

Создать пару ключей № 1.

```
(base) anna_safonova@safonovau1:~$ gpg --gen-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.

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: Anna Safo
Email address: safonova.anna13@gmail.com
You selected this USER-ID:
    "Anna Safo <safonova.anna13@gmail.com>"

Change (N)ame, (E)mail, or (O)kay/(Q)uit? 0
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.
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.
gpg: key 607AA9822549168B marked as ultimately trusted
gpg: revocation certificate stored as '/home/anna_safonova/.gnupg/openpgp-revocs.d/B76DCF9DE9212F72363A8AB8607AA9822549168B.r
ev'
public and secret key created and signed.

pub   rsa3072 2023-07-09 [SC] [expires: 2025-07-08]
       B76DCF9DE9212F72363A8AB8607AA9822549168B
uid           Anna Safo <safonova.anna13@gmail.com>
sub   rsa3072 2023-07-09 [E] [expires: 2025-07-08]

(base) anna_safonova@safonovau1:~$ gpg --list-secret-keys --keyid-format=long
gpg: checking the trustdb
```

Создать пару ключей № 2 с указанием другой электронной почты.

```
(base) anna_safonova@safonovau1:~$ gpg --gen-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.

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: Anna Safonova
Email address: safonova.anna13@yandex.ru
You selected this USER-ID:
    "Anna Safonova <safonova.anna13@yandex.ru>"

Change (N)ame, (E)mail, or (O)kay/(Q)uit? 0
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.
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.
gpg: key 687097941B123D6D marked as ultimately trusted
gpg: revocation certificate stored as '/home/anna_safonova/.gnupg/openpgp-revocs.d/B1ACB16F04B9CE877BE9AE5687097941B123D6D.r
ev'
public and secret key created and signed.

pub   rsa3072 2023-07-09 [SC] [expires: 2025-07-08]
       B1ACB16F04B9CE877BE9AE5687097941B123D6D
uid           Anna Safonova <safonova.anna13@yandex.ru>
sub   rsa3072 2023-07-09 [E] [expires: 2025-07-08]
```

Зашифровать любой файл с помощью закрытого ключа № 1 на открытом ключе № 2.

Расшифровать файл с помощью закрытого ключа № 2.

```
(base) anna_safonova@safonovau1:~/Documents/gpg_practice$ gpg --list-keys
/home/anna_safonova/.gnupg/pubring.kbx
-----
pub   rsa3072 2023-03-01 [SC] [expires: 2025-02-28]
      51E95FC383C3AFE000113D1F9E50F40A4C36AB8F
uid       [ultimate] Anna Safonova <safonova.anna13@gmail.com>
sub   rsa3072 2023-03-01 [E] [expires: 2025-02-28]

pub   rsa3072 2023-07-09 [SC] [expires: 2025-07-08]
      B76DCF9DE9212F72363A8AB8607AA9822549168B
uid       [ultimate] Anna Safonova <safonova.anna13@gmail.com>
sub   rsa3072 2023-07-09 [E] [expires: 2025-07-08]

pub   rsa3072 2023-07-09 [SC] [expires: 2025-07-08]
      B1ACB16F04B9CE877BE9AEA5607097941B123D6D
uid       [ultimate] Anna Safonova <safonova.anna13@yandex.ru>
sub   rsa3072 2023-07-09 [E] [expires: 2025-07-08]

(base) anna_safonova@safonovau1:~/Documents/gpg_practice$ gpg -e -r safonova.anna13@yandex.ru --output Чебырешка.pdf.enc Чебырешка.pdf
(base) anna_safonova@safonovau1:~/Documents/gpg_practice$ ls -lah
total 88K
drwxrwxr-x 2 anna_safonova anna_safonova 4,0K июл 10 00:26 .
drwxr-xr-x 8 anna_safonova anna_safonova 4,0K июл 10 00:24 ..
-rw-rw-r-- 1 anna_safonova anna_safonova 2,5K июл 10 00:17 gpgkey1.key
-rw-rw-r-- 1 anna_safonova anna_safonova 2,5K июл 10 00:20 gpgkey2.key
-rw-rw-r-- 1 anna_safonova anna_safonova 35K июл 10 00:23 Чебырешка.pdf
-rw-rw-r-- 1 anna_safonova anna_safonova 34K июл 10 00:26 Чебырешка.pdf.enc
(base) anna_safonova@safonovau1:~/Documents/gpg_practice$ gpg -d -o Чебырешка_decrypted.pdf Чебырешка.pdf.enc
gpg: encrypted with 3072-bit RSA key, ID C27DFB1F66CDAAFF, created 2023-07-09
"Anna Safonova <safonova.anna13@yandex.ru>"
(base) anna_safonova@safonovau1:~/Documents/gpg_practice$ ls -lah
total 124K
drwxrwxr-x 2 anna_safonova anna_safonova 4,0K июл 10 00:33 .
drwxr-xr-x 8 anna_safonova anna_safonova 4,0K июл 10 00:24 ..
-rw-rw-r-- 1 anna_safonova anna_safonova 2,5K июл 10 00:17 gpgkey1.key
-rw-rw-r-- 1 anna_safonova anna_safonova 2,5K июл 10 00:20 gpgkey2.key
-rw-rw-r-- 1 anna_safonova anna_safonova 35K июл 10 00:33 Чебырешка_decrypted.pdf
-rw-rw-r-- 1 anna_safonova anna_safonova 35K июл 10 00:23 Чебырешка.pdf
-rw-rw-r-- 1 anna_safonova anna_safonova 34K июл 10 00:26 Чебырешка.pdf.enc
(base) anna_safonova@safonovau1:~/Documents/gpg_practice$
```