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№ 2 :

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: -02-20 2021 . ##### : >
. ##### : 1. github



Sign in to GitHub

Username or email address

ismaelsaintamour@gmail.com

Password

[Forgot password?](#)

.....

Sign in

New to GitHub? [Create an account.](#)

[Terms](#) [Privacy](#) [Security](#) [Contact GitHub](#)

2.

git,


c

github

```

Activities  Terminal  мая 6 14:18
marc@ismael: ~
marc@ismael:~$ ssh-keygen -C "ismael saint amour <ismaelsaintamour@gmail.com>"
Generating public/private rsa key pair.
Enter file in which to save the key (/home/marc/.ssh/id_rsa): /home/marc/.ssh/i
d_rsa
/home/marc/.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/marc/.ssh/id_rsa
Your public key has been saved in /home/marc/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:pu320IFQYWC0PS5wgLarAd7L+pjBxI5zsmfJSbv2w9Y ismael saint amour <ismaelsa
intamour@gmail.com>
The key's randomart image is:
+----[RSA 3072]-----+
  .+==*.
  o.o+.oo
  . =0..
  .. o* o..
  . oooS..
  .+= o
  +o=0 .
  =@++ E
  .+=o.
+----[SHA256]-----+
marc@ismael:~$ cat /home/marc/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGDAMAMV0BE1N5THLMIFxVx+Yd5m0z75VWRHGHpwpOF
0a+RDsaUESDaL8grv0h7jBduMb2rs2f+dGA5Hp6gyArbrbgXfJCG9SP/XLi47+3n119bACLYEbNJ2NZ
m1Yrf5jVGQ7jPvzcZfQivRvmXtEpenb38vxE3rrgY2L3udu26n3guc9vHxrBUTgIa5JXM1gWDKR7KrE

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 **Ismaelesn**
Your personal account

Gc

Account settings

Profile

Account

Appearance New

Account security

Billing & plans

Security log

Security analysis

Emails

Notifications

SSH and GPG keys

Repositories

SSH keys / Add new

Title

keys

Key

```

3kbfL1u5UmJe+TUIlAtl1EvQ5AW8WXKGhAf+52DTbrOU6iyNWCsOjyWHwBSyr
/E9P7ZkrYf+jc2fJ+1AXCo8o0DM9L8DmOkTk665ke6xl+FBHgEkzdE81n2zfH7abjHpn7yeDOBH
qL6HCk5Yx+9jMG0zrHAe/xib1V2m2rtt00WY6sl1F4SY
/EtUuM+5drlz8+wzyUmCBARuzuEH7zFucD4UPOL+pa0rrhUIGKJGji8WvyiYkZ5CNL/KFH+C6
/85IXqn2d3raqhTUXjCWSa/mgFyt
/KjYbTBgzpgzYbHIDk0AZ5OMMb6TYexA4QGipEqmaHdmaybOsTLOW9OM6nxwmAndSHZP
/4dCft3GcQALC8VXQWbBoBXX/wE4gxHcKhL149Hw6px4jhK3PnxVJrgL1
/9/E4N7yFPpjeYryuw0iQm00glZ838THS8= Ismael Saint Amour <ismaelsaintamour@gmail.com>

```

Add SSH key

10

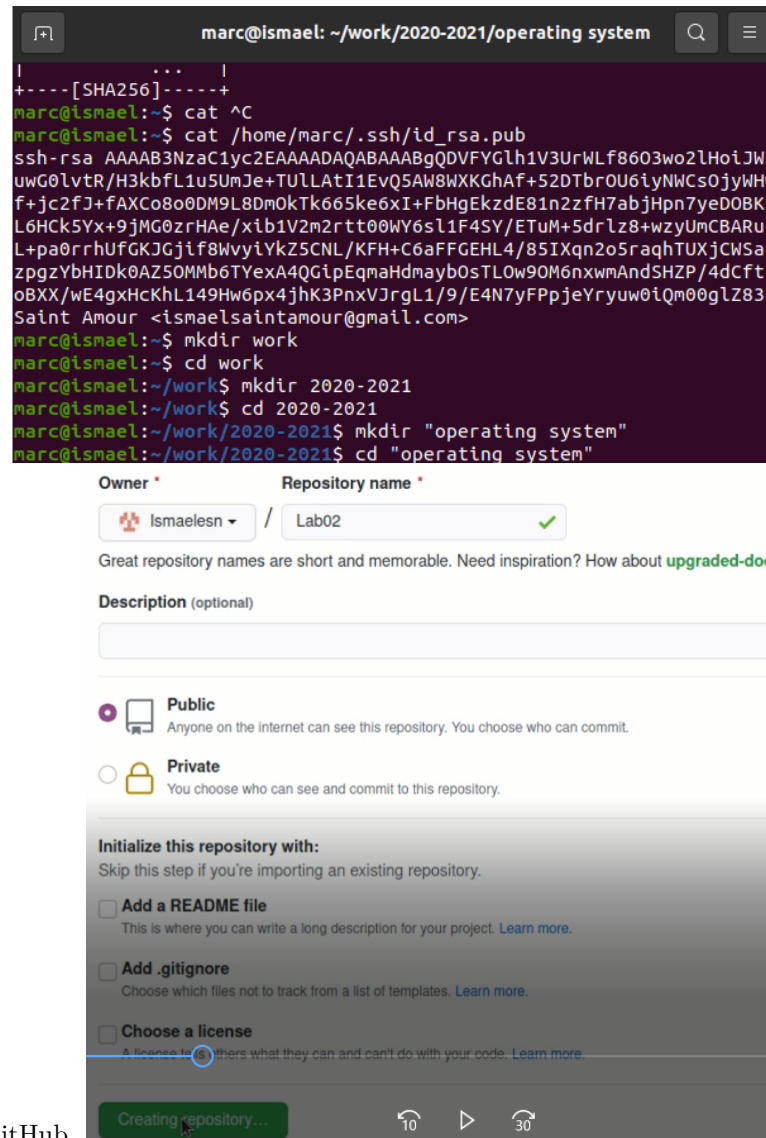
▶

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github -

GitHub.

- git: git init -
 README.md git add README.md -
 git commit -m "first commit" git remote add origin git@github.com:/sciproc-intro.git

README echo "# Lab02" >>
 github: git com-

```

marc@ismael:~$ mkdir work
marc@ismael:~$ cd work
marc@ismael:~/work$ mkdir 2020-2021
marc@ismael:~/work$ cd 2020-2021
marc@ismael:~/work/2020-2021$ mkdir "operating system"
marc@ismael:~/work/2020-2021$ cd "operating system"
marc@ismael:~/work/2020-2021/operating system$ echo "# Lab02" >> README.md
marc@ismael:~/work/2020-2021/operating system$ git init
Initialized empty Git repository in /home/marc/work/2020-2021/operating system/.git/
marc@ismael:~/work/2020-2021/operating system$ git add README.md
marc@ismael:~/work/2020-2021/operating system$ git commit -m "first commit"
marc@ismael:~/work/2020-2021/operating system$ git commit -m "first commit"
[master (root-commit) 2f94422] first commit
1 file changed, 1 insertion(+)
create mode 100644 README.md
marc@ismael:~/work/2020-2021/operating system$ git branch -M main
marc@ismael:~/work/2020-2021/operating system$ git remote add origin https://github.com/Ismaelesn/Lab02.git
fatal: remote origin already exists.
marc@ismael:~/work/2020-2021/operating system$ git push -u origin main
Username for 'https://github.com':
Password for 'https://github.com':
remote: No anonymous write access.
fatal: Authentication failed for 'https://github.com/Ismaelesn/Lab02.git/'
marc@ismael:~/work/2020-2021/operating system$ git push -u origin main
Username for 'https://github.com': Ismaelesn
Password for 'https://Ismaelesn@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 227 bytes | 45.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/Ismaelesn/Lab02.git
* [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.

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2.5.3.      -      : wget https://creativecommons.org/licenses/by/4.0/legalcode.txt
-O LICENSE --      : curl
-L -s https://www.gitignore.io/api/list      ,      ,      C: curl -L -s

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Password for 'https://Ismaelesn@github.com':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 227 bytes | 45.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/Ismaelesn/Lab02.git
* [new branch]      main -> main
Branch 'main' set up to track remote branch 'main' from 'origin'.
marc@ismael:~/work/2020-2021/operating system$ wget https://creativecommons.org/licenses/by/4.0/legalcode.txt-O LICENSE
--2021-05-06 19:51:04-- https://creativecommons.org/licenses/by/4.0/legalcode.txt-O
Resolving creativecommons.org (creativecommons.org)... 172.67.34.16, 104.20.151.16, ...
Connecting to creativecommons.org (creativecommons.org)|172.67.34.16:80: connected.
HTTP request sent, awaiting response... 404 Not Found
2021-05-06 19:51:04 ERROR 404: Not Found.

--2021-05-06 19:51:04-- http://license/
Resolving license (license)... failed: Temporary failure in name resolution
wget: unable to resolve host address 'license'
marc@ismael:~/work/2020-2021/operating system$ curl -L -s https://www.gitignore.io/api/list

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<https://www.gitignore.io/api/c> >> .gitignore

```

marc@ismael:~/work/2020-2021/operating system$ curl -L -s https://www.gitignore.io/api/list
1c,1c-bitrix,a-frame,actionscript,ada
adobe,advancedinstaller,adventuregamestudio,agda,al
alteraquartusii,altium,amplify,android,androidstudio
angular,anjuta,ansible,ansibletower,apachecordova
apachehadoop,appbuilder,appcelerator titanium,appcode,appcode+all
appcode+iml,appengine,aptanastudio,arcanist,archive
archives,archlinuxpackages,aspnetcore,assembler,ate
atmelstudio,ats,audio,automationstudio,autotools
autotools+strict,awr,azurefunctions,backup,ballerina
basercms,basic,batch,bazaar,bazel
bitrise,bitrix,bittorrent,blackbox,bloop
bluej,bookdown,bower,bricxcc,buck
c,c++,cake,cakephp,cakephp2
cakephp3,calabash,carthage,certificates,ceylon
cfwheels,chefcookbook,chocolatey,clean,clion
clion+all,clion+iml,clojure,cloud9,cmake
cocoapods,cocos2dx,cocoscreator,code-java,codeblocks
codecomposerstudio,codeigniter,codeio,codekit,codesniffer
coffeescript,commonlisp,compodoc,composer,compressed
compressedarchive,compression,conan,concrete5,coq
cordova,craftcms,crashlytics,crbasic,crossbar
crystal,cs-cart,csharp,cuda,cvs

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marc@ismael:~/work/2020-2021/operating system$ git flow init

Which branch should be used for bringing forth production releases?
- main
Branch name for production releases: [main]
Branch name for "next release" development: [develop]

How to name your supporting branch prefixes?
Feature branches? [feature/]
Bugfix branches? [bugfix/]
Release branches? [release/]
Hotfix branches? [hotfix/]
Support branches? [support/]
Version tag prefix? []
Hooks and filters directory? [/home/marc/work/2020-2021/operating system/.git/hooks]

marc@ismael:~/work/2020-2021/operating system$ git branch
* develop
  main

marc@ismael:~/work/2020-2021/operating system$ git flow release start 1.0.0
Switched to a new branch 'release/1.0.0'

marc@ismael:~/work/2020-2021/operating system$ git flow release start 1.0.0
Switched to a new branch 'release/1.0.0'

Summary of actions:
- A new branch 'release/1.0.0' was created, based on 'develop'
- You are now on branch 'release/1.0.0'

Follow-up actions:
- Bump the version number now!
- Start committing last-minute fixes in preparing your release
- When done, run:

    git flow release finish '1.0.0'

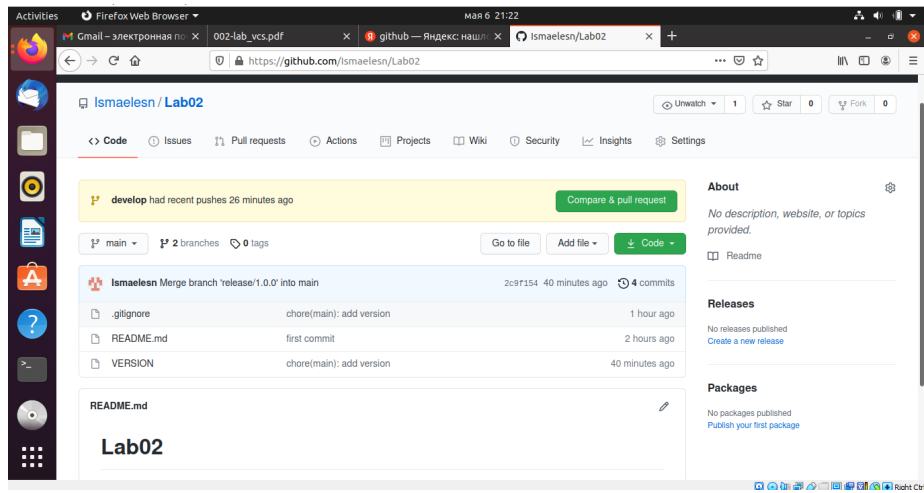
marc@ismael:~/work/2020-2021/operating system$ echo "1.0.0">> VERSION
marc@ismael:~/work/2020-2021/operating system$ git add .
marc@ismael:~/work/2020-2021/operating system$ git commit -am'chore(main): add version'
[release/1.0.0 160fcbf] chore(main): add version
1 file changed, 1 insertion(+)
marc@ismael:~/work/2020-2021/operating system$ git flow release finish 1.0.0
Branches 'main' and 'origin/main' have diverged.
And local branch 'main' is ahead of 'origin/main'.
Switched to branch 'main'
Your branch is ahead of 'origin/main' by 1 commit.
(use "git push" to publish your local commits)
Merge made by the 'recursive' strategy.
VERSION | 1 +
1 file changed, 1 insertion(+)
Already on 'main'
Your branch is ahead of 'origin/main' by 3 commits.
(use "git push" to publish your local commits)
fatal: no tag message?
Fatal: Tagging failed. Please run finish again to retry.
marc@ismael:~/work/2020-2021/operating system$ git flow release finish 1.0.0
Branches 'main' and 'origin/main' have diverged.
And local branch 'main' is ahead of 'origin/main'.
Already on 'main'
```

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marc@ismael: ~/work/2020-2021/operating system
marc@ismael:~/work/2020-2021/operating system$ git flow release finish 1.0.0
Branches 'main' and 'origin/main' have diverged.
And local branch 'main' is ahead of 'origin/main'.
Already on 'main'
Your branch is ahead of 'origin/main' by 3 commits.
(use "git push" to publish your local commits)
Switched to branch 'develop'
Merge made by the 'recursive' strategy.
VERSION | 1 +
1 file changed, 1 insertion(+)
Deleted branch release/1.0.0 (was 160fcbf).

Summary of actions:
- Release branch 'release/1.0.0' has been merged into 'main'
- The release was tagged '1.0.0'
- Release tag '1.0.0' has been back-merged into 'develop'
- Release branch 'release/1.0.0' has been locally deleted
- You are now on branch 'develop'

marc@ismael:~/work/2020-2021/operating system$ git push --all
Username for 'https://github.com': Ismaelesn
Password for 'https://Ismaelesn@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.

marc@ismael:~/work/2020-2021/operating system$ git push --all
Username for 'https://github.com': Ismaelesn
Password for 'https://Ismaelesn@github.com':
Enumerating objects: 10, done.
Counting objects: 100% (10/10), done.
Compressing objects: 100% (7/7), done.
Writing objects: 100% (9/9), 1.11 KiB | 94.00 KiB/s, done.
Total 9 (delta 3), reused 0 (delta 0)
remote: Resolving deltas: 100% (3/3), done.
To https://github.com:Ismaelesn/Lab02.git
2f94422..2c9f154 main -> main
* [new branch]      develop -> develop
marc@ismael:~/work/2020-2021/operating system$ git --tags
unknown option: --tags
usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]
      [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
      [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
      [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
      <command> [<args>]
marc@ismael:~/work/2020-2021/operating system$
```

2. >
1. (VCS) ?
(Version Control System, VCS)
2. VCS : , commit, . Commit
() – , – , .
3. VCS? VCS .
4. () VCS
CVS, Subversion, — Git, Bazaar, Mercurial.
5. () .
6. , git?
7. Git . Git
git . 1) : git
: git init 2) () : git
3) : git status 5) : git diff 6) :)
/ : git add .) /
/ : git add —) / (/

```

): git rm _ 7) : )
: git commit -am ' , )
: git commit 8) , :
git checkout -b _ 9) : git checkout _ (
, , ) 10)
: git push origin _ 11) : git
merge --no-ff _ 12) : ) : git
branch -d _ ) : git branch -D _ )
: git push origin : _ 8.
file.txt
: git checkout last (last - ) : git add
file.txt ( , ) : git commit -am "file.txt
was added" : git push 9.
(branches)? ,
. ( , commit?
). 10.
, , , ,
.gitignore
: curl -L -s https://www.gitignore.io/api/list
, , C C++: curl -L -s https://www.gitignore.io/api/c >>
.gitignore curl -L -s https://www.gitignore.io/api/c++ >> .gitignore

```