

№2

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git

1. git
2. SSH
3. PGP
4. git
5. Github
- 6.

(Version Control System, VCS)

. , ,

git. (. @fig:001)

```
. 1: git
```

ssh gpg . (. @fig:002)

gpg girhub. (. @fig:003)

. (. @fig:004)

github . (. @fig:005)

. (. @fig:006)

. (. @fig:007)

. (. @fig:008)

git,

VCS git

```

Your public key has been saved in /root/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:0zll5mDEYTSxpqooGmShMUBgryhXuDY4ePCoDy+K8nc root@aaasriyan.aaasriyan.net
The key's randomart image is:
+---[RSA 4096]-----+
|o.      oBo      |
|o       o.o      |
|o+      = +      |
|ooo.    = B      |
|oo...   S + .    |
|==.o    . . .    |
|X.B     .        |
|BO o..E          |
|O==...          |
+---[SHA256]-----+
[root@aaasriyan ~]# gpg --full-generate-key
gpg (GnuPG) 2.4.7; 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

```

. 2:

```
56IIjPpF2QRYdVwBWe3y6b0MyeTz0+SD6MNCJDWvpGtYYZXwXTwdQecQ+OA68Gty
qrjilH7NoPBsqu3QavFwM8401CW2DDwViTAFUfugGia22Y/evEcNxdmyQARAQAB
tCF0YXN0ewFBc3JpYW4gPG5hc3R5TG0NDhAbWFPbC5ydT6JA1EEEwEKADsWIQQB
gb+qk8MPJwt6QEw68n+QExQaAAUCaKR5SgIbAwULCQgHAgIiAgYVCgkICwIEFgID
AQIeBwIXgAAKCRA68n+QExQaANnQEACFsBF0zmtpj+RGijXnuqtX28eg36+DY0Q
zQLJls9yg0Z5os4S1MFzrpXm+rjDC1FUGKrqlfBwdwQrIm32Ju6yzGG5waVNa
bLox1ASvHlEvz81LYvinVe13LbviTyC5a014Ih3A67+xr6GjGBJ2Zf0tp7MvmjPT
602oSk1D3kakQeMl4Nz6XKigaN4yq2zKzi+05V/vopVePGpiaXX0K9buezUWNjMy
MBewmy52C5MUak64RJE4EYzEQfWus1IW12n1UxHR9R3B1B0M6vPjJ5JJTo0PH97q
rxv0gKDMj3+1qGw682bY0CyCblIkP7EFmON5jZK/127TYttvBh/kAZXI1czw9HIt
HnAS34ABD8udZcKXPc6sFF7FfnAwL460CCz+KIA0WNeZgrD16RPN9KwPzYv9S8HG
Qk7uuA/M91dwgJXJ5zbmI/4x1IPzaq2wgaE7v+dK2UqSLso9IqFpCiWQw/yxvx7
JynQbEh0ezEecQyykySDuzFHIItt63Lg9g71Xi0129NlGpT/LHyrN5H23fdgctL2X
MbwYvgX05ydc6bFWHxVHYbIF0CkD8mT1ILlSk7cGEdNwntX78+b1Cb1gm9tpgNw6
l3AmtBPQE97ovWvj/bJmJAR8zwZgoEABcVc/jj3jbspIDCKM8w8J8qUzfjC+2F+G
z2JCvWpSvLkCDQROPHLKARAAon2aKIGRC0fNBSUjFyXB0RJI7yJu53H1/aZDSs8
ENijnSEmUP8U0eQ0nqLRw6f2tx7W/a5IXLtnw4ziE6B+qBCCw15r+xDfCEmNp128
QAsaEoMhJugD45WihZDs1bvIwvLVNuji4dFpnkRwrfmIV5k4uIwnVvsQDlNbc8QQ
AT5G5GfYUvhyp5UcFPAwtXn5HzVmX01iz5qlv0qayPKQwhBPQE2Tdm5y2chrzBSw
2iWqUy2mftmJf5ZFfDkiICoebesj0udlZKGBVbD6tgzbpEzkFGw09oTMyIjrxzV
9BayxkjazirhRc4gwU9MfmIQDgq/E+AMicBBerQJlv7ALtcvfMqJtvAY44F9++MK
tjyA5FQnbgkbCMNMeTw31Sxr30dc/+Hc9qDWNhvRyEzH8Lx17SHiRwi+Fvig9Jau
gNgANRGGD9gEj94Lbe9oAvoNokNz8ZgVVTZggABz5mN1DIsvYNIlgjABc7DN8EN7
6D1l+8Bf7s0zefD/U4gLv0KqZV9b6lXpzqF7qSHbjDhitWEgk1cfNsQe33/PTp/F
xYlPFCPI6gmBG/iV5SsF0uDQ3Whg13D/OTJEsQzuiCV6xDNeSIP9r5Sp1+8nNev
6bqeXAYU5mUetomKESn0iLaATBGGXKeEcN2J2x1/2yiOLZzJM0SvJnWJLyjrG8Js
sGsAEQEAAyKcNgQYAQoAIBYhBAGBv6qTww8n3pATDryf5ATFBoABQJopHlKAhsM
AAoJEDryf5ATFBoALsAP/A3j0ifG3B3A11pLv00gvP1cT68lUySYZjCJPwD9rKlP
u1SmEhdPL7dui8H8IX9rHXAZrRAvqVJZ0ghAgDgt8RY1weMvDYbJvsqYHgVm0d4T
BiYs9Tt4hSZREjSeTL6d9CYU5suhX9t9Xu3NaV1oBsPidpeQ/9x8sWrY0Zqwn0D
VSpXqGoLi1uQinG9QP/sdJ214ZL7LngZpALW+zhjY7y5Y0J7NflfF14KNjYvcr2U
3rQAZECNft21LaIBFhFtwQ+dNRVStoii4A6eR+AWHB/vdJwdhTpqPaITUTyaJHZC
vDwK2l0KIEGvCmJUeuTOFAP6PR+Rbjw90SBWz43LgEtsnedtz1Pu8gCSh7wMswW
W+FL00zCMsyN6ct9Xao1aylFMaxohGhD7v2yxnXLDblYCbp38ihUYUzBdoATwuW
CyylyLoa8iR/Yr50PBL/d6ipSW2ytxp0AzBpHwWYz/sF8wvuufs1SHywnMxR1Inm
CT3b46GPpjxwHeP2x6viA1jeKIolvRSxUr2+nLnrVlhx8bA06M4MeadG7CSgMbEi
OMLpiPn6vV1LoMGNAB2MZsbJXjpqZVm5GMaztjGBbl1I58fSR2Y+/R4uuJ8+Jd9
LTHITyedi8x93PiDwaCRyTaLMnnBC5elP3RnlGpTyNjqza/s0pcXQvcQbRJsy+uA
=JQ2x
-----END PGP PUBLIC KEY BLOCK-----
[aaasriyan@aaasriyan ~]$
```

. 3:

```
[aaasriyan@aaasriyan ~]$ git config --global user.signingkey 3AF27F9013141A00
[aaasriyan@aaasriyan ~]$ git config --global commit.gpgsign true
[aaasriyan@aaasriyan ~]$ git config --global gpg.program $(which gpg2)
```

. 4:

```
[aaasriyan@aaasriyan ~]$ gh auth login
? Where do you use GitHub? GitHub.com
? What is your preferred protocol for Git operations on this host? SSH
? Upload your SSH public key to your GitHub account? /home/aaasriyan/.ssh/id_rsa.pub
? Title for your SSH key: sway
? How would you like to authenticate GitHub CLI? Login with a web browser

! First copy your one-time code: 5E6A-79ED
Press Enter to open https://github.com/login/device in your browser...
✓ Authentication complete.
- gh config set -h github.com git_protocol ssh
✓ Configured git protocol
✓ Uploaded the SSH key to your GitHub account: /home/aaasriyan/.ssh/id_rsa.pub
✓ Logged in as NastyaAsrian
[aaasriyan@aaasriyan ~]$
```

. 5: github

```
[aaasriyan@aaasriyan ~]$ mkdir -p ~/work/study/2024-2025/"Операционные системы"
[aaasriyan@aaasriyan ~]$ cd ~/work/study/2024-2025/"Операционные системы"
[aaasriyan@aaasriyan Операционные системы]$ gh repo create study_2024-2025-os-intro --template=yamadharma/course-directory-student-template --public
Created repository NastyaAsrian/study_2024-2025-os-intro on github.com
https://github.com/NastyaAsrian/study_2024-2025-os-intro
[aaasriyan@aaasriyan Операционные системы]$ git clone --recursive git@github.com:NastyaAsrian/study_2024-2025-os-intro.git os-intro
Cloning into 'os-intro'...
The authenticity of host 'github.com (140.82.121.3)' can't be established.
ED25519 key fingerprint is SHA256:+D1Y3wvV6TujJhpbZisF/zLOA0zPMSvHdkr4UvCOQu.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'github.com' (ED25519) to the list of known hosts.
remote: Enumerating objects: 36, done.
remote: Counting objects: 100% (36/36), done.
remote: Compressing objects: 100% (35/35), done.
remote: Total 36 (delta 1), reused 18 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (36/36), 19.97 KiB | 9.99 MiB/s, done.
Resolving deltas: 100% (1/1), done.
```

. 6:

```
[aaasriyan@aaasriyan Операционные системы]$ cd os-intro
[aaasriyan@aaasriyan os-intro]$ rm package.json
[aaasriyan@aaasriyan os-intro]$ echo os-intro > COURSE
[aaasriyan@aaasriyan os-intro]$ make
Usage:
  make <target>

Targets:
  list           List of courses
  prepare        Generate directories structure
  submodule       Update submodules

[aaasriyan@aaasriyan os-intro]$ nano COURSE
[aaasriyan@aaasriyan os-intro]$ ls
CHANGELOG.md  COURSE  LICENSE  Makefile  README.en.md  README.git-flow.md  README.md  template
```

. 7:

```

create mode 100644 project-personal/stage6/presentation/image/kulyabov.jpg
create mode 100644 project-personal/stage6/presentation/presentation.qmd
create mode 100644 project-personal/stage6/report/.gitignore
create mode 100644 project-personal/stage6/report/.projectile
create mode 100644 project-personal/stage6/report/Makefile
create mode 100644 project-personal/stage6/report/_quarto.yml
create mode 100644 project-personal/stage6/report/_resources/csl/gost-r-7-0-5-2008-numeric.csl
create mode 100644 project-personal/stage6/report/bib/cite.bib
create mode 100644 project-personal/stage6/report/image/solvay.jpg
create mode 100644 project-personal/stage6/report/report.qmd
[aaasriyan@aaasriyan os-intro]$ git push
Enumerating objects: 37, done.
Counting objects: 100% (37/37), done.
Delta compression using up to 4 threads
Compressing objects: 100% (21/21), done.
Writing objects: 100% (35/35), 699.16 KiB | 5.10 MiB/s, done.
Total 35 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To github.com:NastyaAsrian/study_2024-2025_os-intro.git
  65fb11f..087dede  master -> master
[aaasriyan@aaasriyan os-intro]$

```

. 8: