

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.

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 <key></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 <key></code>	Add a user ID to a key
<code>gpg --quick-revoke-uid <key></code>	Revoke a user ID from a key
<code>gpg --quick-set-expire <key></code>	Set an expiration date for a key
<code>gpg --edit-key <key></code>	Enter the key edit menu
<code>gpg --delete-key <key></code>	Delete a key
<code>gpg --delete-secret-key <key></code>	Delete a secret key

Key edit menu

Command	Description
<code>list</code>	List keys and user IDs
<code>uid <number></code>	Select a user ID
<code>key <number></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 <file></code>	Import a key from a file
<code>gpg --export <key></code>	Export a public key
<code>gpg --export-secret-keys <key></code>	Export a secret key
<code>gpg --export --armor <key></code>	Export a public key in ASCII armor format

Key servers

Command	Description
<code>gpg --send-keys <key></code>	Upload a key to a key server
<code>gpg --recv-keys <key></code>	Download a key from a key server
<code>gpg --search-keys <key></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 <key></code>	Encrypt a file with the recipient's public key
<code>gpg --symmetric <file></code>	Encrypt a file with a symmetric cipher
<code>gpg --decrypt <file></code>	Decrypt a file with your private key

Signing and verifying

Command	Description
<code>gpg --sign <file></code>	Sign a file with your private key
<code>gpg --clear-sign <file></code>	Sign a file and add the signature in ASCII armor format
<code>gpg --verify <file></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