GPG tool

Option	Description
generate-key	Generate key
encrypt	Encrypt file
decrypt	Decrypt file
list-keys	List keys on GPG
import /export	Import or export keys
full-generate-key	Generate key (more details)
gen-revoke	Generate certificate to revoke key
keyserver	Interact with public keyserver
search-keys	Search keys on public keyserver
fingerprint	Fingerprint of certificate / key
recipient	Email associated

GPG tool – Generate key

```
## gpg --generate-key
gpg (GnuPG) 2.2.40; Copyright (C) 2022 g10 Code GmbH
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There is NO WARRANTY, to the extent permitted by law.

Note: Use "gpg --full-generate-key" for a full featured key generation dialog.

GnuPG needs to construct a user ID to identify your key.

Real name: pablogonzalezpe
Email address: pablo@mypublicinbox.com
You selected this USER-ID:
    "pablogonzalezpe <pablo@mypublicinbox.com>"

Change (N)ame, (E)mail, or (O)kay/(Q)uit? o
We need to generate a lot of random bytes. It is a good idea to perform some other action (type on the keyboard, move the mouse, utilize the disks) during the prime generation; this gives the random number generator a better chance to gain enough entropy.

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```

GPG tool – List keys

GPG tool – Revoke Certificate

```
□$ gpg --output /tmp/myrevocation.crt --gen-revoke pablo@mypublicinbox.com
sec rsa3072/A7287AA54BF91913 2024-04-11 pablogonzalezpe <pablo@mypublicinbox.com>
Create a revocation certificate for this key? (y/N) y
Please select the reason for the revocation:
 0 = No reason specified
 1 = Key has been compromised
 2 = Key is superseded
 3 = Key is no longer used
 Q = Cancel
(Probably you want to select 1 here)
Your decision? 1
Enter an optional description; end it with an empty line:
Reason for revocation: Key has been compromised
(No description given)
Is this okay? (y/N) y
ASCII armored output forced.
Revocation certificate created.
```

- GPG tool Import / export and search keys
- \$> gpg --import <file.key>
- \$> gpg --keyserver <domain keyserver> --search-keys <email>
- \$> gpg --output <file.key> --armor --export <email>

```
$ gpg --output /tmp/exported.key --armor --export pablo@mypublicinbox.com

[(kali@kali)-[~]

$ ls -lh /tmp/exported.key

-rw-r--r- 1 kali kali 2.5K Apr 11 22:35 /tmp/exported.key

[(kali@kali)-[~]

$ file /tmp/exported.key

/tmp/exported.key: PGP public key block Public-Key (old)
```

- \$> gpg --output <file.key> --armor --export <email>
- \$> gpg --send-keys --keyserver <domain keyserver> <fingerprint>
 - \$> gpg --fingerprint <email>

- GPG tool encrypt / decrypt
- \$> gpg --encrypt --armor --recipient <email> <file>
 - · Output: file.asc
- \$> gpg --encrypt --recipient <email> <file>
 - Output: file.gpg (file illegible)
- \$> gpg --decrypt > <file>
 - · Output: plaintext file