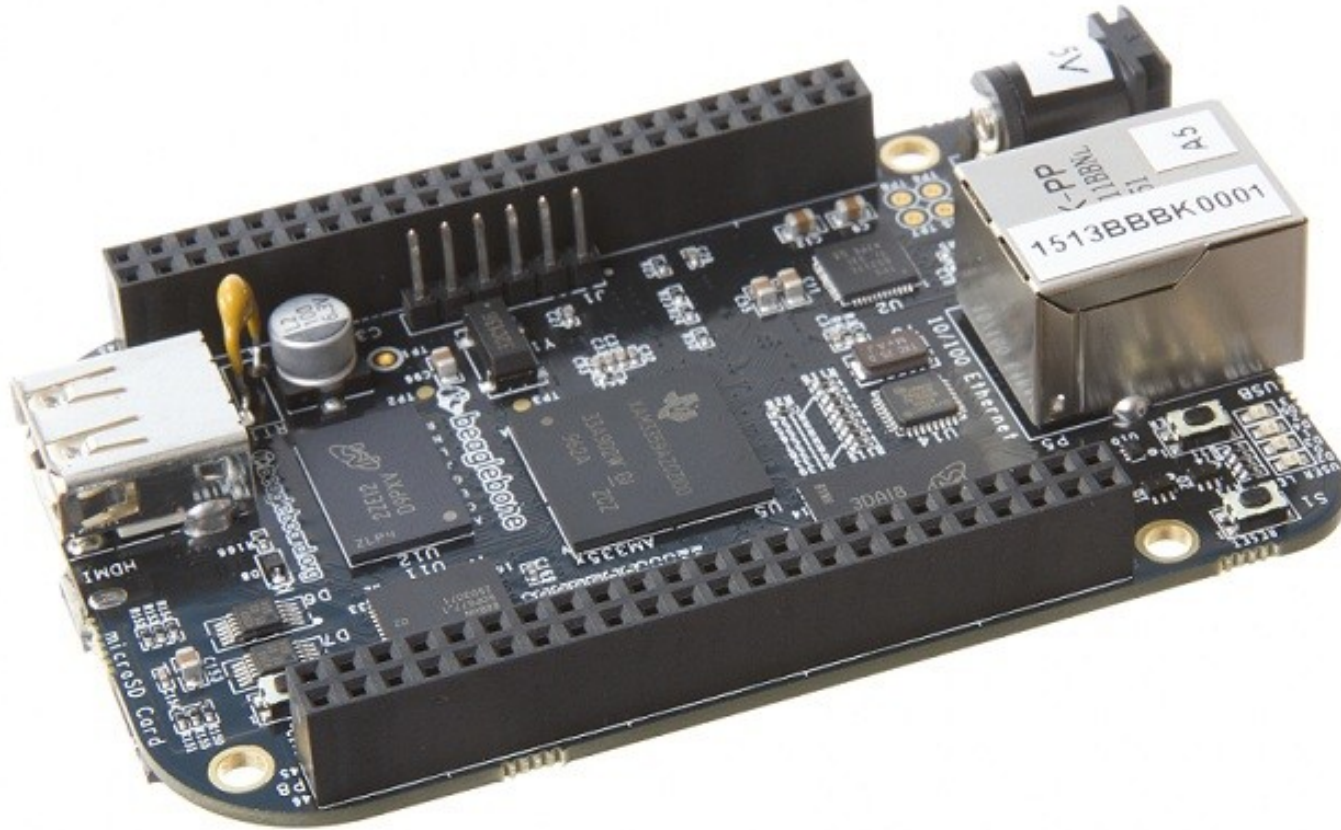
# Cubietruck



Free Software

Free Firmware

# BeagleBone Black



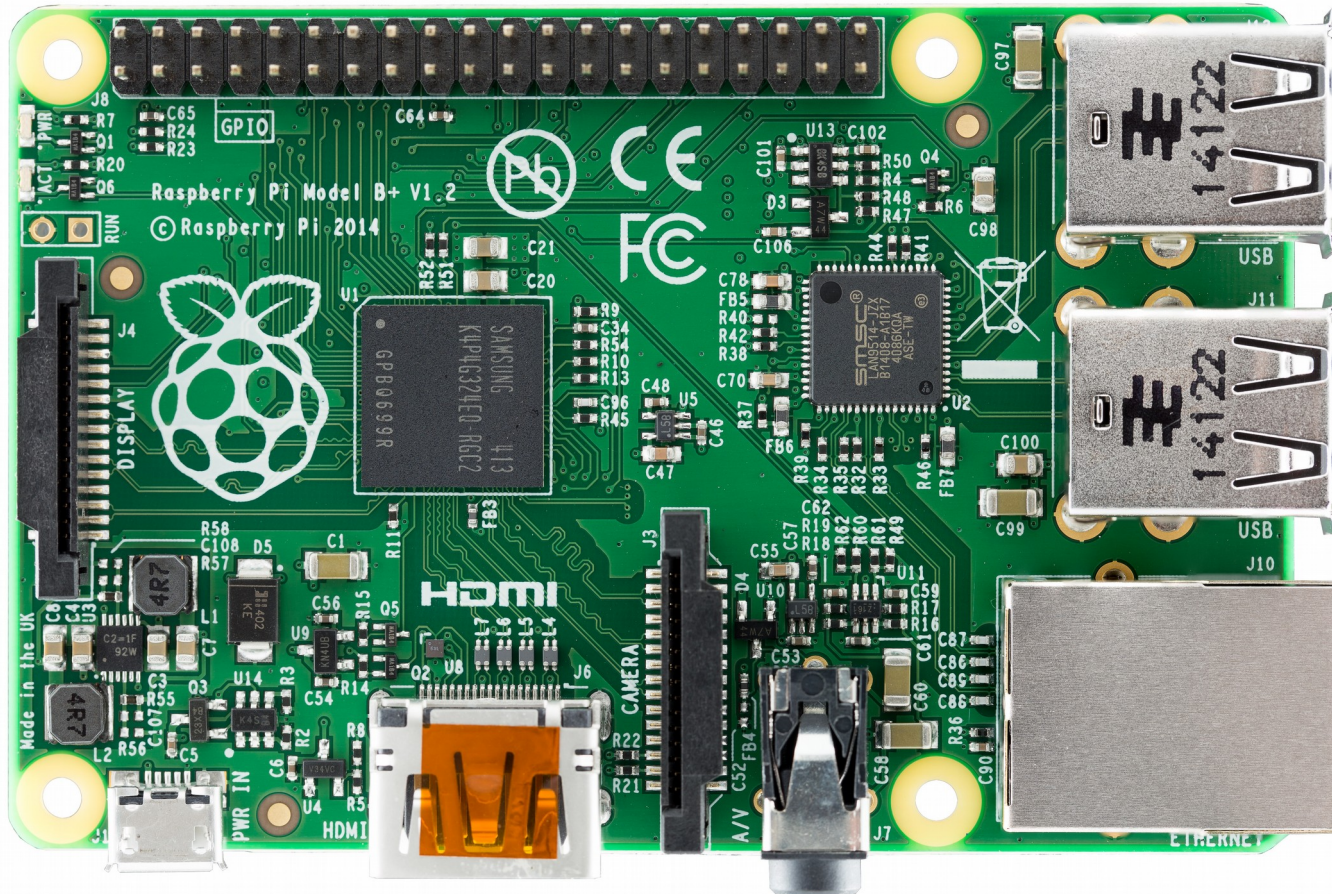
Open Source Hardware

# Dreamplug



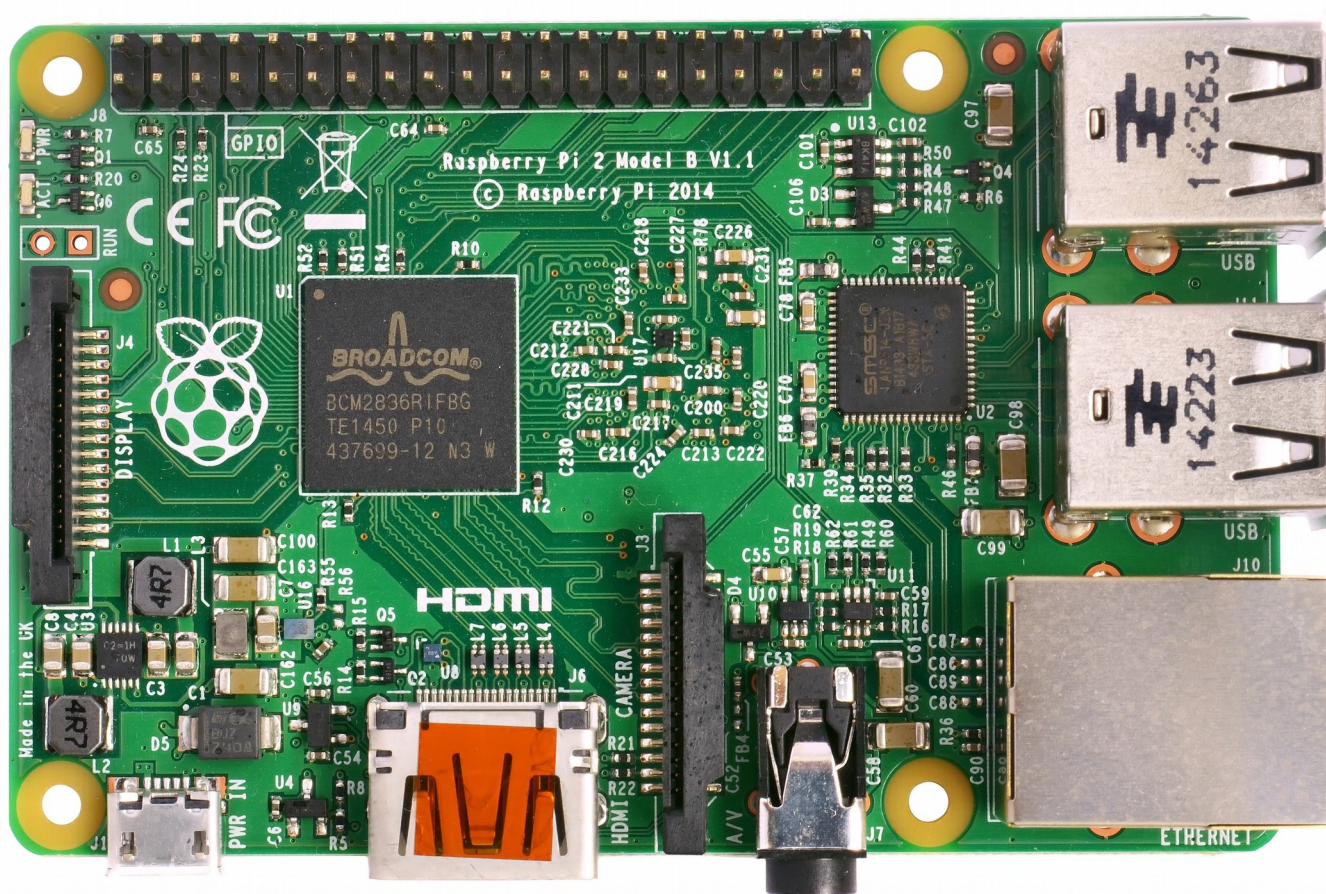


# Raspberry Pi





# Raspberry Pi 2




















# Installing Applications


# Installing an App


 FreedomBox


   admin  Log out


 Anonymity Network (Tor)


 BitTorrent (Deluge)


 BitTorrent (Transmission)


 Bookmarks (Shaarli)


 Chat Server (XMPP)


 Dynamic DNS


 Email Client (Roundcube)

 File Hosting (ownCloud)

 Public Visibility (PageKite)

 Voice Chat (Mumble)

 Web Proxy (Privoxy)

 Wiki & Blog (Ikiwiki)


## Installation





This feature requires additional packages to be installed. Do you wish to install them?


Package	Summary
privoxy	Privacy enhancing HTTP Proxy


Install


# Installing an App


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## Installation


Installing privoxy: download





# Installing an App


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 Web Proxy (Privoxy)

 Wiki & Blog (Ikiwiki)

Installed and configured packages successfully

## Web Proxy (Privoxy)

Privoxy is a non-caching web proxy with advanced filtering capabilities for enhancing privacy, modifying web page data and HTTP headers, controlling access, and removing ads and other obnoxious Internet junk.

You can use Privoxy by modifying your browser proxy settings to your FreedomBox hostname (or IP address) with port 8118. While using Privoxy, you can see its configuration details and documentation at <http://config.privoxy.org/> or <http://p.p>

### Status

● Privoxy is running

Run Diagnostics

### Configuration

☒ Enable Privoxy

Update setup

Browse with Enhanced Privacy

Privoxy

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&gt;

**Halloween costumes for the whole family | ▶**

Buzz60

@dadcamp/Twitter

**YOU COULD SAVE**  
**\$548**  
by switching to Progressive

That's like a month of coffee.  
**Very fancy coffee.**

Zip Code

**Get a Quote**

AdChoices

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Halloween costumes for the whole family | ▶

Buzz60

@dadcamp/Twitter

**Duchess Kate stuns in tiara  
for state dinner**

Wonderwall

**Tiger Woods says recovery  
will be 'long and tedious'**

Associated Press

**Khloe Kardashian breaks  
silence on Lamar Odom**

Wonderwall

NEW YORK &gt;

WED 21



72°

59°

THU 22



72°

53°

FRI 23



63°

44°

Change

**Startling facts about classic  
horror movies**

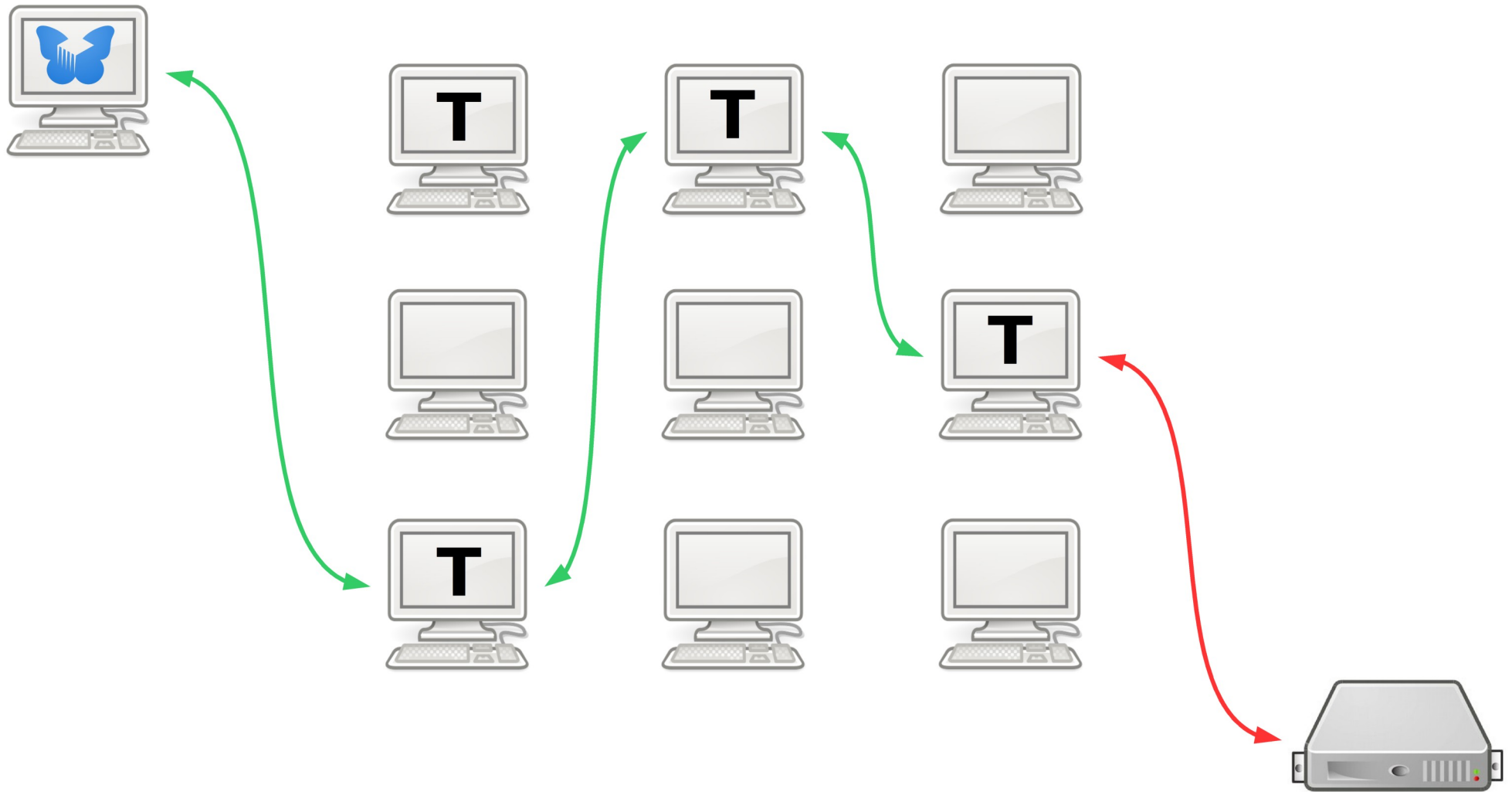
BuzzFeed

**Mormon leader: Kentucky  
clerk taking wrong approach  
on gays**

Associated Press

Tor

# Tor





# 176.9.25.72



Hostname	r1.apx.pub
----------	------------

Network	AS24940 Hetzner Online GmbH
---------	-----------------------------

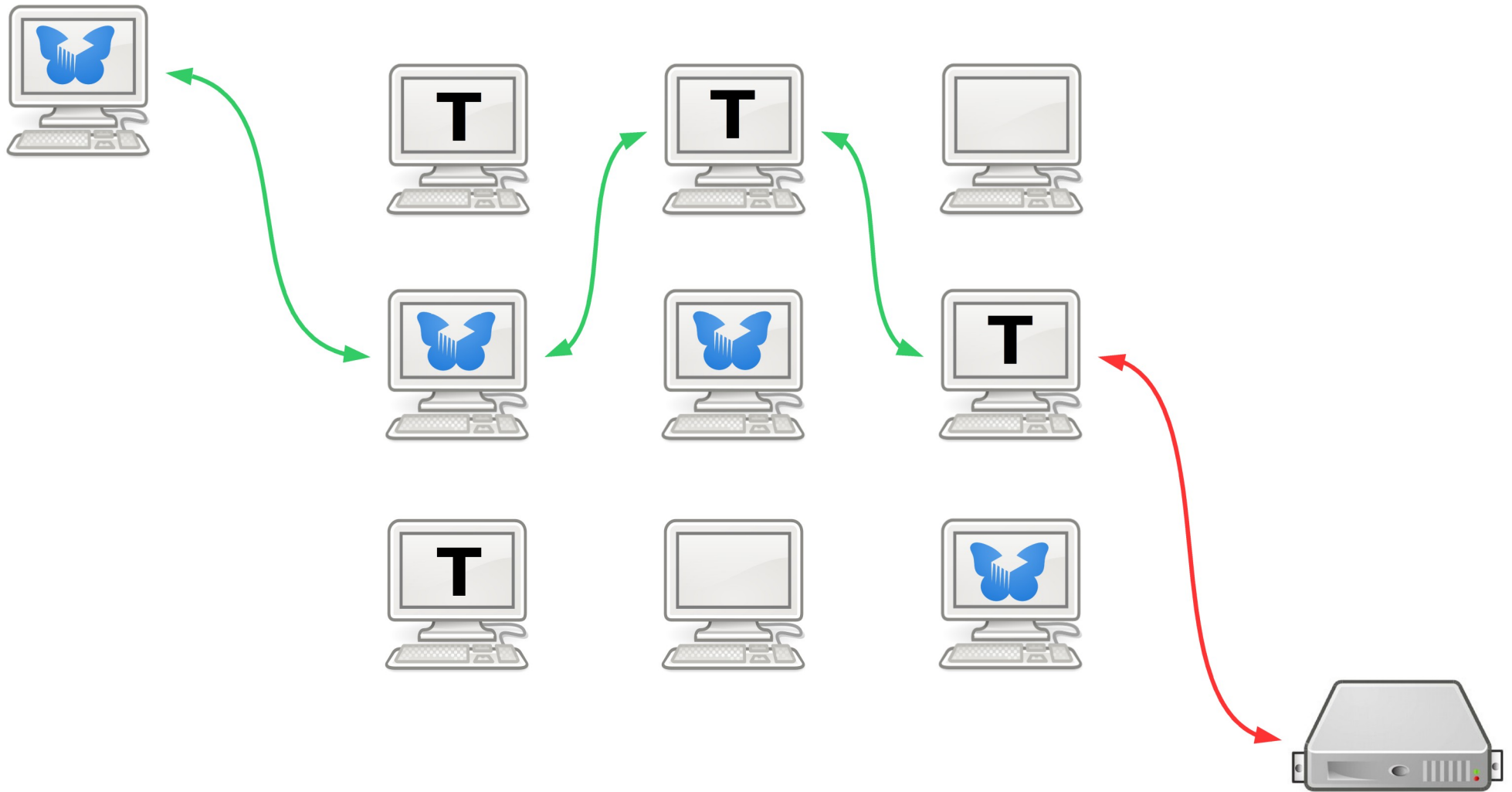
City	 Germany
------	---

Latitude/Longitude	51.0000,9.0000
--------------------	----------------

## Try the JSON API from the command line

```
$ curl ipinfo.io
{
  "ip": "176.9.25.72",
  "hostname": "r1.apx.pub",
```

# FreedomBox as Tor Node

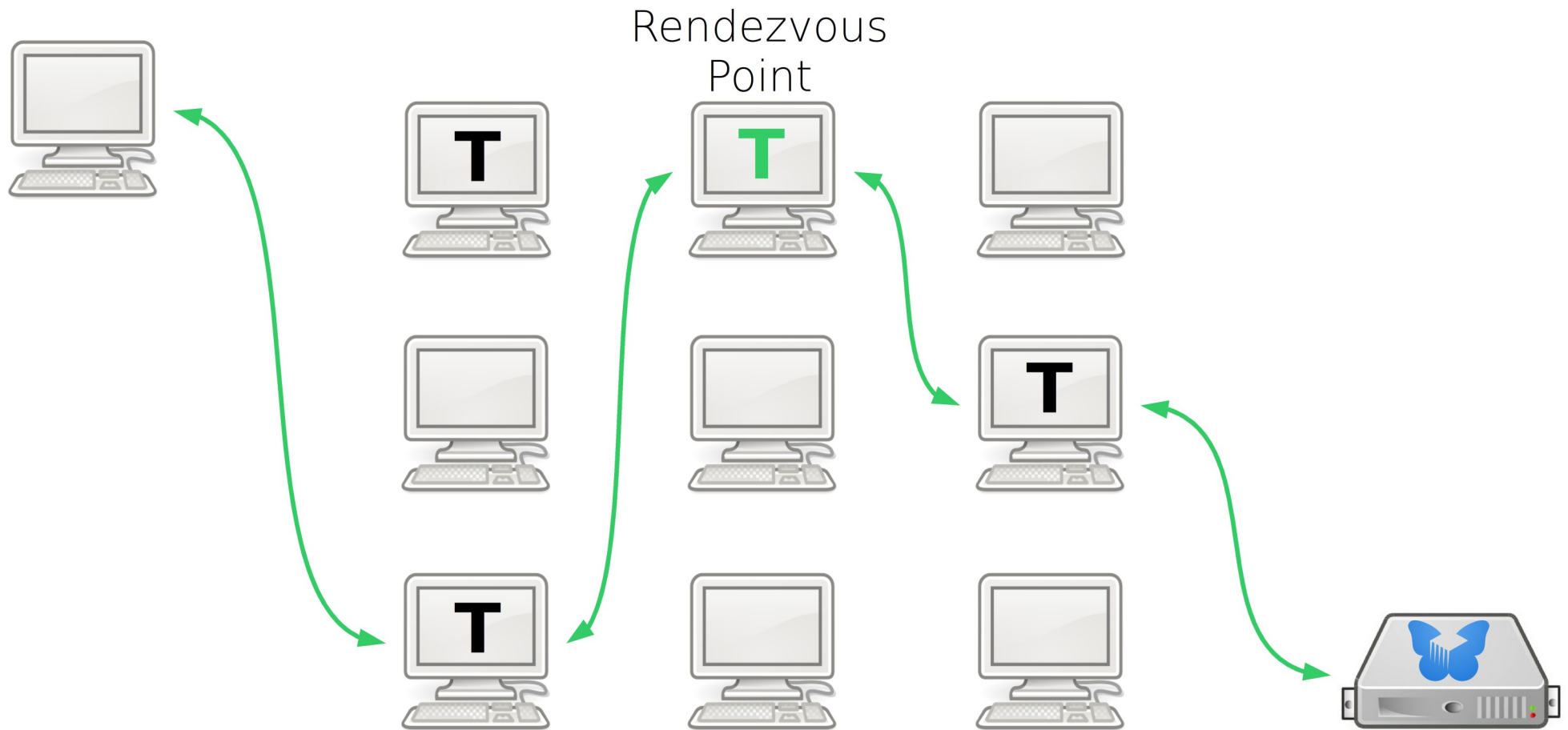




# Instant Messaging Over Tor

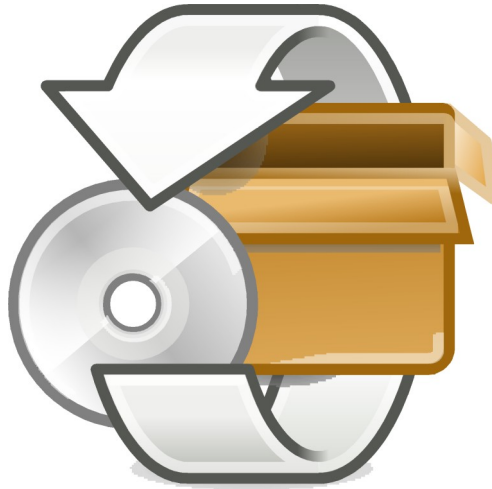
IRC Over Tor

# Hidden Services



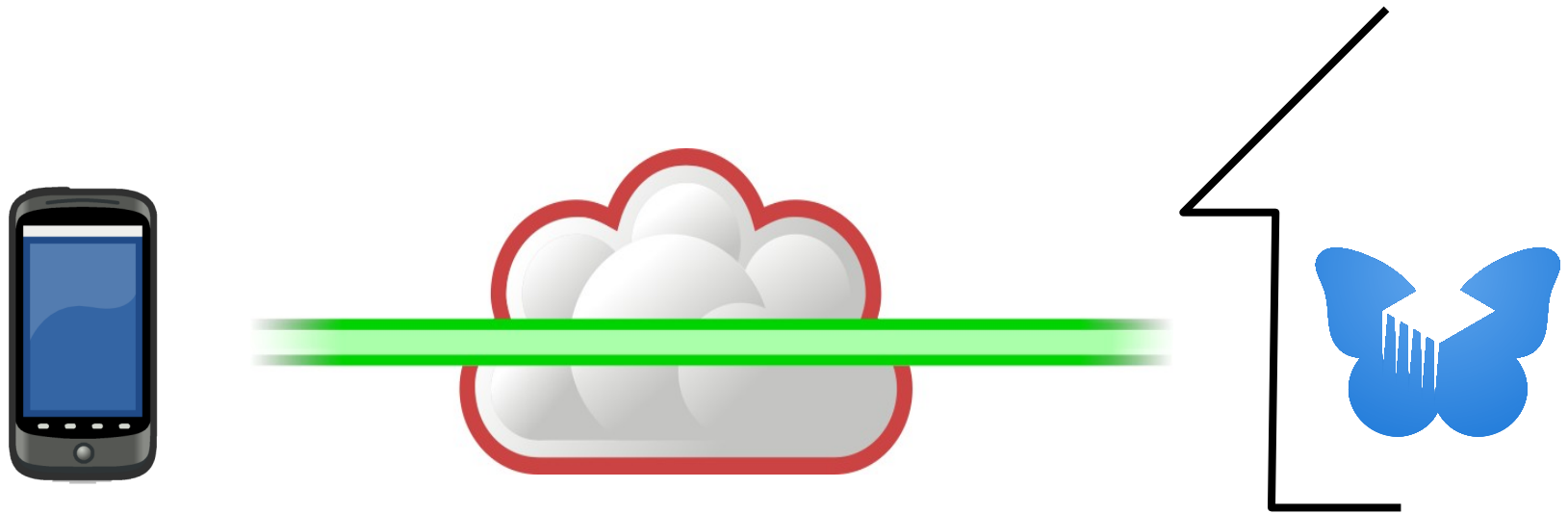
A Hidden Wiki

# Apps & Updates Over Tor



VPN

# A Secure Tunnel to Home



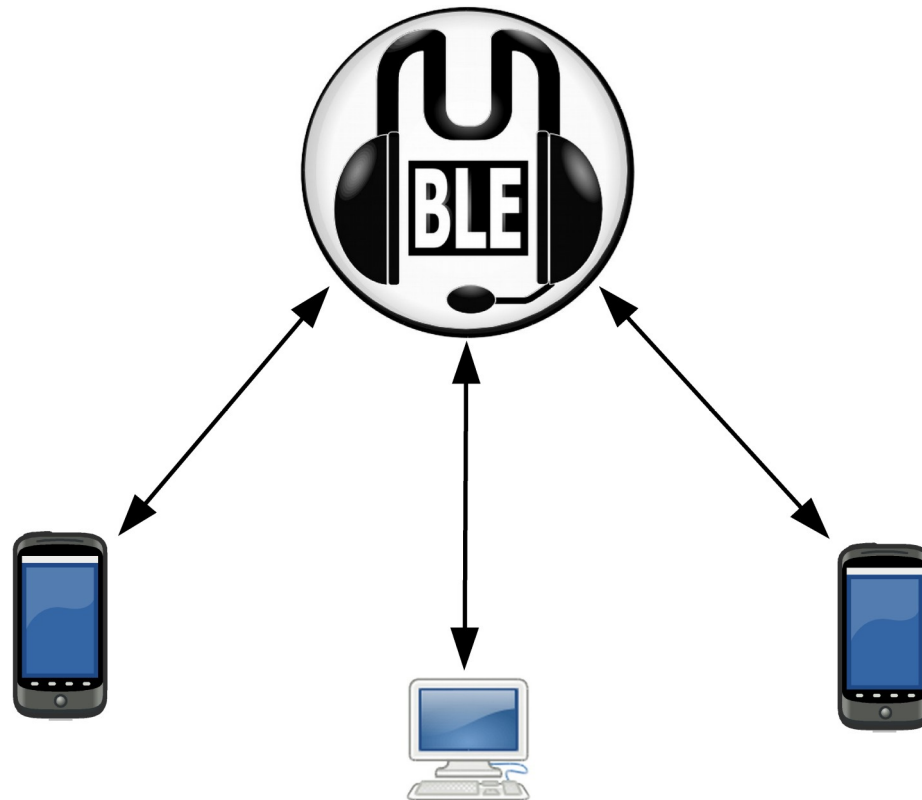
# Group Audio Calls



Mumble



# VOIP Calls

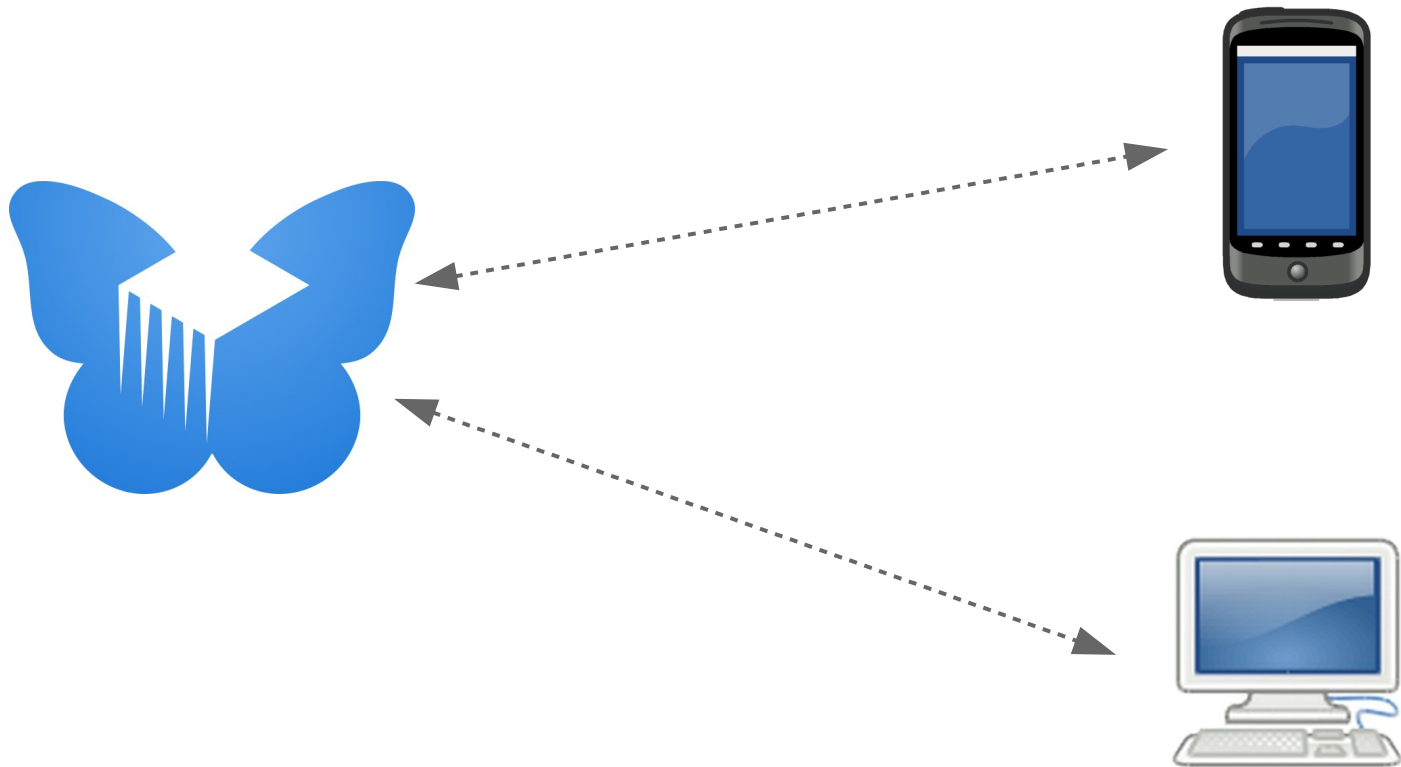


Hello!

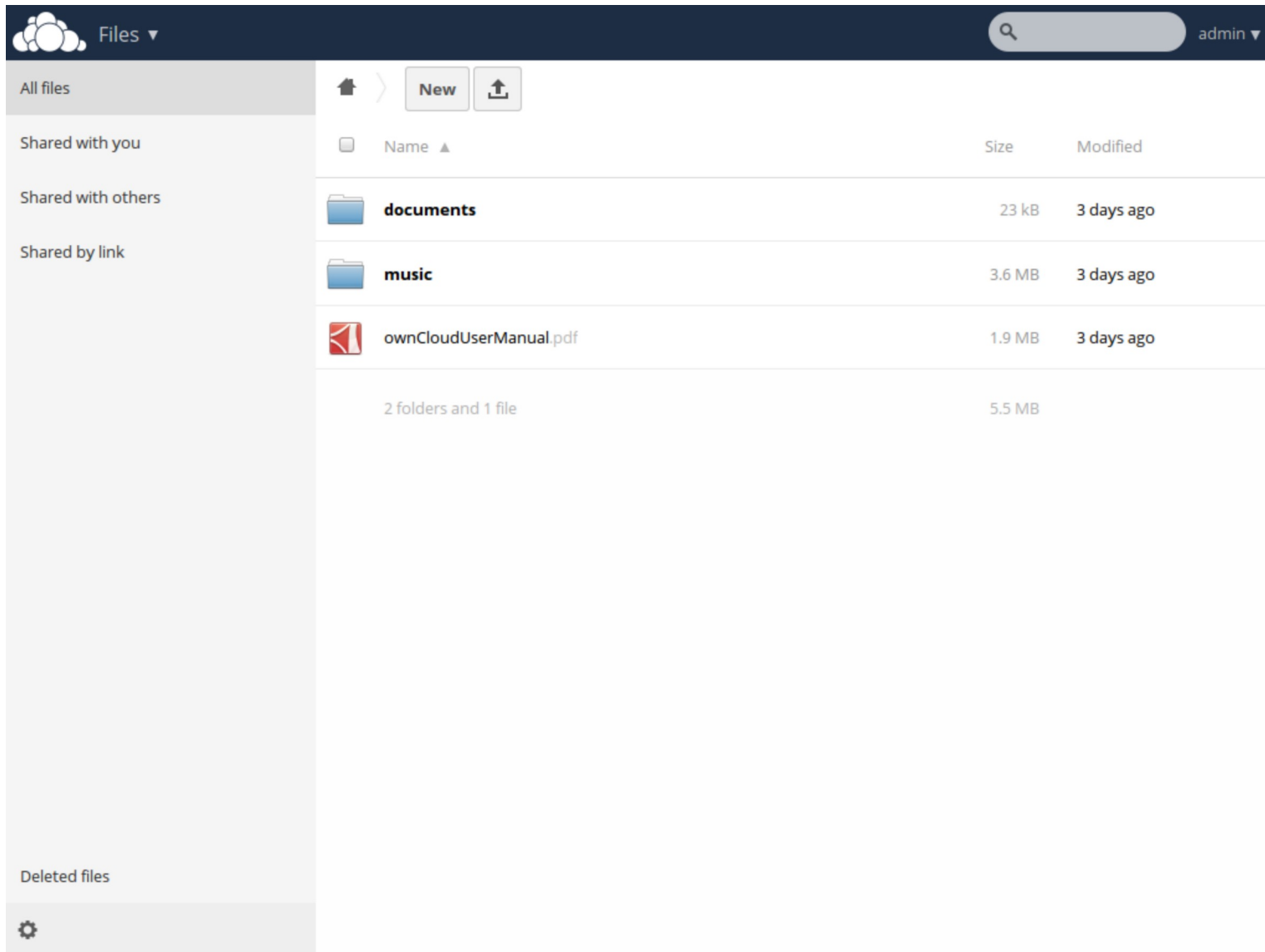







# Sync with Any Device



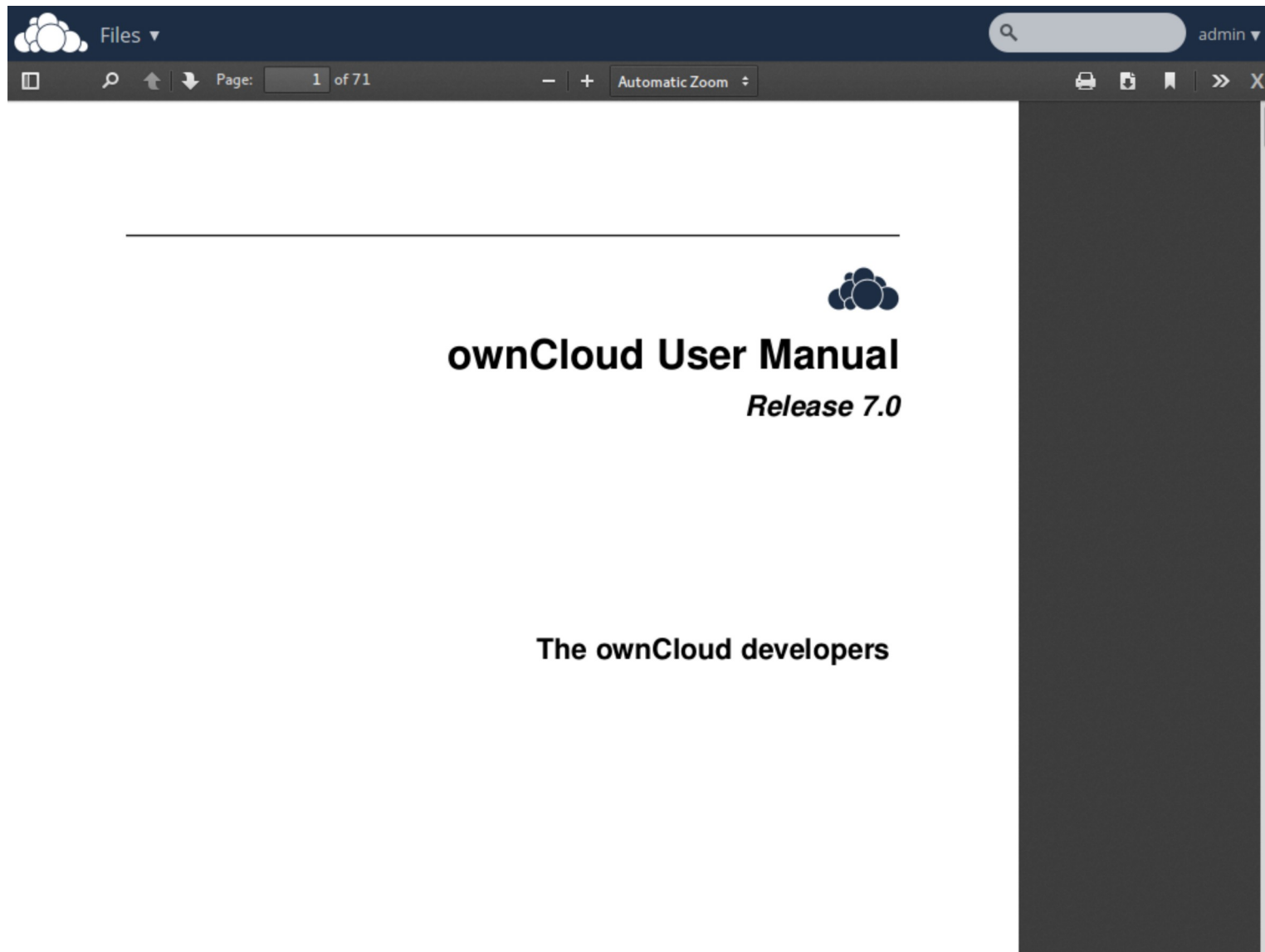
# ownCloud – Files



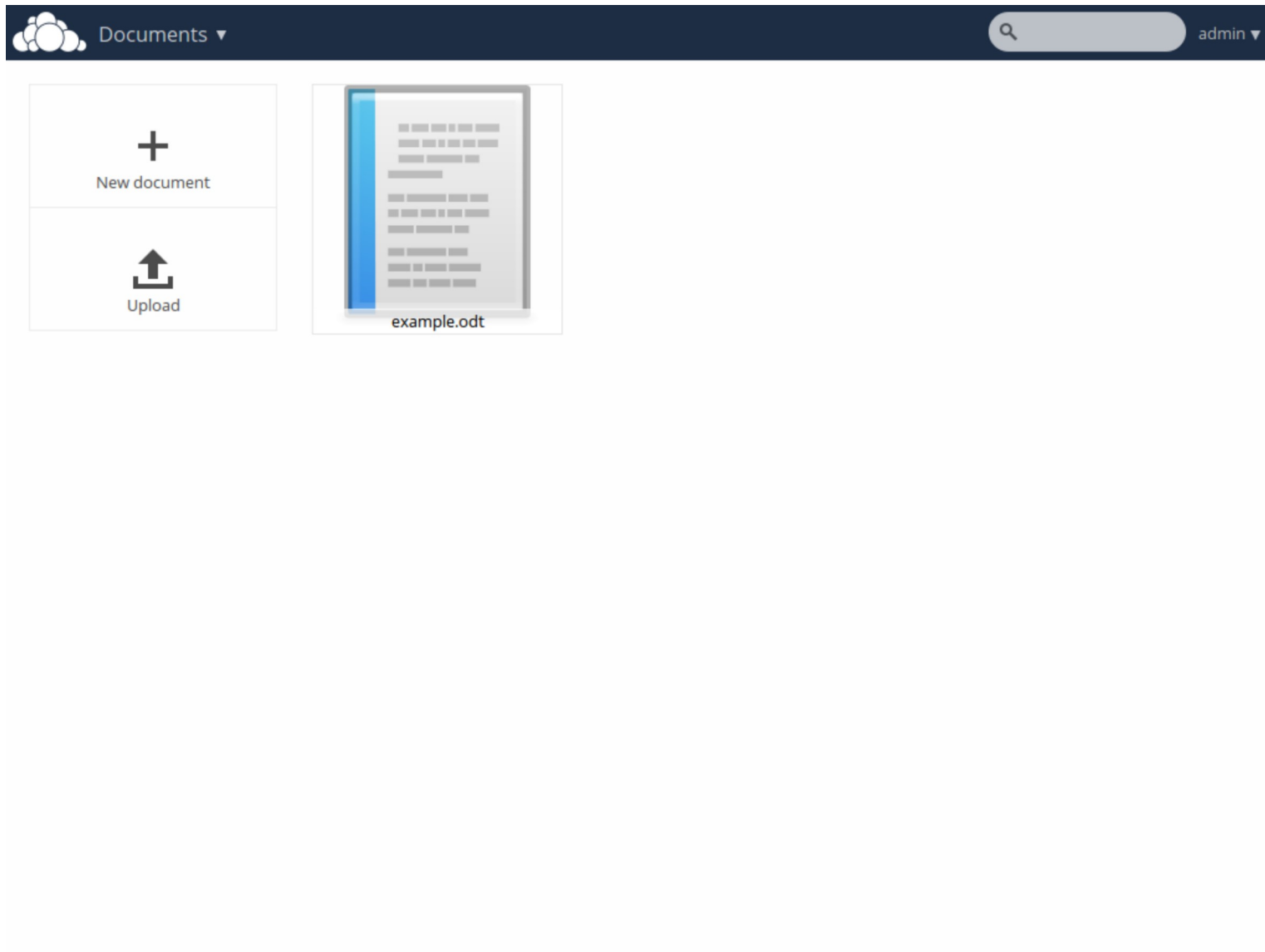
The screenshot displays the ownCloud Files web interface. On the left is a sidebar with navigation links: "All files", "Shared with you", "Shared with others", "Shared by link", and "Deleted files". At the bottom of the sidebar is a gear icon for settings. The top header bar is dark blue, featuring the ownCloud logo, the text "Files" with a dropdown arrow, a search bar, and the user name "admin" with a dropdown arrow. The main content area has a top bar with a home icon, a breadcrumb, a "New" button, and an upload icon. Below this is a table listing files and folders. The table has columns for "Name", "Size", and "Modified". The listed items are a folder named "documents" (23 kB, 3 days ago), a folder named "music" (3.6 MB, 3 days ago), and a file named "ownCloudUserManual.pdf" (1.9 MB, 3 days ago). A summary row at the bottom indicates "2 folders and 1 file" with a total size of "5.5 MB".

Name ▲	Size	Modified
 <b>documents</b>	23 kB	3 days ago
 <b>music</b>	3.6 MB	3 days ago
 ownCloudUserManual.pdf	1.9 MB	3 days ago
2 folders and 1 file		5.5 MB

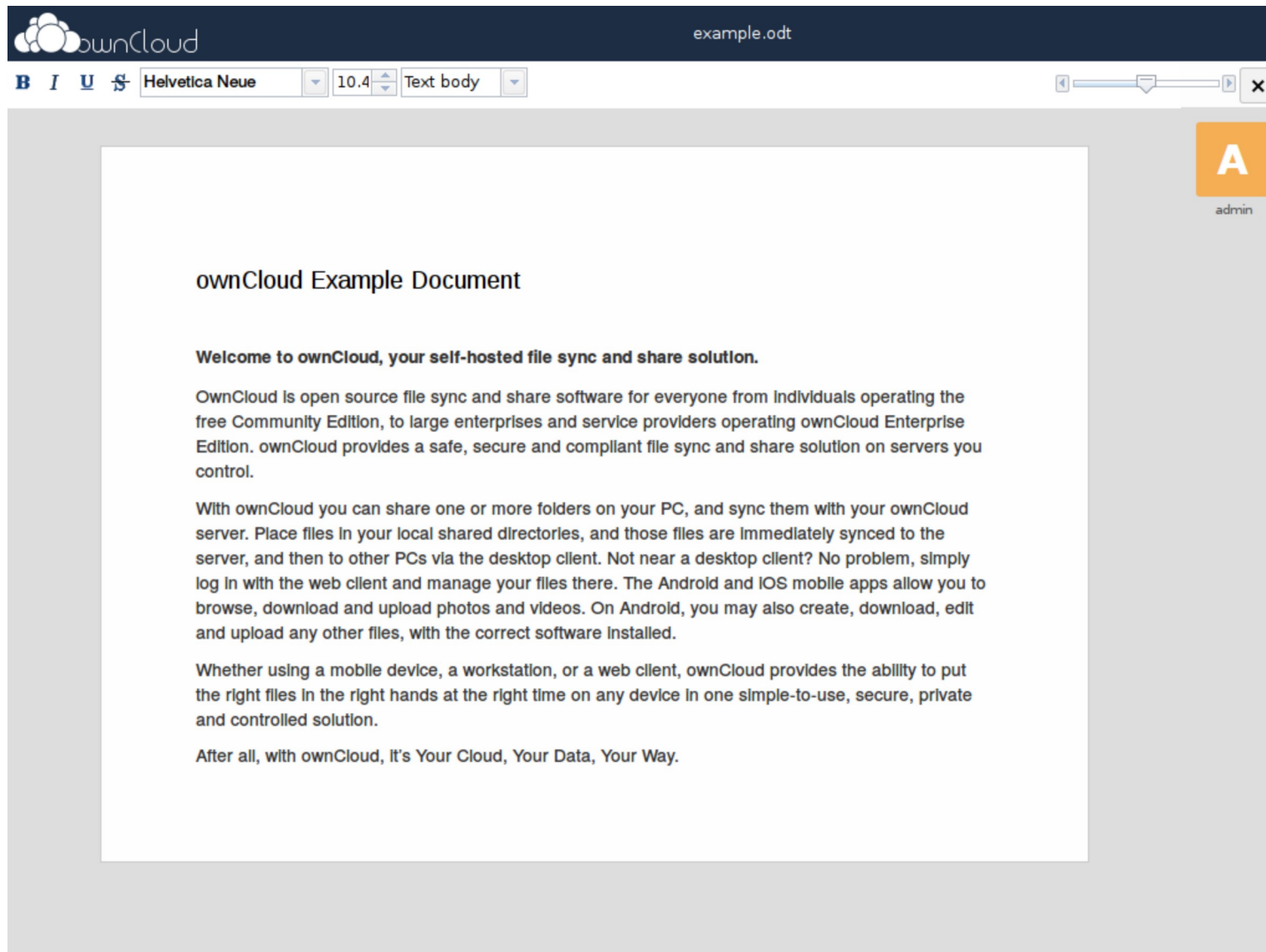
# ownCloud – Files



# ownCloud – Documents




# ownCloud – Documents



The screenshot displays the ownCloud web interface for editing a document titled 'example.odt'. The top navigation bar is dark blue, featuring the ownCloud logo on the left and the document name on the right. Below this, a toolbar contains standard text formatting options: bold (B), italic (I), underline (U), and strikethrough (ABC), followed by a font face dropdown set to 'Helvetica Neue', a font size dropdown set to '10.4', and a text style dropdown set to 'Text body'. A horizontal scrollbar is visible to the right of the toolbar. The main editing area is a large white rectangle centered on a light gray background. In the top right corner of this area, there is an orange square icon with a white letter 'A' and the text 'admin' underneath it. The document content begins with the title 'ownCloud Example Document' in bold. This is followed by a bolded paragraph: 'Welcome to ownCloud, your self-hosted file sync and share solution.' The next paragraph describes ownCloud as open source file sync and share software for everyone, from individuals to large enterprises. The following paragraph details how files are synced from a PC to the server and then to other devices. The next paragraph states that ownCloud provides the ability to put files in the right hands at the right time on any device. The final paragraph concludes with 'After all, with ownCloud, it's Your Cloud, Your Data, Your Way.'

ownCloud

example.odt

**B I U**  Helvetica Neue 10.4 Text body

**A**  
admin

## ownCloud Example Document

**Welcome to ownCloud, your self-hosted file sync and share solution.**

OwnCloud is open source file sync and share software for everyone from individuals operating the free Community Edition, to large enterprises and service providers operating ownCloud Enterprise Edition. ownCloud provides a safe, secure and compliant file sync and share solution on servers you control.

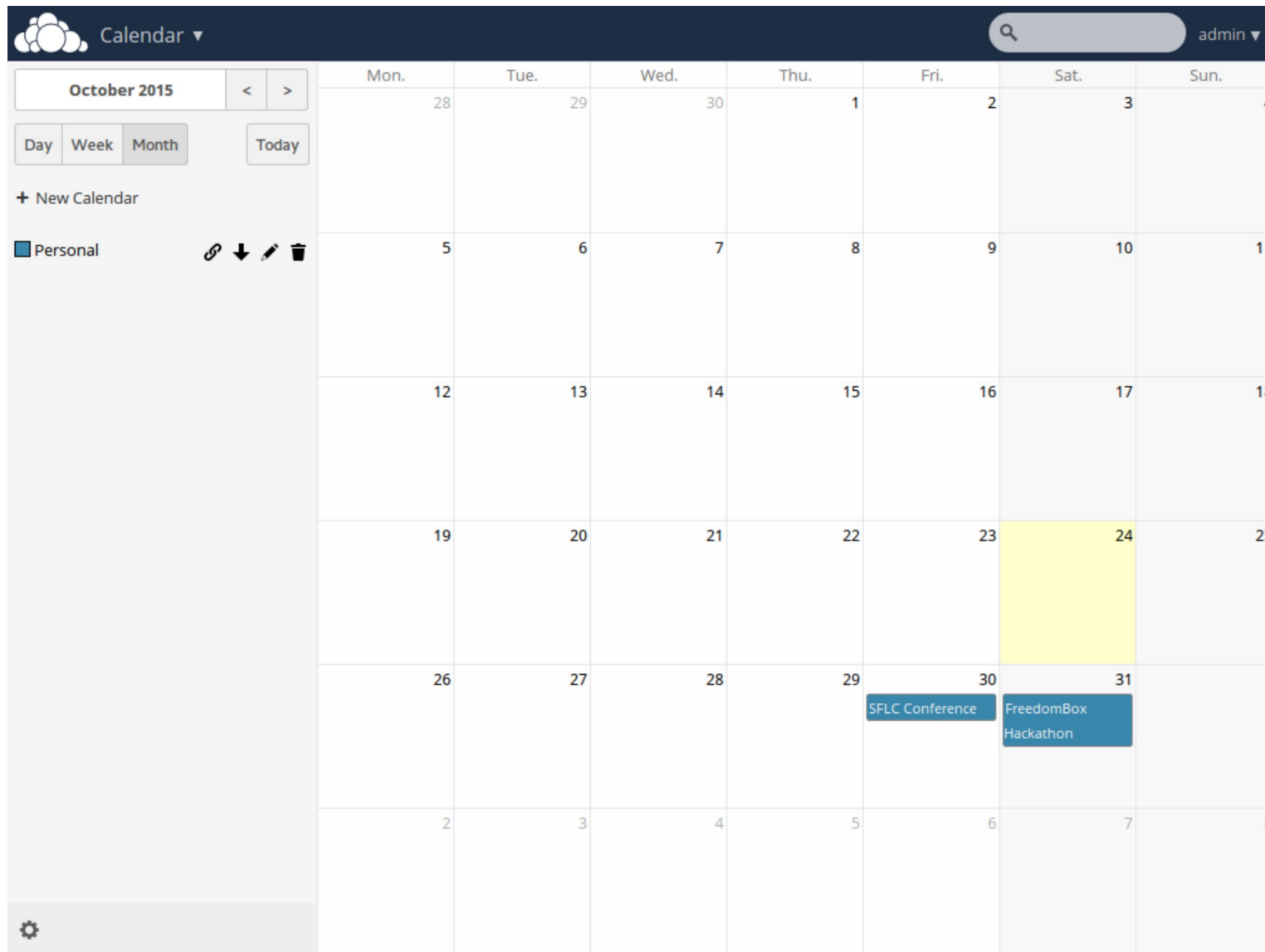
With ownCloud you can share one or more folders on your PC, and sync them with your ownCloud server. Place files in your local shared directories, and those files are immediately synced to the server, and then to other PCs via the desktop client. Not near a desktop client? No problem, simply log in with the web client and manage your files there. The Android and iOS mobile apps allow you to browse, download and upload photos and videos. On Android, you may also create, download, edit and upload any other files, with the correct software installed.

Whether using a mobile device, a workstation, or a web client, ownCloud provides the ability to put the right files in the right hands at the right time on any device in one simple-to-use, secure, private and controlled solution.

After all, with ownCloud, it's Your Cloud, Your Data, Your Way.

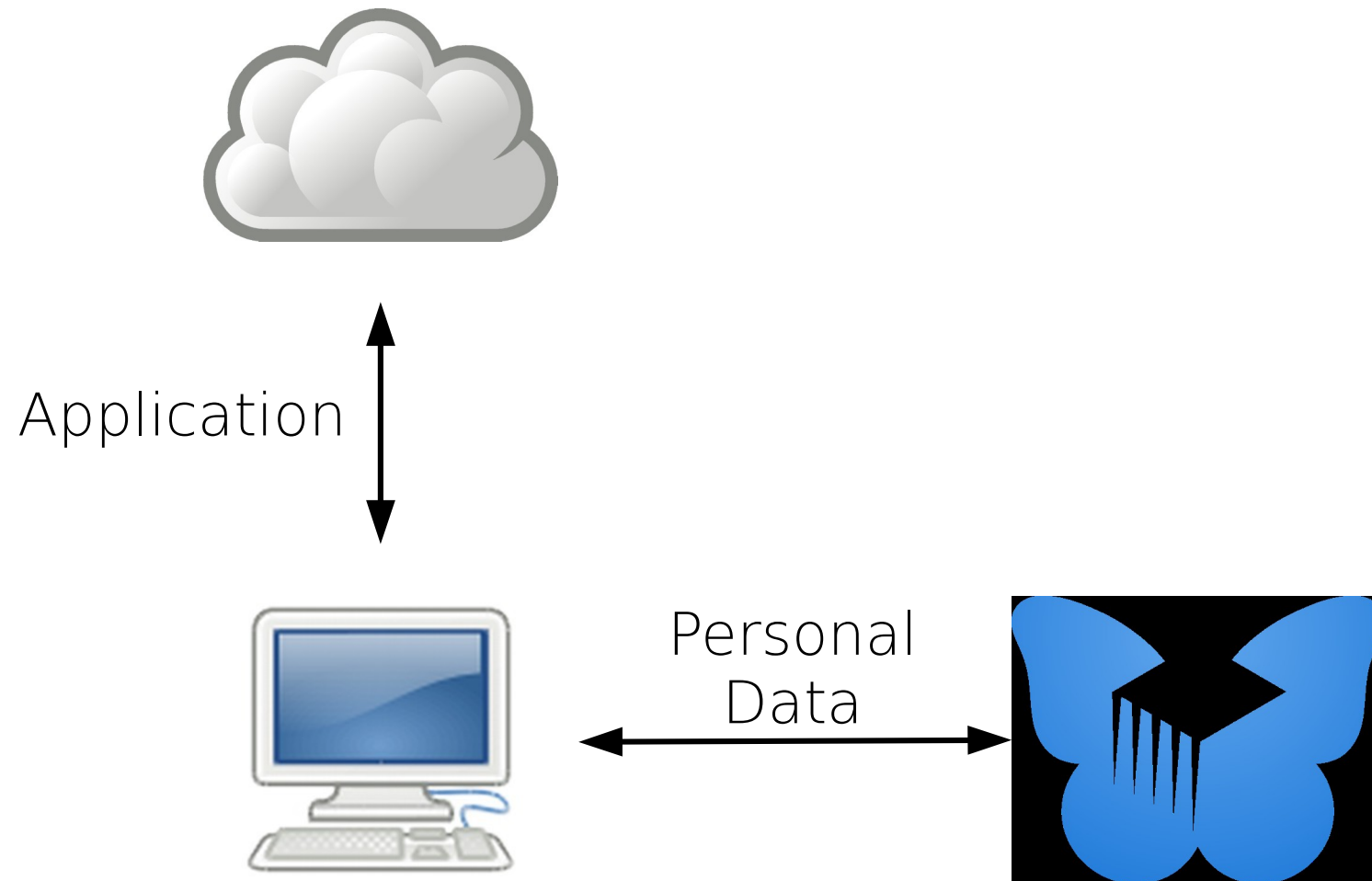


# ownCloud – Calender



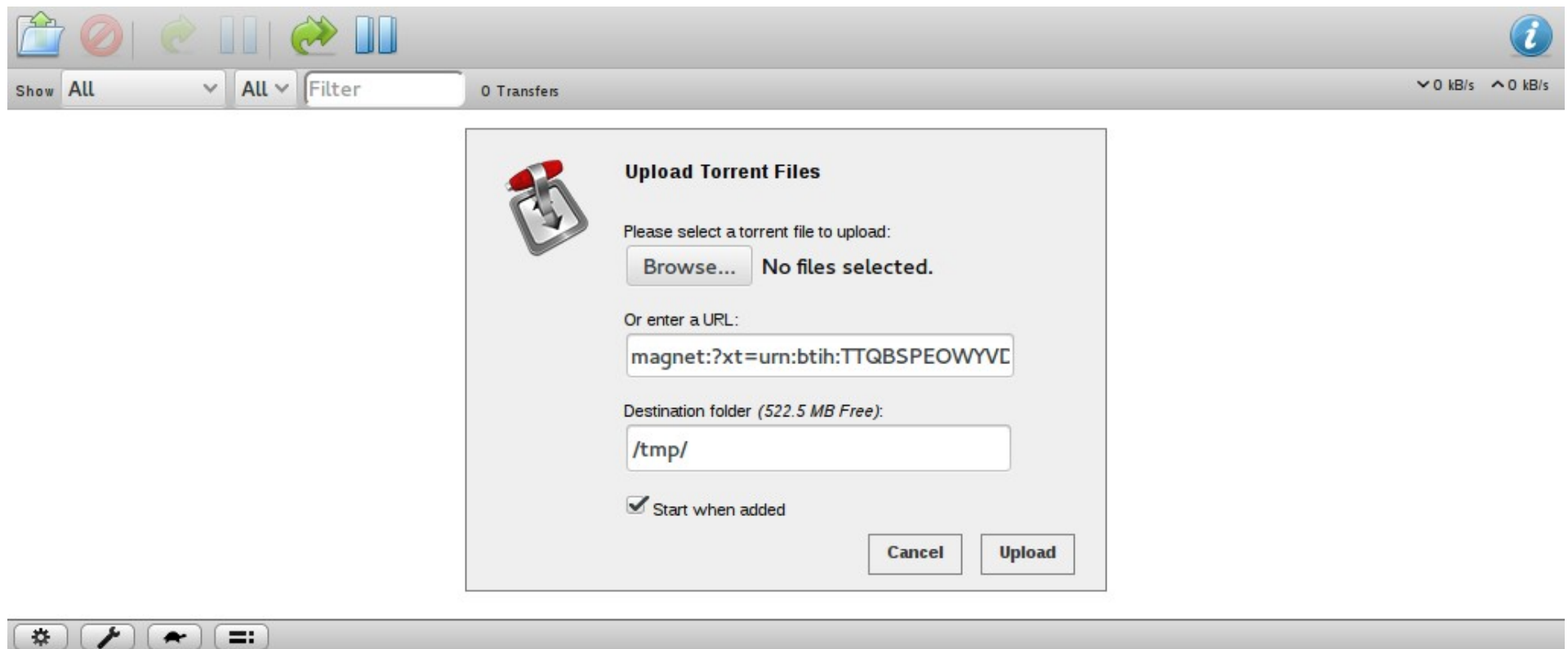
Remote Storage

# Remote Storage

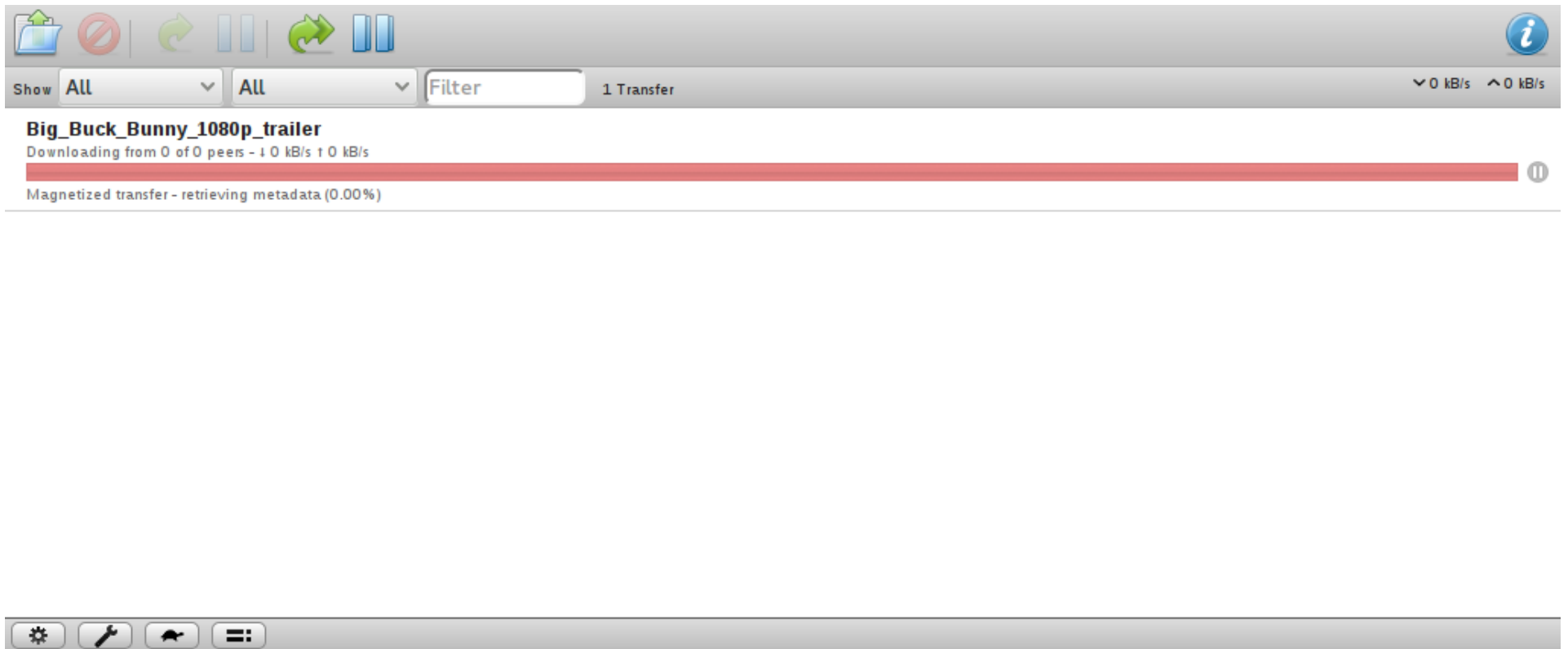


BitTorrent

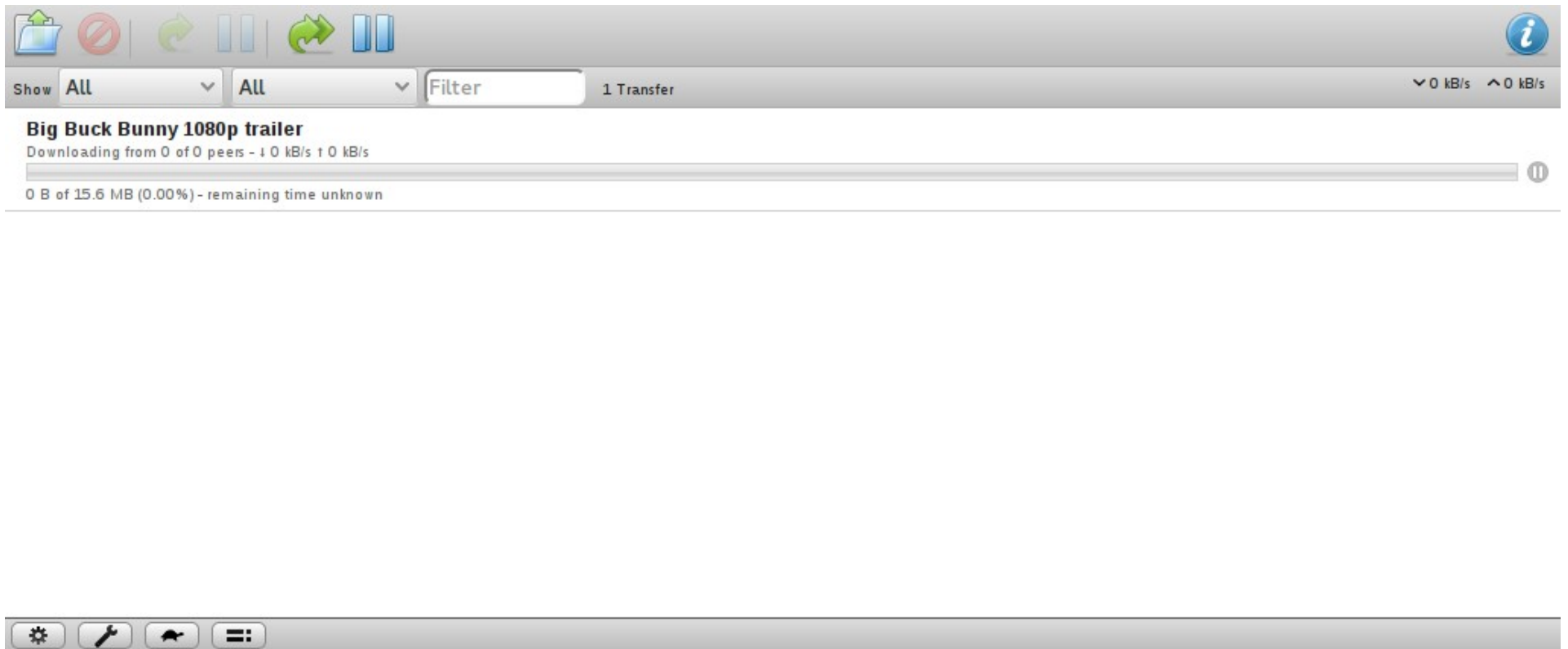
# BitTorrent



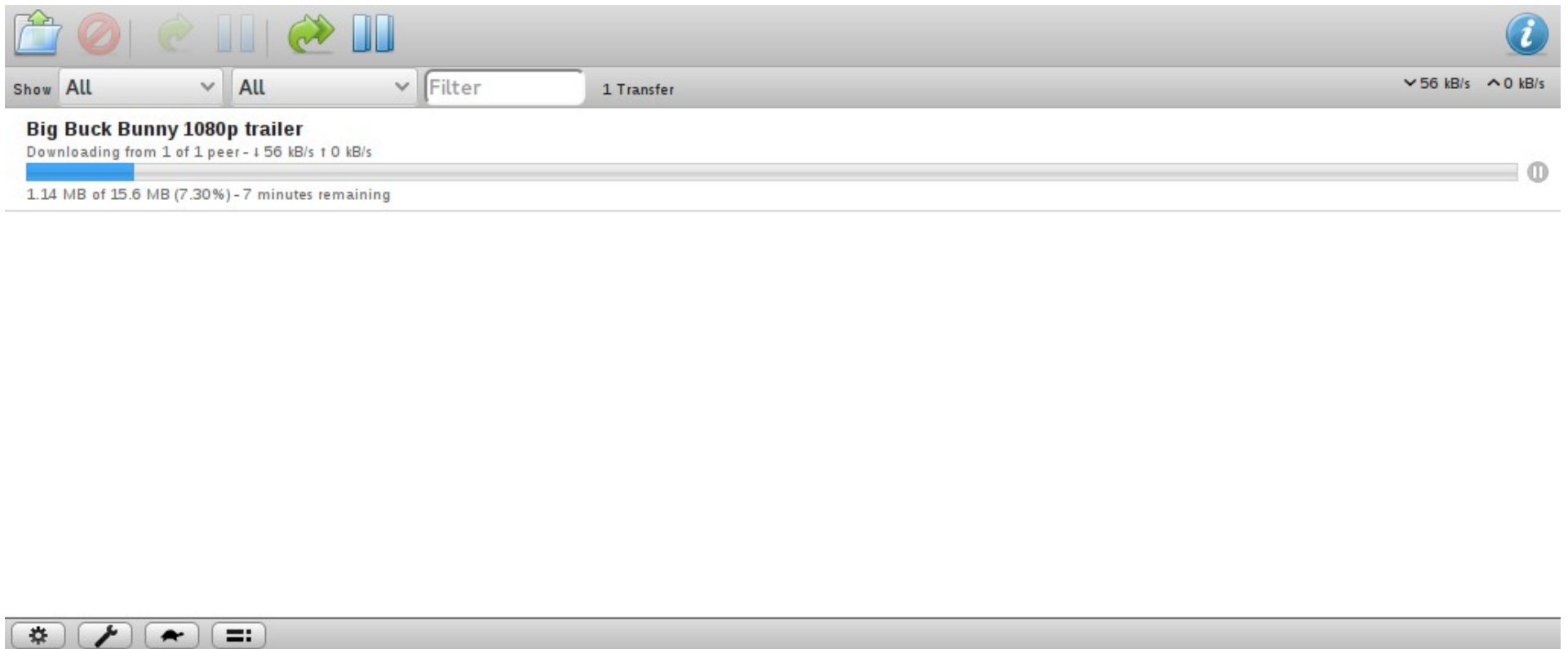
# BitTorrent



# BitTorrent

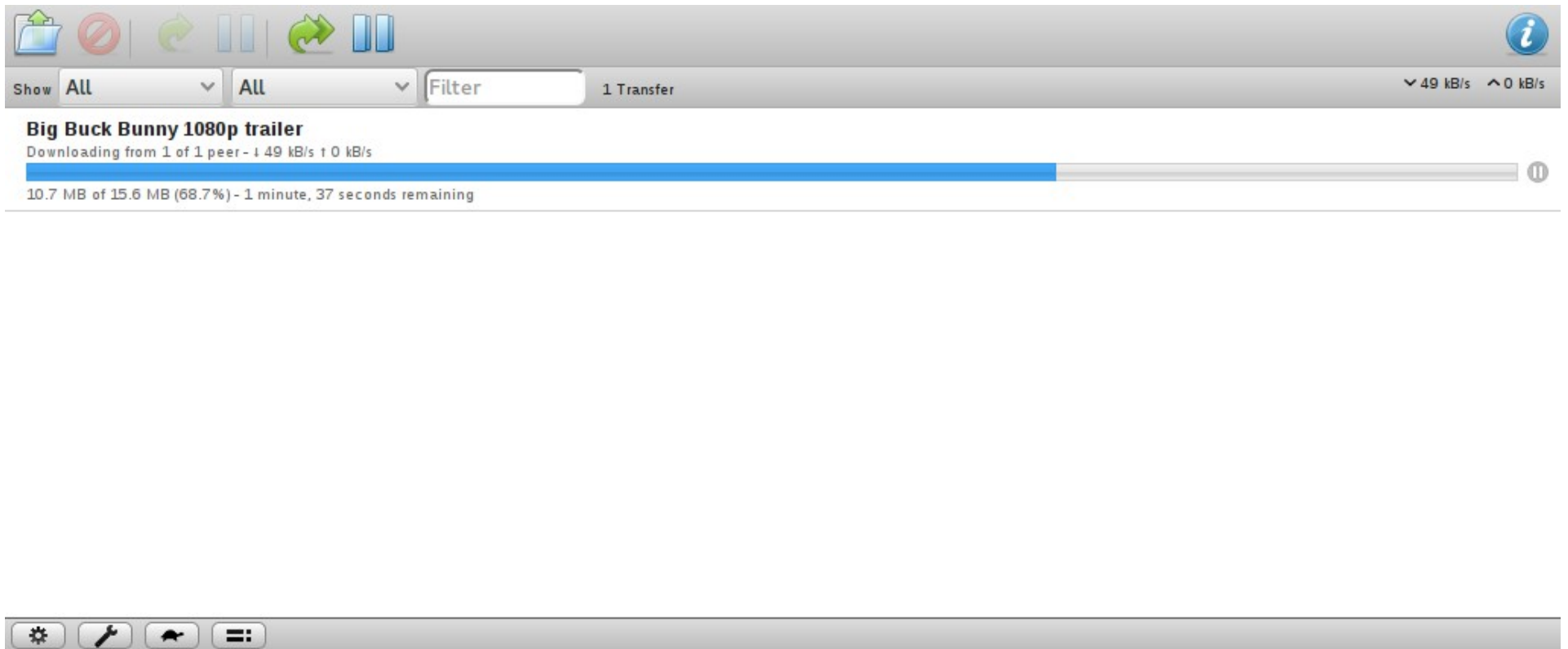


# BitTorrent

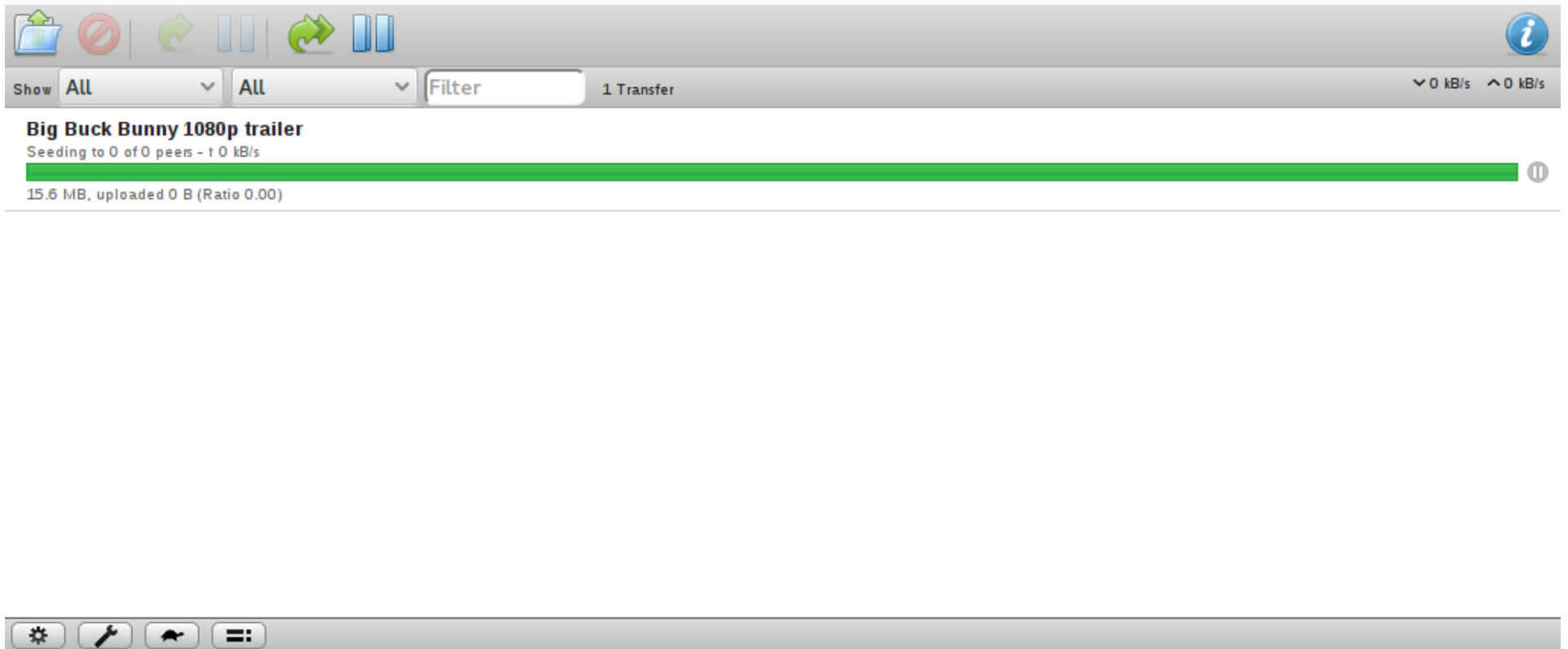




# BitTorrent



# BitTorrent



Demo: Access the file from ownCloud

# Future Work

Distributed Social Networking

Password-less single sign on

Browser Assistant

Email Server

More Hardware

More Applications



# Built By Community

Ashok Jallepalli

Bdale Garbee

Ben Armstrong

Bharat Akkinepalli

Bharath Chava

Bhuvan Krishna

Bryan Newbold

Bob Girard

Bob Mottram

Craig Barnes

Daniel Steglich

Didier Raboud

Federico Ceratto

Isaac Wilder

Ivan Savov

James Valleroy

James Vasile

Jonas Smedegaard

Keith Fernie

Marc Jones

Markus Sabadello

Maximiliano Curia

Michael Pimmer

Nick Daly

Nick White

Olivier Mehani

Petter Reinholdtsen

Piotr Ożarowski

Robert Martinez

Sean Alexandre

Sean O'Brien

Sunil Mohan Adapa

Thiago Jung Bauermann

Tom Galloway

Tzafrir Cohen

Vignan Lavu

(...and more)



debian

# Join Us!

## Hackathon Tomorrow!

- Build an App
- Code
- Design
- Document
- Donate
- Package
- Release
- Spread the word
- Test
- Translate



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GNOME icon artists LGPLv3+ <https://commons.wikimedia.org/wiki/File:Gnome-system-software-update.svg>  
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Mumble 3Clause BSD [https://commons.wikimedia.org/wiki/File:Icons\\_mumble.svg](https://commons.wikimedia.org/wiki/File:Icons_mumble.svg)

Questions & Feedback

Thank You!