

# GnuPG Cheat Sheet

## Introduction

GnuPG (also known as GPG) is a free implementation of the OpenPGP standard. It is used to encrypt and sign data and communication.

## Installation

Install GnuPG using your package manager or download it from [gnupg.org](https://gnupg.org).

## Listing keys

Command	Description
<code>gpg --list-keys</code>	List public keys
<code>gpg --list-secret-keys</code>	List secret keys
<code>gpg --fingerprint</code>	Show the fingerprint of all keys
<code>gpg --fingerprint &lt;key&gt;</code>	Show the fingerprint of a key

## Key management

Command	Description
<code>gpg --generate-key</code>	Generate a new key pair
<code>gpg --quick-generate-key</code>	Quickly generate a new key pair with default settings
<code>gpg --full-generate-key</code>	Generate a new key pair with advanced settings
<code>gpg --quick-add-uid &lt;key&gt;</code>	Add a user ID to a key
<code>gpg --quick-revoke-uid &lt;key&gt;</code>	Revoke a user ID from a key
<code>gpg --quick-set-expire &lt;key&gt;</code>	Set an expiration date for a key
<code>gpg --edit-key &lt;key&gt;</code>	Enter the key edit menu
<code>gpg --delete-key &lt;key&gt;</code>	Delete a key
<code>gpg --delete-secret-key &lt;key&gt;</code>	Delete a secret key

## Key edit menu

Command	Description
<code>list</code>	List keys and user IDs
<code>uid &lt;number&gt;</code>	Select a user ID
<code>key &lt;number&gt;</code>	Select a subkey
<code>adduid</code>	Add a user ID
<code>deluid</code>	Delete a user ID
<code>addkey</code>	Add a subkey
<code>delkey</code>	Delete a subkey
<code>expire</code>	Set an expiration date
<code>quit</code>	Quit the key edit menu
<code>save</code>	Save changes and quit the key edit menu
<code>help</code>	Show help

## Importing & exporting keys

Command	Description
<code>gpg --import &lt;file&gt;</code>	Import a key from a file
<code>gpg --export &lt;key&gt;</code>	Export a public key
<code>gpg --export-secret-keys &lt;key&gt;</code>	Export a secret key
<code>gpg --export --armor &lt;key&gt;</code>	Export a public key in ASCII armor format

## Key servers

Command	Description
<code>gpg --send-keys &lt;key&gt;</code>	Upload a key to a key server
<code>gpg --recv-keys &lt;key&gt;</code>	Download a key from a key server
<code>gpg --search-keys &lt;key&gt;</code>	Search for a key on a key server
<code>gpg --refresh-keys</code>	Download updates from a key server

## Encrypting and decrypting

Command	Description
<code>gpg --encrypt --recipient &lt;key&gt;</code>	Encrypt a file with the recipient's public key
<code>gpg --symmetric &lt;file&gt;</code>	Encrypt a file with a symmetric cipher
<code>gpg --decrypt &lt;file&gt;</code>	Decrypt a file with your private key

## Signing and verifying

Command	Description
<code>gpg --sign &lt;file&gt;</code>	Sign a file with your private key
<code>gpg --clear-sign &lt;file&gt;</code>	Sign a file and add the signature in ASCII armor format
<code>gpg --verify &lt;file&gt;</code>	Verify a file with the sender's public key

## Smartcards / YubiKey

Command	Description
<code>gpg --card-status</code>	Show information about the smartcard
<code>gpg --edit-card</code>	Enter the card edit menu

## Card edit menu

Command	Description
<code>admin</code>	Enable administrative commands
<code>name</code>	Change the cardholder's name
<code>help</code>	Show help
<code>quit</code>	Quit the card edit menu

## GPG Agent

Command	Description
<code>gpg-agent --daemon</code>	Start the GPG agent