## 1. Clave generada

# 2. Clave pública en ASCII

```
labo-miranda@debian-labo:~$ gpg --output miranda.gpg --export 00086320@uca.edu.sv
labo-miranda@debian-labo:~$ gpg --armor --export 00086320@uca.edu.sv
----BEGIN PGP PUBLIC KEY BLOCK-----
```

mQGNBGMG8YYBDAC4Yu/pZt/QUsELGrehrSegu3wIGFjk0JH5odJPsBHHQMKEIbJr COTBgFlMjlcFBZow5tooaXxLpFHjjKRGiI6LQ7+i66SPYwJksUivW7C5RBXHC0Xc 5wYGIOlhkX+YNapUpFlg61u1gmMvid2ACuquFQ2DHHJ3qBKSnBQI5hk04efRLE/L NiNUmATIHHvjWbYeg22XhMRfrf4i5ZzOR1vr4t2dl8puORaJGZLTHp/K1drkO1bN tDYKt/b3Bb0UWalc9FWdjAl7X0QLwOBGcPLnE0iS3o94bCI0p+tjv0fS8sWTtRMH gzb3/GqwLxRXoFD7l086yngluHkrdKgtugg@lsFnHGIWXBpzEBonjejLnW04aeJZ qMr5UtgiSCqBVoRQGWNoeNhmaP7c4DT9EhayJ6JLF3I3W6DaASvdLIAaKJBEgTZX v6rJtk1MNRDR02nPN3PxEKbLog8JEsQn7ogZ/azfsXL0tyf9IsRwz024x+5S4J85 FvPB0teaJX6CkgkAEQEAAbRSTWFyaXNvbCBBYmlnYWlsIE1pcmFuZGEgRmxvcmVz IChMYWJvcmF0b3JpbzAxIFNFRCAtIE1pcmFuZGEpIDwwMDA4NjMyMEB1Y2EuZWR1 LnN2PokBzgQTAQoA0BYhB07+/PGfwteS+xvgZvVzyDGH0hJ0BQJjBvGGAhsDBQsJ CAcCBhUKCQgLAgQWAgMBAh4BAheAAAoJEPVzyDGH0hJ06FYL/0r4gauK/I08Bjqv +P2BpQ0/HlWARjU0wUDdktNf84uI9L5318BRB7yi+fV5dgkhpkTcTvfYBv+Mknam I2VNkg12/6bauuFJliPLFhy/+ngufjH8I3PhLFX/49xmA6T0u4AFYA0fNbKDdlTP +bbDbHczdvLVec0k9XF8mk0QfFY5Qi38N1Ve+wDMYzVXW4QQ8UqvieDmwvVwzGEw YqAxMpItQ646EkoD+kq7PclVsXFgBDBrlzzppRSUcBfQtkWzLlqV6mNYy/RE0E7z vGBEGf8a514wzBAO+ZAQXQbuwzgi4Y6dFwwUundGElI4MUQKEamVvcp157gdEfKn k90tpURIk4Y1QFmQGaAwgn5pK/ubckMpui45/rDU4w9MCddi0aE0u1egp+xeaD4E Phnb/Z1QrmomFoaUHsz+mSgnRL3/05+Xr/vE0uTR4/pWNX6JWKkqNXS1HwmkT5JM 969Pj5Y09txtLZNZqSkVu5o0G3RPwmnowUBSX/XRTme1bIw70rkBjQRjBvGGAQwA qRwPDK2nps5Ng7LL2V3VELuK8Iag7zcz99yA63m/bAfTPrEzpdlq91dcX+ADY6Fn sMjahDLycRWCi6aLAow9Qr6aMBtU90+LY+CC3PzNTKxDb5uY73xm1EbWEWKFCcNQ hNTF9IsVdcrrFbrzIdcikhE4I/8G9xYAlANpdNVmgYe6acNlGy/EHVPy/Z33z9AR gRd2jQ2nXp96osPEZVdD4KGVu5ipulJGl035mPM0qlRTXsB2LlVbYXj8P08spm6h 2gunELPo+a+MZ3VEy6sD4oRe+9i9YNZP7mzRgRWN6D2SBa0PBf1dLCHGMVIbfkNx C5RobSr9bS9P58M9+W2KU6fiVeMoSAxWLWiZ0AjmW892k3jPeZVmwZNkSxpbh5sv i+VfCW6eVn06EenAQKx/cv2VNsn2YJmj3eUCROwv7cpdjZwiHohdtfebQB8wvWyR kwNLEJdhzRwgVRz1uGHJ4ujqZCpUybja2tS4eokCfrgFCTq3FG+ImKg0jC5CdLl7 ABEBAAGJAbYEGAEKACAWIQTu/vzxn8LXkvsb4Gb1c8gxhzoSTgUCYwbxhgIbDAAK CRD1c8gxhzoSTuRCC/9wiWEuJE91FM00PCHY3th2UKWASMgP2vwK+hnGWdfapNBm 3FpHx6NIaXhtZXqDR1x0EYaq6oW0J70Totix735coyE1Jl31ulT1bcNd0qVvRWHR Vl64GUovgilzYXs+mJunbip/luKBKV+wmPboKC7YElMfHYwomg61qv2t4aQqP/6Y LbZPAwNq6cGnftKSvW3LNx8/5bHxW6kco0b/fQQXxgJmh64LQn0vGybcLZu0xPqV BIvo09y8prN04aUBJ0HP3bI4MXm5hkbILz91PuXRQgTwACfNRGb6EgofKwczq/se CgToYKVs3WAIdnYS+8CJYc3l77dDWUIclz/9pTgU0y5qSi9+kAiPDmkDRd4ct5bE CBjzWl25rCehq4jDdJH204Z/NLwGbJK0iSVFXzt5D53hTkLKU5SOVDNrAYKN06fu jMz8aaWu6KX7nnK32qpnCFr6NhmXdFkLtr5YpdAUy0K7y6svWAfIzbGLow8AZwPt kighCwyVC2s6xX7KKnQ=

```
=t6Q9
----END PGP PUBLIC KEY BLOCK-----
labo-miranda@debian-labo:~$
```

labo-miranda@debian-labo:~\$ gpg --export-secret-keys --armor marisol > ./my-priv-gpg-key.asc labo-miranda@debian-labo:~\$ ■

## 3. Lista de claves importadas (Miguel y Nestor)

```
labo-miranda@debian-labo:~$ gpg --list-key
/home/labo-miranda/.gnupg/pubring.kbx
      rsa3072 2022-08-25 [SC]
pub
      EEFEFCF19FC2D792FB1BE066F573C831873A124E
              [ultimate] Marisol Abigail Miranda Flores (Laboratorio01 SED - Miranda) <00086320@uca.edu.sv>
      rsa3072 2022-08-25 [E]
sub
      rsa3072 2022-08-17 [SC] [expires: 2022-10-16]
bub
      FE42FA6AEB275595B093D4F322FD98109A7AB1C3
                full ] miguel rivas (clave for uca sei) <00087518@uca.edu.sv>
uid
      rsa3072 2022-08-17 [E] [expires: 2022-10-16]
sub
      rsa3072 2022-08-17 [SC]
pub
      9EE66B446C0E7BC1B74E6DE9CB584318958A9202
uid
               full ] Nestor Santiago Aldana Rodriguez (GnuPGP Guide - For UCA in SED) <naldana@uca.edu.sv>
      rsa3072 2022-08-17 [E]
sub
labo-miranda@debian-labo:~$
```

## 4. Archivo cifrado simétrico

```
labo-miranda@debian-labo:~$ cat history.txt.gpg
                      0080 00008e0q0000003pH00K070*0N005000(00#0V0
       ∨00^ŕΚ00000Po
000?000f9p0^00002f00
00,~00;@00Y000a0qnc000u20K000qz 00Kc C0s00C!c300∰i∰000H?0<0h0060v0
NF2h02040oJ0(L0V0z000
                    σθθθηθΑ}*θθθθθςθ)θθθLoò!400.θc1040Iuθ?θHθmθθθθdθθ按 θθ‱α1^Αθ/~Μθθθθθθ
80cV000d000$0YaI-0I000t0006c00Y00><0"
500t[S=00p000r0;000w0200c00
                          000#0007000H0T0
                                         00$>"0(0[0'00000*0*000010
0000*0i y0%.B000f0*3U00z04qp0600Ce00000000s0jFk($x0k]000000+9008+mF
p/a00G0?0000G0100R0.000000Ng0Y%j1zG000000!0"00.>000[00 0000:0a00C+F00
0000j000x.i=<000000[0^0lo0?x00<del>0t</del>0000
                                  0000 (00Y00
                                            0P 000030%0000)00B0000
labo-miranda@debian-labo:~$
```

### 5. Archivo cifrado Asimétrico

```
labo-miranda@debian-labo:~$ gpg --output historyPublicKey.txt.gpg --
encrypt --recipient 00086320@uca.edu.sv historyPublicKey.txt
```

## 6. Proceso de firma y archivos firmados



#### Primer forma de firmar

```
labo-miranda@debian-labo:~$ nano pk-marisol.gpg
labo-miranda@debian-labo:~$ gpg --output pk-marisol.sig --sign pk-ma
risol.gpg
```

### Otra forma de firmar

```
labo-miranda@debian-labo:~$ gpg --output pk-marisolm.sig --detach-sig pk-marisol.gpg labo-miranda@debian-labo:~$ gpg --verify pk-marisolm.sig pk-marisol.gpg gpg: Signature made Thu 25 Aug 2022 12:59:50 AM CDT gpg: using RSA key EEFEFCF19FC2D792FB1BE066F573C831873A124E gpg: Good signature from "Marisol Abigail Miranda Flores (Laboratorio01 SED - Miranda) <00086320@uca.edu.sv>" [ultimate]
```

### Puede ser descifrado por Miguel y Néstor

```
labo-miranda@debian-labo:~$ gpg -e -r "naldana@uca.edu.sv" -r "00087518@uca.edu.sv"
 pk-marisol.txt
gpg: can't open 'pk-marisol.txt': No such file or directory
gpg: pk-marisol.txt: encryption failed: No such file or directory
labo-miranda@debian-labo:~$ ls
                         history.txt
                                              Pictures
                                                                  Public
                                                                  Templates
Documents
                         history.txt.gpg
                                              pk-marisol.gpg
Downloads
                         miranda.gpg
                                              pk-marisolm.sig
                                                                  Videos
historyPublicKey.txt
                         Music
                                              pk-marisol.sig
historyPublicKey.txt.gpg my-priv-gpg-key.asc pk-marisol.txt.gpg
labo-miranda@debian-labo:~$
```

# 7. Configuración de GitHub

### Git y la verificación

```
labo-miranda@debian-labo:~$ gpg --armor --export EEFEFCF19FC2D792FB1BE066F
3A124E
----BEGIN PGP PUBLIC KEY BLOCK----
```

### Agregando una clave GPG



New GPG key

This is a list of GPG keys associated with your account. Remove any keys that you do not recognize.

