

# Encryption

Some simple pages on encryption software.

- [Age](#)
- [GPG](#)

# Age

Simple file encryption software that's unix only.

## Generating key file with password protection

```
age-keygen | age -p > key.age
```

## Basic key info

```
# created: 2023-03-28T22:22:05+02:00
# public key: pub key
SECRET-KEY
```

## Encryption with key

```
age -r PUBLIC-KEY **file-name** > **output-file**
```

## Decryption with key

Enter password if keyfile encrypted with one

```
age -d -i **path/to/key** **file-name** > **output-file**
```

## Tared file

```
tar -cv directory | age r PUBLIC-KEY > **output-file**
```

# GPG

How to use gpg for encryptions

## Creation of keys

```
gpg --full-generate-key
```

## Update expiration date

```
gpg --edit-key **email**  
ls  
key 0  
expire  
save
```

## Changing the password

```
gpg --passwd **email**
```

## Revoke/expire the key

```
# Generate your revoke certificate  
gpg --output revoke.asc --gen-revoke key-ID  
# Import the keys  
gpg --import revoke.asc  
# Search your key on the key-server  
gpg --keyserver pgp.mit.edu --search-keys key-ID  
# Send the revoked key to the key-server  
gpg --keyserver pgp.mit.edu --send-keys key-ID
```

# Backup private key

## To backup

```
gpg -o private.gpg --export-options backup --export-secret-keys **email**
```

## To import

```
# Import the key
gpg --import-options restore --import private.gpg
# Edit the key
gpg --edit-key **email**
# Choose 5 to completely trust the key
trust
```