**Tails**

**The best for security, privacy and anonymity**

Can use Tor or I2P as an anonymising service

* All connections to the internet are forced through a proxy to preserve DNS, IPv6 leaks and any leaks if Tor was to momentarily drop
* Doesn’t use computers Hard Disk even if space was available
* Only storage used is the RAM or memory which is automatically erased when machine is shut down
* LUKS, GnuPG, HTTPS everywhere, OpenPGP, encryption methods
* Can boot into a VM or physical machine
  + VMs are less secure as guest can be compromised if host is

However, Tails and Tor are not enough to remain anonymous to high level adversaries like nation states

If you need to access the local hard-disks of the computer you are using, be aware that you might leave a trace of your activities with Tails on it

Tails doesn’t clear the meta data of your documents for you and doesn’t encrypt the subject and other headers of your encrypted email messages

Don’t use the same Tails session for two different identities

Claws mail leaks plaintext of encrypted emails to IMAP servers

* Best mitigation is to use POP instead of IMAP

Lack of physical and or virtual isolation

* Torification happens within the Tails Os
* Would be better to happen on a logical device like on a hardware router or virtual gateway like with Whonix
* This means that if Tails gets Rooted then the adversary could bypass the Tails protection and get the users real IP easier than if the Tor enforcing proxy was hosted on a separate device

The machines used to run the Tails OS will have hardware serial numbers on the motherboard that can be uniquely identified

* Could potentially be found by malware running on Tails
* This can tie the device back to the purchaser and identify you
* VMs can hide the serial number which is a benefit of using VMs
  + Will use a temporary virtual drive to run Tails which is deleted when the VM is closed
  + But not necessarily permanently deleted, depending on the hard drive, it might only be marked as new sectors or not wiped completely
  + More a variable with SSDs