

TAILS – THE AMNESIC INCOGNITO LIVE SYSTEM

- Operating system designed to protect anonymity and privacy.
- Routes **all** traffic through the TOR network → No leaks.
- **Live OS** → it boots from a USB or a DVD.
- **Amnesic** – leaves no traces of usage.
 - Only uses RAM.
 - Never touches other storage space.
- Comes with a number of encryption & privacy tools



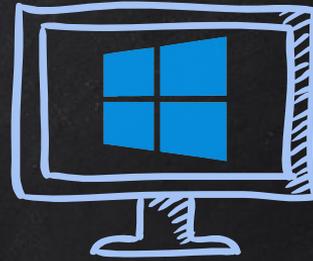
TAILS – INSTALLATION OPTIONS



1. As a **virtual** machine – Loses lots of its benefits:
 - Not fully live.
 - Will leave traces.
 - Not as secure as live.
 - Host OS can still leak info.
2. Burn on **DVD** – None persistent.
3. On **USB** stick – Supports persistence.

Note: Once installed, tails will work on any computer **regardless** of what OS it runs by default.

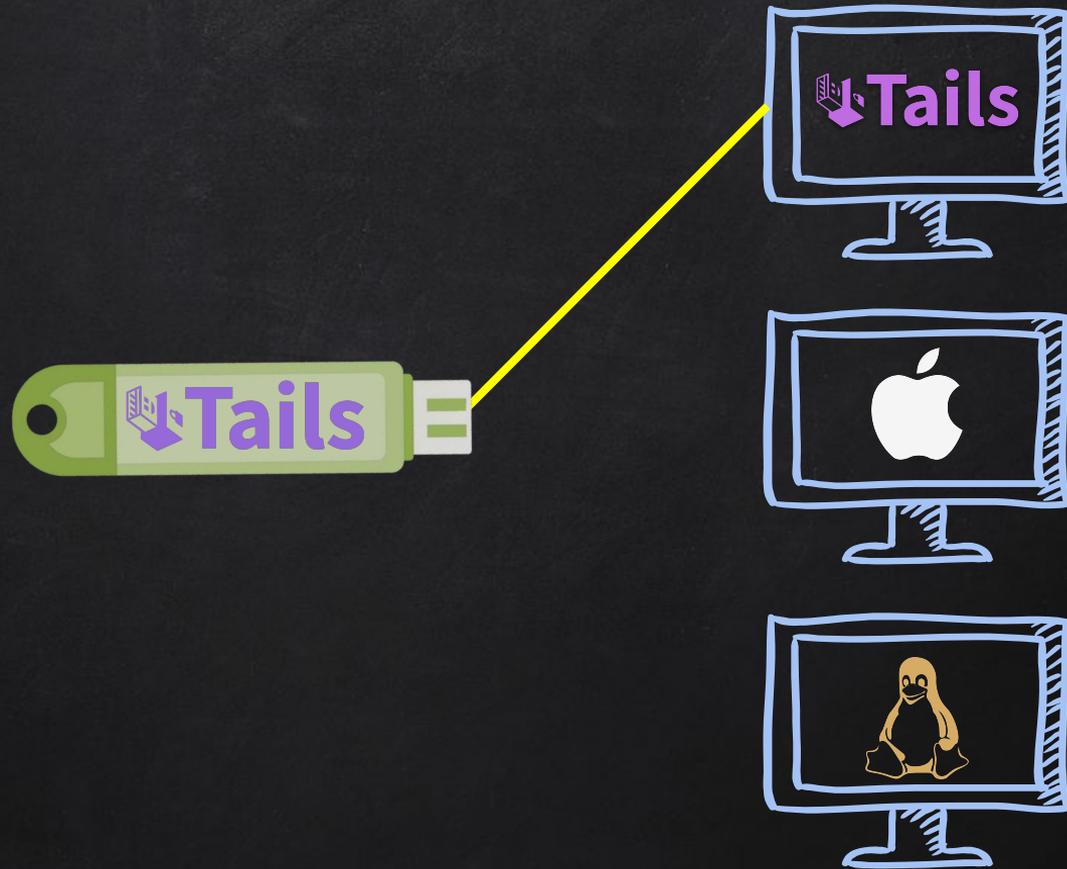
INSTALLING TAILS



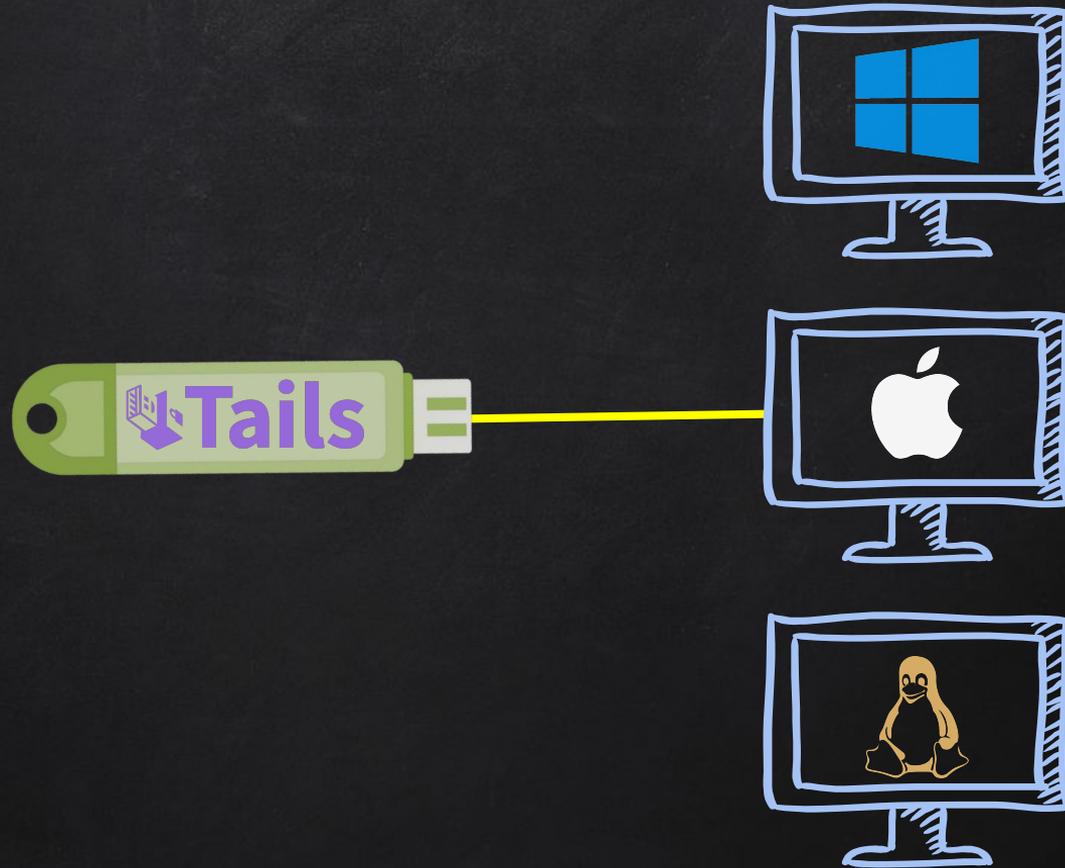
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USB Stick
Min Size 8Gb



Etcher



Tails USB Image



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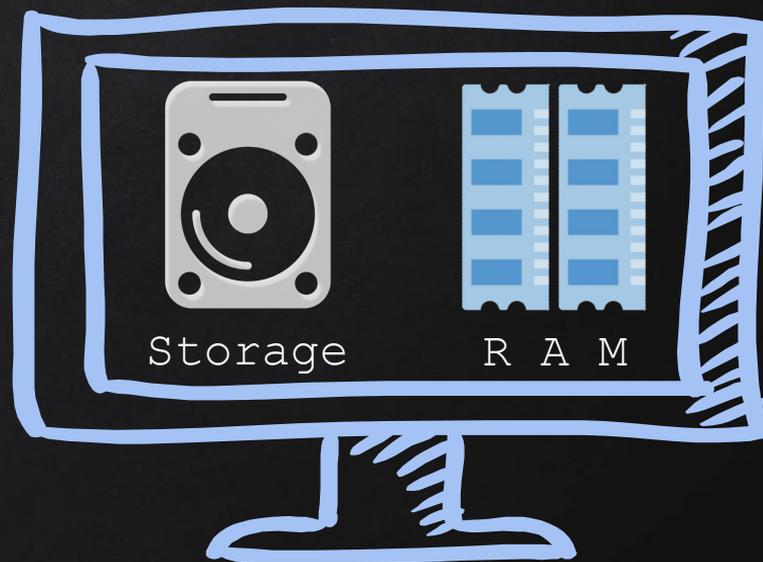
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STARTING TAILS

1. Connect Tails USB.
2. Start/restart computer.
3. Enter the boot menu.
4. Boot from USB/External storage.



Acer	Esc, F12, F9
Asus	Esc, F8
Dell	F12
Fujitsu	F12, Esc
HP	F9
Lenovo	F12, Novo, F8, F10
Samsung	Esc, F12, F2
Sony	F11, Esc, F10
Toshiba	F12
others..	F12, Esc

TAILS – PERSISTENCE



- Tails is **live** and **amnesic**.
 - Never uses computer storage.
 - Only relies on RAM.
- Sores nothing forgets everything when shut down.

Benefits – Improved secure, privacy & anonymity.

Disadvantages – Can't store anything.

TAILS – PERSISTENCE



- Persistence allows us to **store** files on Tails.
- Computer storage is still left untouched.
- Uses space left on the USB flash drive.
- The persistent volume is **encrypted** with LUKS with a passphrase of your choice.
- At boot you'll have the choice to unlock the persistent storage.

TAILS – PERSISTENCE



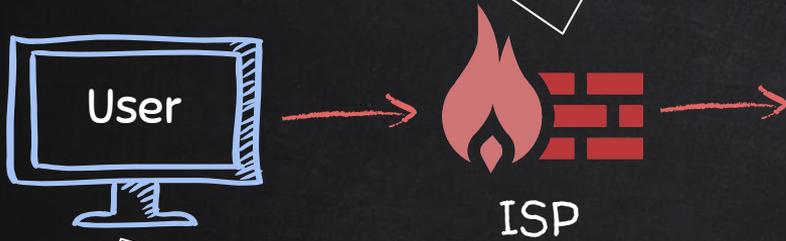
Benefits

- Best of both worlds!
- Store files, passwords, keys ...etc
- *Modify settings.*
- *Install programs/plugins.*

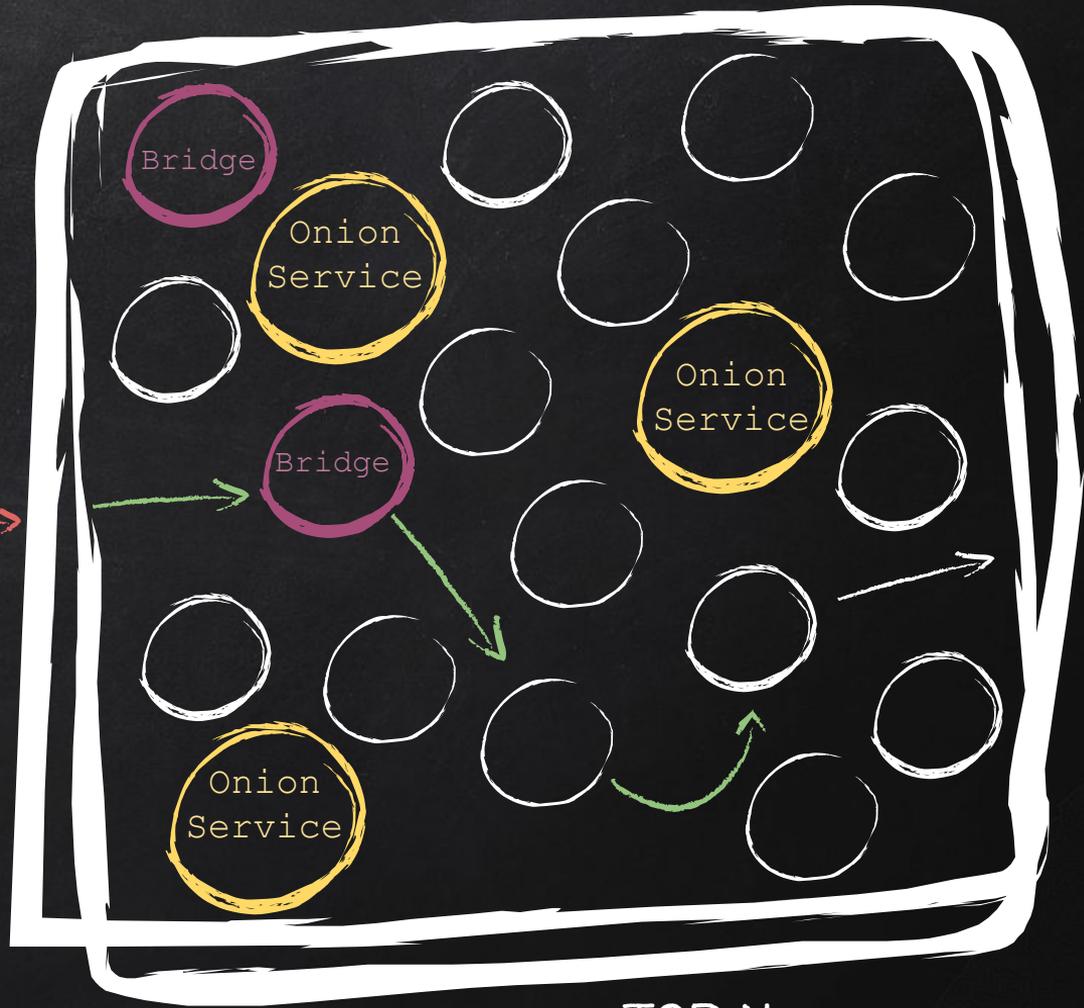
Disadvantages

1. More unique → easier to detect.
2. Incorrect settings or vulnerable software can compromise your anonymity.

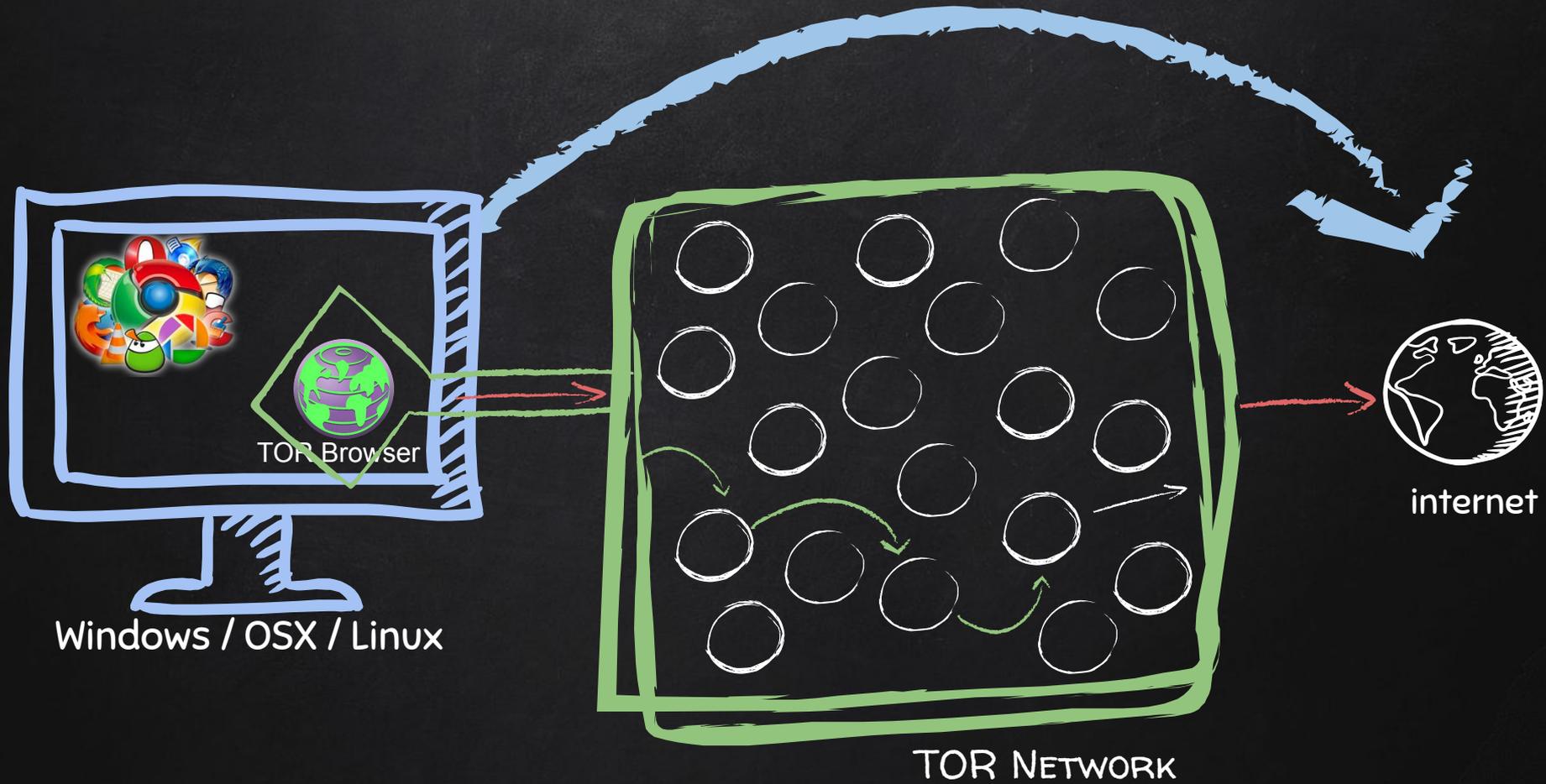
1. **Block** ALL tor relays.
2. Use DPI (Deep Packet Filtering) to identify and **block TOR traffic**.

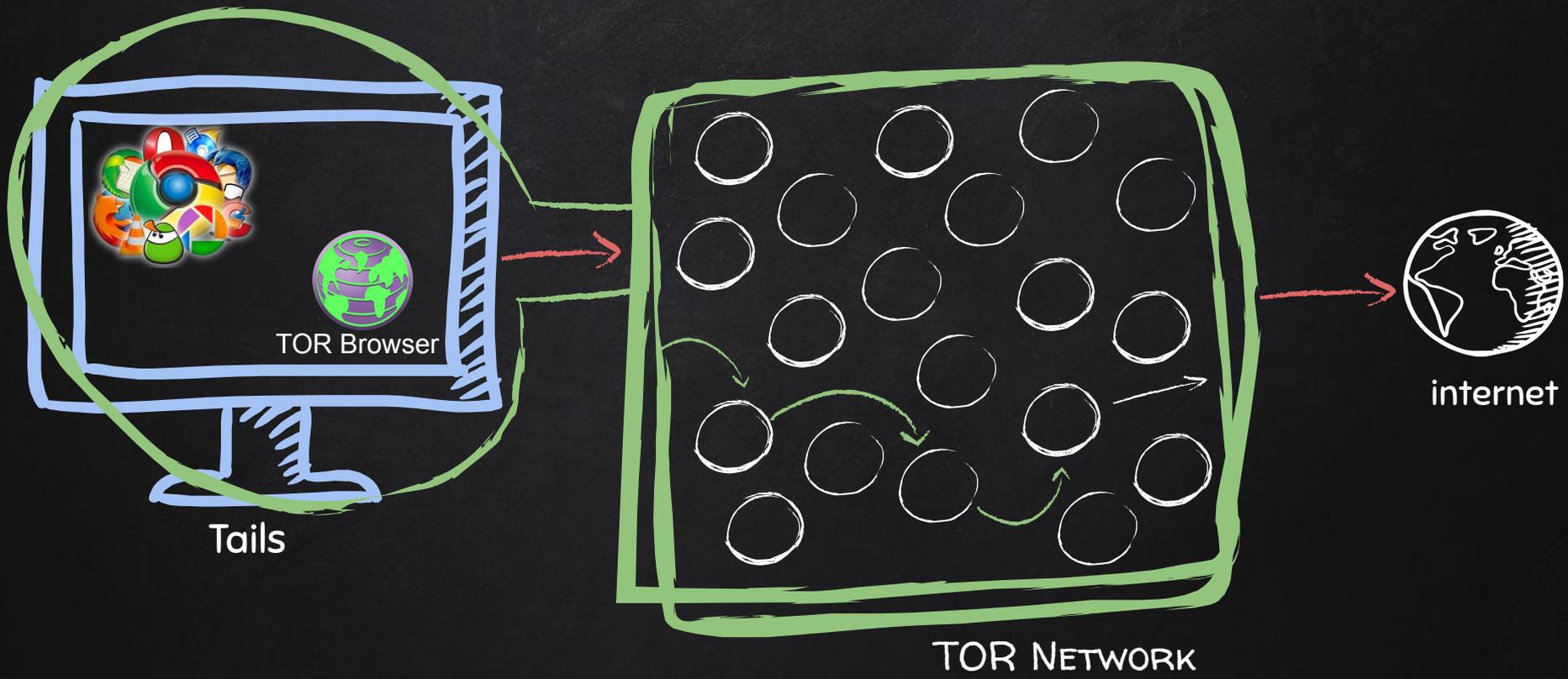


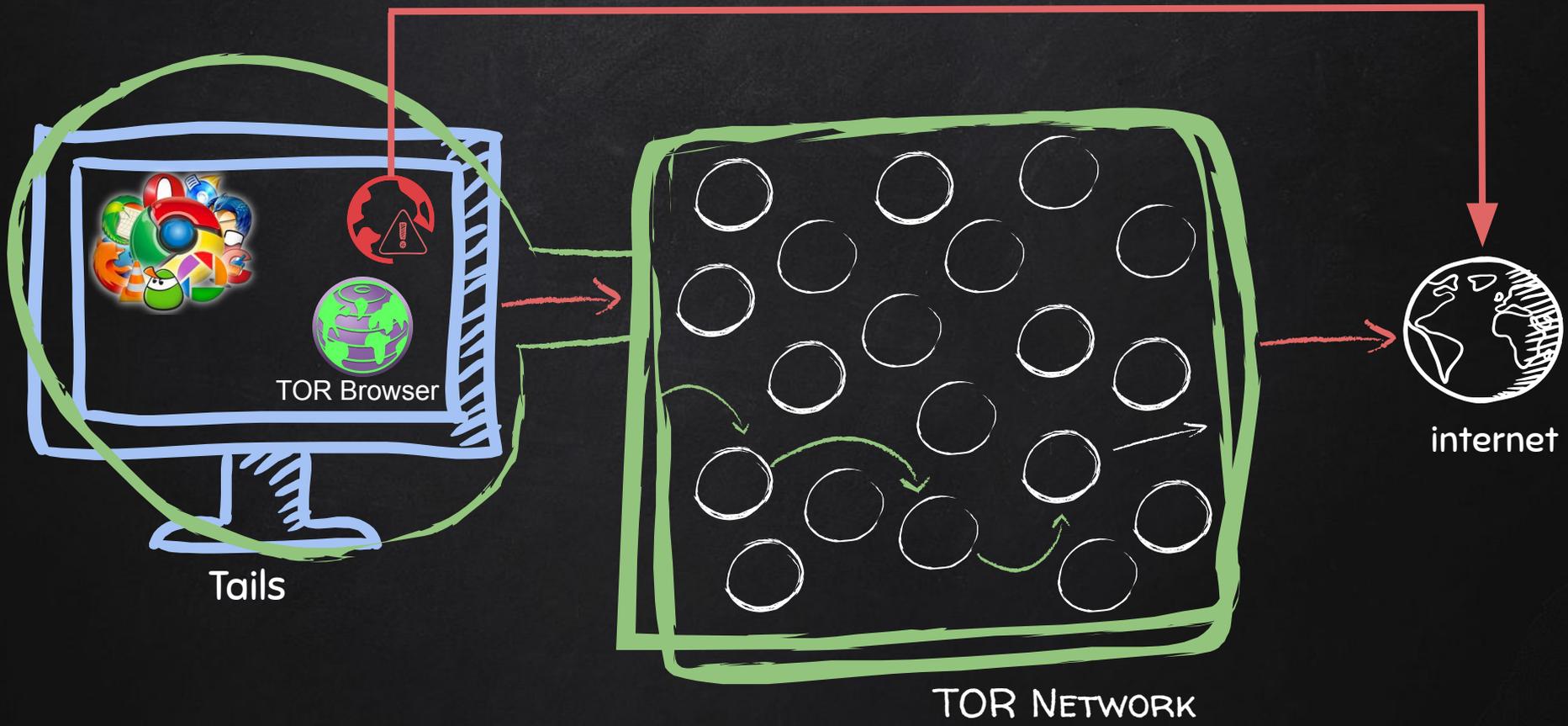
1. Use unpublished relays (**bridges**).
2. Use **pluggable transports** to obfuscate traffic.



TOR NETWORK







Tails

TOR Browser

TOR NETWORK

internet

ENTRY POINTS – EXPLAIN .ONION SITES

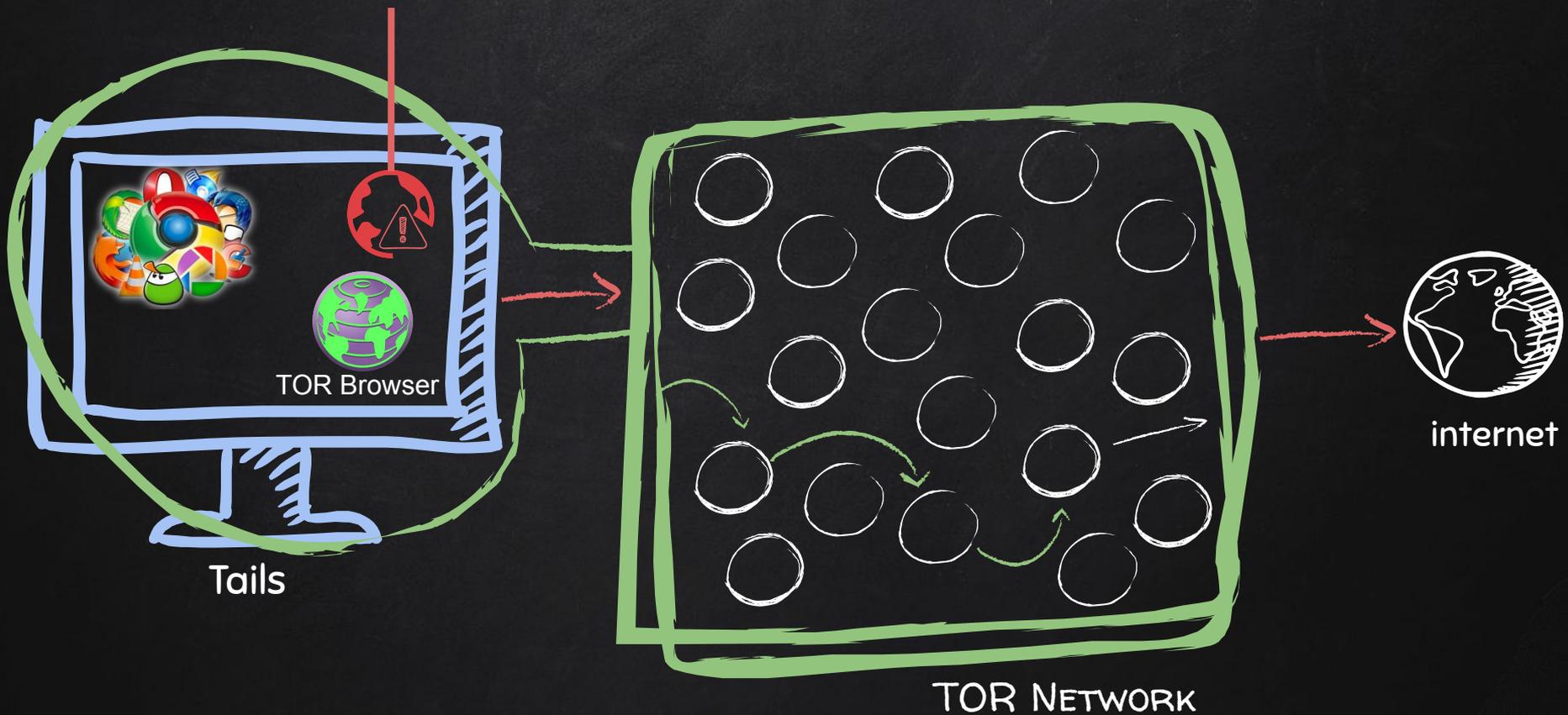


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