

№2

18 .. 2024

, ,

— , git.

1. git
2. SSH
3. GPG
4. Git
5. GitHub
6. .

git gh (. 1).

```
mpzarickaya@mpzarickaya:~$ sudo dnf install git
[sudo] password for mpzarickaya:
Copr repo for gitflow owned by elegos
Copr repo for browserpass owned by maximbaz
Copr repo for iosevka owned by peterwu
Copr repo for iosevka owned by peterwu
Fedora 39 - x86_64
Fedora 39 openh264 (From Cisco) - x86_64
Fedora 39 - x86_64 - Updates
Fedora 39 - x86_64 - Updates
Package git-2.44.0-1.fc39.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
mpzarickaya@mpzarickaya:~$ sudo dnf install gh
Last metadata expiration check: 0:03:51 ago on Fri 16 Aug 2024 21:39:05 MSK.
Package gh-2.45.0-1.fc39.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
mpzarickaya@mpzarickaya:~$
```

email, (. 2).

```
mpzarickaya@mpzarickaya:~$ git config --global user.name "Marina Zaritskaya"  
mpzarickaya@mpzarickaya:~$ git config --global user.email "1132236026@pfur.ru"  
mpzarickaya@mpzarickaya:~$
```

. 2: email

utf-8

git

(. 3).

```
mpzarickaya@mpzarickaya:~$ git config --global core.quotepath false
mpzarickaya@mpzarickaya:~$
```

. 3:

utf-8

git

master (. 4).

```
mpzarickaya@mpzarickaya:~$ git config --global init.defaultBranch master
mpzarickaya@mpzarickaya:~$
```

. 4:

autocrlf safecrlf (. 5).

```
mpzarickaya@mpzarickaya:~$ git config --global core.autocrlf input
mpzarickaya@mpzarickaya:~$ git config --global core.safecrlf warn
mpzarickaya@mpzarickaya:~$
```

. 5: autocrlf safecrlf

SSH

ssh

4096

rsa (. 6).

```
mpzarickaya@mpzarickaya:~$ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/home/mpzarickaya/.ssh/id_rsa):
/home/mpzarickaya/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/mpzarickaya/.ssh/id_rsa
Your public key has been saved in /home/mpzarickaya/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:IdIDAuuQk2JrGJXMkqMoroN62yX7xPPs0eQ3x5TMEYc mpzarickaya@mpzarickaya.mpzarickaya.net
The key's randomart image is:
+---[RSA 4096]-----+
|. = 0 ..      . |
|+ = + . 0      E . |
|@+ . + .      0 |
|Xo. . 0 .      . |
|++      S 0 0 |
|.. . .      = |
|0 . = 0 0 |
|+ .. = + 0.0 0 |
|00..0...= 0 0 |
+----[SHA256]-----+
mpzarickaya@mpzarickaya:~$
```

SSH

ssh ed25519 (. 7).

```
mpzarickaya@mpzarickaya:~$ ssh-keygen -t ed25519
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/mpzarickaya/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/mpzarickaya/.ssh/id_ed25519
Your public key has been saved in /home/mpzarickaya/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:WTZbf1KiYQ1WijkuiEwPBCERh6C02apwuI/VC7uEg9A mpzarickaya@mpzarickaya.mpzarickaya.net
The key's randomart image is:
+--[ED25519 256]--+
|*=+0.      o.. |
|+0+.      + + |
|.o .o      B = o .|
| o.o + . = * + o |
|+.E o o S o . o .|
|=+ .      .    o |
|* + .      |
|* o .      |
|. +..      |
+----[SHA256]-----+
mpzarickaya@mpzarickaya:~$
```

GPG

GPG,

RSA and RSA,

: 4096,

(. 8).

```
mpzarickaya@mpzarickaya:~$ gpg --full-generate-key
gpg (GnuPG) 2.4.4; Copyright (C) 2024 g10 Code GmbH
This is free software: you are free to change and redistribute it.
There is NO WARRANTY, to the extent permitted by law.
```

Please select what kind of key you want:

- (1) RSA and RSA
- (2) DSA and Elgamal
- (3) DSA (sign only)
- (4) RSA (sign only)
- (9) ECC (sign and encrypt) *default*
- (10) ECC (sign only)
- (14) Existing key from card

Your selection? 1

RSA keys may be between 1024 and 4096 bits long.

What keysize do you want? (3072) 4096

Requested keysize is 4096 bits

Please specify how long the key should be valid.

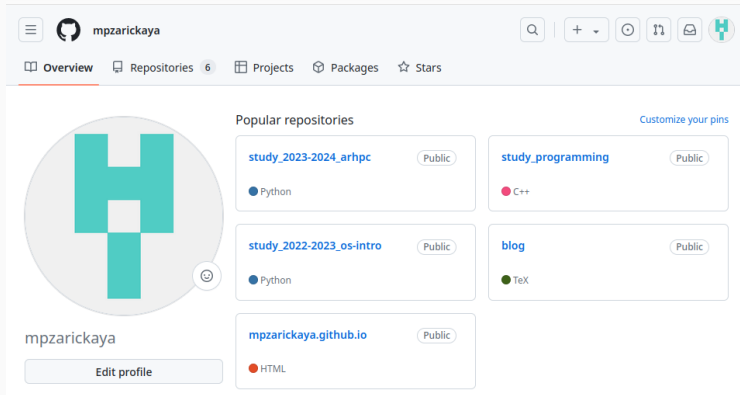
- 0 = key does not expire
- <n> = key expires in n days
- <n>w = key expires in n weeks
- <n>m = key expires in n months
- <n>y = key expires in n years

Key is valid for? (0) 0

Key does not expire at all

Is this correct? (y/N) y

GitHub (. 9).



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(. 10).

```
mpzarickaya@mpzarickaya:~$ gpg --list-secret-keys --keyid-format LONG
gpg: checking the trustdb
gpg: marginals needed: 3 completes needed: 1 trust model: pgp
gpg: depth: 0 valid: 3 signed: 0 trust: 0-, 0q, 0n, 0m, 0f, 3u
[keyboxd]
-----
sec   rsa4096/3D062ADB565EDC58 2024-03-16 [SC]
      6F8D3C161683604BE5D04E283D062ADB565EDC58
uid           [ultimate] Марина <1132236026@pfur.ru>
ssb   rsa4096/D1F94F9821CB3768 2024-03-16 [E]

sec   rsa4096/FE33C74D978EE751 2024-08-16 [SC]
      B1521B4A77C0C2EC8E07A474FE33C74D978EE751
uid           [ultimate] ZaritskayaMarina <1132236026@pfur.ru>
ssb   rsa4096/E3BCCBF2E34E9A48 2024-08-16 [E]

sec   rsa4096/8C1DBEDB2A60B4EA 2024-03-16 [SC]
      B93F0EF17733EDFF41A673B88C1DBEDB2A60B4EA
uid           [ultimate] Марина <1132236026@pfur.ru>
ssb   rsa4096/002212BA2029BA3B 2024-03-16 [E]
```

PGP (. 12).


```
mpzarickaya@mpzarickaya:~$ gpg --list-secret-keys --keyid-format LONG
gpg: checking the trustdb
gpg: marginals needed: 3 completes needed: 1 trust model: pgp
gpg: depth: 0 valid: 3 signed: 0 trust: 0-, 0q, 0n, 0m, 0f, 3u
[keyboard]
-----
sec   rsa4096/3D062ADB565EDC58 2024-03-16 [SC]
      6F8D3C161683604BE5D04E283D062ADB565EDC58
uid           [ultimate] Марина <1132236026@pfur.ru>
ssb   rsa4096/D1F94F9821CB3768 2024-03-16 [E]

sec   rsa4096/FE33C74D978EE751 2024-08-16 [SC]
      B1521B4A77C0C2EC8E07A474FE33C74D978EE751
uid           [ultimate] ZaritskayaMarina <1132236026@pfur.ru>
ssb   rsa4096/E3BCCBF2E34E9A48 2024-08-16 [E]

sec   rsa4096/8C1DBEDB2A60B4EA 2024-03-16 [SC]
      B93F0EF17733EDFF41A673B88C1DBEDB2A60B4EA
uid           [ultimate] Марина <1132236026@pfur.ru>
ssb   rsa4096/0D2212BA2029BA3B 2024-03-16 [E]
```

GPG Github

- GirHub, GPG
- “New GPG key” (. 12).
- GPG GitHub.

**mpzarickaya** (mpzarickaya)
Your personal account

[Go to your personal profile](#)

Public profile

Account

Appearance

Accessibility

Notifications

Access

Billing and plans

Emails

Password and authentication

Sessions

SSH and GPG keys

Organizations

Enterprises

Moderation

Add new GPG key

Title

Key

```
-----BEGIN PGP PUBLIC KEY BLOCK-----

mQINBGX1iFABEADI6dppkOkt9AxLBfgmskP5w4S2ajTh0XbQEi3btwjh3A+WqPfz
aDm101XuZ9JycZLwjwTGzILbyCKCO6fdpB5bePlJ0sm5FwZCOhyJZluaPPnhsMxy
t62aaOTNh1J49jmrwUphnNubhbal0CQLPcVsW5gEtoa8svJy6aREokG/P7uQ7m7n
zo16hsOVHESlKqE4oFmcjA29TI8QypCxNWPbNi8d0eAAAd8ph0Z4VjNHre95veRAR
C1NFU/e3s9QXT4aCAaGBRFZCPaZg1JADpGrHySWz5bka+wzRQw/x7dB4R+ZeSfMs
6wImI9sk2Roy9HBrbP8p7U83L7xW6QmtvUt5Sy0uSwiIlNFeKBY0yVJY67JFa0p9
m/7cjQKH7XcwJKworCgVA3izh9xcHindl97awYh9sG+zi/te0+HwB+Lyz+BGXEkr
DC7ShWYqoB+ZHRgMka21xlUcY44xZKvbrT5nShfKa/ti8ffytvnebjx4r37uAIDG
PTPEm5ACGD5EK2JvtWhjB+nz/6UQieFeXaaYdPSUr+ed9VsG81x1xjoAABm0S0V
Br0PijPfrl95lvqk7k6itYq1j0rQ4b3wSpOWFOiravVjQ8CEy/emDG2X6ejWtcUr
I10Evy450rncFVL+0gvSNLCfHa1XEr9/O1VGzAUeyk0nkucT+YfE0GPR6wARAQAB
tCHQnNCw0YDQuNC90LAQpDExMzIyMzYwMjZAcGZ1ci5ydT6jAIEEEwEiADsWIQRv
jTWwFoNgS+XQTiq9BirbVI7cWAUCZfWUAibAwULCQgHAQIiAqYVCqkICwIEFgID
```

git (. 13).

```
mpzarickaya@mpzarickaya:~$ git config --global user.signingkey 3D062ADB565EDC58
mpzarickaya@mpzarickaya:~$ git config --global commit.gpgsign true
mpzarickaya@mpzarickaya:~$ git config --global gpg.program $(which gpg2)
mpzarickaya@mpzarickaya:~$
```

. 13:

Git

- gh
-
- (. 14).

```
mpzarickaya@mpzarickaya:~$ gh auth login
? What account do you want to log into? GitHub.com
? What is your preferred protocol for Git operations on this host? HTTPS
? How would you like to authenticate GitHub CLI? Login with a web browser

! First copy your one-time code: 5C8F-5F4E
Press Enter to open github.com in your browser... █
```

. 14: gh

mpzarickaya (. 15).



Congratulations, you're all set!

Your device is now connected.

git.

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1. № 2 [] URL:
<https://esystem.rudn.ru/mod/page/view.php?id=970819>