

Лабораторная работа N: 2 управление версиями

Установка gh

Базовая настройка gh

```
[parallels@ahmed ~]$ cd /tmp
[parallels@ahmed tmp]$ wget --no-check-certificate -q https://raw.githubusercontent.com/petervanderdoes/gitflow/develop/contrib/gitflow-installer.sh
[parallels@ahmed tmp]$ chmod
chmod: missing operand
Try 'chmod --help' for more information.
[parallels@ahmed tmp]$ chmod +x gitflow-installer.sh
[parallels@ahmed tmp]$ ./gitflow-installer.sh isntall stable
## git-flow no-make installer ##
Usage: [environment] gitflow-installer.sh [install|uninstall] [stable|develop|version] [tag]
Environment:
  PREFIX=/usr/local
  REPO_HOME=https://github.com/petervanderdoes/gitflow-avh.git
  REPO_NAME=gitflow
[parallels@ahmed tmp]$
```



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Usage: [environment] gitflow-installer.sh [install|uninstall] [stable|develop|version] [tag]
Environment:
  PREFIX=/usr/local
  REPO_HOME=https://github.com/petervanderdoes/gitflow-avh.git
  REPO_NAME=gitflow
[parallels@ahmed tmp]$ sudo dnf install gh
(sudo) password for parallels:
Copr repo for gitflow owned by elegend
Package gh-2.5.2-1.fc34.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[parallels@ahmed tmp]$ git config --global user.name "Ali Ahmed"
error: key does not contain a section: user
[parallels@ahmed tmp]$ git config --global user.name "Ali Ahmed"
[parallels@ahmed tmp]$ git config --global user.email "midohussam007@gmail.com"
[parallels@ahmed tmp]$ git config --global core.quotepath fales
git: 'conig' is not a git command. See 'git --help'.

The most similar command is
  config
[parallels@ahmed tmp]$ git config --global core.quotepath fales
git: 'config' is not a git command. See 'git --help'.

The most similar command is
  config
[parallels@ahmed tmp]$ git config --global core.quotepath fales
[parallels@ahmed tmp]$ git config --global init.defaultBranch master
[parallels@ahmed tmp]$ git config --global core.autocrlf input
[parallels@ahmed tmp]$ git config --global core.safecrlf warn
[parallels@ahmed tmp]$
```

Создание ключь ssh

```
Environment:
  PREFIX=/usr/local
  REPO_HOME=https://github.com/petervanderdoes/gitflow-avh.git
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[parallels@ahmed tmp]$ git config --global core.autocrlf input
[parallels@ahmed tmp]$ git config --global core.safecrlf warn
[parallels@ahmed tmp]$ ssh-keygen -t rsa -b 4096
Generating public/private rsa key pair.
Enter file in which to save the key (/home/parallels/.ssh/id_rsa):
Created directory '/home/parallels/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/parallels/.ssh/id_rsa
Your public key has been saved in /home/parallels/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:X7m0BZSLm6S067ha+JxNIQ2hXnIw6Gm9UR9rx8ZzkiU parallels@ahmed
The key's randomart image is:
+---[RSA 4096]-----+
|  .  .E+O  .. |
|  . +.+= .. |
|  . 00++ 0 ... |
|  +.0+ 0+ . .0 |
|  . 0..S  0+ . |
|  .. ..000 + |
|  . ...0. 0 |
|  + =0 . |
|  ..+0+0 |
+---[SHA256]-----+
[parallels@ahmed tmp]$

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|  .  .E+O  .. |
|  . +.+= .. |
|  . 00++ 0 ... |
|  +.0+ 0+ . .0 |
|  . 0..S  0+ . |
|  .. ..000 + |
|  . ...0. 0 |
|  + =0 . |
|  ..+0+0 |
+---[SHA256]-----+
[parallels@ahmed tmp]$ ssh-keygen -t ed25519
Generating public/private ed25519 key pair.
Enter file in which to save the key (/home/parallels/.ssh/id_ed25519):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/parallels/.ssh/id_ed25519
Your public key has been saved in /home/parallels/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:950uCQkwJY5KebNWXhZqKV4UZtb04ViID9RUs00NmW parallels@ahmed
The key's randomart image is:
+---[ED25519 256]---+
|  . + += |
|  . =E0+ |
|  . 0.B0+0+ |
|  0.+0+0+0 |
|  ... * .0So |
|  . 0 . ..0. . |
|  . . ...0 |
|  . 0. |
|  .. |
+---[SHA256]-----+
[parallels@ahmed tmp]$
```

```

(4) RSA (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)
Key does not expire at all
Is this correct? (y/N)
Key is valid for? (0)
Key does not expire at all
Is this correct? (y/N)
Key is valid for? (0) 0
Key does not expire at all
Is this correct? (y/N) y

GnuPG needs to construct a user ID to identify your key.

Real name: Ahmed Ali
Email address: midohussam007@gmail.com
Comment:
You selected this USER-ID:
    "Ahmed Ali <midohussam007@gmail.com>"

Change (N)ame, (C)omment, (E)mail or (O)kay/(Q)uit? 0
Change (N)ame, (C)omment, (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.
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some other action (type on the keyboard, move the mouse, utilize the
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generator a better chance to gain enough entropy.
gpg: /home/parallels/.gnupg/trustdb.gpg: trustdb created
gpg: key E628BFA4BF8E13E2 marked as ultimately trusted
gpg: directory '/home/parallels/.gnupg/openpgp-revocs.d' created
gpg: revocation certificate stored as '/home/parallels/.gnupg/openpgp-revocs.d/B77DCBF357657EF8CDC75855E628BFA4BF8E13E2.rev'
public and secret key created and signed.

pub   rsa4096 2022-06-23 [SC]
       B77DCBF357657EF8CDC75855E628BFA4BF8E13E2
uid           Ahmed Ali <midohussam007@gmail.com>
sub   rsa4096 2022-06-23 [E]

[parallels@ahmed tmp]$ █

```

Ключь pgr

```

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(14) Existing key from card
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Key is valid for? (0)
Key does not expire at all
Is this correct? (y/N)
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Change (N)ame, (C)omment, (E)mail or (O)kay/(Q)uit? 0
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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: /home/parallels/.gnupg/trustdb.gpg: trustdb created
gpg: key E628BFA4BF8E13E2 marked as ultimately trusted
gpg: directory '/home/parallels/.gnupg/openpgp-revocs.d' created
gpg: revocation certificate stored as '/home/parallels/.gnupg/openpgp-revocs.d/B77DCBF357657EF8CDC75855E628BFA4BF8E13E2.rev'
public and secret key created and signed.

pub   rsa4096 2022-06-23 [SC]
       B77DCBF357657EF8CDC75855E628BFA4BF8E13E2
uid         Ahmed Ali <midohussam007@gmail.com>
sub   rsa4096 2022-06-23 [E]

[parallels@ahmed tmp]$ █

| o.o+o+o.o      |
|... * .oSo.     |
| .  O  ..O.  .  |
| .    . ...o    |
|      o.        |
|      ..        |
|-----[SHA256]-----|

[parallels@ahmed tmp]$ gpg --full-generate-key
gpg (GnuPG) 2.2.27; Copyright (C) 2021 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.

gpg: directory '/home/parallels/.gnupg' created
gpg: keybox '/home/parallels/.gnupg/pubring.kbx' created
Please select what kind of key you want:
  (1) RSA and RSA (default)
  (2) DSA and Elgamal
  (3) DSA (sign only)
  (4) RSA (sign only)
  (14) Existing key from card
Your selection? 1
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What keysize do you want? (3072) 4096
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Key is valid for? (0) 0
Key does not expire at all
Is this correct? (y/N) y

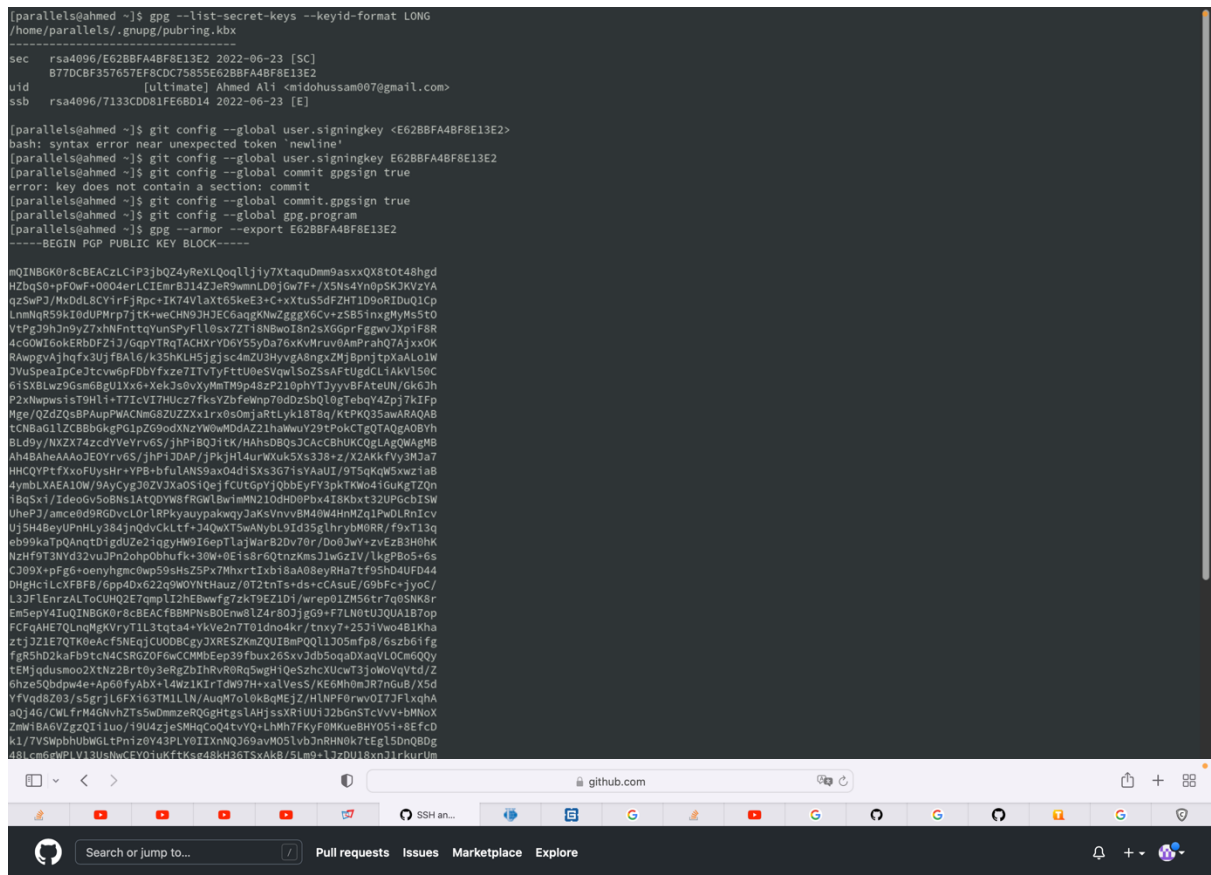
GnuPG needs to construct a user ID to identify your key.

Real name: Ahmed Ali
Email address: midohussam007@gmail.com
Comment:
You selected this USER-ID:
    "Ahmed Ali <midohussam007@gmail.com>"

Change (N)ame, (C)omment, (E)mail or (O)kay/(Q)uit? 0
Change (N)ame, (C)omment, (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

```

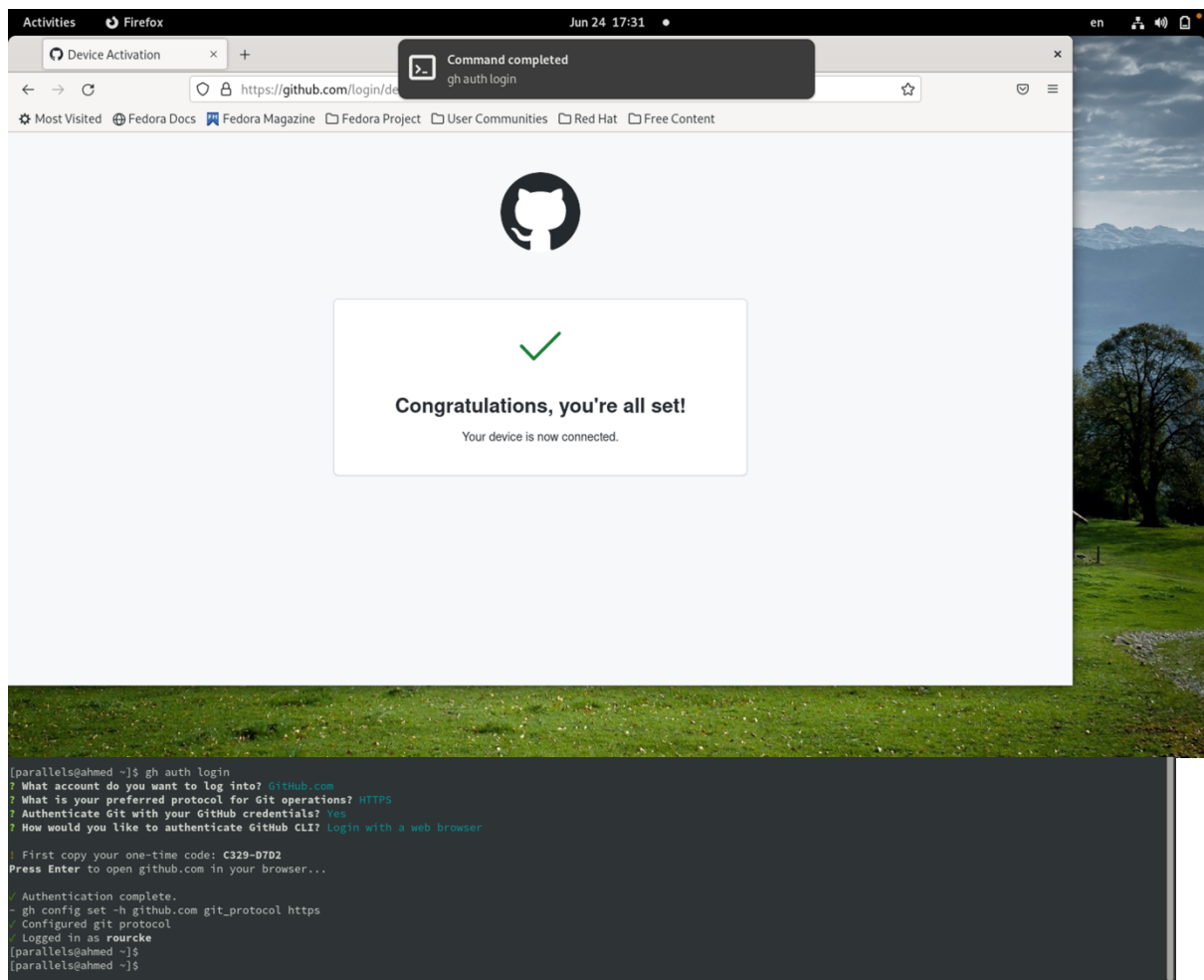
Добавление PGP ключ в github



Настройка автоматических подписей коммитов git



Настройка gh



Создание репозитория курса на основе шаблона

```
bash: ~: Command not found...
[parallels@ahmed ~]$ gh repo create study_2021-2022_os-intro --template=yamadharma/course-directory-student-template --public
Created repository rourcke/study_2021-2022_os-intro on GitHub
[parallels@ahmed ~]$ git clone --recursive git@github.com:<owner>/study_2021-2022_os-intro.git os-intro
bash: owner: No such file or directory
[parallels@ahmed ~]$
```

Настройка каталог курса