

# Encryption - General Info

## When Should You Use Encryption?

<https://www.howtogeek.com/200113/htg-explains-when-should-you-use-encryption/>

## What Is Encryption, and How Does It Work?

<https://www.howtogeek.com/howto/33949/htg-explains-what-is-encryption-and-how-does-it-work/>

## What Should I Know About Encryption?

<https://ssd.eff.org/en/module/what-should-i-know-about-encryption>

## How to encrypt a Mac storage device

<https://www.macworld.com/article/344206/how-to-encrypt-a-mac-storage-device.html>

## Public-key cryptography

[https://en.wikipedia.org/wiki/Public-key\\_cryptography](https://en.wikipedia.org/wiki/Public-key_cryptography)

## GNU Privacy Guard

[https://en.wikipedia.org/wiki/GNU\\_Privacy\\_Guard](https://en.wikipedia.org/wiki/GNU_Privacy_Guard)

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# Encryption Software Download Sources

**The GNU Privacy Guard** - a complete and free implementation of the OpenPGP standard (also known as PGP). GnuPG allows you to encrypt and sign your data and communications. (Requires use of the Macintosh Terminal application.)

<https://gnupg.org>

**GPG Suite** - encrypt, decrypt, sign and verify files or messages. Manage your GPG Keychain with a few simple clicks and experience the full power of GPG easier than ever before. *GPG Suite provides free encryption capabilities in a Macintosh-friendly manner.* (There is a fee for continued use in Apple Mail after a 30-day trial period. After 30 days, all other functionality remains available for free.)

<https://gpgtools.com/>

**VeraCrypt** - a free and open-source utility for on-the-fly encryption. The software can create a virtual encrypted disk that works just like a regular disk but within a file.

<https://veracrypt.fr/en/Home.html>

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# Encryption - Software Installation & Set Up

**GnuPG Set Up Guide** - Comprehensive instructions on how to install GnuPG encryption on you Mac, set up the Thunderbird email app to use encryption, and how to use the encryption email bot “Edward” to send and receive your first encrypted emails.

<https://emailselfdefense.fsf.org/en/index.html>

**GPG Suite** - Brief overview video of installing and setting up GPG Suite

<https://gpgtools.tenderapp.com/kb/how-to/watch-screencast>

(On this same page there also a more comprehensive setup video from ScreenCastsOnline, though it is slightly outdated.)

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## Encrypted Email Options:

**ProtonMail** - Secure end-to-end encrypted Email, based in Switzerland. Free and subscription service tiers. (Does not require separate installation of OpenPGP software.)

<https://protonmail.com>

**Thunderbird** is a free email application that’s easy to set up and customize. It supports OpenPGP encryption. (Requires separate installation of the free OpenPGP software.)

<https://www.thunderbird.net/en-US/>

**Mailvelope** is a browser add-on that you can use in Chrome, Edge and Firefox to securely encrypt your emails with PGP using webmail providers

<https://mailvelope.com/en>

**MailFence** - Security features protect your email privacy at all times.

<https://mailfence.com>

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## Encrypted Messaging, Voice and Video

**Signal** - end-to-end encryption (powered by the open source Signal Protocol) secures your message, voice and video conversations. Free and cross-platform.

<https://www.signal.org>