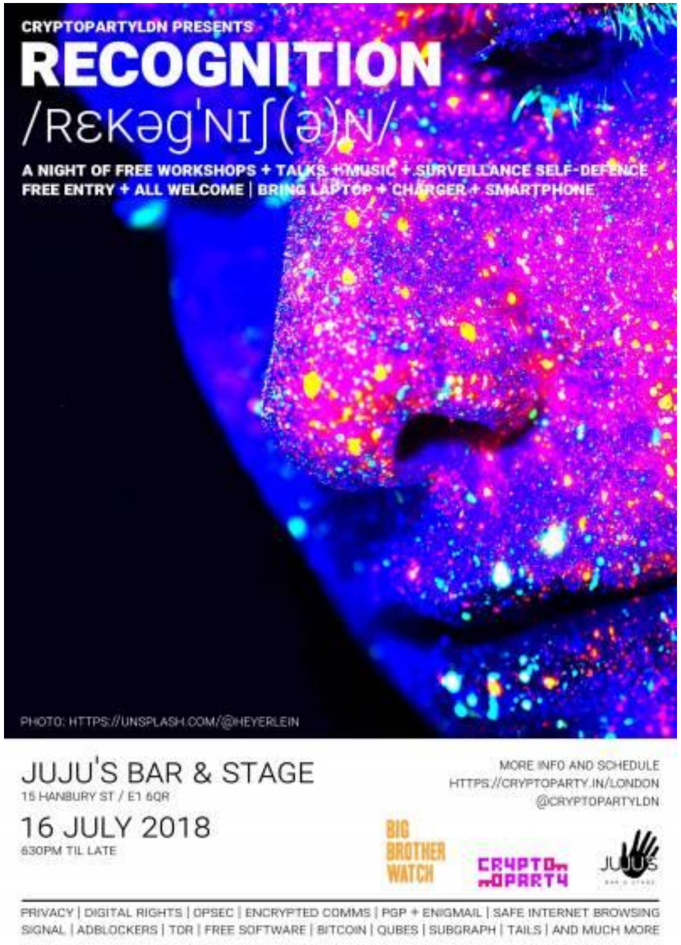
CryptoParty London - Recognition
Monday 16th July 2018



CRYPTOPARTYLDN PRESENTS

RECOGNITION

/RƐKəg'NIʃ(ə)N/

A NIGHT OF FREE WORKSHOPS + TALKS + MUSIC + SURVEILLANCE SELF-DEFENCE
FREE ENTRY + ALL WELCOME | BRING LAPTOP + CHARGER + SMARTPHONE

PHOTO: HTTPS://UNSPLASH.COM/@HEYERLEIN

JUJU'S BAR & STAGE
15 HANBURY ST / E1 6QR

16 JULY 2018
630PM TIL LATE

MORE INFO AND SCHEDULE
HTTPS://CRYPTOPARTY.IN/LONDON
@CRYPTOPARTYLDN

BIG BROTHER WATCH

CRYPTOPARTY

JUJU'S

PRIVACY | DIGITAL RIGHTS | OPSEC | ENCRYPTED COMMS | PGP + ENIGMAIL | SAFE INTERNET BROWSING
SIGNAL | ADBLOCKERS | TOR | FREE SOFTWARE | BITCOIN | QUBES | SUBGRAPH | TAILS | AND MUCH MORE

Setting up a forensics resistant live boot TAILS USB key

@CryptoPartyLDN

https://cryptoparty.in/london

@SpyBlog

What is TAILS ?

- Tails is a live system that aims to preserve your privacy and anonymity. It helps you to use the Internet anonymously and circumvent censorship almost anywhere you go and on any computer but leaving no trace unless you ask it to explicitly.
- It is a complete operating system designed to be used from a USB stick or a DVD independently of the computer's original operating system. It is Free Software and based on Debian GNU/Linux.
- Tails comes with several built-in applications pre-configured with security in mind: Tor web browser, instant messaging client, email client, Libre office suite, image and sound editor, BitCoin Wallet Client, GPG encryption

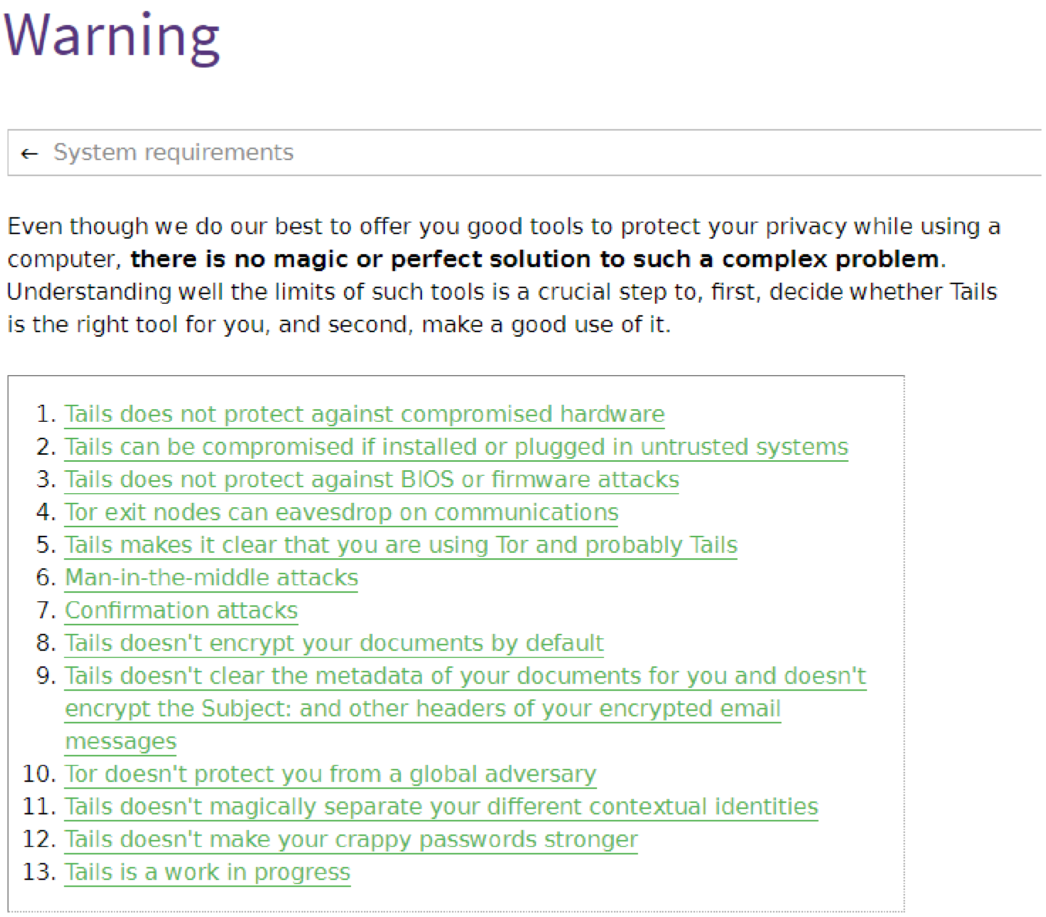
What is TAILS

- Because it is a live boot linux based operating system, all the temporary swap files, backup copies of documents, any crash dumps and log files etc. only reside in memory *not* on the hard disk of your computer. Anything configured to be Persistent is strongly encrypted
- This makes computer forensics examination of a seized or stolen computer much, much harder

When *not* to use TAILS

- If you are a whistleblower or confidential source and you are the only person in the list of people with access to a leaked document and you are the only person with TAILS installed on a USB device (if legally / illegally seized or “voluntarily” examined)
- Read *all* the TAILS / Tor warnings and caveats
  - https://tails.boum.org/doc/about/warning/index.en.html

When *not* to use TAILS



Warning

← System requirements

Even though we do our best to offer you good tools to protect your privacy while using a computer, **there is no magic or perfect solution to such a complex problem**. Understanding well the limits of such tools is a crucial step to, first, decide whether Tails is the right tool for you, and second, make a good use of it.

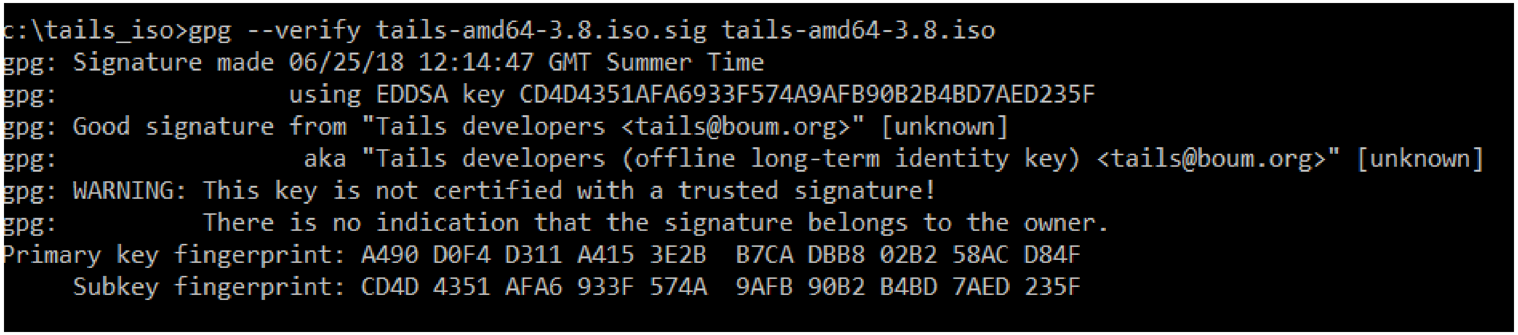
1. Tails does not protect against compromised hardware
2. Tails can be compromised if installed or plugged in untrusted systems
3. Tails does not protect against BIOS or firmware attacks
4. Tor exit nodes can eavesdrop on communications
5. Tails makes it clear that you are using Tor and probably Tails
6. Man-in-the-middle attacks
7. Confirmation attacks
8. Tails doesn't encrypt your documents by default
9. Tails doesn't clear the metadata of your documents for you and doesn't encrypt the Subject: and other headers of your encrypted email messages
10. Tor doesn't protect you from a global adversary
11. Tails doesn't magically separate your different contextual identities
12. Tails doesn't make your crappy passwords stronger
13. Tails is a work in progress

Downloading and Verifying TAILS iso

- The main TAILS front end website URL is
- https://tails.boum.org
- N.B. if you are a whistleblower, just accessing this from your work computer may be enough to make you the prime suspect in any leak investigation

Downloading and Verifying TAILS iso

- Download the latest TAILS .iso distribution
- You can use the GPG signature to verify that the .iso has not been corrupted in transmission (unlikely)



```
c:\tails_iso>gpg --verify tails-amd64-3.8.iso.sig tails-amd64-3.8.iso
gpg: Signature made 06/25/18 12:14:47 GMT Summer Time
gpg:                using EDDSA key CD4D4351AFA6933F574A9AFB90B2B4BD7AED235F
gpg: Good signature from "Tails developers <tails@boum.org>" [unknown]
gpg:                 aka "Tails developers (offline long-term identity key) <tails@boum.org>" [unknown]
gpg: WARNING: This key is not certified with a trusted signature!
gpg:          There is no indication that the signature belongs to the owner.
Primary key fingerprint: A490 D0F4 D311 A415 3E2B  B7CA DBB8 02B2 58AC D84F
     Subkey fingerprint: CD4D 4351 AFA6 933F 574A  9AFB 90B2 B4BD 7AED 235F
```

Downloading and Verifying TAILS iso

- But the integrity of this relies on that of the https:// TLS website or the GPG Keyserver you got the Signing Key from
- N.B. Even this does not completely guarantee that this is an untampered version of the software, if a Nation State is doing Man in the Middle / or NSA / GCHQ QUANTUM side jacking

Downloading and Verifying TAILS iso

- Since TAILS is open source, it is theoretically possible to build it from the (examinable) source code.
- Almost no real users can or will ever do this
- However, the threat to Nation State attackers is that someone *could* detect and reverse engineer and steal any Zero Days malware, thereby limiting the chances of such attacks except against unsophisticated high value targets e.g. ISIS or Trump henchmen (but not Putin etc.)

Check your USB is formatted to FAT32

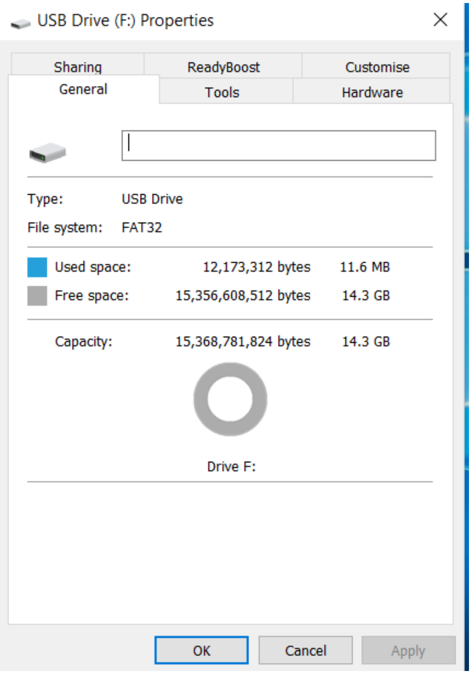
- It can be hard to forensically securely erase data on a USB flash memory pen drive / key due to the Wear Levelling Algorithms which spread the logical file system locations around underneath the physical Flash Abstraction Layer
- Use two fresh USB keys of the same size and model bought over the counter for cash in e.g. Tescos
- Do not order these online e.g. via Amazon even if slightly cheaper, but leaving a financial data trai & tipping of potential Supply Chain tampering attackers

Check your USB is formatted to FAT32

- If you are being targeted by a sophisticated attacker, they could change the firmware of the Flash Memory Controller chip to include e.g. pass phrase or crypto key or bitcoin etc. stealing malware so do not reuse USB sticks from dodgy sources

Check your USB is formatted to FAT32

- By default your out of the packaging USB key will be formatted as FAT32 but right click and look at the Properties to check



Type: USB Drive

File system: FAT32

🟦 Used space: 12,173,312 bytes 11.6 MB

▨ Free space: 15,356,608,512 bytes 14.3 GB

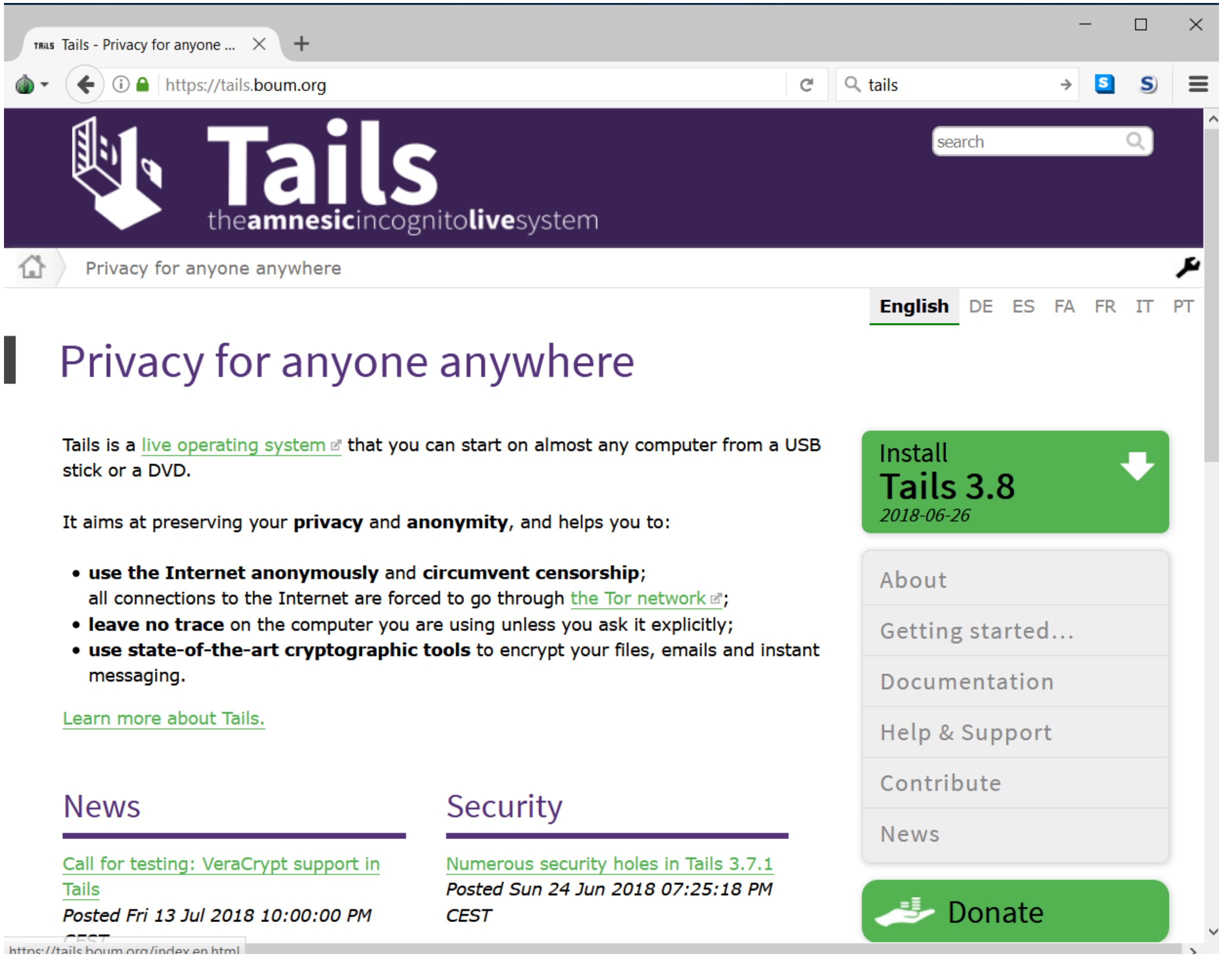
Capacity: 15,368,781,824 bytes 14.3 GB

Drive F:

Follow the TAILS website workflow

- The TAILS website has good screenshots and workflow of how to install TAILS using Windows or Apple Mac or Linux.
- We will follow the Windows workflow (N.B. once completed the TAILS USB key can be used to boot on e.g. Apple Mac even if created on Windows and vice versa)

Follow the TAILS website workflow



Tails - Privacy for anyone ...
https://tails.boum.org
tails
search
Tails
theamnesicincognitolivesystem
Privacy for anyone anywhere
English DE ES FA FR IT PT

Privacy for anyone anywhere

Tails is a live operating system that you can start on almost any computer from a USB stick or a DVD.

It aims at preserving your **privacy** and **anonymity**, and helps you to:

- **use the Internet anonymously** and **circumvent censorship**; all connections to the Internet are forced to go through the Tor network;
- **leave no trace** on the computer you are using unless you ask it explicitly;
- **use state-of-the-art cryptographic tools** to encrypt your files, emails and instant messaging.

Learn more about Tails.

Install Tails 3.8 *2018-06-26*

News

Call for testing: VeraCrypt support in Tails

Posted Fri 13 Jul 2018 10:00:00 PM CEST

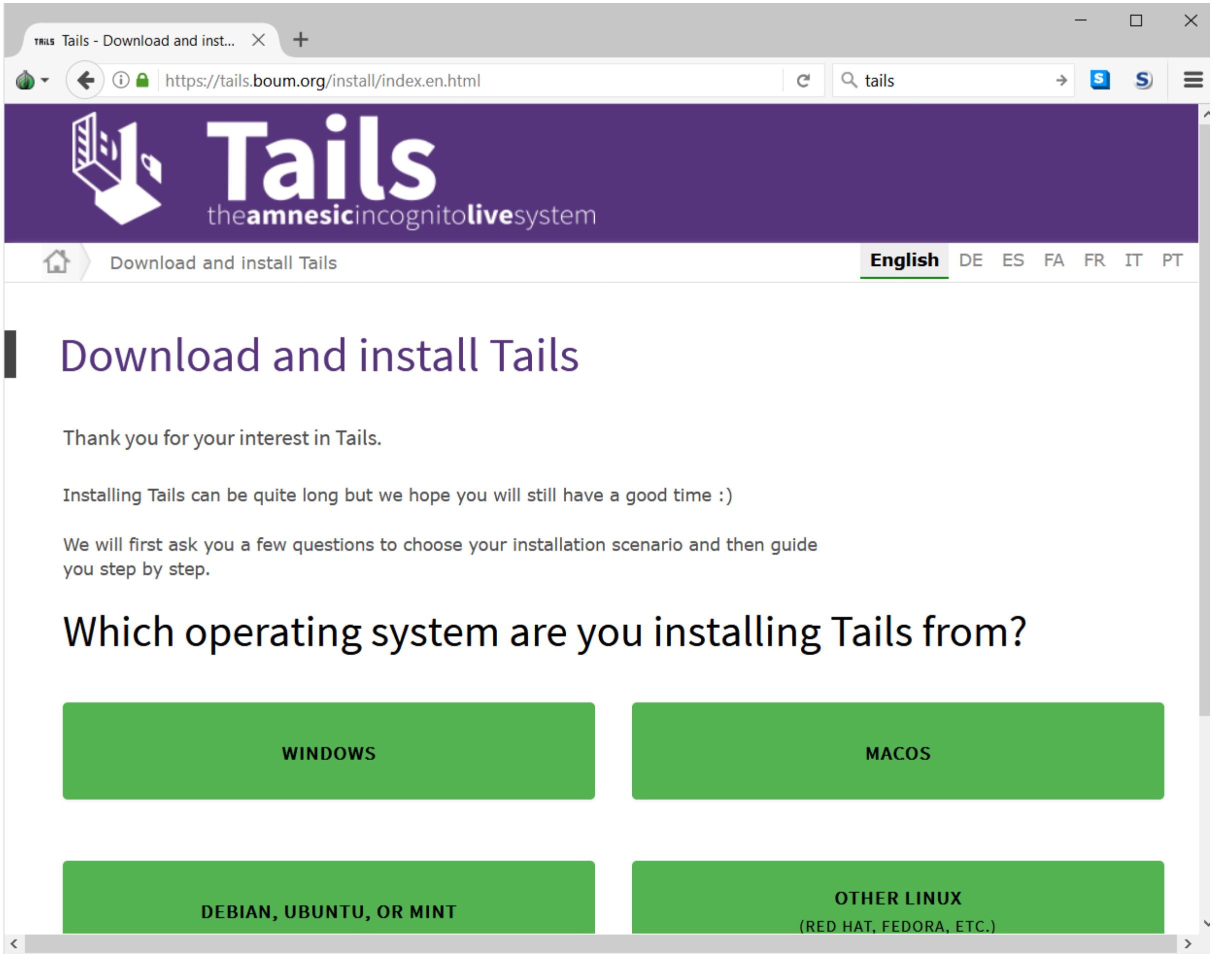
Security

Numerous security holes in Tails 3.7.1

Posted Sun 24 Jun 2018 07:25:18 PM CEST

https://tails.boum.org/index.en.html

Follow the TAILS website workflow



Tails - Download and inst...

https://tails.boum.org/install/index.en.html

tails

Tails

theamnesicincognitolivesystem

Download and install Tails

English DE ES FA FR IT PT

Download and install Tails

Thank you for your interest in Tails.

Installing Tails can be quite long but we hope you will still have a good time :)

We will first ask you a few questions to choose your installation scenario and then guide you step by step.

Which operating system are you installing Tails from?

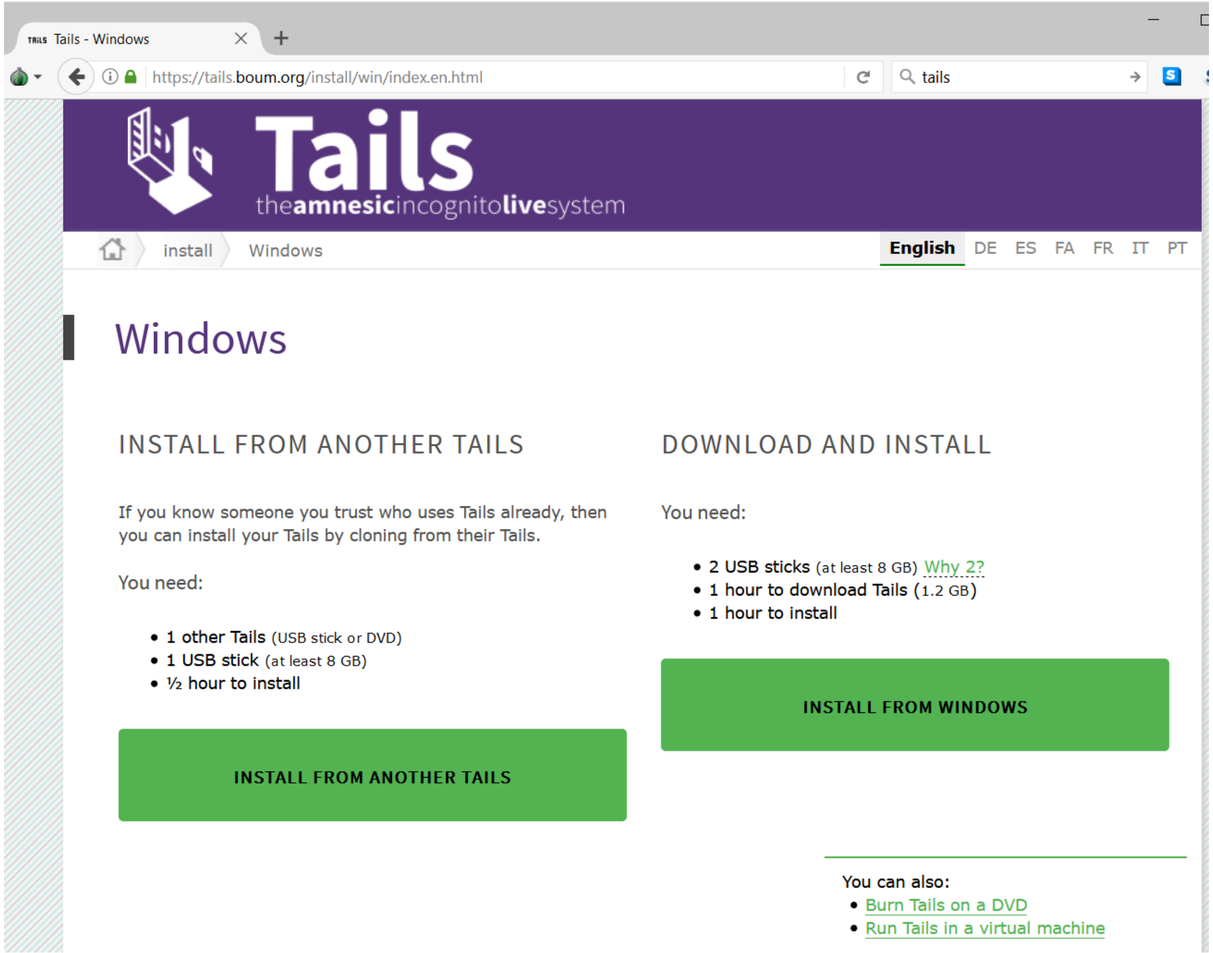
WINDOWS

MACOS

DEBIAN, UBUNTU, OR MINT

OTHER LINUX
(RED HAT, FEDORA, ETC.)

Follow the TAILS website workflow



Tails - Windows
https://tails.boum.org/install/win/index.en.html
tails
Tails
theamnesicincognitolivesystem
install
Windows
English
DE
ES
FA
FR
IT
PT

Windows

INSTALL FROM ANOTHER TAILS

If you know someone you trust who uses Tails already, then you can install your Tails by cloning from their Tails.

You need:

- 1 other Tails (USB stick or DVD)
- 1 USB stick (at least 8 GB)
- ½ hour to install

INSTALL FROM ANOTHER TAILS

DOWNLOAD AND INSTALL

You need:

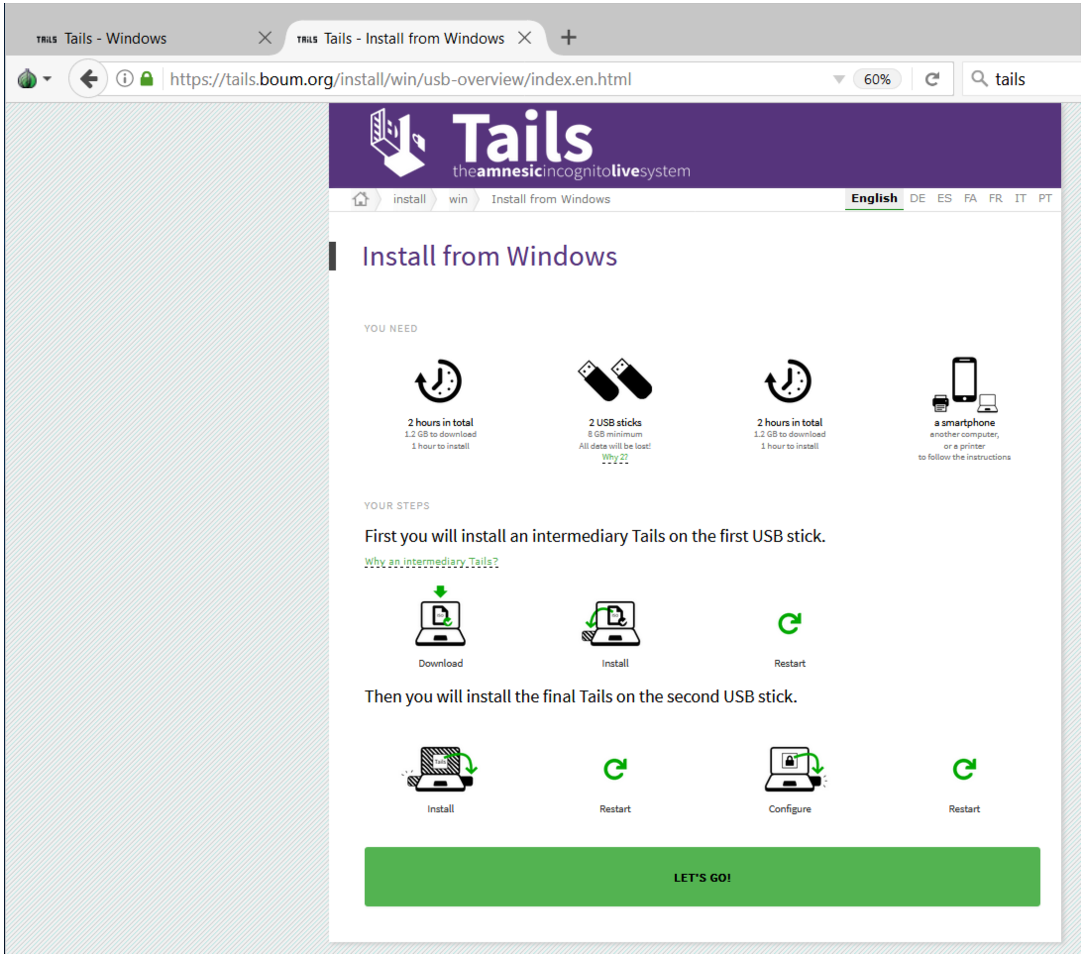
- 2 USB sticks (at least 8 GB) Why 2?
- 1 hour to download Tails (1.2 GB)
- 1 hour to install

INSTALL FROM WINDOWS

You can also:

- Burn Tails on a DVD
- Run Tails in a virtual machine

Follow the TAILS website workflow



Tails - Windows
Tails - Install from Windows
https://tails.boum.org/install/win/usb-overview/index.en.html
60%
tails
Tails
theamnesicincognitolivesystem
install
win
Install from Windows
English
DE
ES
FA
FR
IT
PT

Install from Windows

YOU NEED

2 hours in total
1.2 GB to download
1 hour to install

2 USB sticks
8 GB minimum
All data will be lost!
Why 2?

2 hours in total
1.2 GB to download
1 hour to install

a smartphone
another computer,
or a printer
to follow the instructions

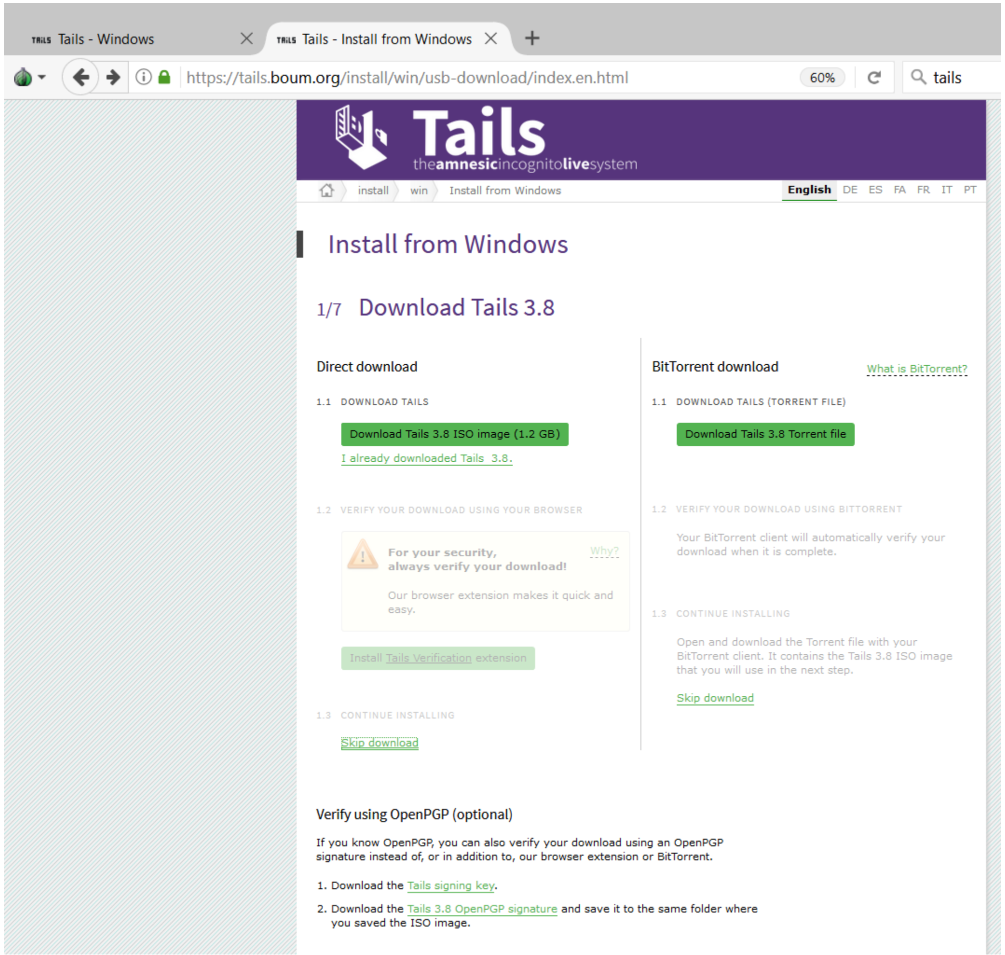
YOUR STEPS

First you will install an intermediary Tails on the first USB stick.

Why an intermediary Tails?

Then you will install the final Tails on the second USB stick.

Follow the TAILS website workflow


Tails - Windows
Tails - Install from Windows
https://tails.boum.org/install/win/usb-download/index.en.html
60%
tails
Tails
theamnesicincognitolivesystem
install
win
Install from Windows
English
DE
ES
FA
FR
IT
PT

Install from Windows

1/7 Download Tails 3.8

Direct download

1.1 DOWNLOAD TAILS

Download Tails 3.8 ISO image (1.2 GB)

I already downloaded Tails 3.8.

1.2 VERIFY YOUR DOWNLOAD USING YOUR BROWSER

For your security, always verify your download! Why?

Our browser extension makes it quick and easy.

Install Tails Verification extension

1.3 CONTINUE INSTALLING

Skip download

BitTorrent download What is BitTorrent?

1.1 DOWNLOAD TAILS (TORRENT FILE)

Download Tails 3.8 Torrent file

1.2 VERIFY YOUR DOWNLOAD USING BITTORRENT

Your BitTorrent client will automatically verify your download when it is complete.

1.3 CONTINUE INSTALLING

Open and download the Torrent file with your BitTorrent client. It contains the Tails 3.8 ISO image that you will use in the next step.

Skip download

Verify using OpenPGP (optional)

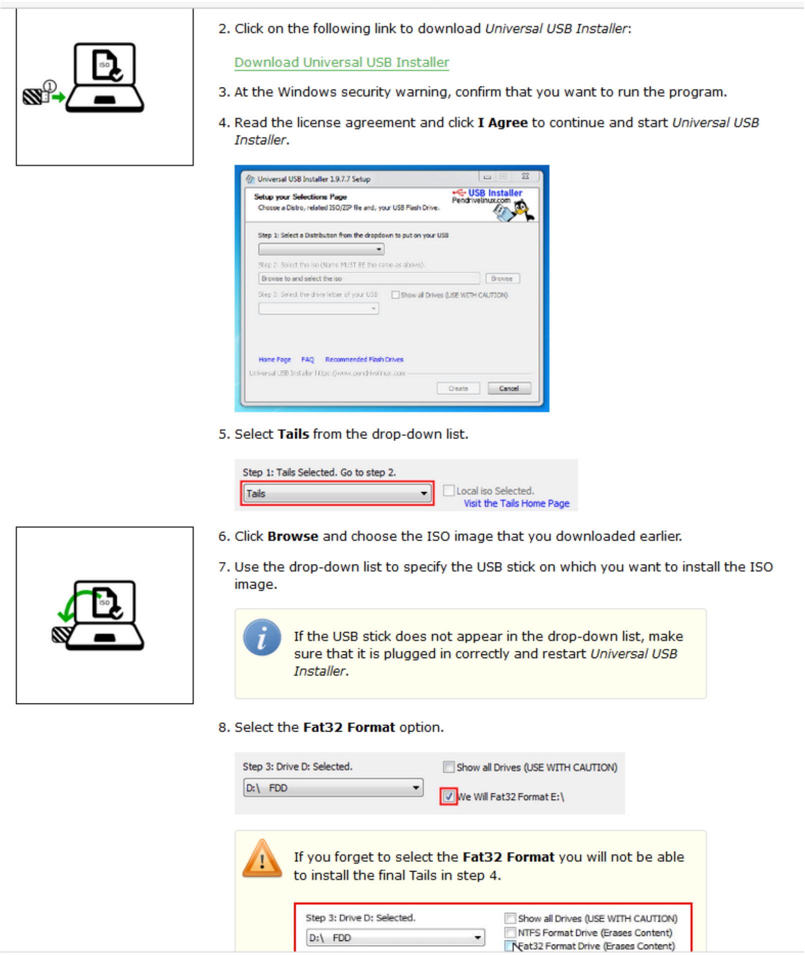
If you know OpenPGP, you can also verify your download using an OpenPGP signature instead of, or in addition to, our browser extension or BitTorrent.

1. Download the Tails signing key.
2. Download the Tails 3.8 OpenPGP signature and save it to the same folder where you saved the ISO image.

Follow the TAILS website workflow

- The TAILS .iso distribution is just over a 1 Gigabyte in size, so the time it takes to download will vary with your available internet connection speed
- For this workshop the .iso has already been downloaded (and verified, but see above)

Follow the TAILS website workflow



2. Click on the following link to download *Universal USB Installer*:

   Download Universal USB Installer

3. At the Windows security warning, confirm that you want to run the program.

4. Read the license agreement and click **I Agree** to continue and start *Universal USB Installer*.

   Universal USB Installer 1.9.7.7 Setup

   Setup your Selections Page

   Choose a Distro, related ISO/ZIP file and, your USB Flash Drive.

   USB Installer Pendrivelinux.com

   Step 1: Select a Distribution from the dropdown to put on your USB

   Step 2: Select the iso (Name MUST BE the same as above).

   Browse to and select the iso

   Browse

   Step 3: Select the drive letter of your USB

   □ Show all Drives (USE WITH CAUTION)

   Home Page FAQ Recommended Flash Drives

   Universal USB Installer https://www.pendrivelinux.com

   Create Cancel

5. Select **Tails** from the drop-down list.

   Step 1: Tails Selected. Go to step 2.

   Tails

   □ Local iso Selected.

   Visit the Tails Home Page

6. Click **Browse** and choose the ISO image that you downloaded earlier.

7. Use the drop-down list to specify the USB stick on which you want to install the ISO image.

   If the USB stick does not appear in the drop-down list, make sure that it is plugged in correctly and restart *Universal USB Installer*.

8. Select the **Fat32 Format** option.

   Step 3: Drive D: Selected.

   D:\ FDD

   □ Show all Drives (USE WITH CAUTION)

   ☑ We Will Fat32 Format E:\

   If you forget to select the **Fat32 Format** you will not be able to install the final Tails in step 4.

   Step 3: Drive D: Selected.

   D:\ FDD

   □ Show all Drives (USE WITH CAUTION)

   □ NTFS Format Drive (Erases Content)

   □ Fat32 Format Drive (Erases Content)

Follow the TAILS website workflow

- Down loading a copy of the Universal USB Installer software relies on the integrity of the https://tails.boum.org TLS encrypted website

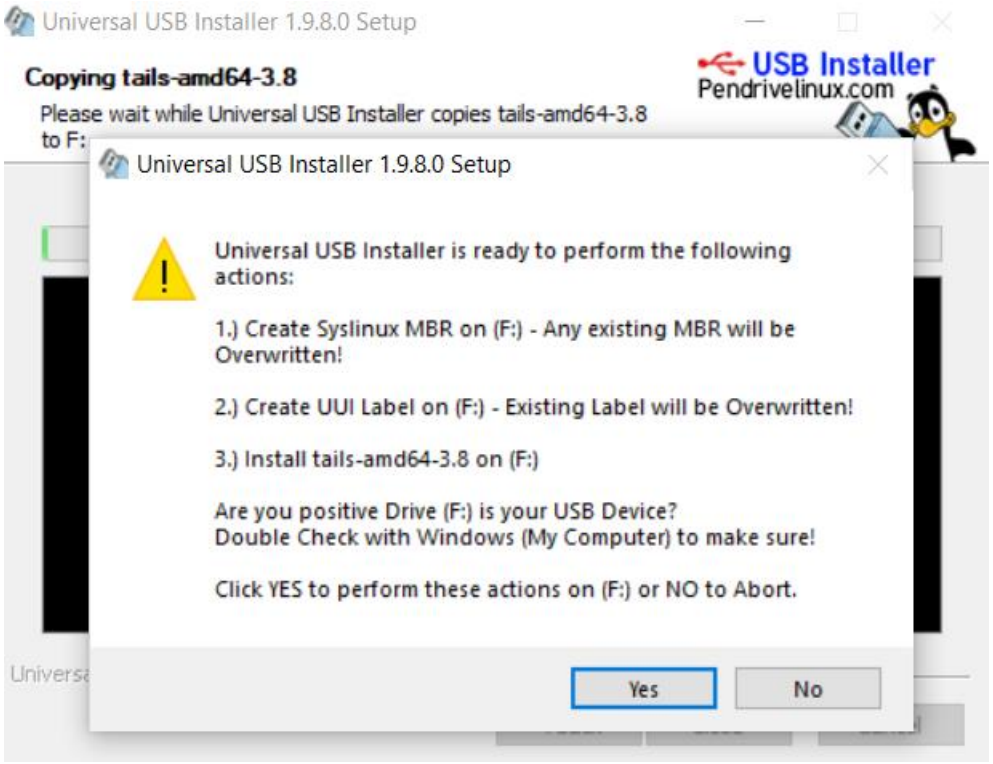
Universal USB installer

- Select Tails from the long list of standard Linux and Windows .iso distributions - the software is designed to allow you boot and install various software destructions from a USB stick rather than having to burn a DVD disc, which not all computers have these days
- It puts its own small bootable Linux distribution on the USB, hence why TAILS is a 2 stage process, primarily to get rid of this bootstrap when no longer needed

Universal USB installer

- Select the Tails .iso in the folder you downloaded it to
- Tick the Format as FAT32 if your USB device is not already formatted as such
- Start the install.

Universal USB installer



Universal USB Installer 1.9.8.0 Setup
USB Installer
Pendrivelinux.com

Copying tails-amd64-3.8

Please wait while Universal USB Installer copies tails-amd64-3.8 to F:

Universal USB Installer 1.9.8.0 Setup

Universal USB Installer is ready to perform the following actions:

1.) Create Syslinux MBR on (F:) - Any existing MBR will be Overwritten!

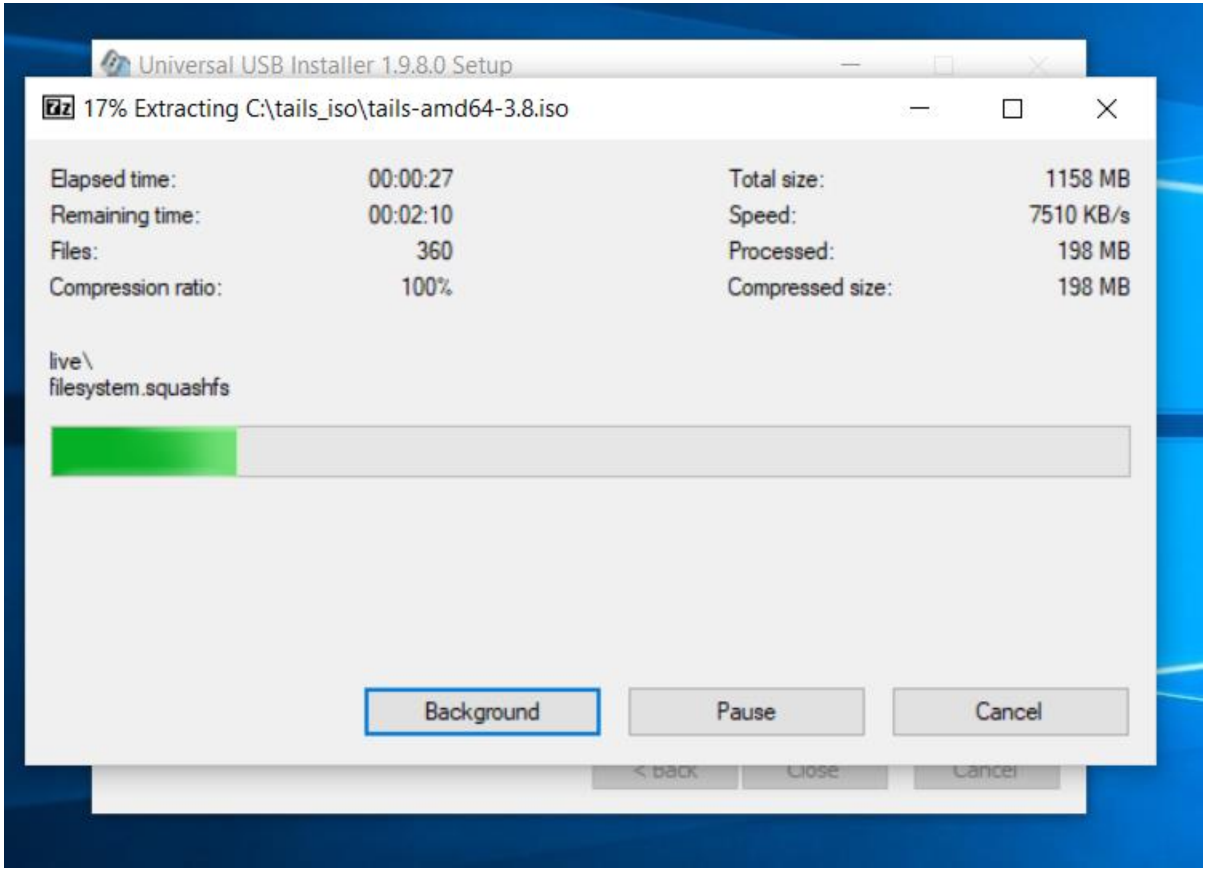
2.) Create UUI Label on (F:) - Existing Label will be Overwritten!

3.) Install tails-amd64-3.8 on (F:)

Are you positive Drive (F:) is your USB Device?
Double Check with Windows (My Computer) to make sure!

Click YES to perform these actions on (F:) or NO to Abort.

Universal USB installer



Universal USB Installer 1.9.8.0 Setup

17% Extracting C:\tails_iso\tails-amd64-3.8.iso

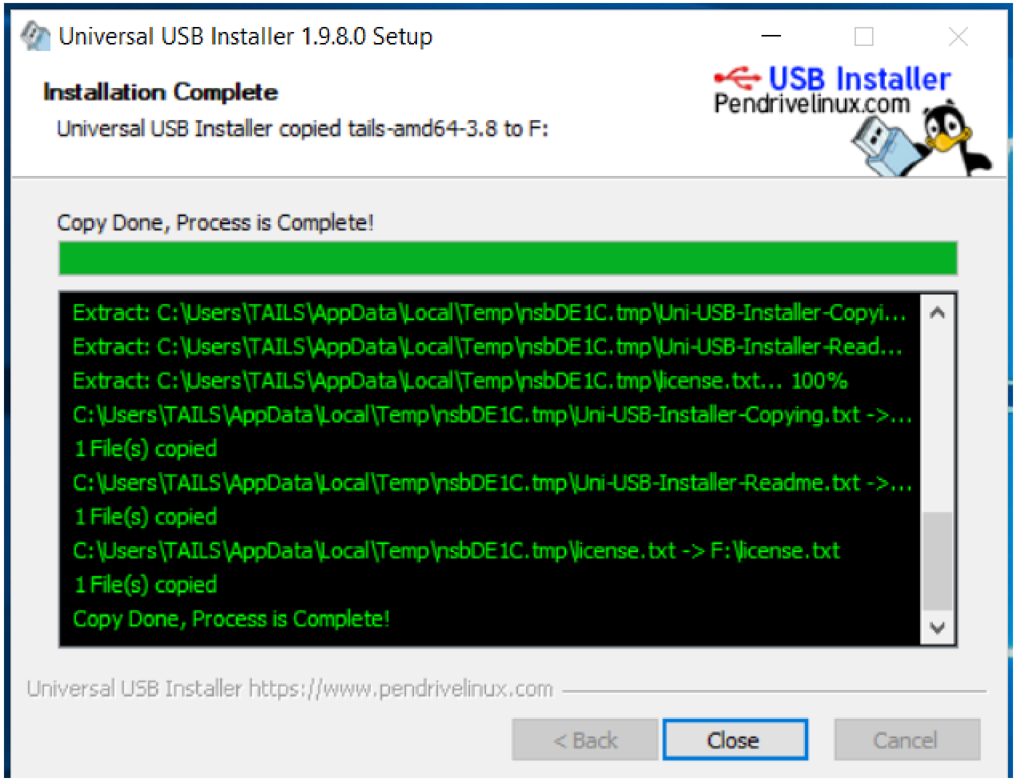
```
Elapsed time:          00:00:27        Total size:          1158 MB
Remaining time:        00:02:10        Speed:              7510 KB/s
Files:                      360        Processed:            198 MB
Compression ratio:         100%        Compressed size:      198 MB

live\
filesystem.squashfs
```

Universal USB installer

- Using USB 3.0 the process takes a couple of minutes for a 16 GB USB device
- For USB 2.0 it takes about 10 minutes for a 16 GB USB device
- TAILS needs a minimum of 4GB USB devices, but you cannot easily buy anything smaller than 16 GB nowadays over the counter

Universal USB installer



Installation Complete

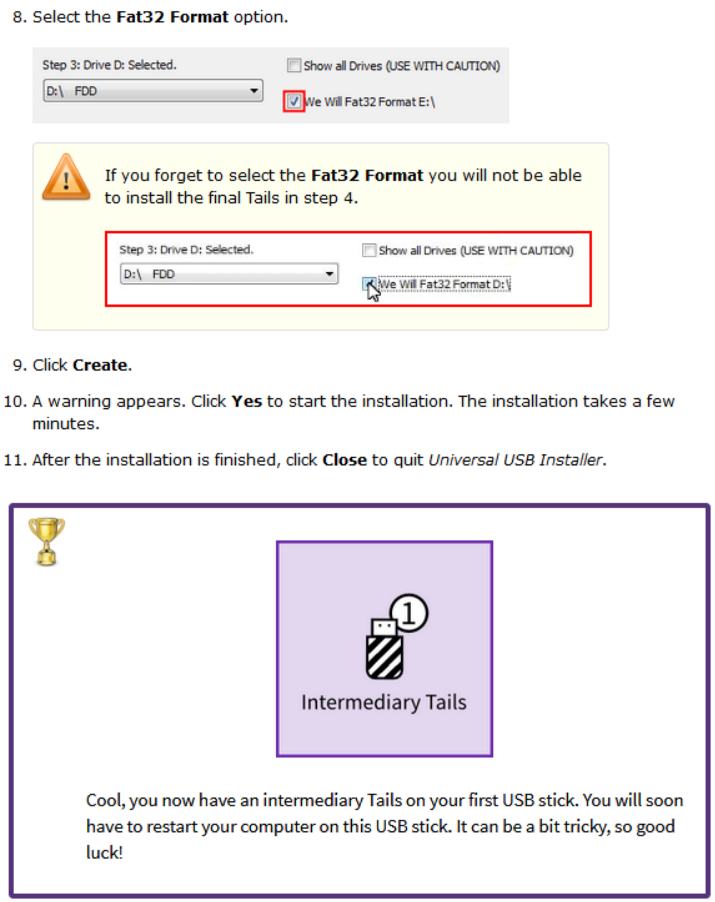
Universal USB Installer copied tails-amd64-3.8 to F:

Copy Done, Process is Complete!

```
Extract: C:\Users\TAILS\AppData\Local\Temp\nsbDE1C.tmp\Uni-USB-Installer-Copyi...
Extract: C:\Users\TAILS\AppData\Local\Temp\nsbDE1C.tmp\Uni-USB-Installer-Read...
Extract: C:\Users\TAILS\AppData\Local\Temp\nsbDE1C.tmp\license.txt... 100%
C:\Users\TAILS\AppData\Local\Temp\nsbDE1C.tmp\Uni-USB-Installer-Copying.txt ->...
1 File(s) copied
C:\Users\TAILS\AppData\Local\Temp\nsbDE1C.tmp\Uni-USB-Installer-Readme.txt ->...
1 File(s) copied
C:\Users\TAILS\AppData\Local\Temp\nsbDE1C.tmp\license.txt -> F:\license.txt
1 File(s) copied
Copy Done, Process is Complete!
```

Universal USB Installer https://www.pendrivelinux.com

Universal USB installer



8. Select the **Fat32 Format** option.

Step 3: Drive D: Selected.

D:\ FDD

□ Show all Drives (USE WITH CAUTION)

☑ We Will Fat32 Format E:\

If you forget to select the **Fat32 Format** you will not be able to install the final Tails in step 4.

Step 3: Drive D: Selected.

D:\ FDD

□ Show all Drives (USE WITH CAUTION)

☑ We Will Fat32 Format D:\

9. Click **Create**.

10. A warning appears. Click **Yes** to start the installation. The installation takes a few minutes.

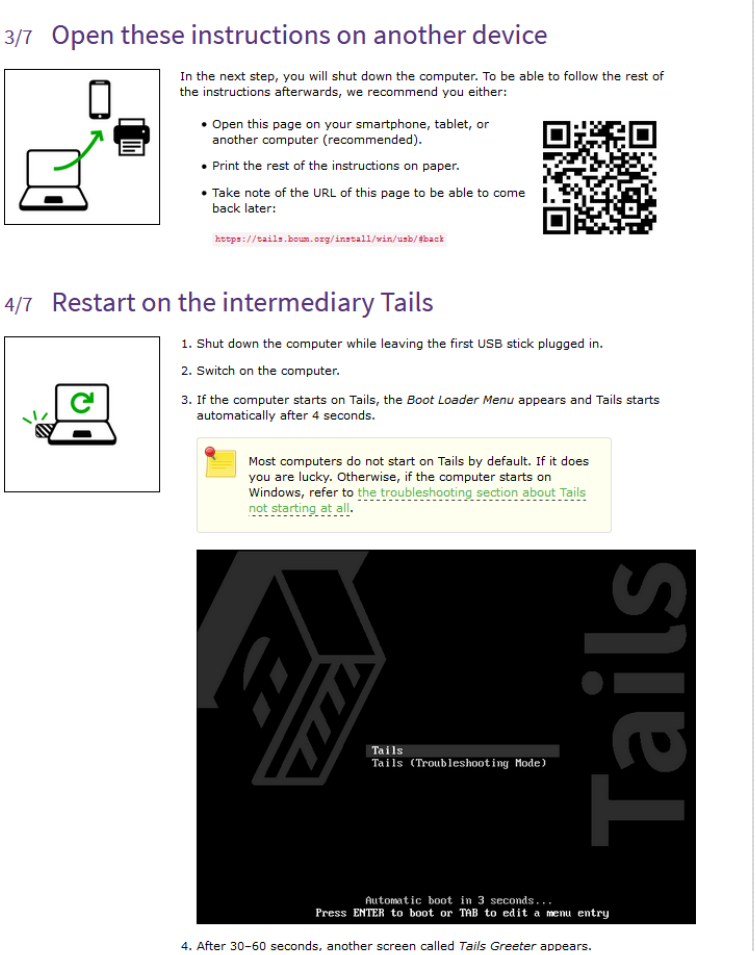
11. After the installation is finished, click **Close** to quit *Universal USB Installer*.

Cool, you now have an intermediary Tails on your first USB stick. You will soon have to restart your computer on this USB stick. It can be a bit tricky, so good luck!

Boot the Intermediate TAILS USB

- Shut down Windows and boot from the TAILS USB device
- You may first have to turn off Secure Boot setting in your BIOS, but UEFI boot does work ok on some models and on Apple etc.

Use TAILS Installer to Clone to 2nd FAT32 USB of same size / make



3/7 Open these instructions on another device

In the next step, you will shut down the computer. To be able to follow the rest of the instructions afterwards, we recommend you either:

- Open this page on your smartphone, tablet, or another computer (recommended).
- Print the rest of the instructions on paper.
- Take note of the URL of this page to be able to come back later:

`https://tails.boum.org/install/win/usb/#back`

4/7 Restart on the intermediary Tails

1. Shut down the computer while leaving the first USB stick plugged in.
2. Switch on the computer.
3. If the computer starts on Tails, the *Boot Loader Menu* appears and Tails starts automatically after 4 seconds.

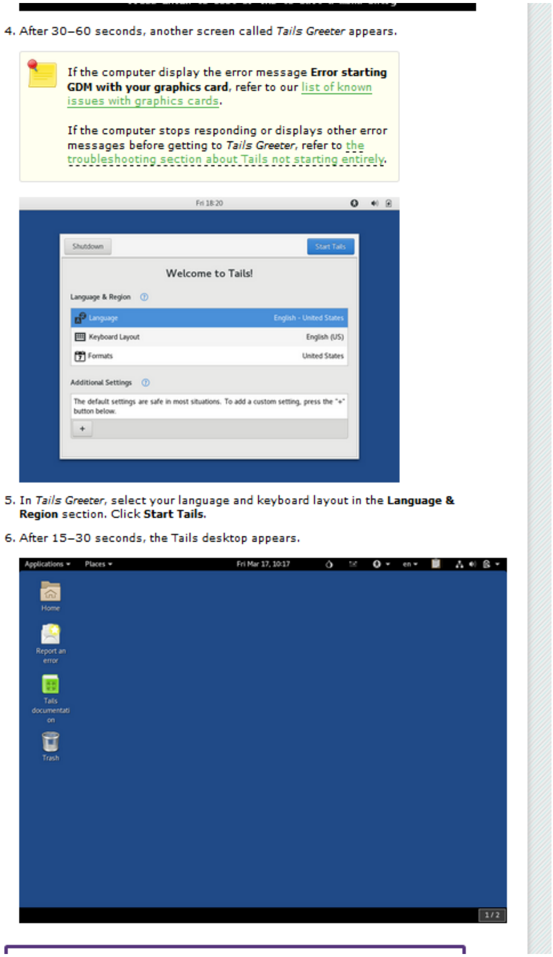
   Most computers do not start on Tails by default. If it does you are lucky. Otherwise, if the computer starts on Windows, refer to the troubleshooting section about Tails not starting at all.

```
Tails
Tails (Troubleshooting Mode)

Automatic boot in 3 seconds...
Press ENTER to boot or TAB to edit a menu entry
```

4. After 30–60 seconds, another screen called *Tails Greeter* appears.

Use TAILS Installer to Clone to 2nd FAT32 USB of same size / make



4. After 30–60 seconds, another screen called *Tails Greeter* appears.

If the computer display the error message **Error starting GDM with your graphics card**, refer to our list of known issues with graphics cards.

If the computer stops responding or displays other error messages before getting to *Tails Greeter*, refer to the troubleshooting section about Tails not starting entirely.

Welcome to Tails!

Language & Region

Language	English - United States
Keyboard Layout	English (US)
Formats	United States

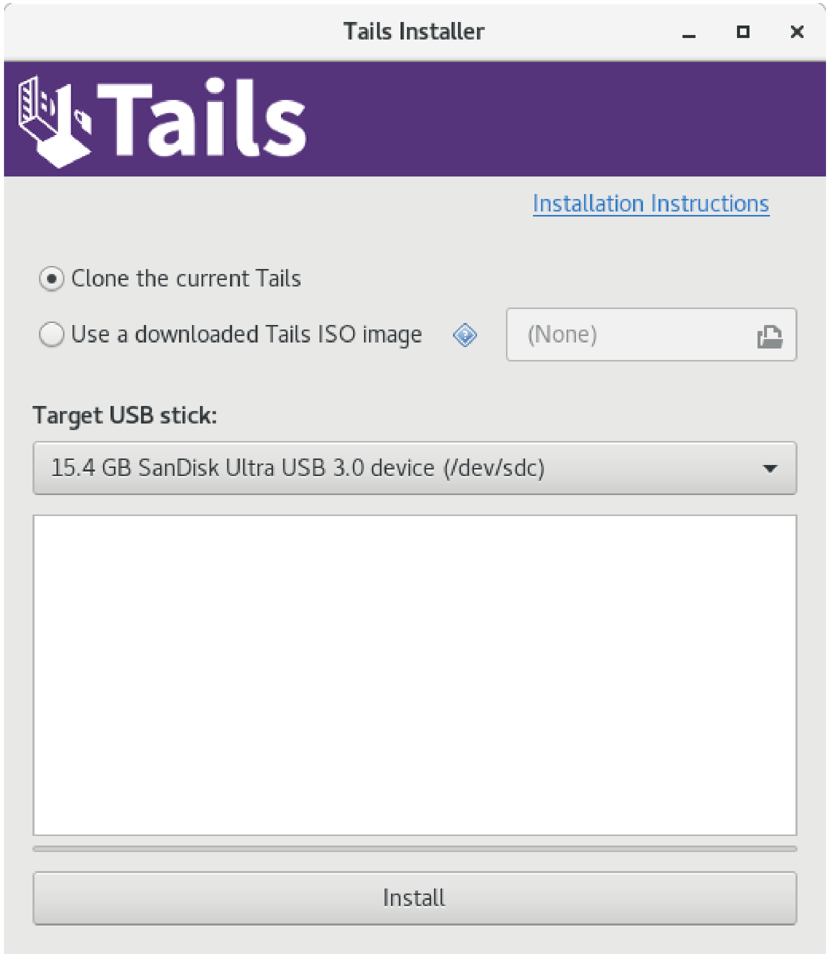
Additional Settings

The default settings are safe in most situations. To add a custom setting, press the "+" button below.

5. In *Tails Greeter*, select your language and keyboard layout in the **Language & Region** section. Click **Start Tails**.

6. After 15–30 seconds, the Tails desktop appears.

Use TAILS Installer to Clone to 2nd FAT32 USB of same size / make



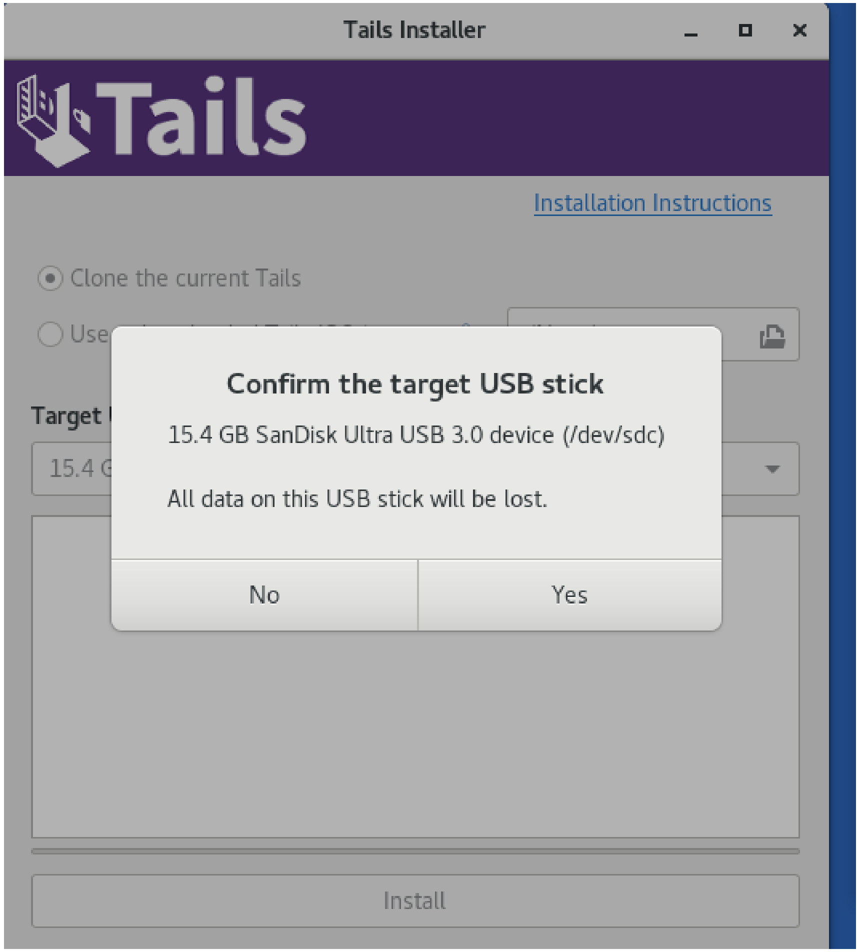
Tails Installer

● Clone the current Tails

○ Use a downloaded Tails ISO image (None)

Target USB stick: 15.4 GB SanDisk Ultra USB 3.0 device (/dev/sdc)

Use TAILS Installer to Clone to 2nd FAT32 USB of same size / make



Tails Installer

● Clone the current Tails

○ Use

Target

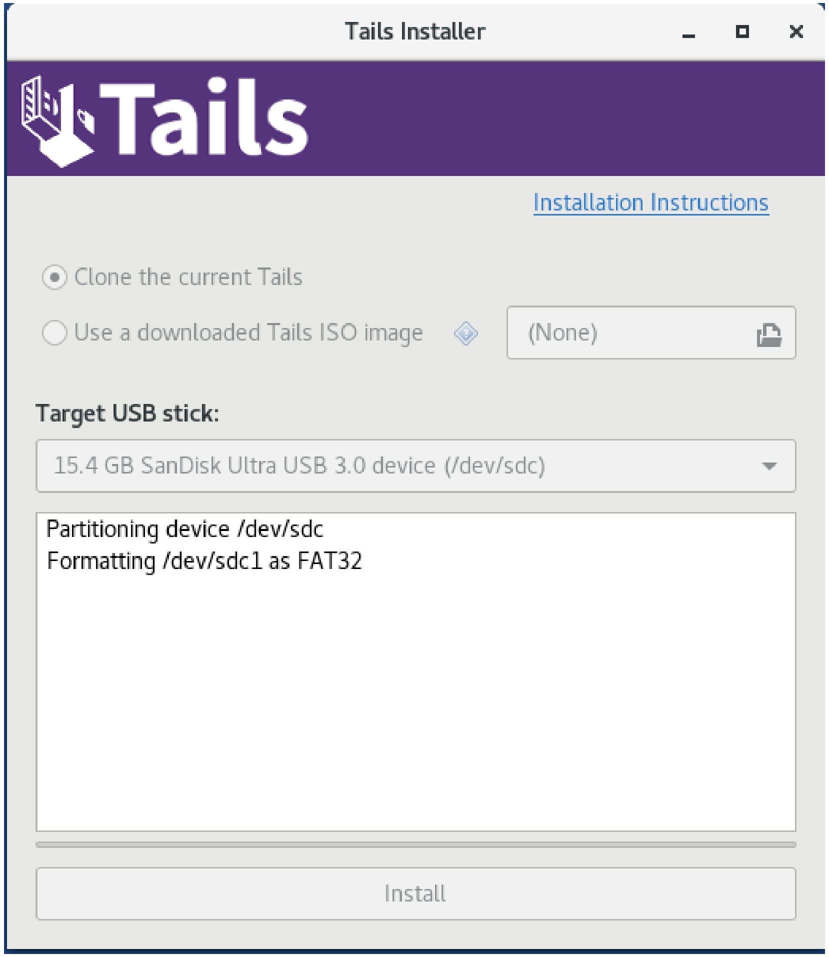
15.4 G

Confirm the target USB stick

15.4 GB SanDisk Ultra USB 3.0 device (/dev/sdc)

All data on this USB stick will be lost.

Use TAILS Installer to Clone to 2nd FAT32 USB of same size / make



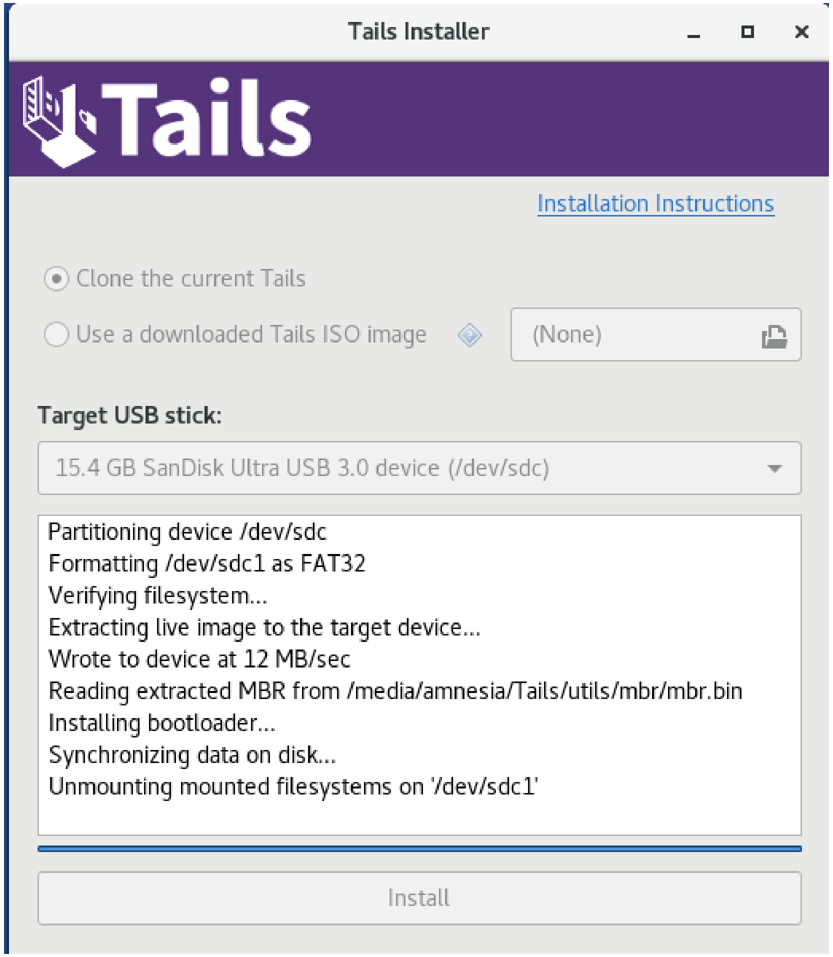
● Clone the current Tails

○ Use a downloaded Tails ISO image (None)

Target USB stick: 15.4 GB SanDisk Ultra USB 3.0 device (/dev/sdc)

```
Partitioning device /dev/sdc
Formatting /dev/sdc1 as FAT32
```

Use TAILS Installer to Clone to 2nd FAT32 USB of same size / make



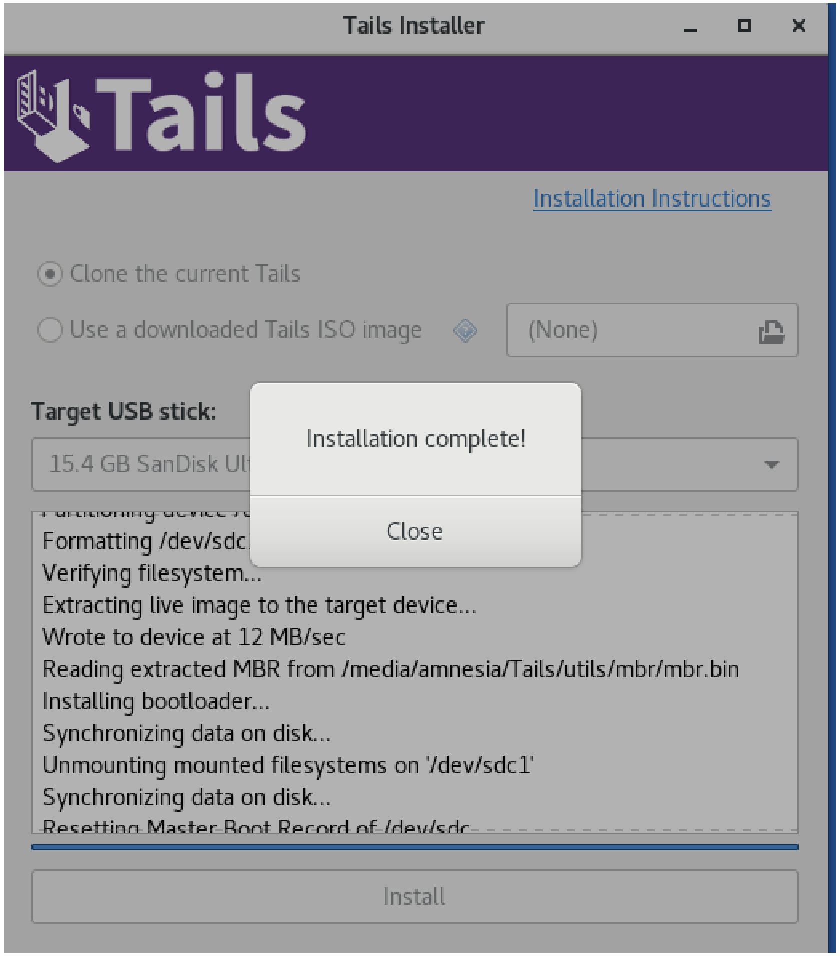
● Clone the current Tails

○ Use a downloaded Tails ISO image (None)

Target USB stick: 15.4 GB SanDisk Ultra USB 3.0 device (/dev/sdc)

```
Partitioning device /dev/sdc
Formatting /dev/sdc1 as FAT32
Verifying filesystem...
Extracting live image to the target device...
Wrote to device at 12 MB/sec
Reading extracted MBR from /media/amnesia/Tails/utils/mbr/mbr.bin
Installing bootloader...
Synchronizing data on disk...
Unmounting mounted filesystems on '/dev/sdc1'
```

Use TAILS Installer to Clone to 2nd FAT32 USB of same size / make



● Clone the current Tails

○ Use a downloaded Tails ISO image (None)

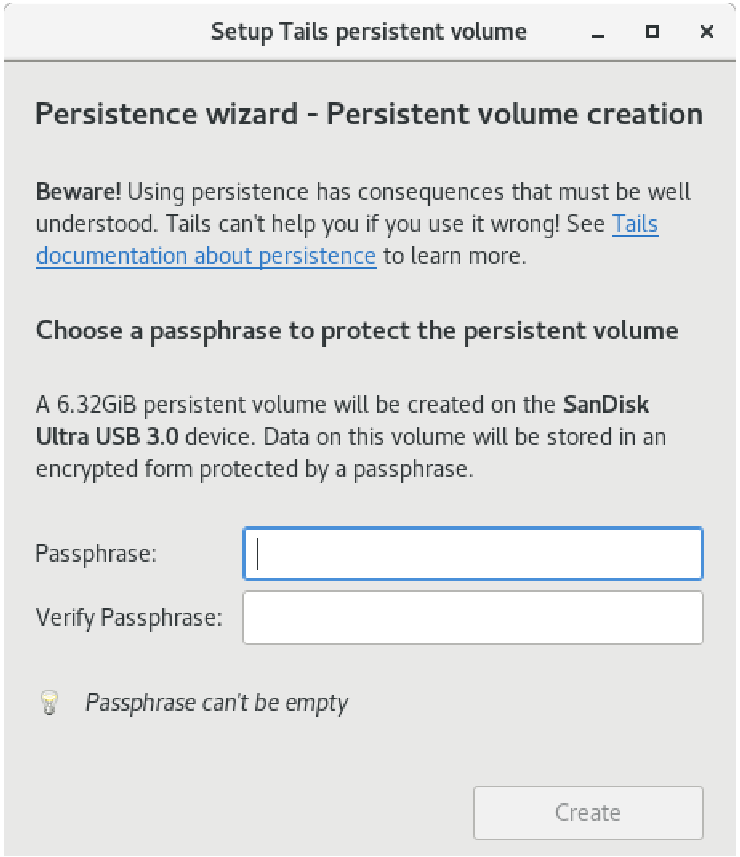
Target USB stick: 15.4 GB SanDisk Ult

```
Partitioning device /
Formatting /dev/sdc.
Verifying filesystem...
Extracting live image to the target device...
Wrote to device at 12 MB/sec
Reading extracted MBR from /media/amnesia/Tails/utils/mbr/mbr.bin
Installing bootloader...
Synchronizing data on disk...
Unmounting mounted filesystems on '/dev/sdc1'
Synchronizing data on disk...
Resetting Master Boot Record of /dev/sdc
```

Installation complete!

Remove Intermediate TAILS & boot the”real” Cloned TAILS USB

Create a Persistent Encrypted partition on the TAILS USB



Setup Tails persistent volume

Persistence wizard - Persistent volume creation

Beware! Using persistence has consequences that must be well understood. Tails can't help you if you use it wrong! See Tails documentation about persistence to learn more.

Choose a passphrase to protect the persistent volume

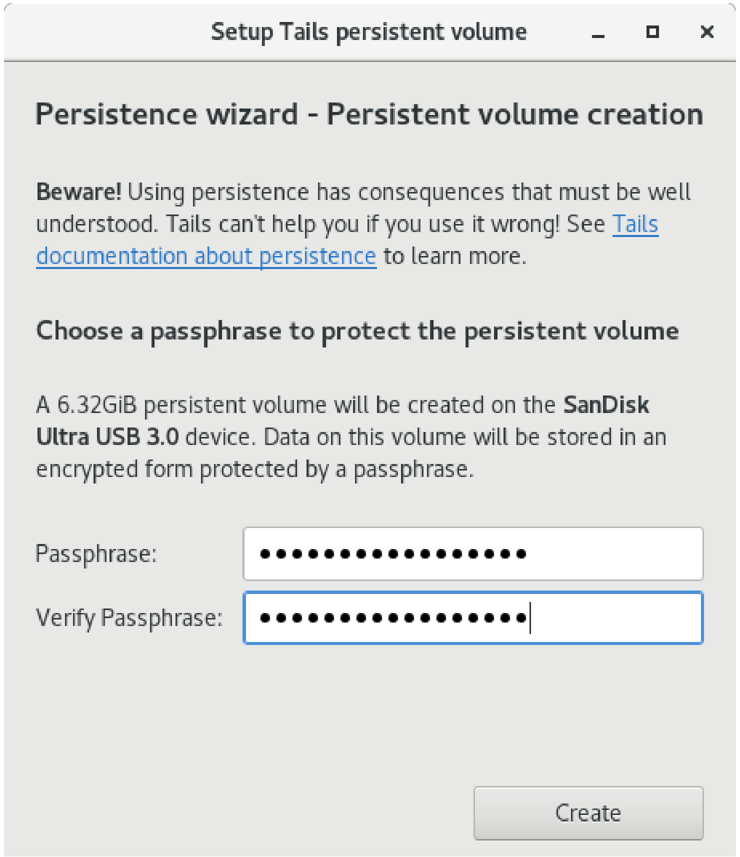
A 6.32GiB persistent volume will be created on the **SanDisk Ultra USB 3.0** device. Data on this volume will be stored in an encrypted form protected by a passphrase.

Passphrase:

Verify Passphrase:

Passphrase can't be empty

Create a Persistent Encrypted partition on the TAILS USB



Persistence wizard - Persistent volume creation

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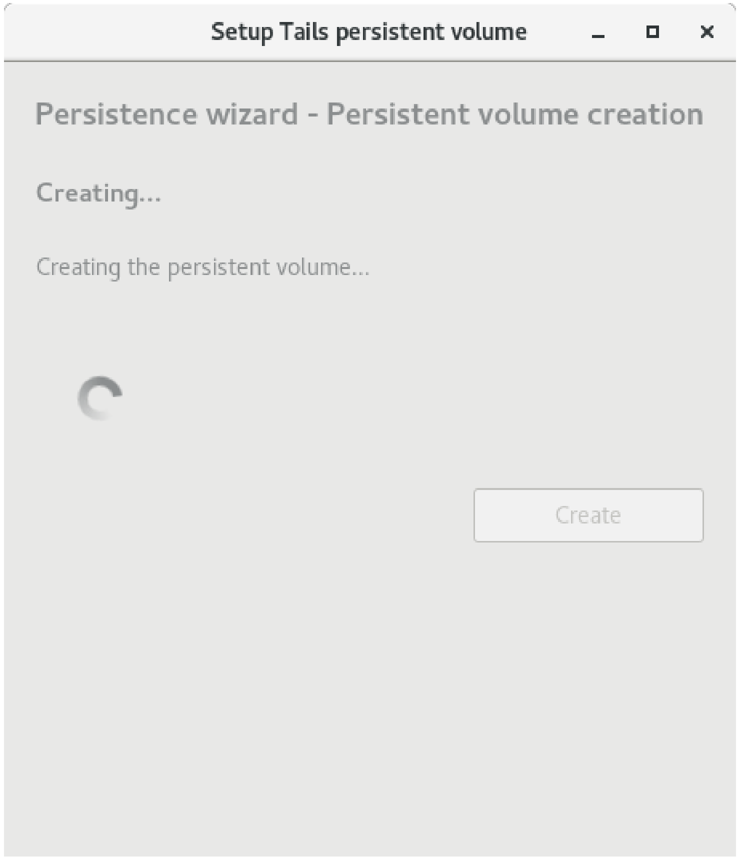
Passphrase: •••••••••••••••••

Verify Passphrase: •••••••••••••••••

Create a Persistent Encrypted partition on the TAILS USB



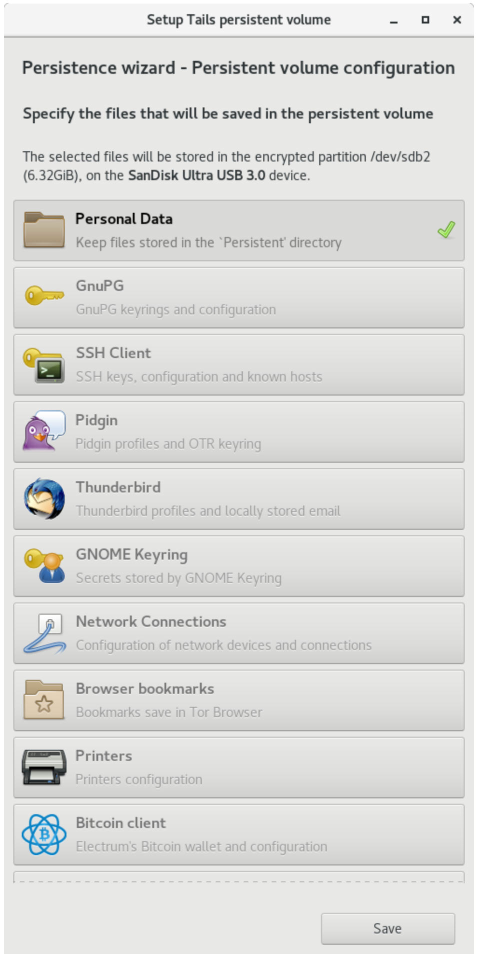
Setup Tails persistent volume

Persistence wizard - Persistent volume creation

Creating...

Creating the persistent volume...

Create a Persistent Encrypted partition on the TAILS USB



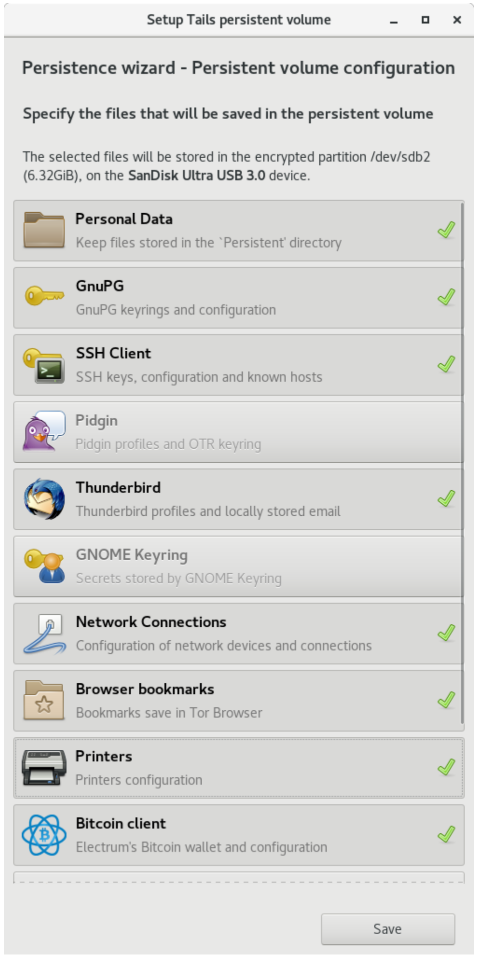
Persistence wizard - Persistent volume configuration

Specify the files that will be saved in the persistent volume

The selected files will be stored in the encrypted partition /dev/sdb2 (6.32GiB), on the **SanDisk Ultra USB 3.0** device.

- **Personal Data** — Keep files stored in the `Persistent' directory ✓
- GnuPG — GnuPG keyrings and configuration
- SSH Client — SSH keys, configuration and known hosts
- Pidgin — Pidgin profiles and OTR keyring
- Thunderbird — Thunderbird profiles and locally stored email
- GNOME Keyring — Secrets stored by GNOME Keyring
- Network Connections — Configuration of network devices and connections
- Browser bookmarks — Bookmarks save in Tor Browser
- Printers — Printers configuration
- Bitcoin client — Electrum's Bitcoin wallet and configuration

Create a Persistent Encrypted partition on the TAILS USB



Persistence wizard - Persistent volume configuration

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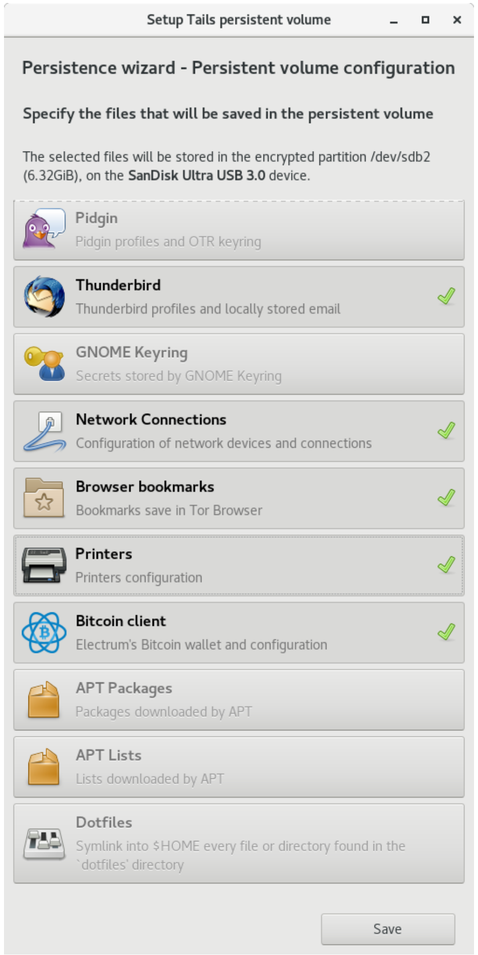
- **GnuPG** – GnuPG keyrings and configuration ✓
- **SSH Client** – SSH keys, configuration and known hosts ✓
- **Pidgin** – Pidgin profiles and OTR keyring
- **Thunderbird** – Thunderbird profiles and locally stored email ✓
- **GNOME Keyring** – Secrets stored by GNOME Keyring
- **Network Connections** – Configuration of network devices and connections ✓
- **Browser bookmarks** – Bookmarks save in Tor Browser ✓
- **Printers** – Printers configuration ✓
- **Bitcoin client** – Electrum's Bitcoin wallet and configuration ✓

Create a Persistent Encrypted partition on the TAILS USB



Persistence wizard - Persistent volume configuration

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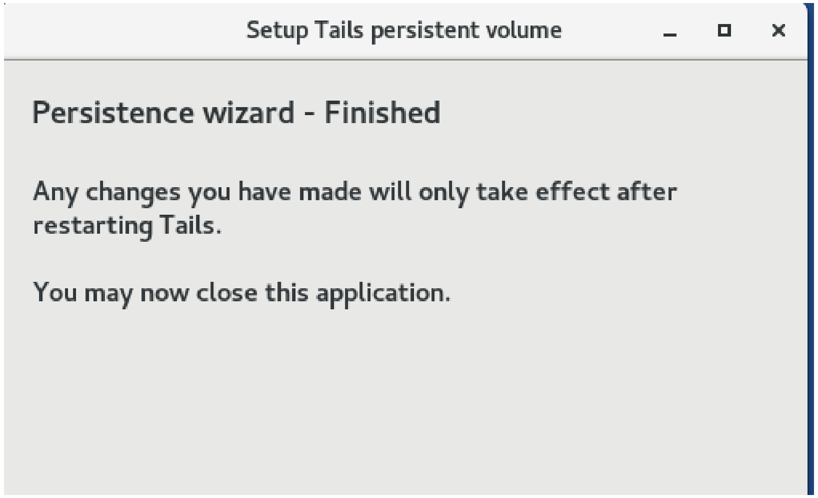
Pidgin Pidgin profiles and OTR keyring	
Thunderbird Thunderbird profiles and locally stored email	✓
GNOME Keyring Secrets stored by GNOME Keyring	
Network Connections Configuration of network devices and connections	✓
Browser bookmarks Bookmarks save in Tor Browser	✓
Printers Printers configuration	✓
Bitcoin client Electrum's Bitcoin wallet and configuration	✓
APT Packages Packages downloaded by APT	
APT Lists Lists downloaded by APT	
Dotfiles Symlink into $HOME every file or directory found in the `dotfiles` directory	

Create a Persistent Encrypted partition on the TAILS USB



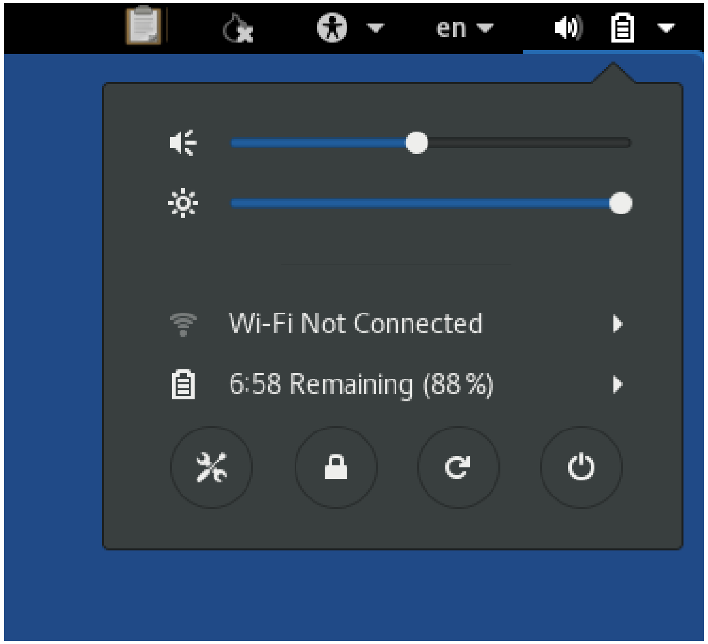
Persistence wizard - Finished

Any changes you have made will only take effect after restarting Tails.

You may now close this application.

Reboot the TAILS USB and set up WiFi & or Ethernet Networking

- https://tails.boum.org/doc/anonymous_internet/networkmanager/index.en.html
- Click top right System Menu



Reboot the TAILS USB with the Persistent partition & connect to Tor

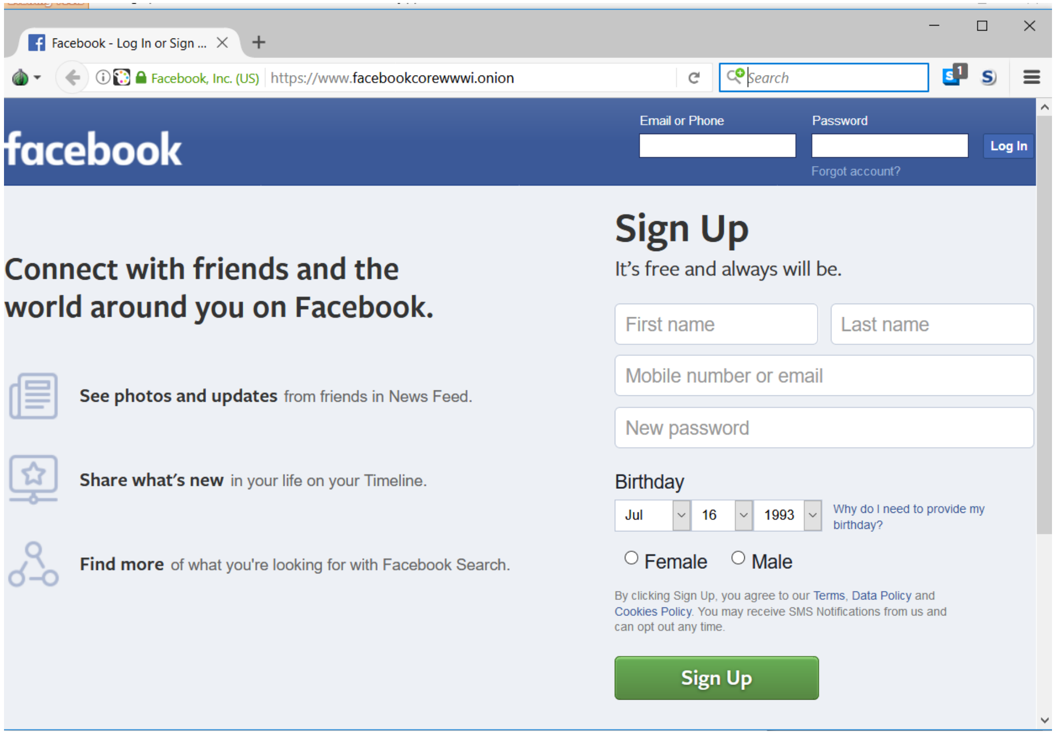
Check your Tor Exit & IP address

Check your Tor Exit & IP address

- Tor Check
- Ping.eu WHOIS
- Onion tool to show connections

Connect to FaceBook .onion

- https:\\facebookcorewwwi.onion
- Thanks to @AlecMuffett for this censorship resistance and end to end encryption security



https://www.facebookcorewwwi.onion

Sign Up

It's free and always will be.

Connect with friends and the world around you on Facebook.

See photos and updates from friends in News Feed.

Share what's new in your life on your Timeline.

Find more of what you're looking for with Facebook Search.

Birthday: Jul 16 1993

Why do I need to provide my birthday?

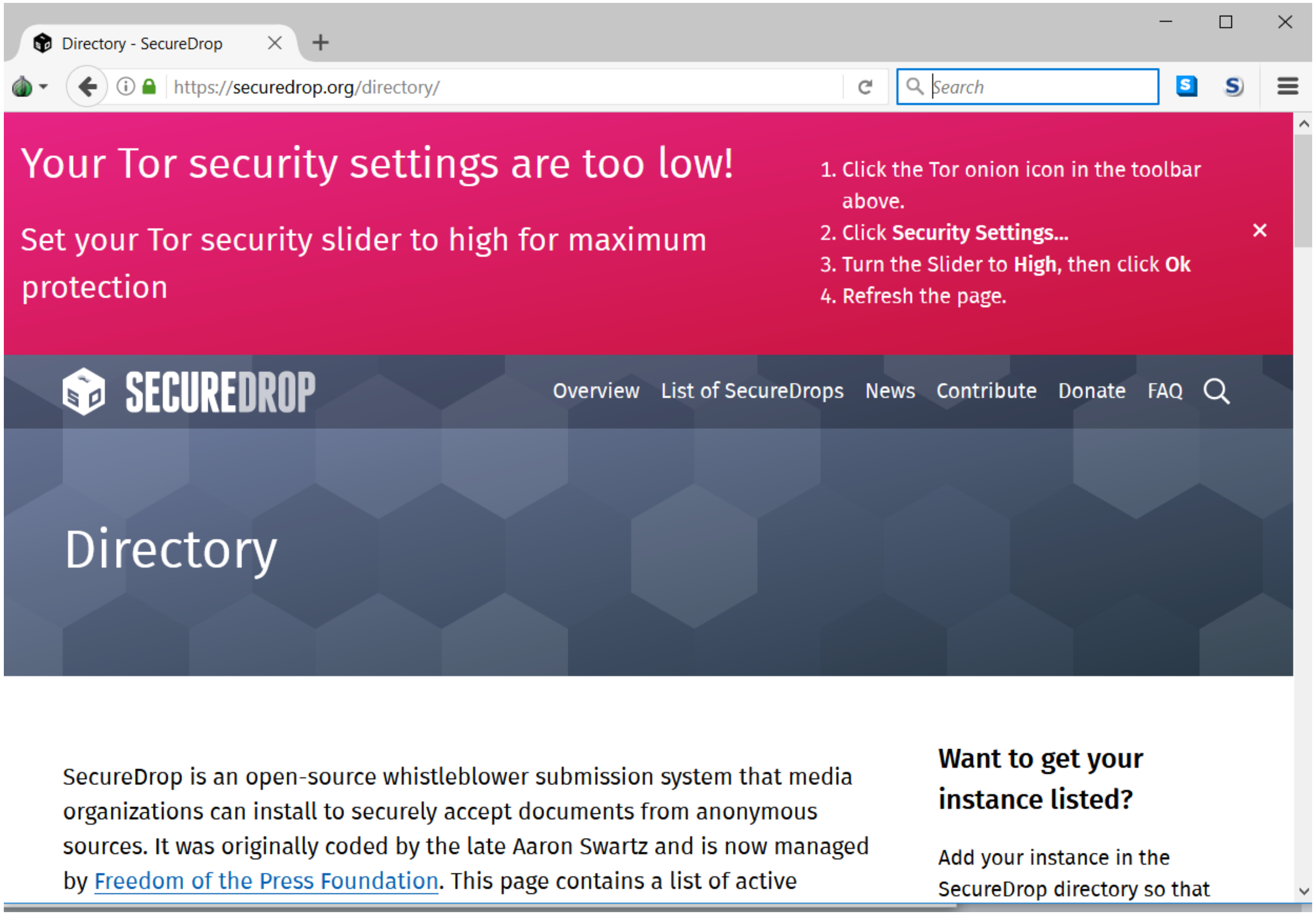
○ Female ○ Male

By clicking Sign Up, you agree to our Terms, Data Policy and Cookies Policy. You may receive SMS Notifications from us and can opt out any time.

SecureDrop – N.B. Tor level slider

- https://securedrop.org/directory/
- Several major newspaper organisations etc. run Tor enabled @SecureDrop anonymous contact / document upload drop boxes
- N.B. the warning about the Tor Security Level Slider

SecureDrop – N.B. Tor level slider



Your Tor security settings are too low!

Set your Tor security slider to high for maximum protection

1. Click the Tor onion icon in the toolbar above.
2. Click **Security Settings...**
3. Turn the Slider to **High**, then click **Ok**
4. Refresh the page.

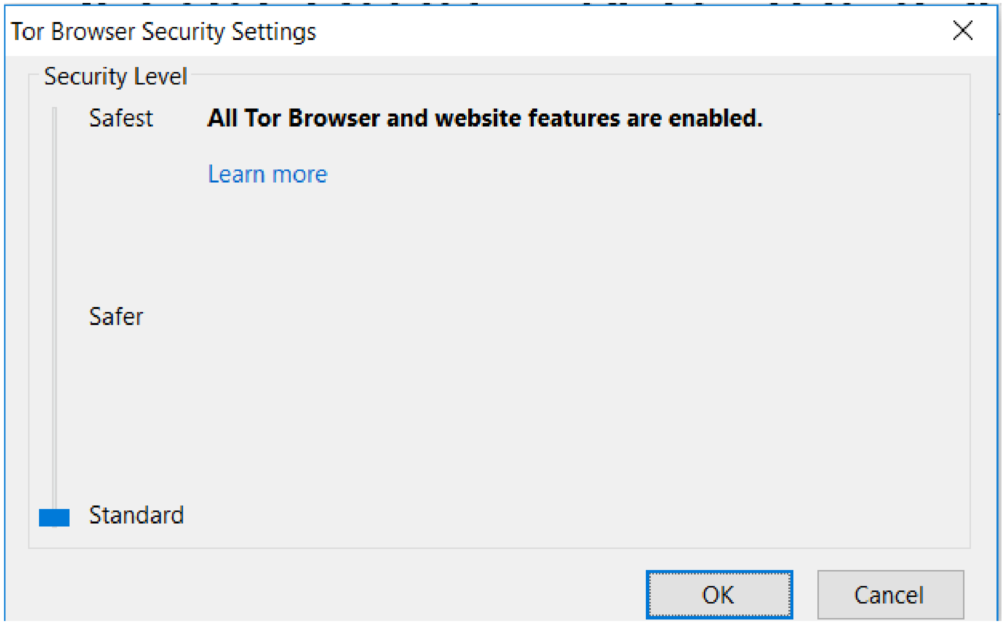
Directory

SecureDrop is an open-source whistleblower submission system that media organizations can install to securely accept documents from anonymous sources. It was originally coded by the late Aaron Swartz and is now managed by Freedom of the Press Foundation. This page contains a list of active

Want to get your instance listed?

Add your instance in the SecureDrop directory so that

SecureDrop – N.B. Tor level slider



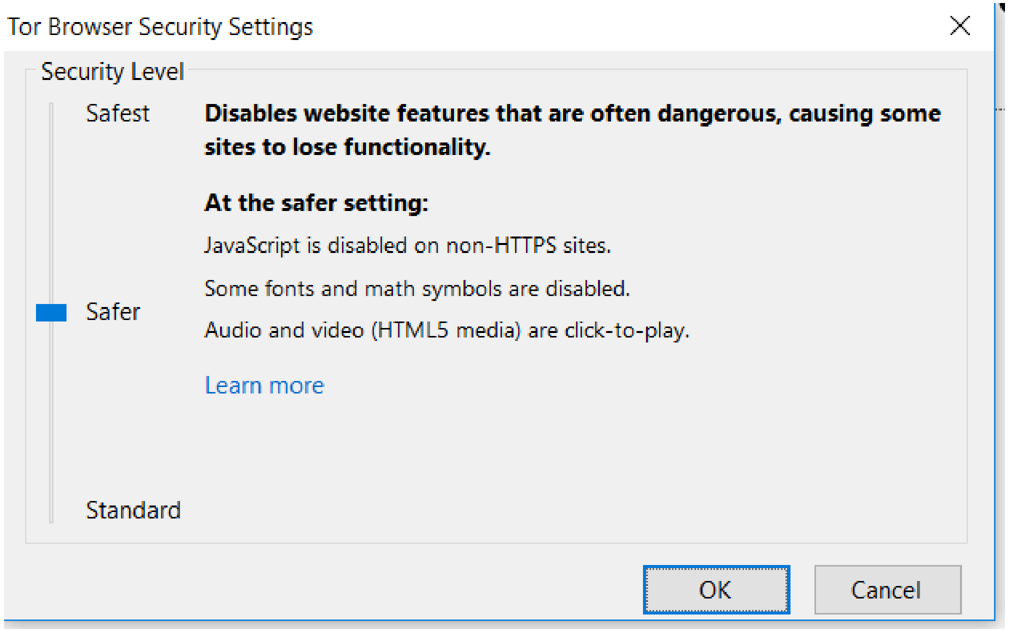
Tor Browser Security Settings

Security Level

All Tor Browser and website features are enabled.

Learn more

SecureDrop – N.B. Tor level slider



Security Level: Safer

Disables website features that are often dangerous, causing some sites to lose functionality.

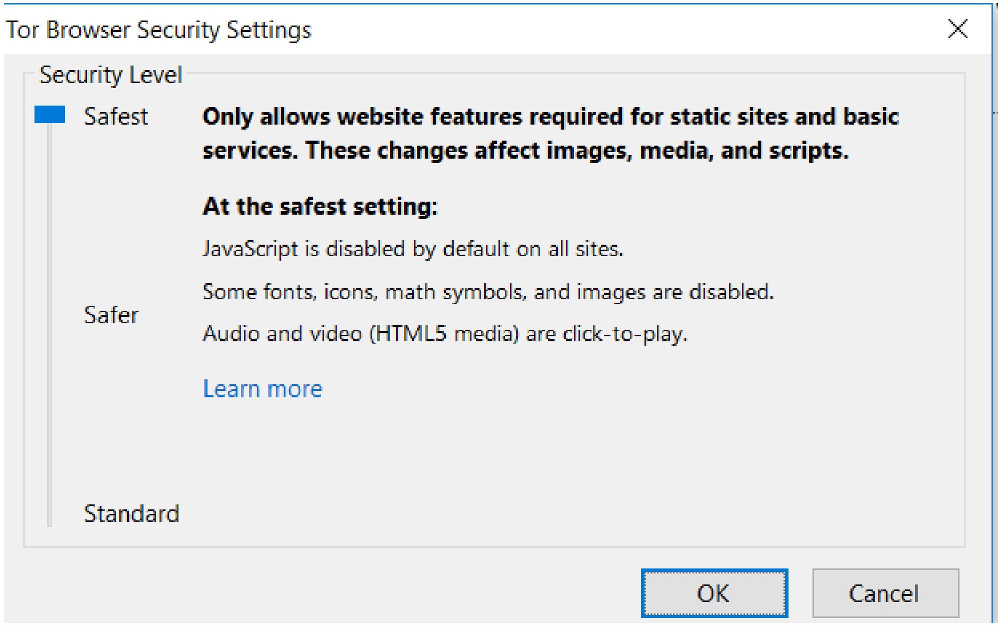
At the safer setting:

JavaScript is disabled on non-HTTPS sites.

Some fonts and math symbols are disabled.

Audio and video (HTML5 media) are click-to-play.

SecureDrop – N.B. Tor level slider



Tor Browser Security Settings

Security Level

Only allows website features required for static sites and basic services. These changes affect images, media, and scripts.

At the safest setting:

JavaScript is disabled by default on all sites.

Some fonts, icons, math symbols, and images are disabled.

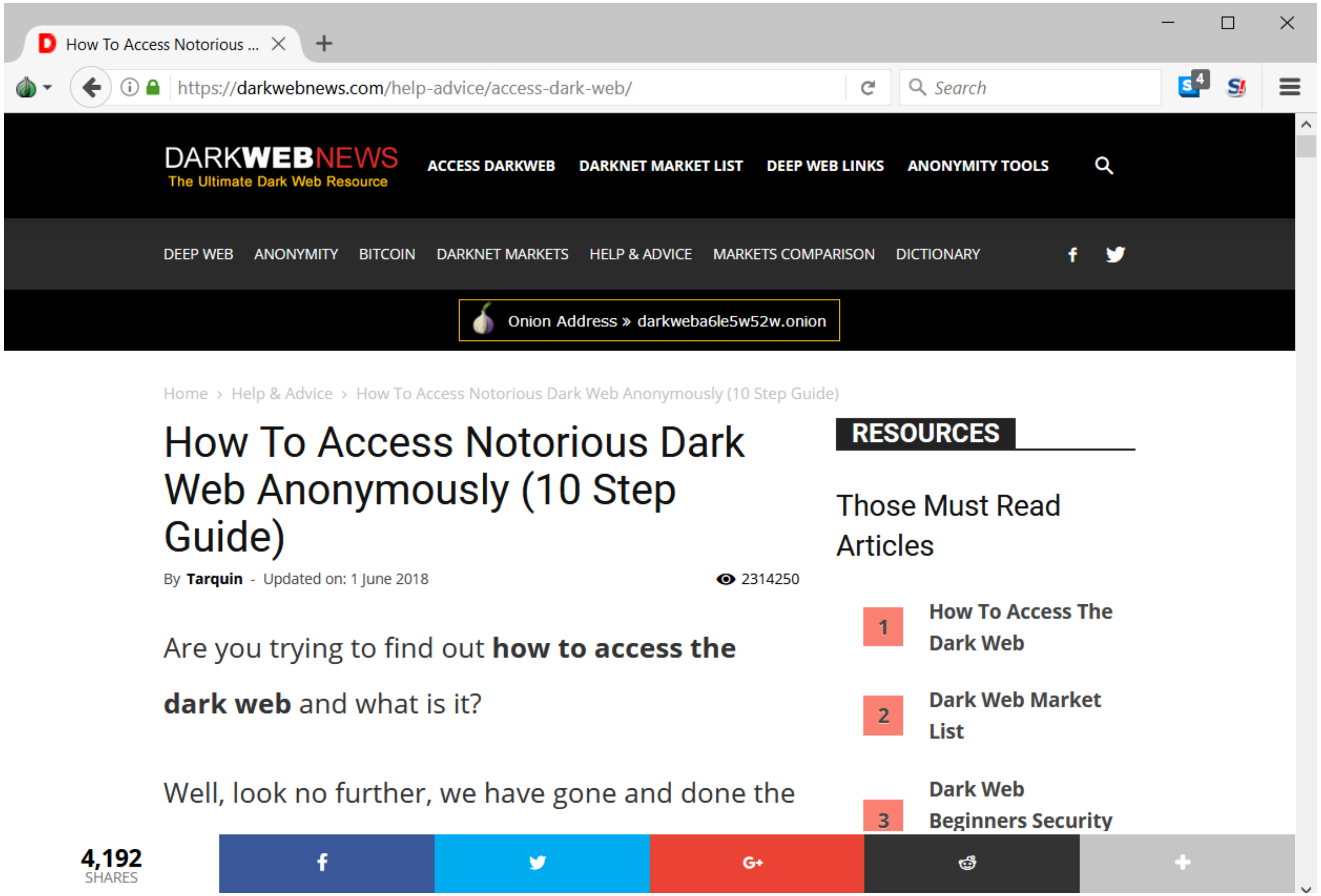
Audio and video (HTML5 media) are click-to-play.

Learn more

“Dark Web”

- Use the “we don’t log search engine queries, honest” DuckDuckGo default search engine configured in Tor Browser customised Firefox web browser
- e.g. https://darkwebnews.com/help-advice/access-dark-web/

“Dark Web”


How To Access Notorious ...
https://darkwebnews.com/help-advice/access-dark-web/
Search
DARKWEBNEWS
The Ultimate Dark Web Resource
ACCESS DARKWEB
DARKNET MARKET LIST
DEEP WEB LINKS
ANONYMITY TOOLS
DEEP WEB
ANONYMITY
BITCOIN
DARKNET MARKETS
HELP & ADVICE
MARKETS COMPARISON
DICTIONARY
Onion Address » darkweba6le5w52w.onion
Home › Help & Advice › How To Access Notorious Dark Web Anonymously (10 Step Guide)
4,192
SHARES

How To Access Notorious Dark Web Anonymously (10 Step Guide)

By **Tarquin** - Updated on: 1 June 2018 2314250

Are you trying to find out **how to access the dark web** and what is it?

Well, look no further, we have gone and done the

RESOURCES

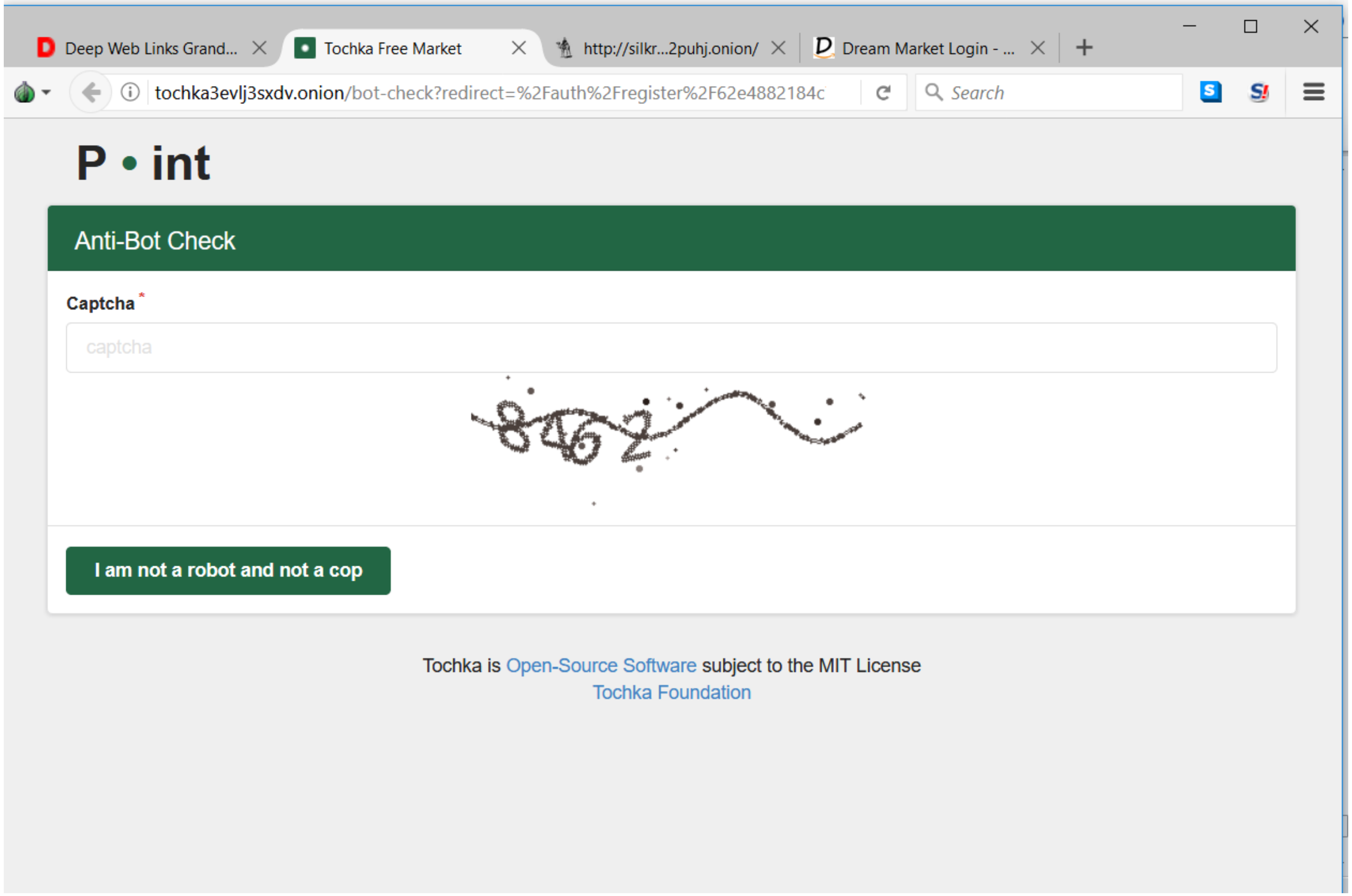
Those Must Read Articles

1 How To Access The Dark Web

2 Dark Web Market List

3 Dark Web Beginners Security

“Dark Web”


Deep Web Links Grand...
Tochka Free Market
http://silkr...2puhj.onion/
Dream Market Login - ...
tochka3evlj3sxdv.onion/bot-check?redirect=%2Fauth%2Fregister%2F62e4882184c
Search

P • int

Anti-Bot Check

Captcha *

captcha

I am not a robot and not a cop

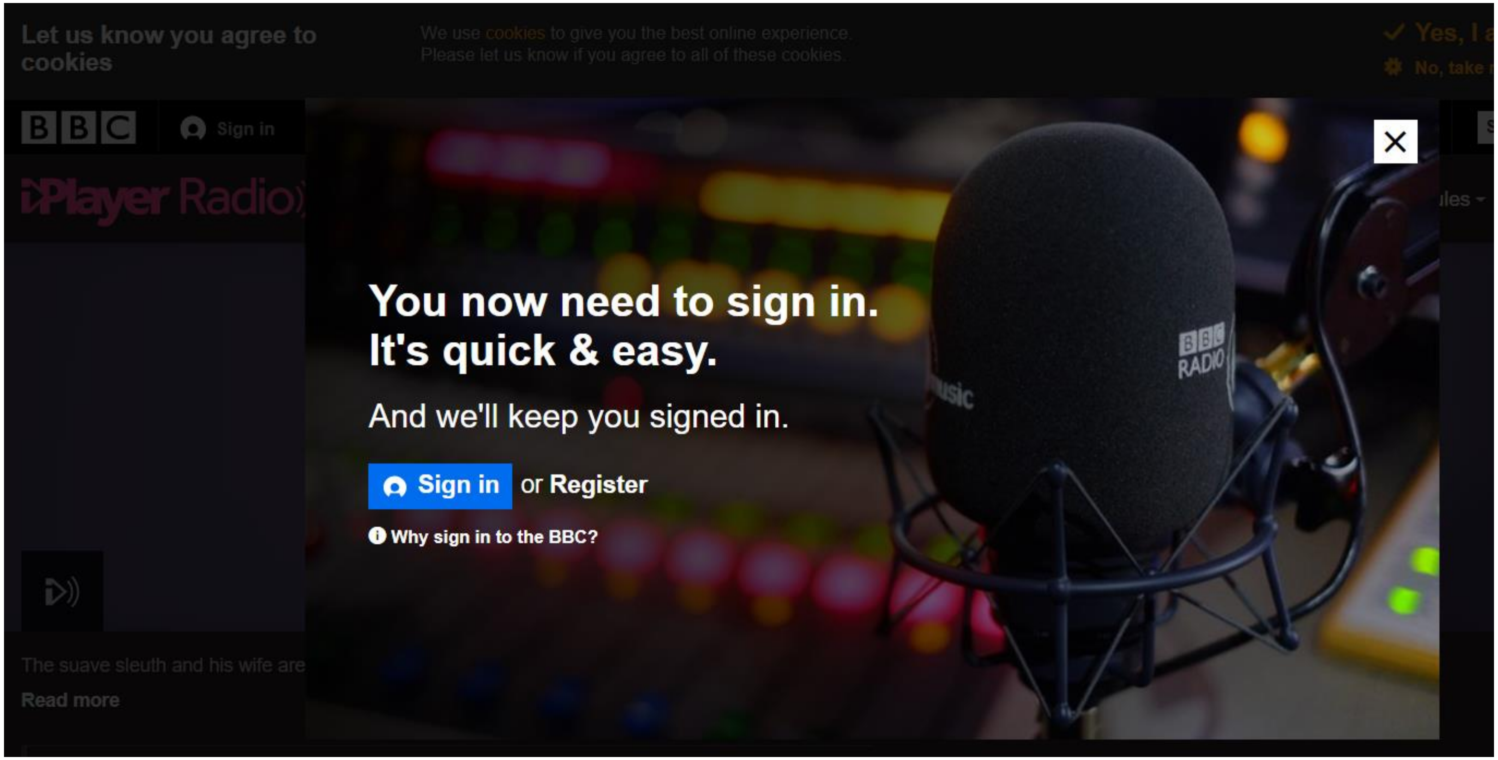
Tochka is Open-Source Software subject to the MIT License
Tochka Foundation

BBC Radio streaming without registering a BBC tracking account

- Do you
  - – Pay the BBC Licence Fee tax ?
  - – Resent having to provide BBC with tracking data about your every use of BBC radio streaming ?
- Then use Tor via TAILS to listen to BBC 4 Extra old comedy or drama radio shows

BBC Radio streaming without registering a BBC tracking account

- Without TOR
- https://www.bbc.co.uk/radio/play/b007jzds



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We use cookies to give you the best online experience. Please let us know if you agree to all of these cookies.

You now need to sign in. It's quick & easy.

And we'll keep you signed in.

Sign in or Register

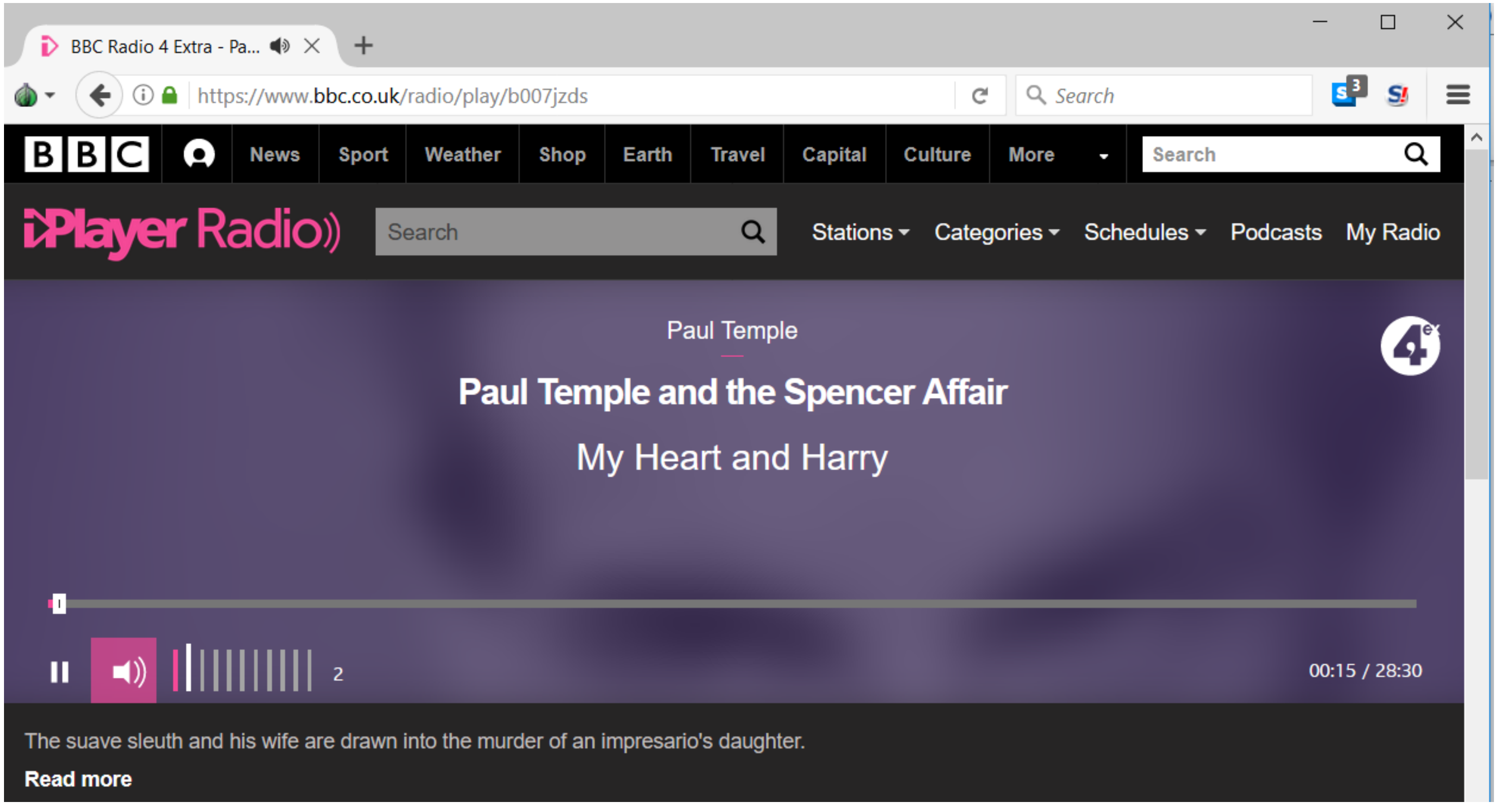
Why sign in to the BBC?

The suave sleuth and his wife are

Read more

BBC Radio streaming without registering a BBC tracking account

- With TOR
- https://www.bbc.co.uk/radio/play/b007jzds



Paul Temple

Paul Temple and the Spencer Affair

My Heart and Harry

The suave sleuth and his wife are drawn into the murder of an impresario's daughter.

Questions ?

Anonymity SwapShop

- Also the regular Anonymity SwapShop - bring along spare social media accounts, SIM Cards, Oyster Cards, burner phones etc. to swap or barter with other people, so as to muddy your data trails.

- See me afterwards