

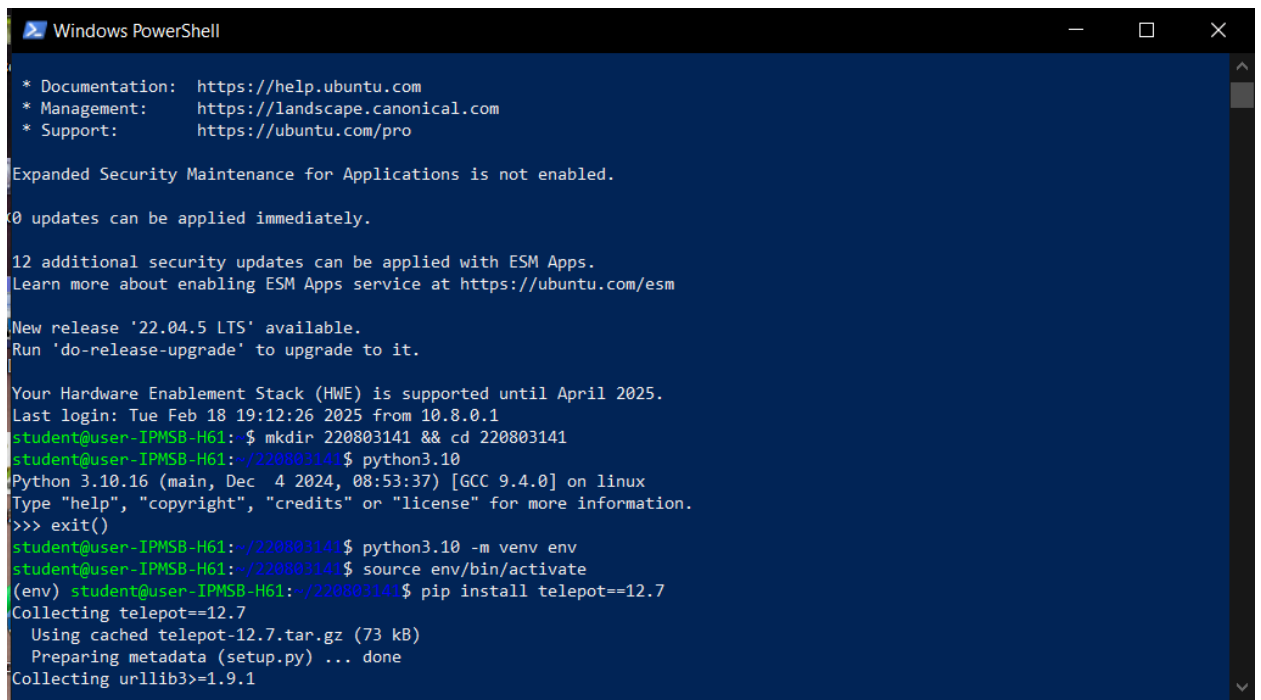
Практическая работа №2

Тема: «Основы работы с технологиями контейнеризации и ботами Telegram»

Цель работы:

Создание сервера с постоянно работающим Telegram ботом

Ход работы:



```
Windows PowerShell

* Documentation:  https://help.ubuntu.com
* Management:    https://landscape.canonical.com
* Support:        https://ubuntu.com/pro

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

12 additional security updates can be applied with ESM Apps.
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

New release '22.04.5 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

Your Hardware Enablement Stack (HWE) is supported until April 2025.
Last login: Tue Feb 18 19:12:26 2025 from 10.8.0.1
student@user-IPMSB-H61:~$ mkdir 220803141 && cd 220803141
student@user-IPMSB-H61:~/220803141$ python3.10
Python 3.10.16 (main, Dec  4 2024, 08:53:37) [GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
student@user-IPMSB-H61:~/220803141$ python3.10 -m venv env
student@user-IPMSB-H61:~/220803141$ source env/bin/activate
(env) student@user-IPMSB-H61:~/220803141$ pip install telepot==12.7
Collecting telepot==12.7
  Using cached telepot-12.7.tar.gz (73 kB)
  Preparing metadata (setup.py) ... done
Collecting urllib3>=1.9.1
```

Рисунок 2.1 Создание каталога на сервере и создание окружения

```
Windows PowerShell
[env] To update, run: pip install --upgrade pip
(env) student@user-IPMSB-H61:~/220803141$ nano bot.py
(env) student@user-IPMSB-H61:~/220803141$ python bot.py
I am listening ...
Got command: /start
From : 656645455
Got command: /command1
From : 656645455
Got command: /command2
From : 656645455

q
deactivate
cd
break

^CTraceback (most recent call last):
  File "/home/student/220803141/bot.py", line 18, in <module>
    time.sleep(10)
KeyboardInterrupt

(env) student@user-IPMSB-H61:~/220803141$ deactivate
student@user-IPMSB-H61:~/220803141$ nano requirements.txt
student@user-IPMSB-H61:~/220803141$ nano DockerFile
student@user-IPMSB-H61:~/220803141$ docker build -t 220803141.
```

Рисунок 2.2 Создание bot.py, проверка и собрание docker

```
Windows PowerShell
a635092fcef9  hello-world          hungry_dhawan         5 months ago         Exited (0) 5 months ago
386e9285ee2b  hello-world          goofy_bouman          5 months ago         Exited (0) 5 months ago
nostalgic_greider
student@user-IPMSB-H61:~/220803141$ docker logs d68b253bcd7f
I am listening ...
student@user-IPMSB-H61:~/220803141$ docker logs d68b253bcd7f
I am listening ...
Got command: /command1
From : 656645455
student@user-IPMSB-H61:~/220803141$ docker save -o ./docker_image_220803141.tar 220803141
student@user-IPMSB-H61:~/220803141$ exit
logout
Connection to 10.8.0.5 closed.
student@ruvds-x7i06:~$ http://scp%20student@10.8.0.5/home/student/docker_image_220803141.tar%20.
-bash: http://scp%20student@10.8.0.5/home/student/docker_image_220803141.tar%20.: No such file or directory
student@ruvds-x7i06:~$ scp student@10.8.0.5:/home/student/220803141/docker_image_220803141.tar .
student@10.8.0.5's password:
docker_image_220803141.tar                                100% 138MB  2.0MB/s  01:09
student@ruvds-x7i06:~$ exit
logout
Connection to 193.124.118.93 closed.
PS C:\Users\Asus> scp student@193.124.118.93:/home/student/docker_image_220803141.tar .
student@193.124.118.93's password:
docker_image_220803141.tar                                100% 138MB  2.1MB/s  01:07
PS C:\Users\Asus>
```

Рисунок 2.3 Сохранение docker image в виде архива

Вывод: создали телеграмм бота, изучили работу с сервером из окна Windows PowerShell, освоили работу с файлами на сервере.