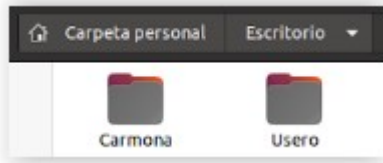


Creamos dos carpetas en , usuario descargamos Insano.jpg



En la terminal nos metemos dentro de carmona y hacemos `gpg --full-generate-key`

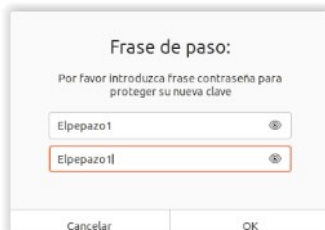
```
usuario@usuario-MS-7817:~/Escritorio/Carmona$ gpg --full-generate-key
gpg (GnuPG) 2.2.19; Copyright (C) 2019 Free Software Foundation, Inc.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Por favor seleccione tipo de clave deseado:
(1) RSA y RSA (por defecto)
(2) DSA y ElGamal
(3) DSA (sólo firmar)
(4) RSA (sólo firmar)
(14) Existing key from card
Su elección: 1
Las claves RSA pueden tener entre 1024 y 4096 bits de longitud.
De qué tamaño quiere la clave? (3072) 4096
El tamaño requerido es de 4096 bits
Por favor, especifique el periodo de validez de la clave.
0 = la clave nunca caduca
<n> = la clave caduca en n días
<nw> = la clave caduca en n semanas
<nm> = la clave caduca en n meses
<ny> = la clave caduca en n años
Validez de la clave (0)? 1a
La clave caduca jue 29 dic 2022 09:12:23 CET
Es correcto? (s/n) s

GnuPG debe construir un ID de usuario para identificar su clave.
Nombre y apellidos: Francisco Fernández Carmona
Dirección de correo electrónico: franciscofdezcarmona@gmail.com
Comentario: Seguridad Cifrado Asimétrico
Está usando el juego de caracteres 'utf-8'.
Ha seleccionado este ID de usuario:
"Francisco Fernández Carmona (Seguridad Cifrado Asimétrico) <franciscofdezcarmona@gmail.com>"

Cambia (N)ombre, (C)omentario, (D)irección o (U)tiliz(e)ar:
Es necesario generar muchos bytes aleatorios. Es una buena idea realizar
alguna otra tarea (trabajar en otra ventana/console, mover el ratón, usar
la red y los discos) durante la generación de números primos. Esto da al
```

Nos pedirá una contraseña



Exportamos la clave

```
usuario@usuario-MS-7817:~/Escritorio/Carmona$ gpg -a -o carmona.publica.asc --export franciscofdezcarmona@gmail.com
```

Nos vamos a la carpeta de Usuario con `cd` y hacemos `gpg --full-generate-key` nuestra contraseña de paso es Elpepillo1

```
usuario@usuario-MS-7817:~/Escritorio/Usuario$ gpg --full-generate-key
gpg (GnuPG) 2.2.19; Copyright (C) 2019 Free Software Foundation, Inc.
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.

Por favor seleccione tipo de clave deseado:
(1) RSA y RSA (por defecto)
(2) DSA y ElGamal
(3) DSA (sólo firmar)
(4) RSA (sólo firmar)
(14) Existing key from card
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Las claves RSA pueden tener entre 1024 y 4096 bits de longitud.
De qué tamaño quiere la clave? (3072) 4096
El tamaño requerido es de 4096 bits
Por favor, especifique el periodo de validez de la clave.
0 = la clave nunca caduca
<n> = la clave caduca en n días
<nw> = la clave caduca en n semanas
<nm> = la clave caduca en n meses
<ny> = la clave caduca en n años
Validez de la clave (0)? 1a
La clave caduca jue 29 dic 2022 09:16:58 CET

Es correcto? (s/n) s

GnuPG debe construir un ID de usuario para identificar su clave.
Nombre y apellidos: Francisco Urra Sanchez
Dirección de correo electrónico: francisco.urras@gmail.com
Comentario: Australia time camillon
Está usando el juego de caracteres 'utf-8'.
Ha seleccionado este ID de usuario:
"Francisco Urra Sanchez (Australia time camillon) <urras_sanchez@gmail.com>"

Cambia (N)ombre, (C)omentario, (D)irección o (U)tiliz(e)ar:
Es necesario generar muchos bytes aleatorios. Es una buena idea realizar
alguna otra tarea (trabajar en otra ventana/console, mover el ratón, usar
la red y los discos) durante la generación de números primos. Esto da al
usuario de memoria aleatorios mejor que cualquier otro método.
Es necesario generar muchos bytes aleatorios. Es una buena idea realizar
alguna otra tarea (trabajar en otra ventana/console, mover el ratón, usar
la red y los discos) durante la generación de números primos. Esto da al
usuario de memoria aleatorios mejor que cualquier otro método.
El archivo 81280F3108A6190 creado como de confianza absoluta
por certificado de revocación guardado como "/home/usuario/.gnupg/openpgp-revocs.d/81280F3108A6190.rev"
tiene pública y secreta creadas y firmadas.

uid
uid.1: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.2: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.3: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.4: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.5: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.6: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.7: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.8: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.9: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.10: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.11: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.12: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
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uid.183: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.184: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.185: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.186: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.187: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.188: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.189: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.190: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.191: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.192: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.193: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.194: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.195: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.196: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.197: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.198: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.199: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.200: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.201: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.202: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.203: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.204: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.205: 81280F3108A6190 [C] (index: 0) 1: 1: 29-22 at 08:22 AM
uid.206: 81280F3108A6190 [C] (index: 0) 1: 1: 29-
```

Exportamos la clave y miramos como van las claves

[illegible]

Manualmente copiamos la clave publica de carmona a la carpeta de usuario



Encriptamos la imagen usando la clave publica de carmona

```
usuario@usuario-MS-7B17:~/Escritorio/Users$ gpg -o Insanoperacarnoma.g
pg -r franciscofedecarnoma0@gmail.com -e insanop.jpg
usuario@usuario-MS-7B17:~/Escritorio/Users$ ls -l
total 400
-rw-rw-r--r-- 1 usuario usuario 3232 nov 29 09:15 carnoma_publica.asc
-rw-rw-r--r-- 1 usuario usuario 201665 nov 28 08:09 insanop.jpg
-rw-rw-r--r-- 1 usuario usuario 251785 nov 29 09:25 insanoperacarnoma.gpg
-rw-rw-r--r-- 1 usuario usuario 3212 nov 29 09:22 usuario.pwlltcc.asc
usuario@usuario-MS-7B17:~/Escritorio/Users$
```

Movemos la imagen encriptada a la carpeta de carmona



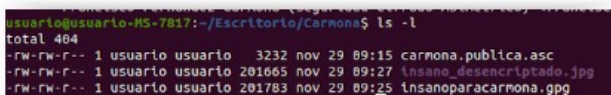
Con cd nos metemos dentro de la carpeta de carmona y des-enciptamos la imagen  
 insanoparacarmona.gpg

```
usuario@usuario-MS-7817:~/Escritorio/Usuario$ cd
usuario@usuario-MS-7817:~$ cd Escritorio/Canona
bash: cd: Escritorio/Canona: No existe el archivo o el directorio
usuario@usuario-MS-7817:~$ cd Escritorio/Carmona
usuario@usuario-MS-7817:~/Escritorio/Carmona$ gpg -o insano_descript
ado.jpg --decrypt insanoparacarmona.gpg
```

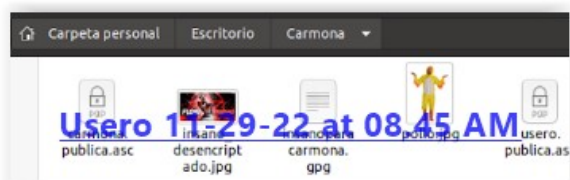
Metemos su clave de paso que es Elpepazo1



Vemos que sea a des-encryptado bien



Descargamos la imagen pollo.jpg en la carpeta de carmona y ponemos la contraseña publica de usuario en la carpeta de carmona



Encriptamos la imagen del pollo.jpg

```
usuario@usuario-MS-7B17:~/Escritorio/Carmona$ gpg -o polloparausero.gpg  
-r usero.sanchez.f@gmail.com -e pollo.jpg
```

Dentro de usero des-encriptamos la imagen polloparausero.gpg

```
usuario@usuario-MS-7B17:~/Escritorio$ cd Usero/  
usuario@usuario-MS-7B17:~/Escritorio/Usero$ gpg -o pollo_desencriptado.jpg --decrypt polloparausero.gpg  
gpg: cifrado con clave de 4096 bits RSA, ID F6A85503A24084D4, creada el 2022-11-29  
"Francisco Usero Sánchez (Australia tiene camellos) <usero.sanchez.f@gmail.com>"
```

Metemos la clave de paso de usero que es Elpepillo1



Vemos que el pollo se a des-encriptado correctamente , se ve que tiene tantos archivos pero son , la imagen pollo des-encriptada , el archivo polloparausero.gpg que copiamos aquí para su descriptación ,(es originario de la carpeta carmona).

Esta insano.jpg que es la imagen original antes de ser encriptada , se ve el archivo insanoparacarmona.gpg que fue cuando encriptamos la imagen .Se ve la clave publica de usero y se ve la clave publica de carmona que esa la copiamos aquí pero es originaria de la carpeta carmona.



Realizado por Francisco Javier Usero Sánchez y Francisco Fernández Carmona