Министерство цифрового развития, связи и массовых коммуникаций Российской Федерации

Ордена Трудового Красного Знамени

федеральное государственное бюджетное образовательное учреждение высшего образования

МОСКОВСКИЙ ТЕХНИЧЕСКИЙ УНИВЕРСИТЕТ СВЯЗИ И ИНФОРМАТИКИ

Кафедра «Математической кибернетики и информационных технологий»

Основы DevOps

Лабораторная работа №2

Выполнил: Ибрахим Баро Йиди

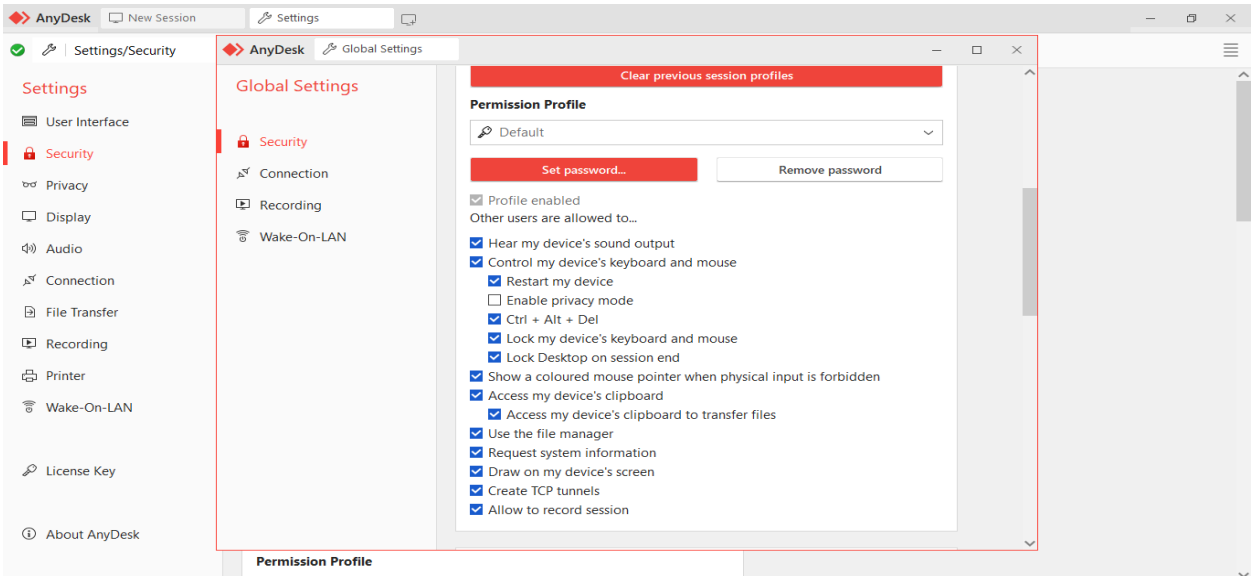
студент группы БВТ2101

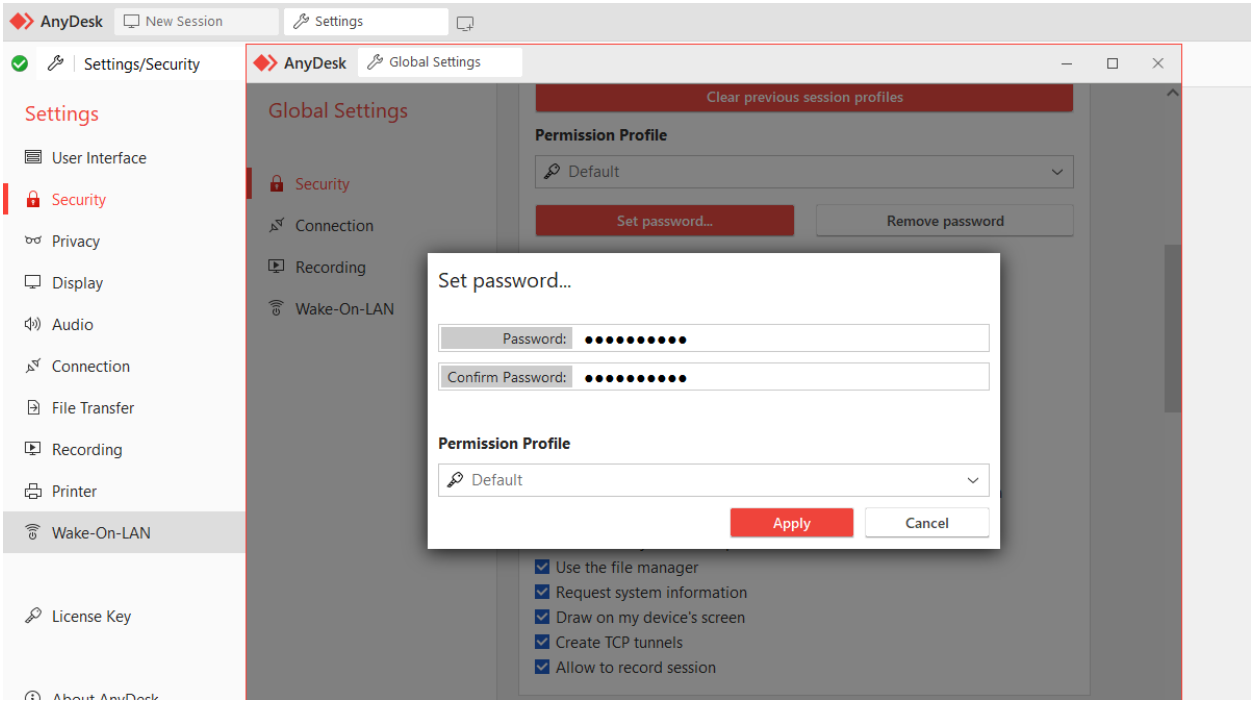
Иванов И.И.

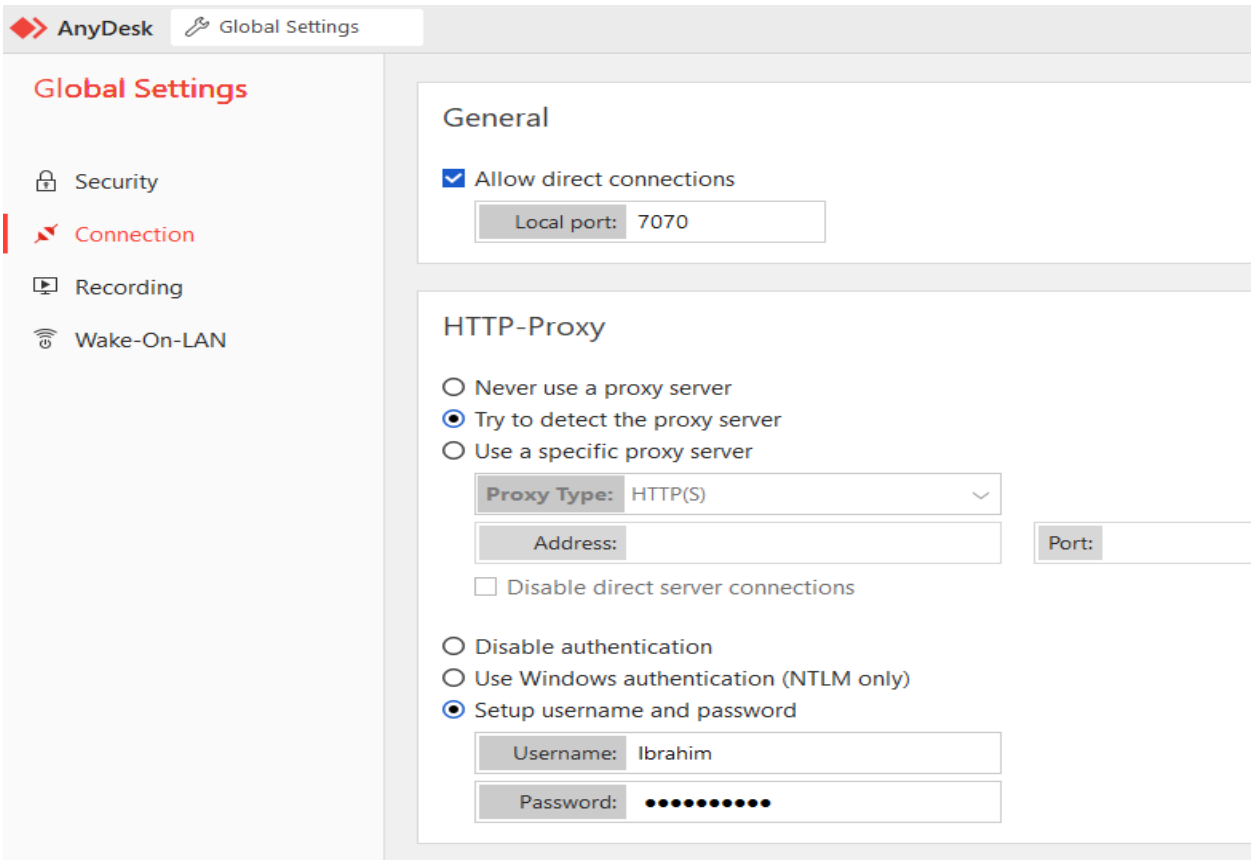
Выполнение

1. Настройка Anydesk в моем компьютере

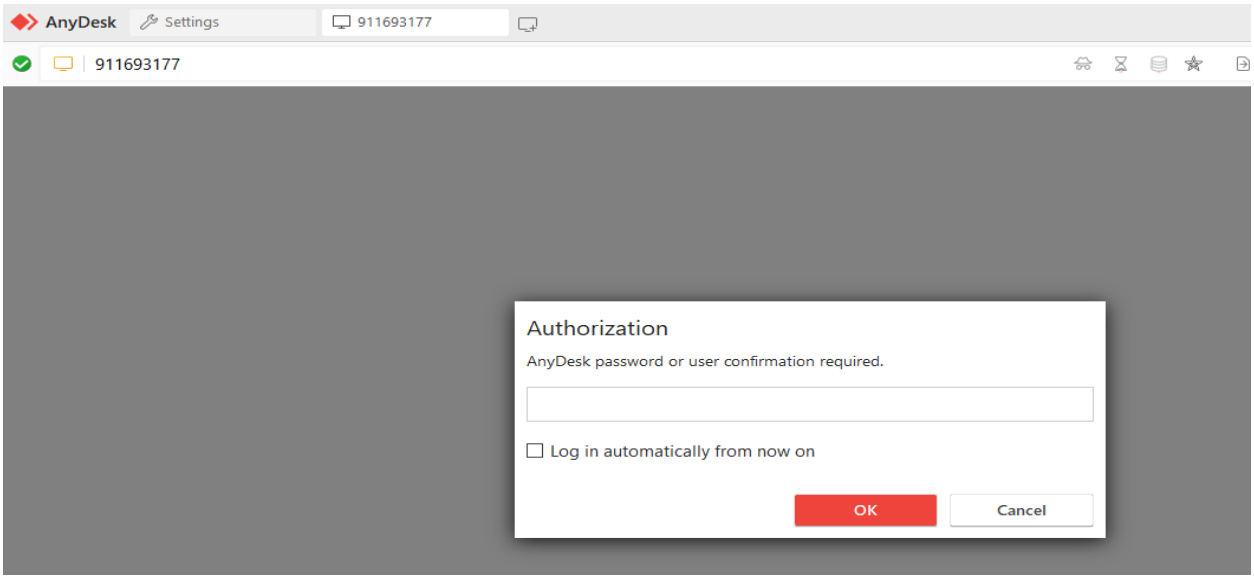
Далее: настройка tcp-туннеля, имени пользователя и пароля

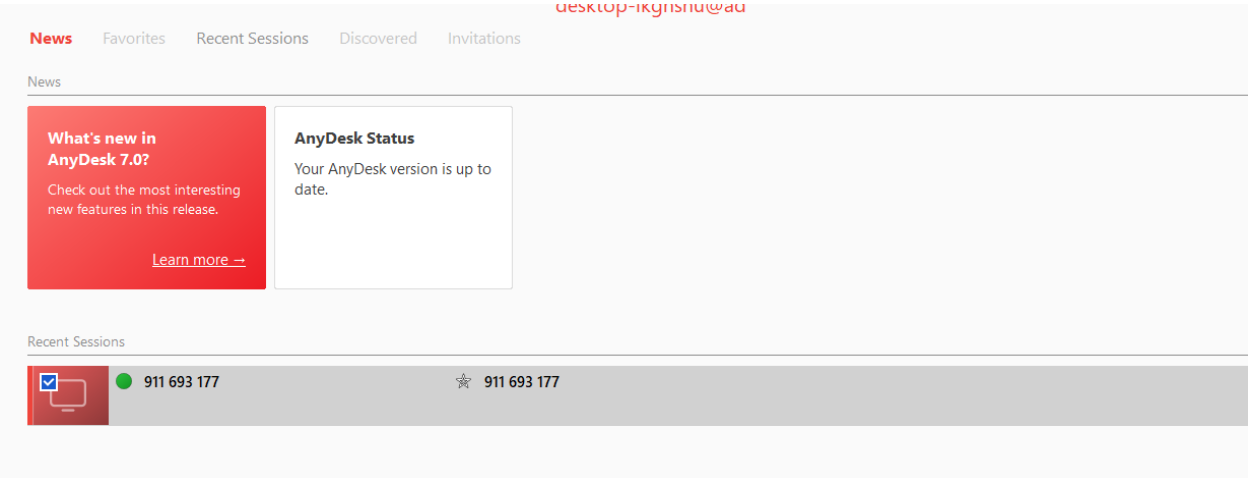






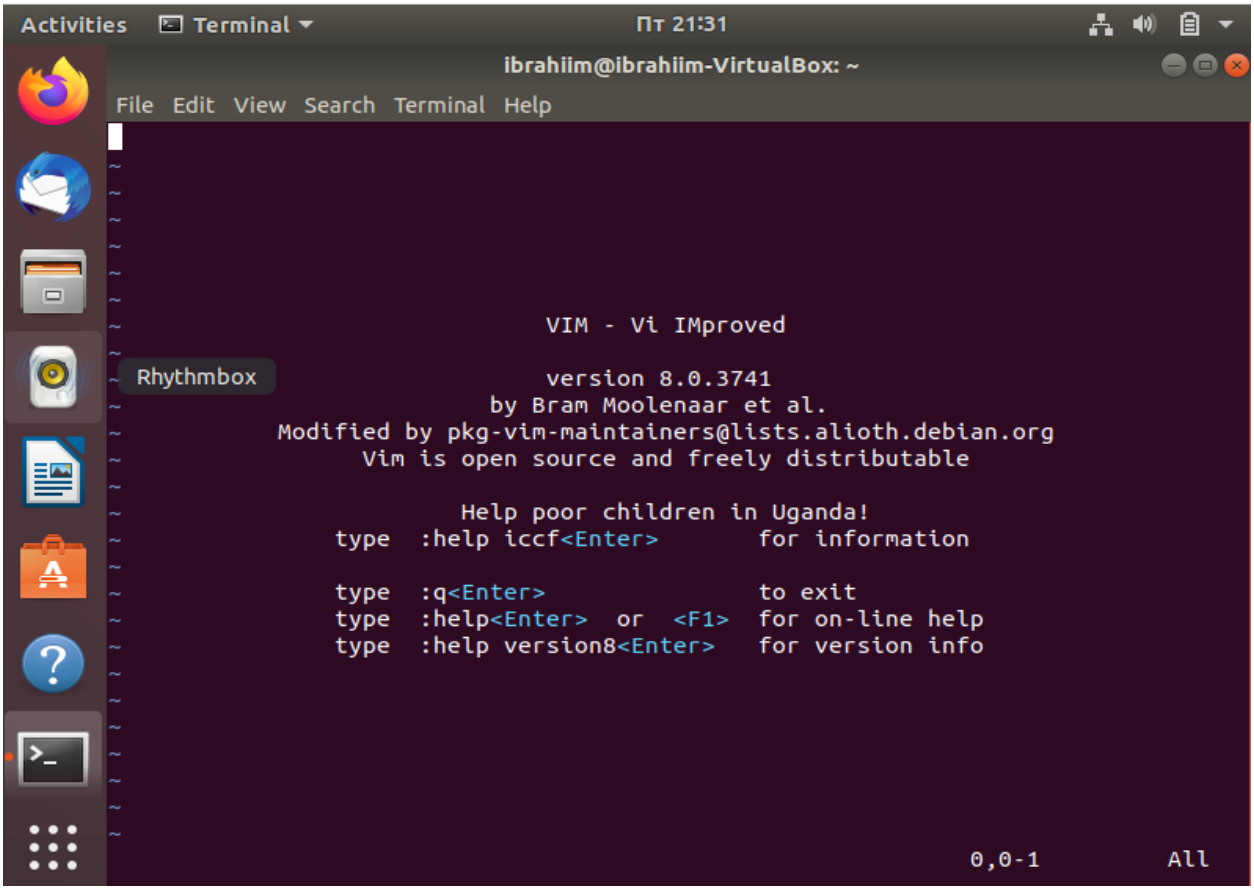
И, наконец, подключитесь к этому компьютеру 911693177



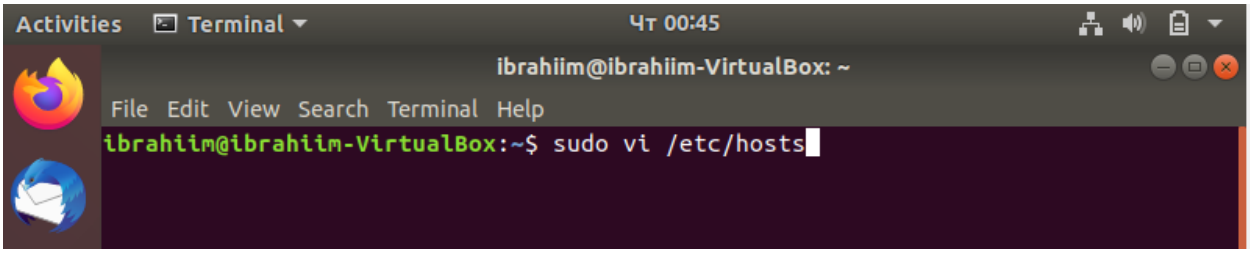


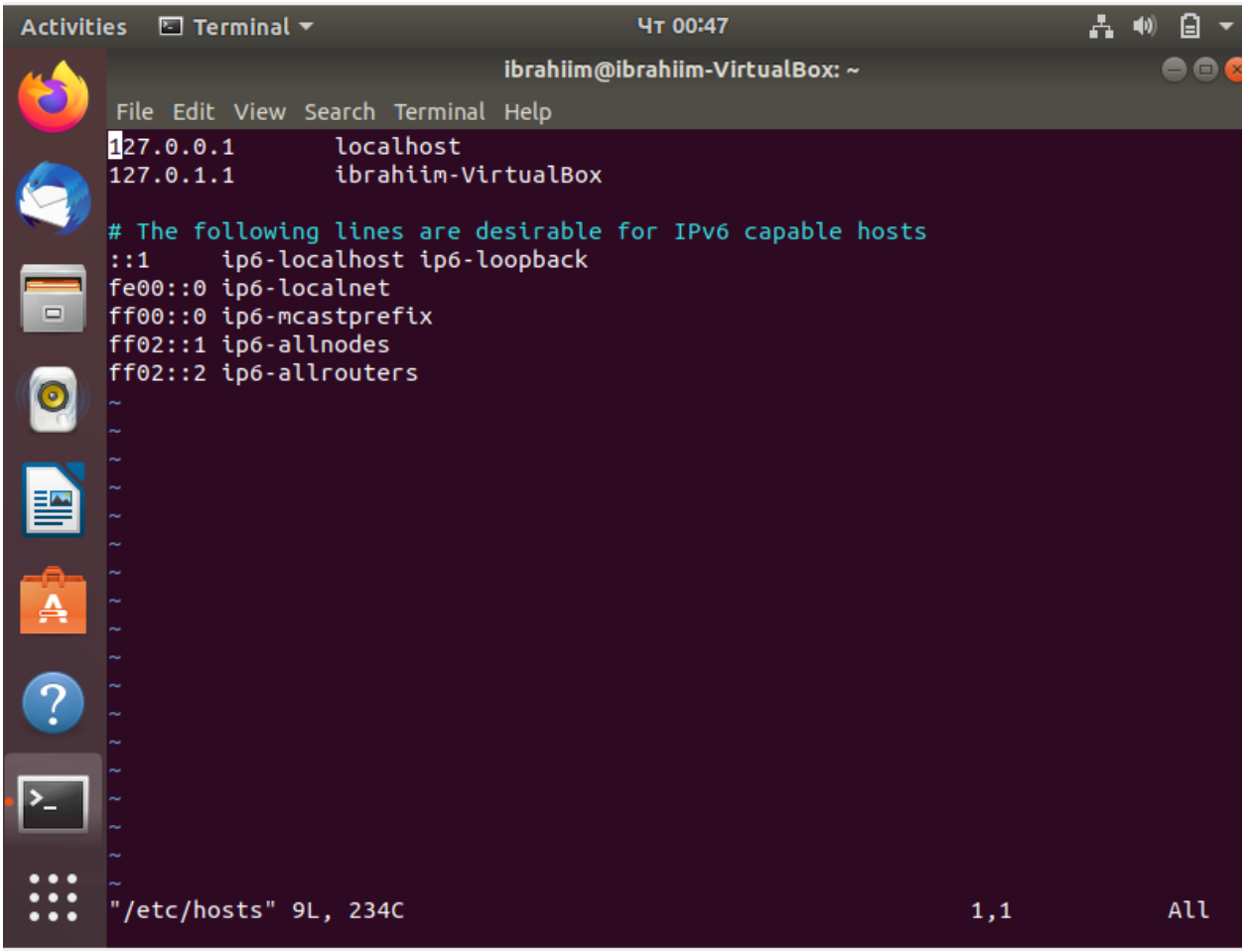
2. Настройка предустановленных доменных имен

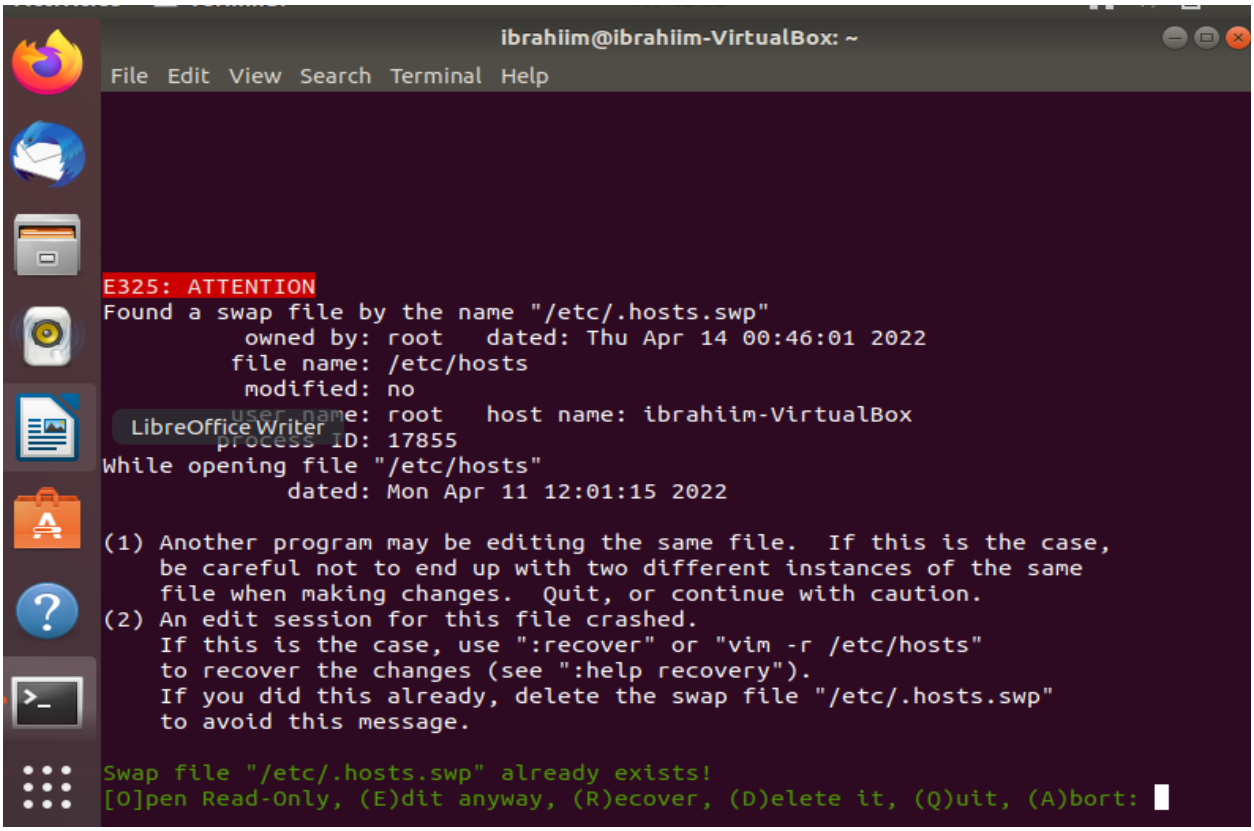
Прежде всего, установите редактор Vim

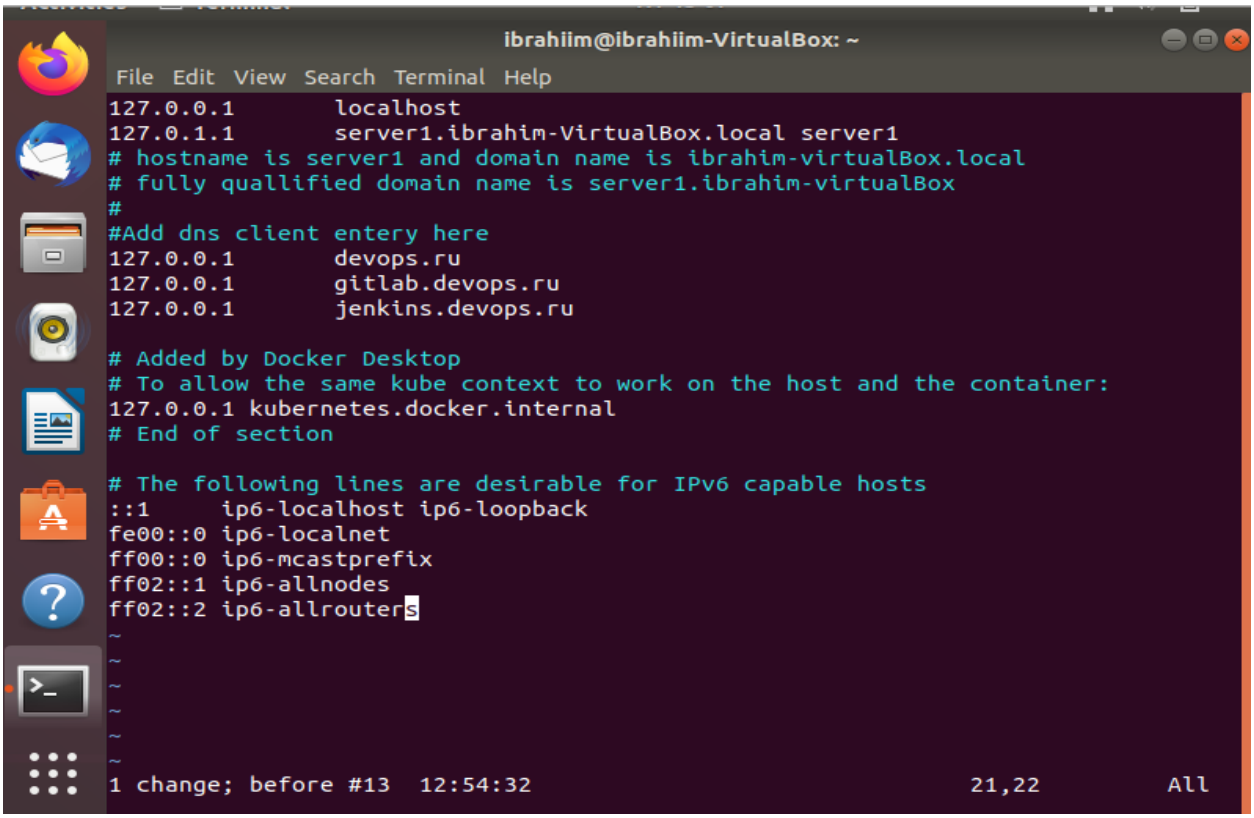


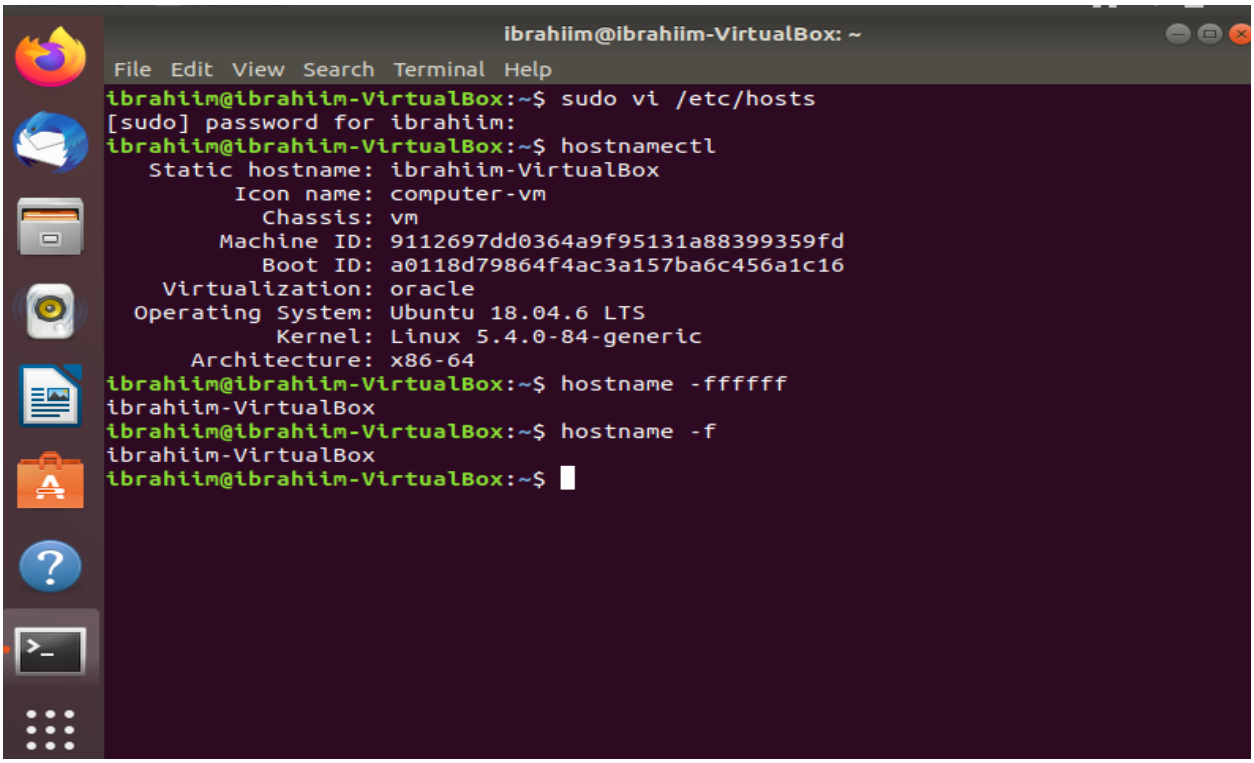
Далее:


Activities
Terminal
Чт 00:45
ibrahiim@ibrahiim-VirtualBox: ~
File Edit View Search Terminal Help
ibrahiim@ibrahiim-VirtualBox:~$ sudo vi /etc/hosts

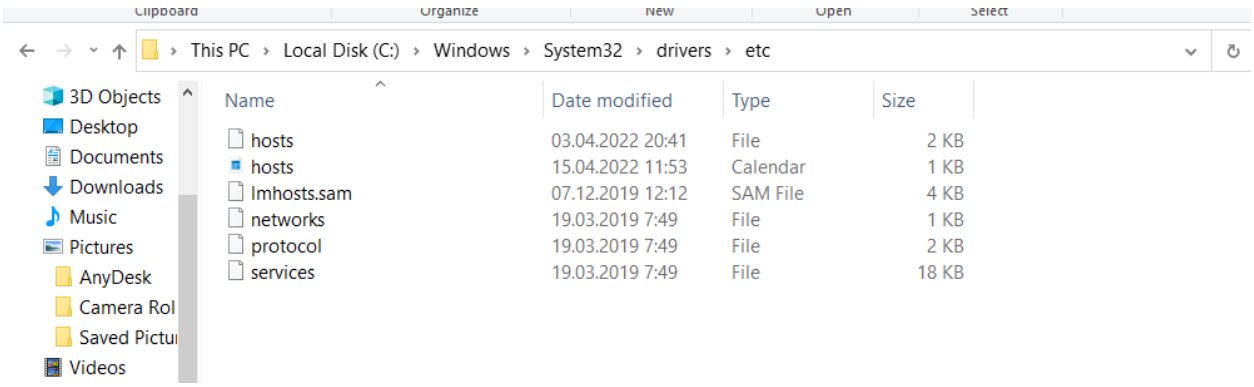

Activities
Terminal
Чт 00:47
ibrahiim@ibrahiim-VirtualBox: ~
File Edit View Search Terminal Help
127.0.0.1 localhost
127.0.1.1 ibrahiim-VirtualBox
The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
"/etc/hosts" 9L, 234C
1,1
All


ibrahiim@ibrahiim-VirtualBox: ~
File Edit View Search Terminal Help
E325: ATTENTION
Found a swap file by the name "/etc/.hosts.swp"
owned by: root dated: Thu Apr 14 00:46:01 2022
file name: /etc/hosts
modified: no
user name: root host name: ibrahiim-VirtualBox
process ID: 17855
While opening file "/etc/hosts"
dated: Mon Apr 11 12:01:15 2022
(1) Another program may be editing the same file. If this is the case,
be careful not to end up with two different instances of the same
file when making changes. Quit, or continue with caution.
(2) An edit session for this file crashed.
If this is the case, use ":recover" or "vim -r /etc/hosts"
to recover the changes (see ":help recovery").
If you did this already, delete the swap file "/etc/.hosts.swp"
to avoid this message.
Swap file "/etc/.hosts.swp" already exists!
[O]pen Read-Only, (E)dit anyway, (R)ecover, (D)elete it, (Q)uit, (A)bort:
LibreOffice Writer


ibrahiim@ibrahiim-VirtualBox: ~
File Edit View Search Terminal Help
127.0.0.1 localhost
127.0.1.1 server1.ibrahim-VirtualBox.local server1
hostname is server1 and domain name is ibrahim-virtualBox.local
fully quallified domain name is server1.ibrahim-virtualBox
#
#Add dns client entery here
127.0.0.1 devops.ru
127.0.0.1 gitlab.devops.ru
127.0.0.1 jenkins.devops.ru
Added by Docker Desktop
To allow the same kube context to work on the host and the container:
127.0.0.1 kubernetes.docker.internal
End of section
The following lines are desirable for IPv6 capable hosts
::1 ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
1 change; before #13 12:54:32 21,22 All



Переходим по пути “C:\Windows\System32\drivers\etc”



Открываем в блокноте файл hosts в режиме администратора и добавляем запись по аналогии с Linux.

hosts - Notepad

File Edit Format View Help

```
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on and individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separeated by at least one
# space
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symnol.
#
# For example:
#
#       102.54.94.97     rhino.acme.com
#        38.25.63.10     x.acme.com

# localhost name resolution is handled within DNS itself.
#       127.0.0.1       localhost
#       127.0.0.1       server1.ibrahim-virtualBox.local server1
127.0.0.1             devops.ru
127.0.0.1             gitlab.devops.ru
127.0.0.1             jenkins.devops.ru
```

3. Регистрация в удаленном GitLab.

GitLab.com

GitLab.com offers free unlimited (private) repositories and unlimited collaborators.

- Explore projects on GitLab.com (no login needed)
- More information about GitLab.com
- GitLab Community Forum
- GitLab Homepage

By signing up for and by signing in to this service you accept our:

- Privacy policy
- Cookie Policy
- GitLab.com Terms

Username or email

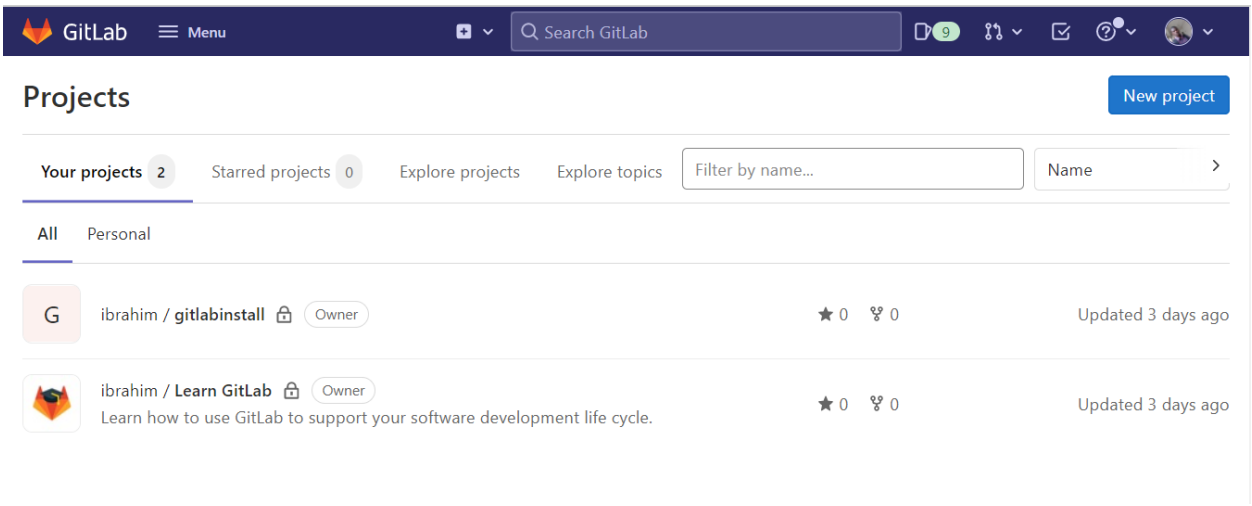
baroisyidi@gmail.com

Password

Remember me Forgot your password?

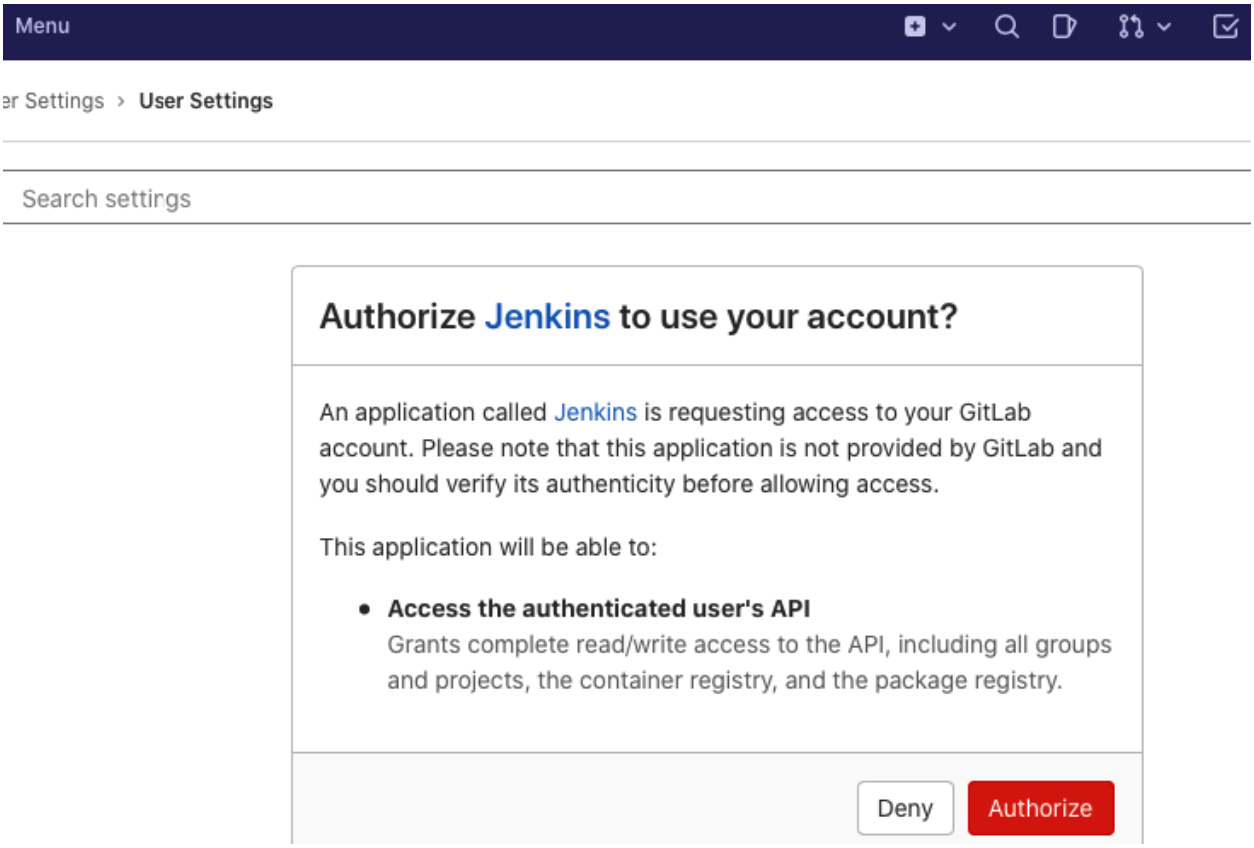
Sign in

Don't have an account yet? Register now



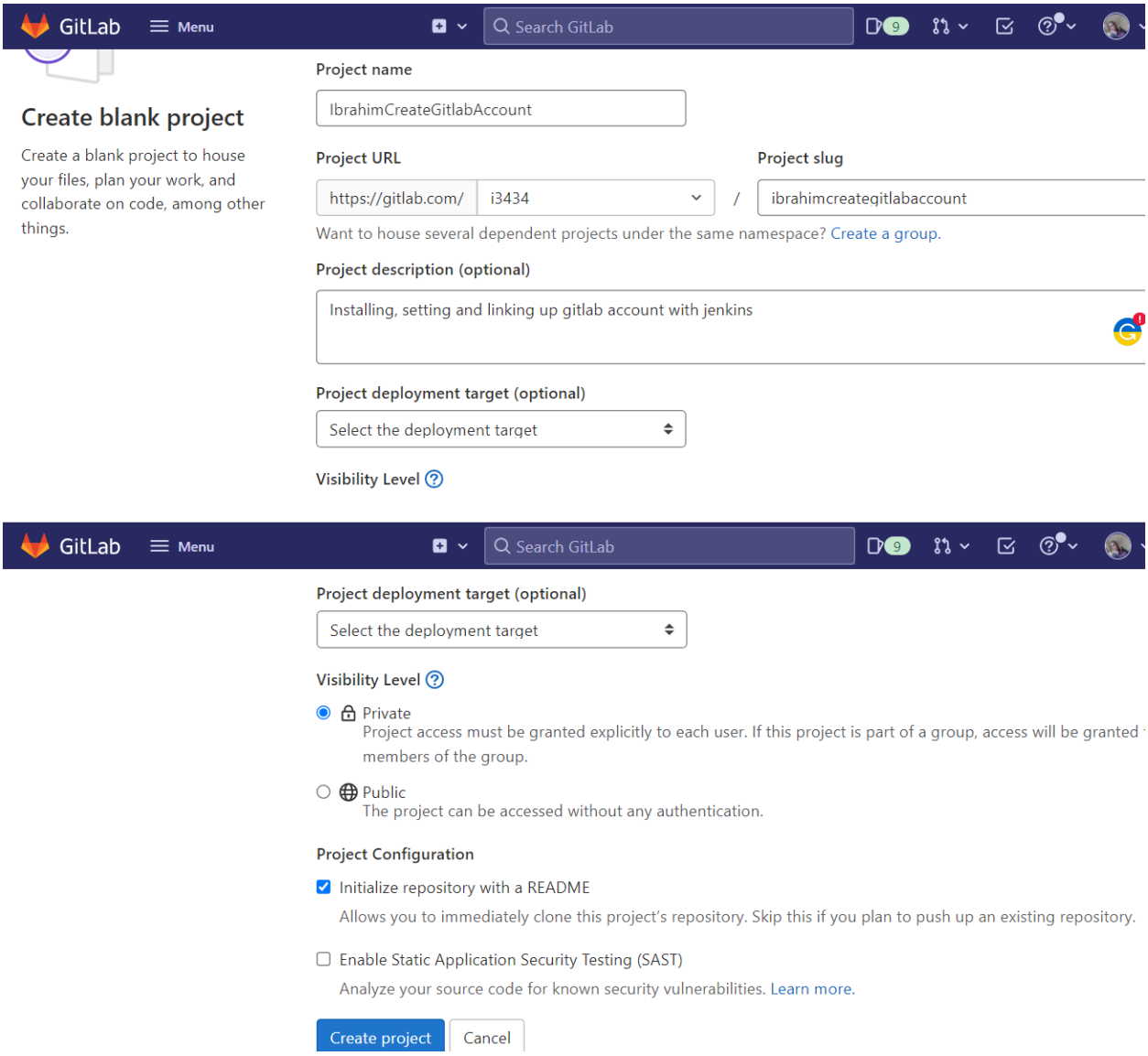
4. Jenkins

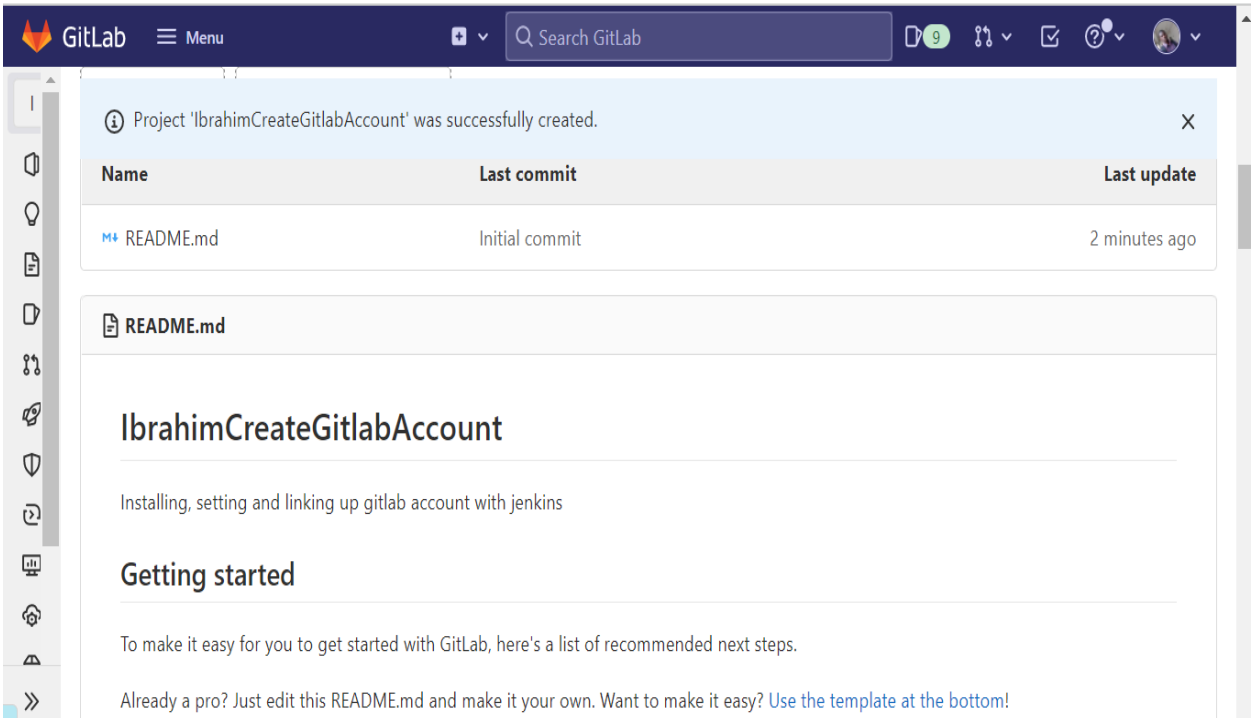
привязка моей учетной записи GitLab к Jenkins

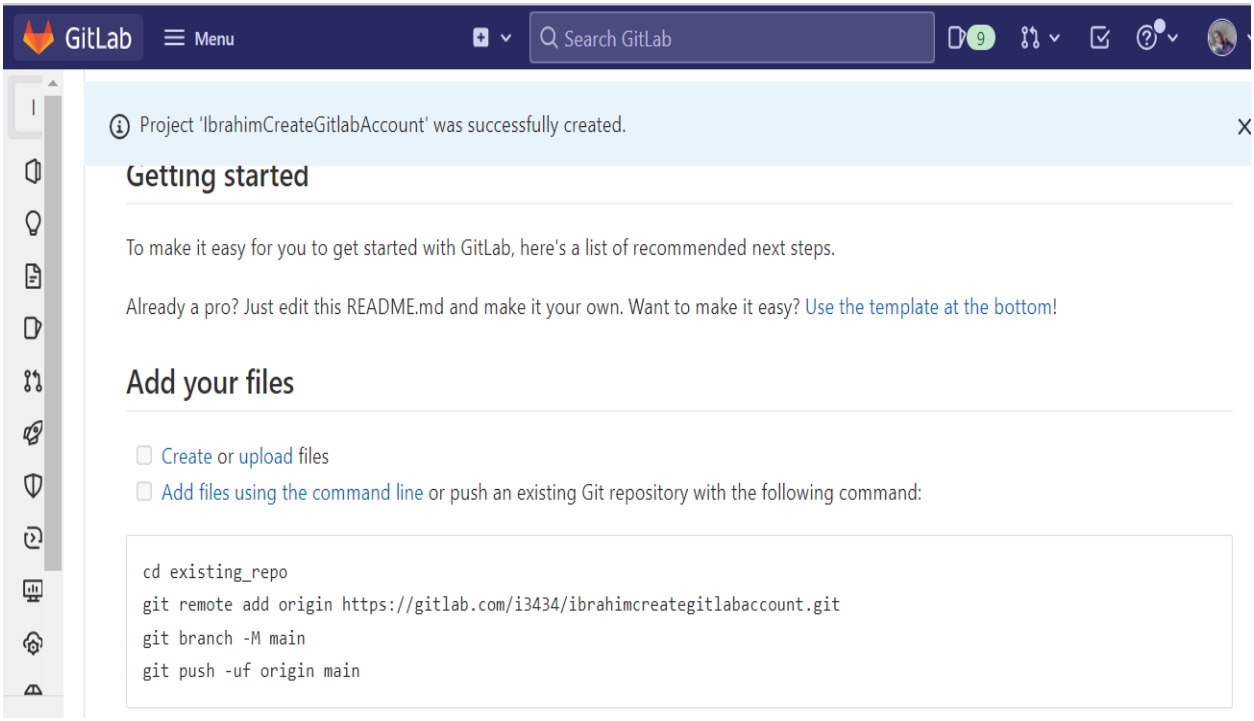


Задание

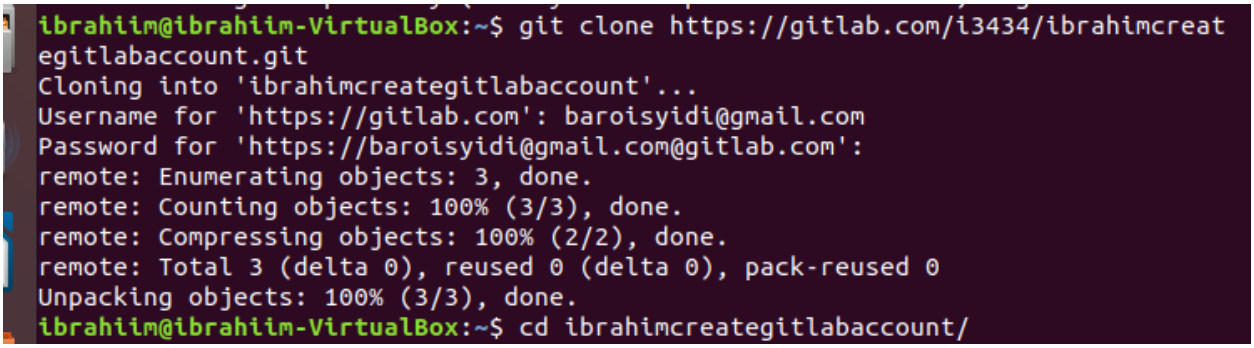
Необходимо будет создать простой REST сервис (без GUI) и написать к нему тесты (желательно воспользоваться встроенным в фреймворк инструментами, либо pytest + requests, что не очень правильно).

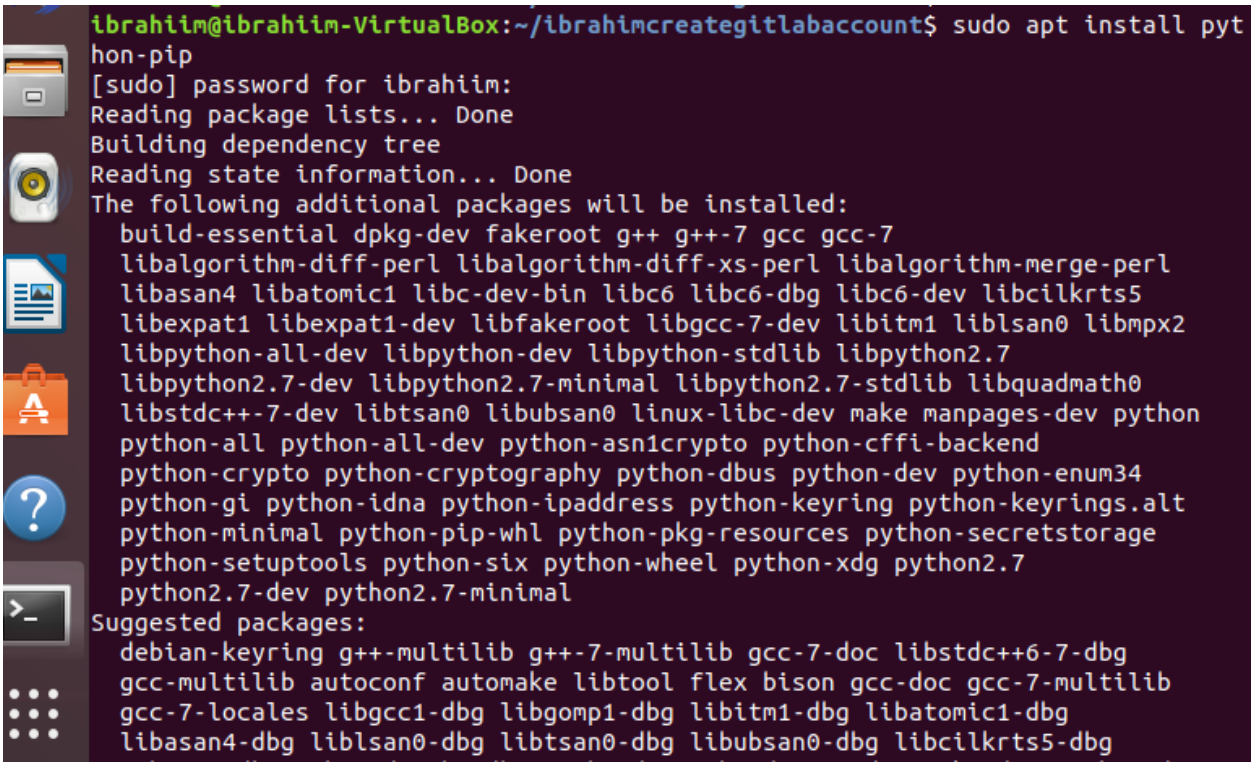


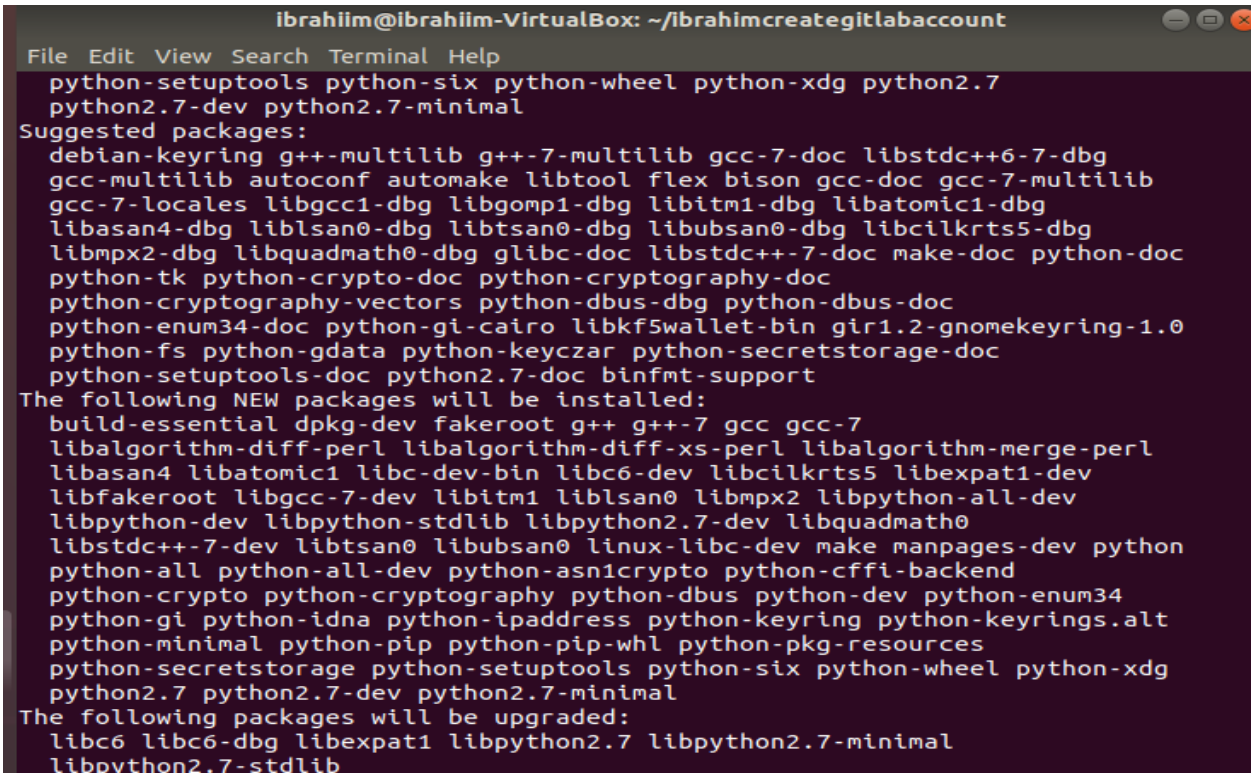

GitLab
Menu
Search GitLab
Project 'IbrahimCreateGitlabAccount' was successfully created.
Name
Last commit
Last update
README.md
Initial commit
2 minutes ago
README.md
IbrahimCreateGitlabAccount
Installing, setting and linking up gitlab account with jenkins
Getting started
To make it easy for you to get started with GitLab, here's a list of recommended next steps.
Already a pro? Just edit this README.md and make it your own. Want to make it easy? Use the template at the bottom!

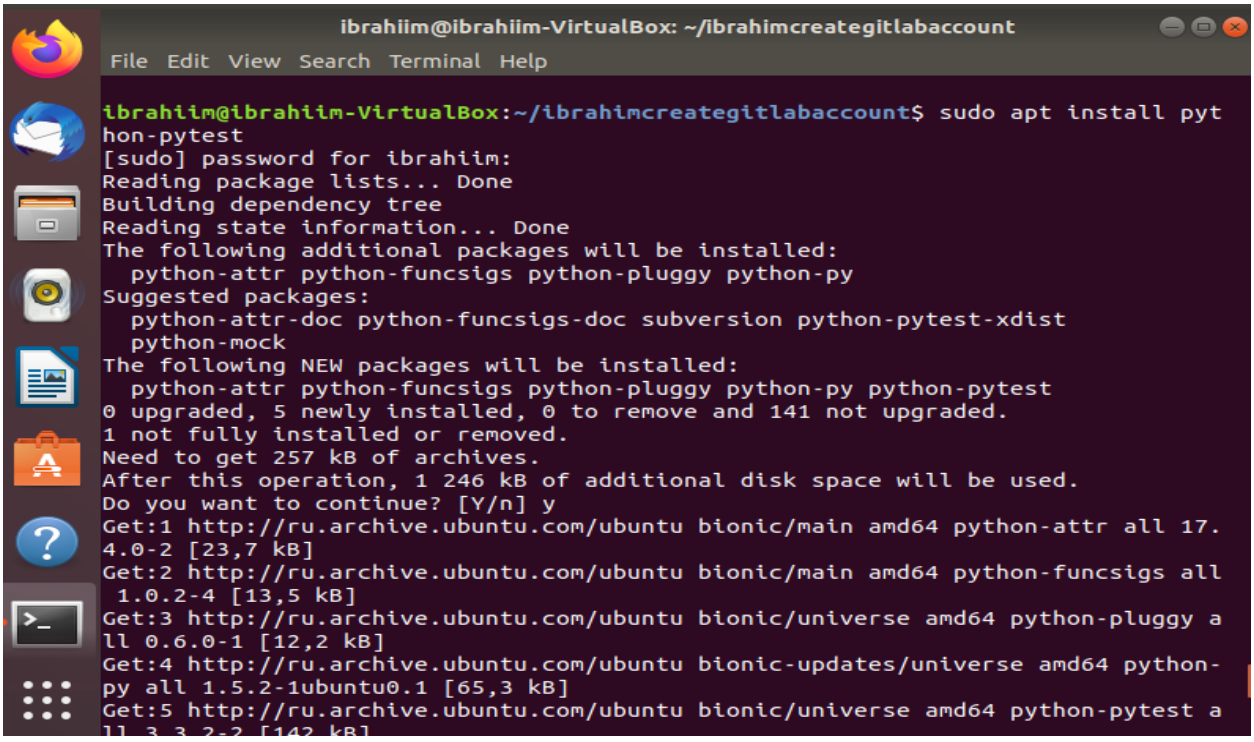

GitLab
Menu
Search GitLab
Project 'IbrahimCreateGitlabAccount' was successfully created.
Getting started
To make it easy for you to get started with GitLab, here's a list of recommended next steps.
Already a pro? Just edit this README.md and make it your own. Want to make it easy? Use the template at the bottom!
Add your files
Create or upload files
Add files using the command line or push an existing Git repository with the following command:
cd existing_repo
git remote add origin https://gitlab.com/i3434/ibrahimcreategitlabaccount.git
git branch -M main
git push -uf origin main

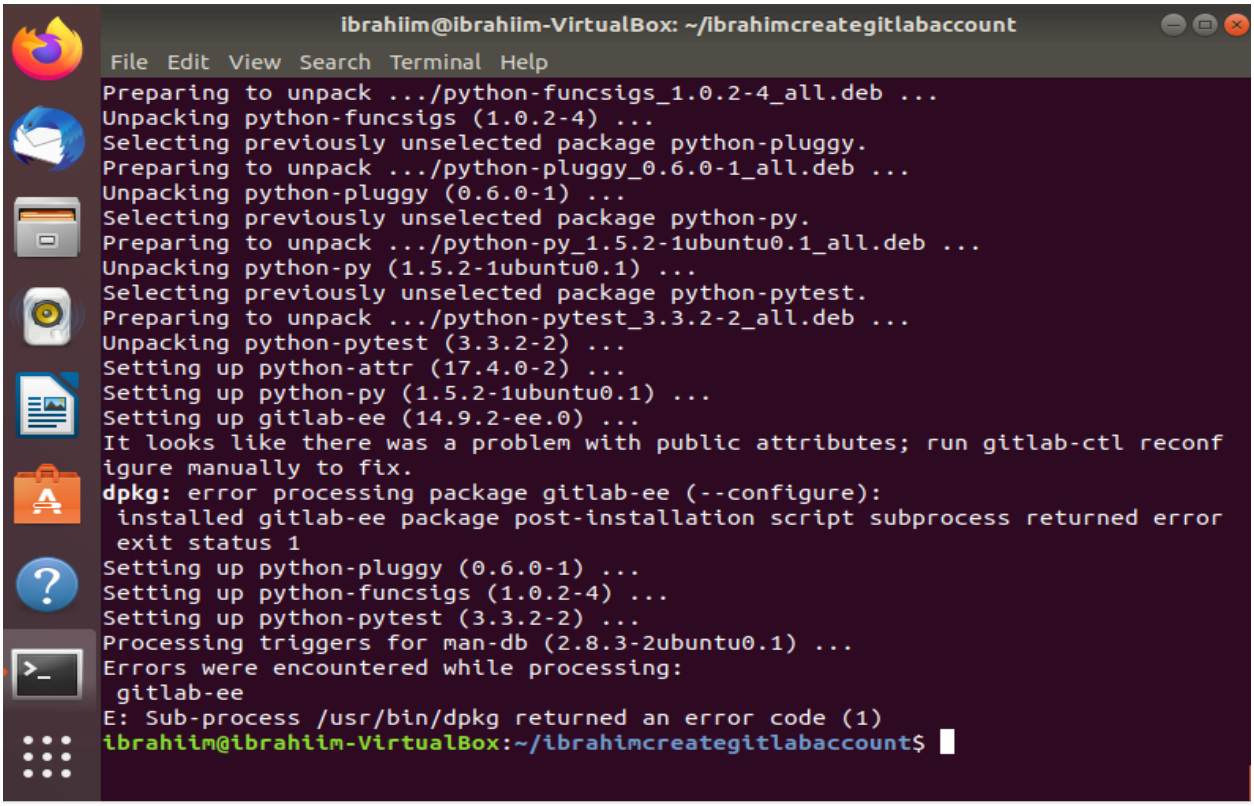
подготовки кода

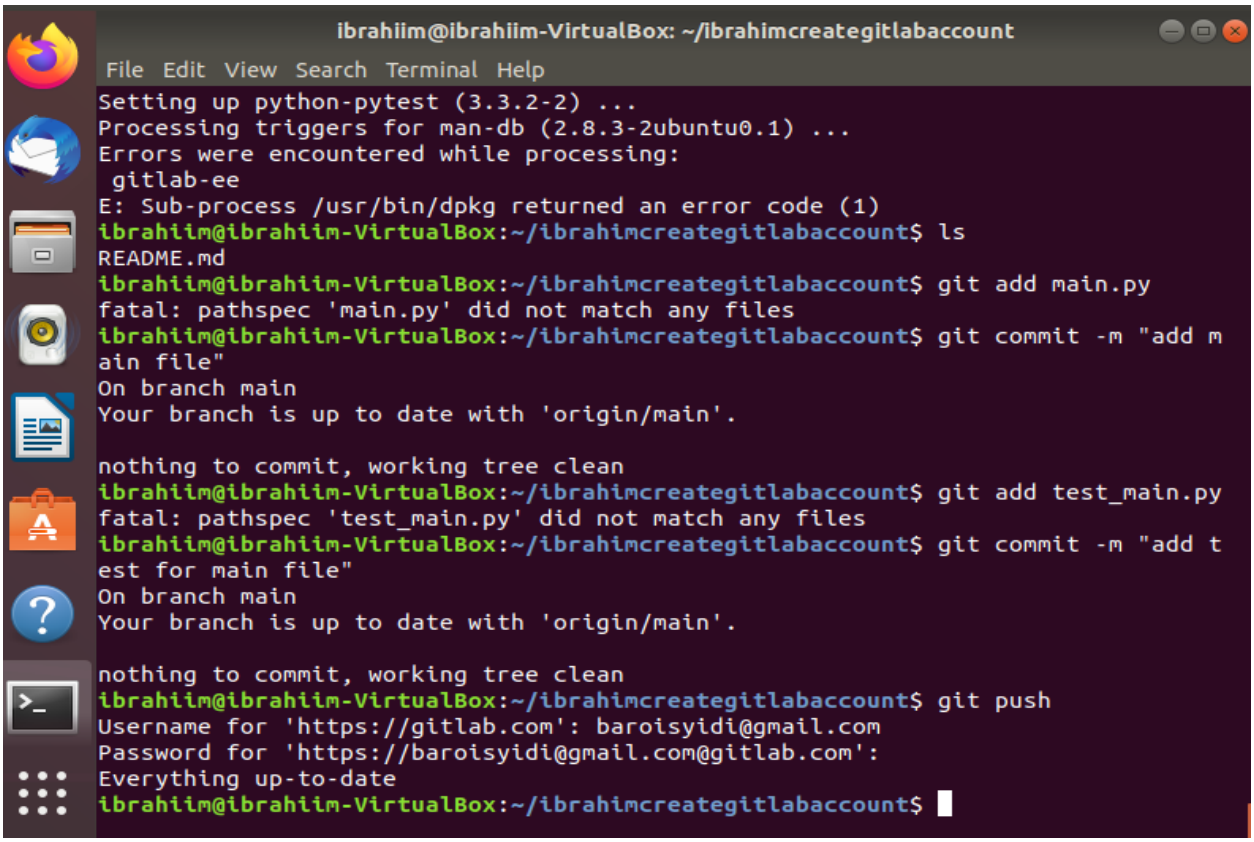





ibrahiim@ibrahiim-VirtualBox: ~/ibrahimcreategitlabaccount
File Edit View Search Terminal Help
python-setuptools python-six python-wheel python-xdg python2.7
python2.7-dev python2.7-minimal
Suggested packages:
debian-keyring g++-multilib g++-7-multilib gcc-7-doc libstdc++6-7-dbg
gcc-multilib autoconf automake libtool flex bison gcc-doc gcc-7-multilib
gcc-7-locales libgcc1-dbg libgomp1-dbg libitm1-dbg libatomic1-dbg
libasan4-dbg liblsan0-dbg libtsan0-dbg libubsan0-dbg libcilkrts5-dbg
libmpx2-dbg libquadmath0-dbg glibc-doc libstdc++-7-doc make-doc python-doc
python-tk python-crypto-doc python-cryptography-doc
python-cryptography-vectors python-dbus-dbg python-dbus-doc
python-enum34-doc python-gi-cairo libkf5wallet-bin gir1.2-gnomekeyring-1.0
python-fs python-gdata python-keyczar python-secretstorage-doc
python-setuptools-doc python2.7-doc binfmt-support
The following NEW packages will be installed:
build-essential dpkg-dev fakeroot g++ g++-7 gcc gcc-7
libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl
libasan4 libatomic1 libc-dev-bin libc6-dev libcilkrts5 libexpat1-dev
libfakeroot libgcc-7-dev libitm1 liblsan0 libmpx2 libpython-all-dev
libpython-dev libpython-stdlib libpython2.7-dev libquadmath0
libstdc++-7-dev libtsan0 libubsan0 linux-libc-dev make manpages-dev python
python-all python-all-dev python-asn1crypto python-cffi-backend
python-crypto python-cryptography python-dbus python-dev python-enum34
python-gi python-idna python-ipaddress python-keyring python-keyrings.alt
python-minimal python-pip python-pip-whl python-pkg-resources
python-secretstorage python-setuptools python-six python-wheel python-xdg
python2.7 python2.7-dev python2.7-minimal
The following packages will be upgraded:
libc6 libc6-dbg libexpat1 libpython2.7 libpython2.7-minimal
libpython2.7-stdlib


ibrahiim@ibrahiim-VirtualBox: ~/ibrahimcreategitlabaccount
File Edit View Search Terminal Help
ibrahiim@ibrahiim-VirtualBox:~/ibrahimcreategitlabaccount$ sudo apt install pyt
hon-pytest
[sudo] password for ibrahiim:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
python-attr python-funcsigs python-pluggy python-py
Suggested packages:
python-attr-doc python-funcsigs-doc subversion python-pytest-xdist
python-mock
The following NEW packages will be installed:
python-attr python-funcsigs python-pluggy python-py python-pytest
0 upgraded, 5 newly installed, 0 to remove and 141 not upgraded.
1 not fully installed or removed.
Need to get 257 kB of archives.
After this operation, 1 246 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 python-attr all 17.
4.0-2 [23,7 kB]
Get:2 http://ru.archive.ubuntu.com/ubuntu bionic/main amd64 python-funcsigs all
1.0.2-4 [13,5 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu bionic/universe amd64 python-pluggy a
ll 0.6.0-1 [12,2 kB]
Get:4 http://ru.archive.ubuntu.com/ubuntu bionic-updates/universe amd64 python-
py all 1.5.2-1ubuntu0.1 [65,3 kB]
Get:5 http://ru.archive.ubuntu.com/ubuntu bionic/universe amd64 python-pytest a


ibrahiim@ibrahiim-VirtualBox: ~/ibrahimcreategitlabaccount
File Edit View Search Terminal Help
Preparing to unpack .../python-funcsigs_1.0.2-4_all.deb ...
Unpacking python-funcsigs (1.0.2-4) ...
Selecting previously unselected package python-pluggy.
Preparing to unpack .../python-pluggy_0.6.0-1_all.deb ...
Unpacking python-pluggy (0.6.0-1) ...
Selecting previously unselected package python-py.
Preparing to unpack .../python-py_1.5.2-1ubuntu0.1_all.deb ...
Unpacking python-py (1.5.2-1ubuntu0.1) ...
Selecting previously unselected package python-pytest.
Preparing to unpack .../python-pytest_3.3.2-2_all.deb ...
Unpacking python-pytest (3.3.2-2) ...
Setting up python-attr (17.4.0-2) ...
Setting up python-py (1.5.2-1ubuntu0.1) ...
Setting up gitlab-ee (14.9.2-ee.0) ...
It looks like there was a problem with public attributes; run gitlab-ctl reconf
igure manually to fix.
dpkg: error processing package gitlab-ee (--configure):
installed gitlab-ee package post-installation script subprocess returned error
exit status 1
Setting up python-pluggy (0.6.0-1) ...
Setting up python-funcsigs (1.0.2-4) ...
Setting up python-pytest (3.3.2-2) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Errors were encountered while processing:
gitlab-ee
E: Sub-process /usr/bin/dpkg returned an error code (1)
ibrahiim@ibrahiim-VirtualBox:~/ibrahimcreategitlabaccount$


ibrahiim@ibrahiim-VirtualBox: ~/ibrahimcreategitlabaccount
File Edit View Search Terminal Help
Setting up python-pytest (3.3.2-2) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Errors were encountered while processing:
gitlab-ee
E: Sub-process /usr/bin/dpkg returned an error code (1)
ibrahiim@ibrahiim-VirtualBox:~/ibrahimcreategitlabaccount$ ls
README.md
ibrahiim@ibrahiim-VirtualBox:~/ibrahimcreategitlabaccount$ git add main.py
fatal: pathspec 'main.py' did not match any files
ibrahiim@ibrahiim-VirtualBox:~/ibrahimcreategitlabaccount$ git commit -m "add m
ain file"
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
ibrahiim@ibrahiim-VirtualBox:~/ibrahimcreategitlabaccount$ git add test_main.py
fatal: pathspec 'test_main.py' did not match any files
ibrahiim@ibrahiim-VirtualBox:~/ibrahimcreategitlabaccount$ git commit -m "add t
est for main file"
On branch main
Your branch is up to date with 'origin/main'.
nothing to commit, working tree clean
ibrahiim@ibrahiim-VirtualBox:~/ibrahimcreategitlabaccount$ git push
Username for 'https://gitlab.com': baroisyidi@gmail.com
Password for 'https://baroisyidi@gmail.com@gitlab.com':
Everything up-to-date
ibrahiim@ibrahiim-VirtualBox:~/ibrahimcreategitlabaccount$