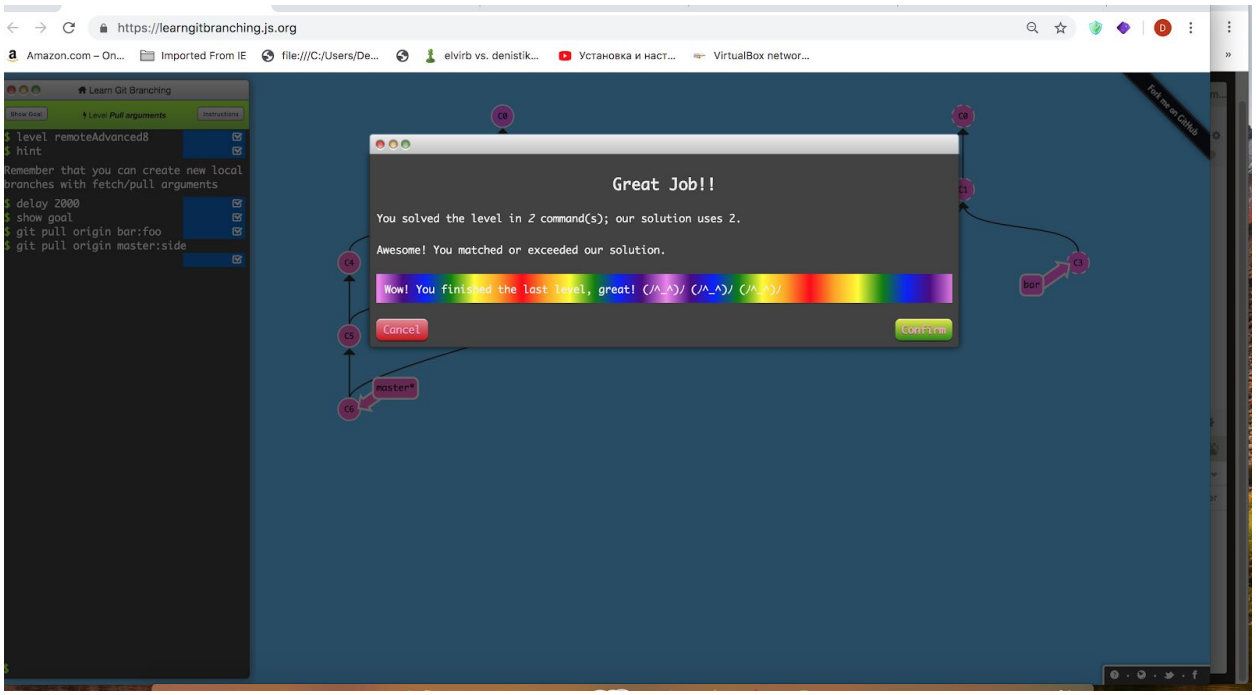
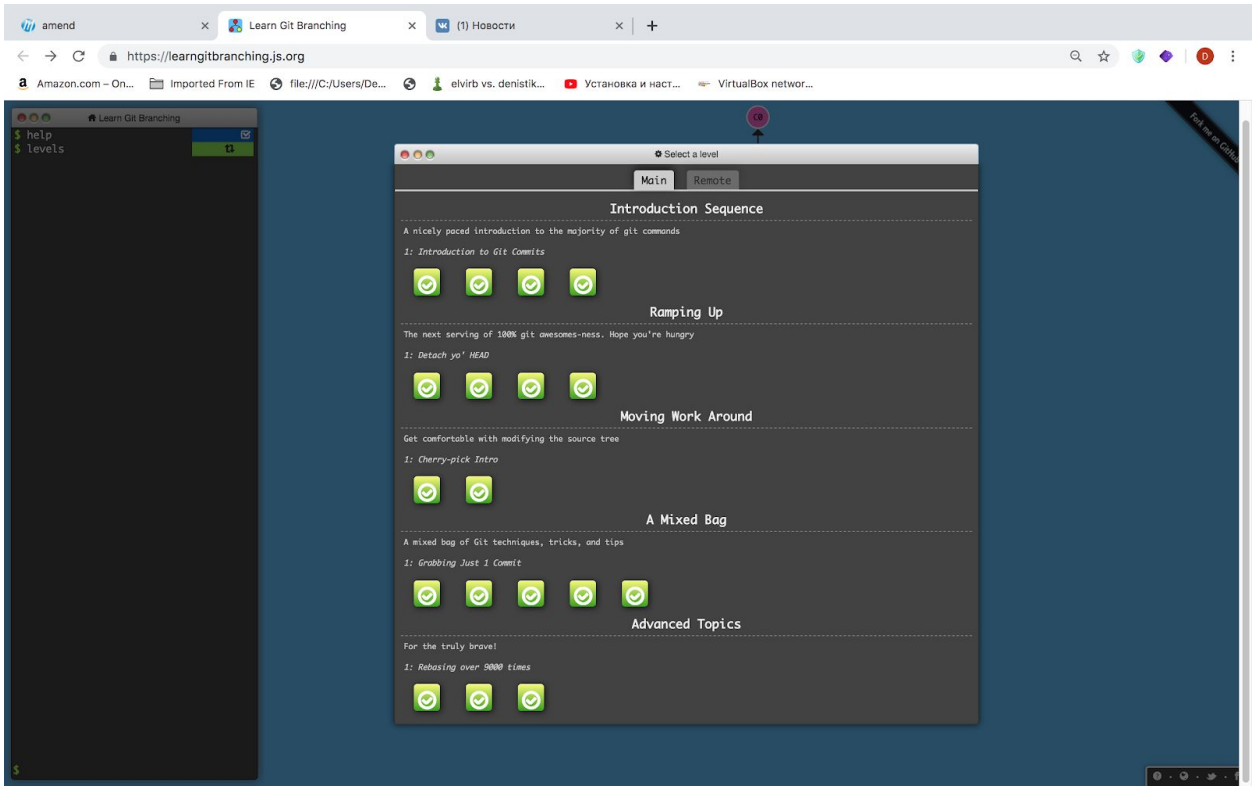
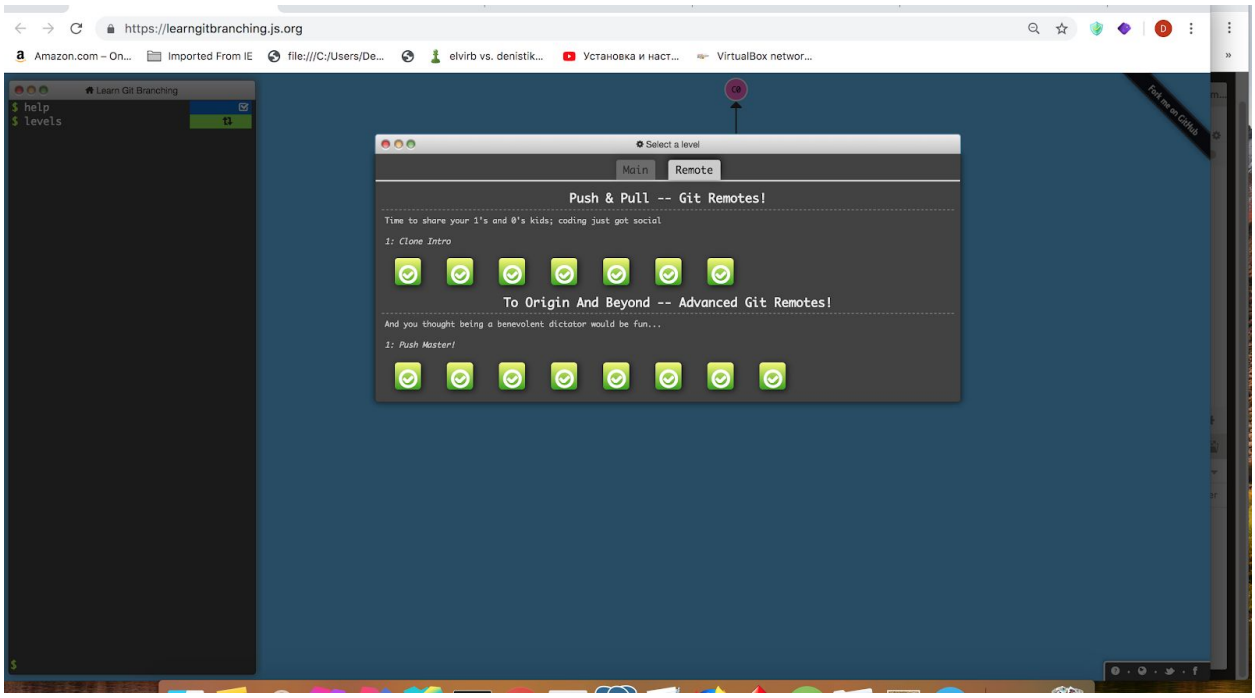
Dennis Tikhomirov **DevOps training, Spring'19 Homework**

Task 8. Git

Part I. Complete all tasks at https://learngitbranching.js.org/ Attach screenshots of completed tasks to the report.




amend
Learn Git Branching
(1) Новости
https://learngitbranching.js.org
Amazon.com – On...
Imported From IE
file:///C:/Users/De...
elvirb vs. denistik...
Установка и наст...
VirtualBox networ...
Learn Git Branching
$ help
$ levels
Select a level
Main
Remote
Introduction Sequence
A nicely paced introduction to the majority of git commands
1: Introduction to Git Commits
Ramping Up
The next serving of 100% git awesomes-ness. Hope you're hungry
1: Detach yo' HEAD
Moving Work Around
Get comfortable with modifying the source tree
1: Cherry-pick Intro
A Mixed Bag
A mixed bag of Git techniques, tricks, and tips
1: Grabbing Just 1 Commit
Advanced Topics
For the truly brave!
1: Rebasing over 9000 times
Fork me on GitHub


https://learngitbranching.js.org
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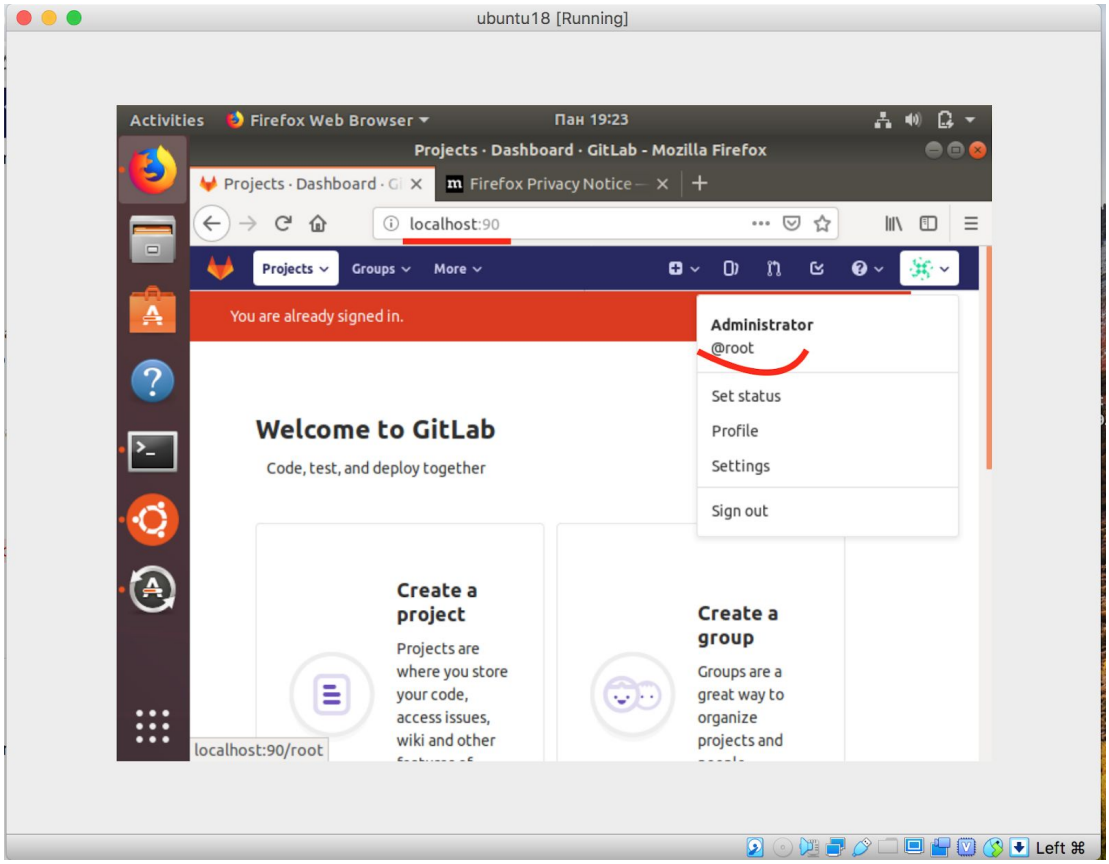
Установка и наст...
VirtualBox networ...
Learn Git Branching
$ help
$ levels
Select a level
Main
Remote
Push & Pull -- Git Remotes!
Time to share your 1's and 0's kids; coding just got social
1: Clone Intro
To Origin And Beyond -- Advanced Git Remotes!
And you thought being a benevolent dictator would be fun...
1: Push Master!
Fork me on GitHub

Part II Prerequisites

Ubuntu 18.04 virtual machine or baremetal, 64bit is preferred

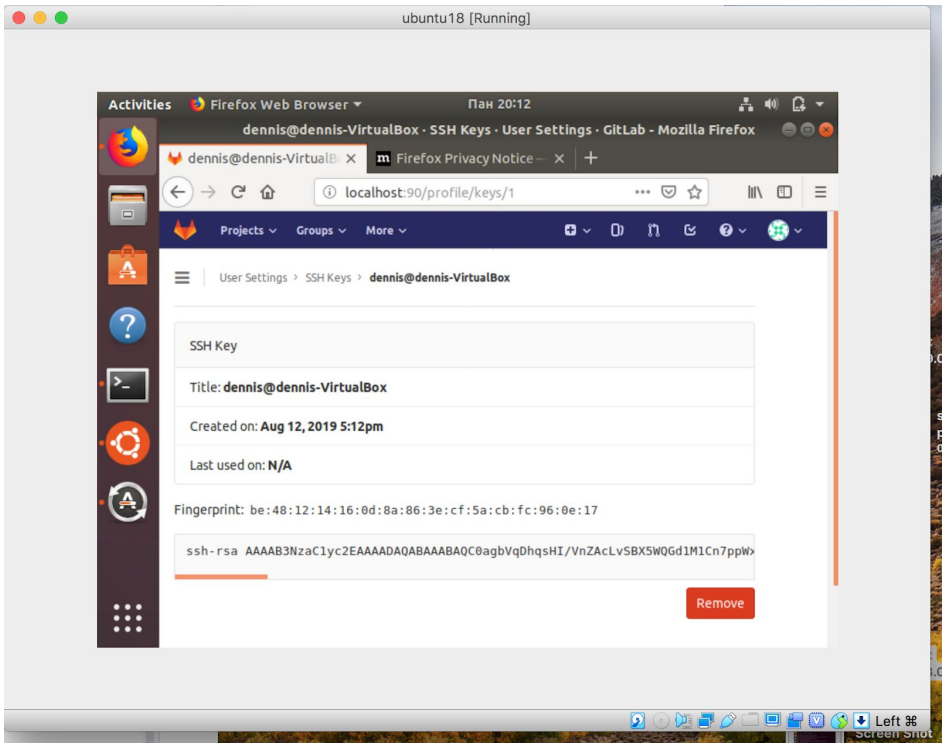
Install Gitlab

1. You need to install Gitlab on your machine. To do this, follow the instruction on official site: https://about.gitlab.com/downloads/#ubuntu1604
2. After the last step of the instruction, you should have working GitLab instance and be logged in as root user.

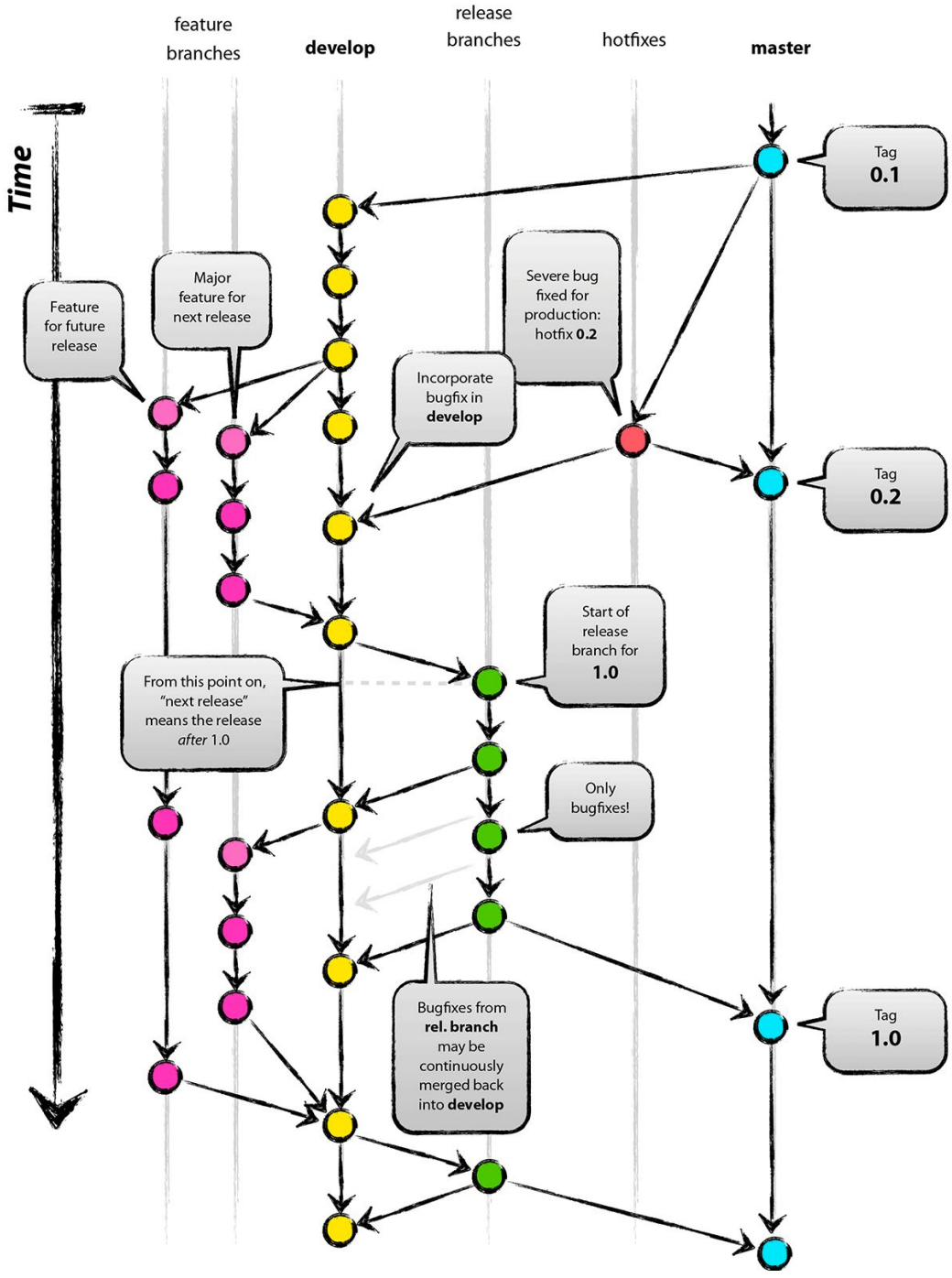


sshkeygenCreate a project

1. In Gitlab, choose “New Project” and name it whatever you like.
2. In your Ubuntu machine, generate a pair of SSH keys by running sshkeygen
3. After that, you will have new files in ~/.ssh: id_rsa and id_rsa.pub
4. Copy contents of id_rsa.pub and go to Gitlab > Profile Settings >SSH keys. Paste your public key and save. Now you’re able to access your repositories via SSH without typing your credentials every time.



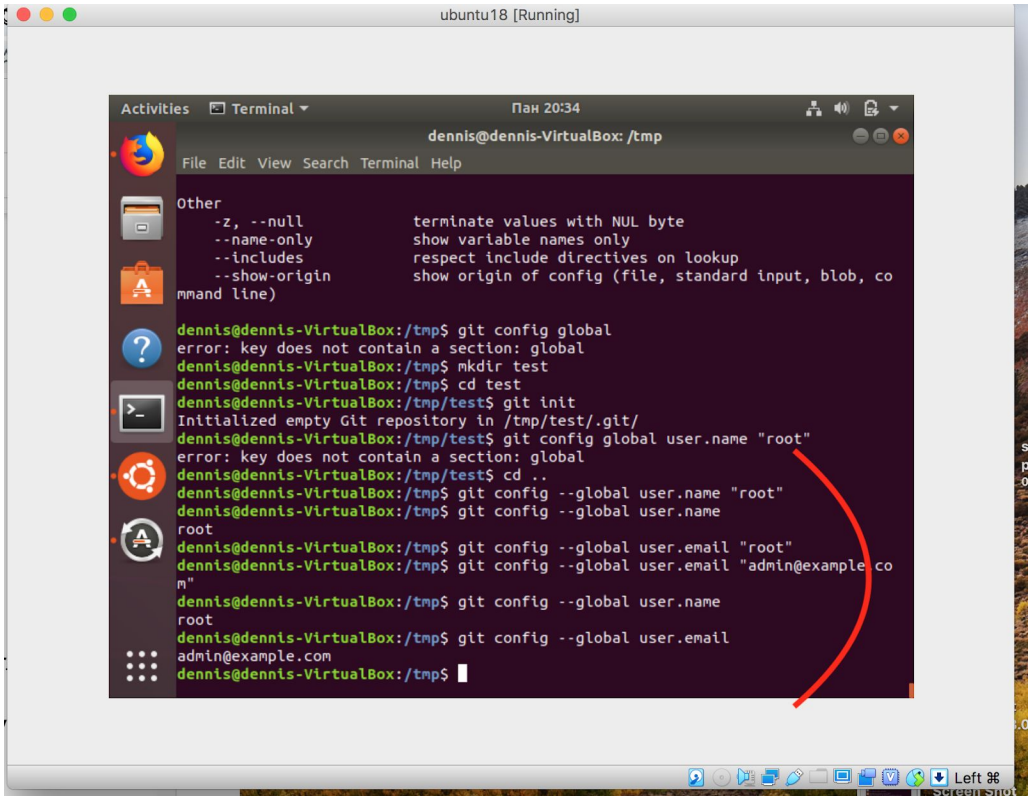
Set up git flow



1. Install git on your ubuntu if you don’t have it.

2. Set up your user by running commands:

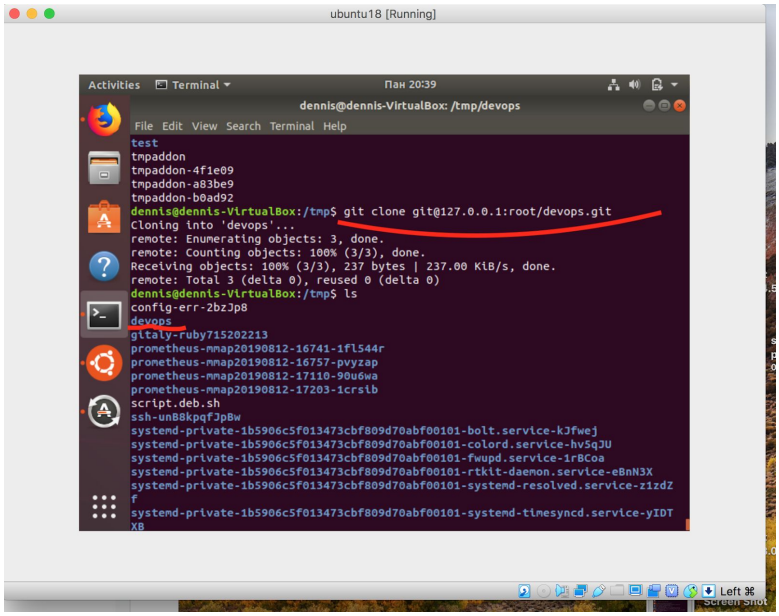
$ git config global
user.name "John Doe"
$ git config global
user.email johndoe@example.com



3. Now clone your repository locally by running git clone <link_to_your_project>. You can get link on a project page in GitLab. Be sure to copy SSH link.

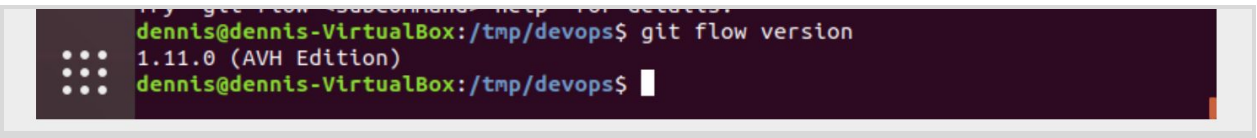
```
git clone git@127.0.0.1:root/devops.git
```

4. Go to your new folder containing downloaded project.



5. Install git flow. Official repo can be found here: https://github.com/nvie/gitflow

```
apt-get install git-flow
```



6. Run gitflow init d to initialise git flow with all defaults.

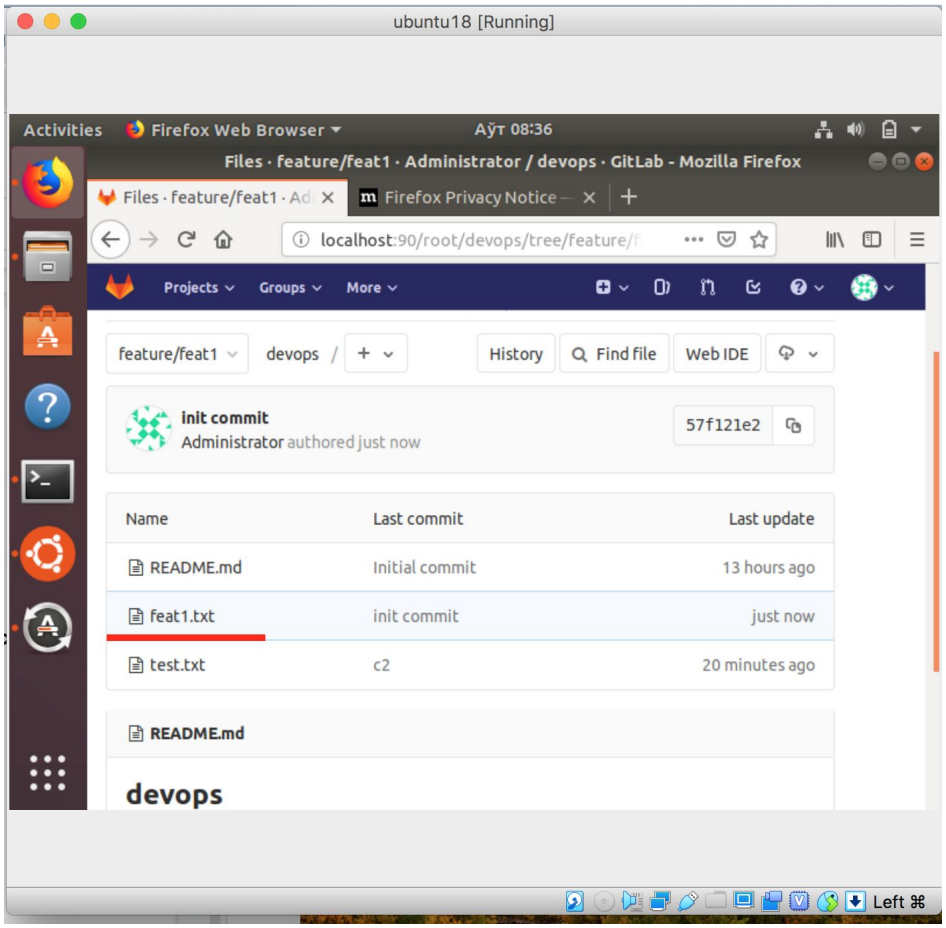
Make yourself familiar with gitflow

1. Create some text file in your project and place it under version control
2. Push your changes in master branch
Current branch is develop:

```
git add .
git commit -m 'init commit'
git merge master
```

3. Create new feature branch, make some changes and finish/push it the remote. Track what's happening with your repo on each step of working with branch.

```
git flow feature start feat1
cat > feat1.txt
git add .
git commit -m 'feat1 init commit'
git flow feature publish feat1
```



git flow feature finish feat1

After this command branch feat1 was merged into develop branch and deleted.

4. Create new release branch and finish it. Track what's happening with your repo on each step of working with branch.

git flow release start release1

New branch release1 was created.
git flow feature start feat1
cat > feat1.txt
git add .
git commit -m 'release1 init commit'
git flow release finish release1
merged into MASTER, merged into DEVELOP, branch RELEASE1 was deleted