## Государственное автономное образовательное учреждение высшего образования «Московский городской педагогический университет»

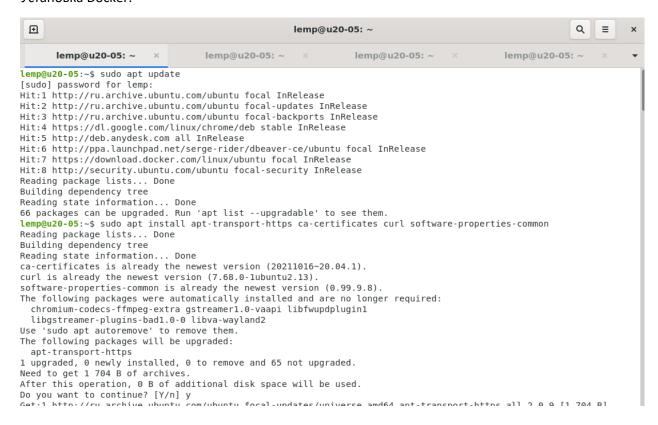
# Институт цифрового образования Департамент информатики, управления и технологий

Практическая работа № 3 «Rabbit MQ»

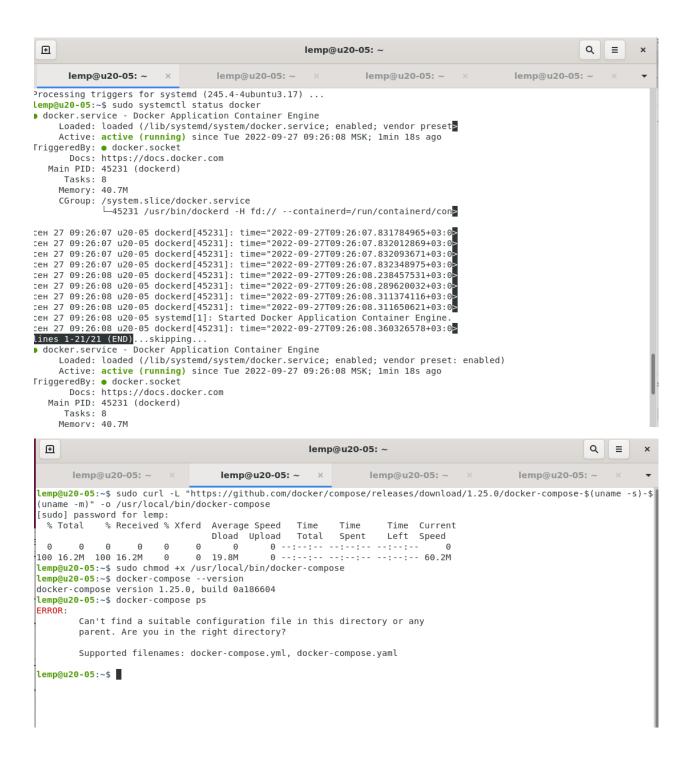
Выполнил: студент ТП-191

Кряжева К.С.

#### Установка Docker.



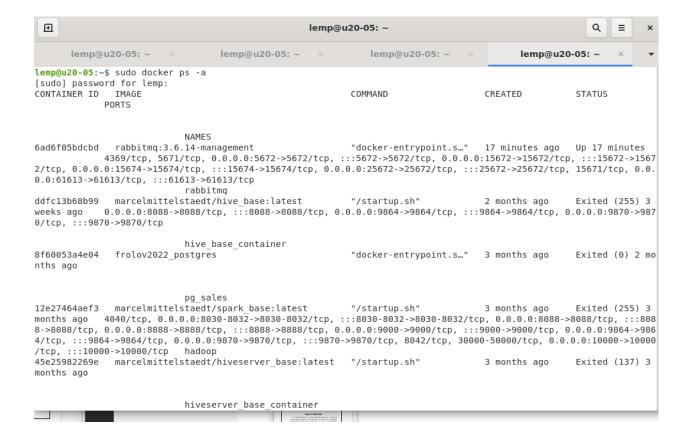
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Setting up apt-transport-https (2.0.9) ...
lemp@u20-05:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
lemp@u20-05:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu focal stable"
Hit:1 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:2 http://ppa.launchpad.net/serge-rider/dbeaver-ce/ubuntu focal InRelease
Hit:3 http://deb.anydesk.com all InRelease
Hit:4 https://download.docker.com/linux/ubuntu focal InRelease
Get:5 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Err:6 http://ru.archive.ubuntu.com/ubuntu focal InRelease
  Cannot initiate the connection to ru.archive.ubuntu.com:80 (2a02:6b8::183). - connect (101: Network is unreachabl
  Could not connect to ru.archive.ubuntu.com:80 (213.180.204.183), connection timed out
Err:7 http://ru.archive.ubuntu.com/ubuntu focal-updates InRelease
  Cannot initiate the connection to ru.archive.ubuntu.com:80 (2a02:6b8::183). - connect (101: Network is unreachabl
Err:8 http://ru.archive.ubuntu.com/ubuntu focal-backports InRelease
  Cannot initiate the connection to ru.archive.ubuntu.com:80 (2a02:6b8::183). - connect (101: Network is unreachabl
Fetched 114 kB in 30s (3 750 B/s)
Reading package lists... Done
W: Failed to fetch http://ru.archive.ubuntu.com/ubuntu/dists/focal/InRelease Cannot initiate the connection to ru.
rchive.ubuntu.com:80 (2a02:6b8::183). - connect (101: Network is unreachable) Could not connect to ru.archive.ubunt
.com:80 (213.180.204.183), connection timed out
W: Failed to fetch http://ru.archive.ubuntu.com/ubuntu/dists/focal-updates/InRelease Cannot initiate the connectio
 to ru.archive.ubuntu.com:80 (2a02:6b8::183). - connect (101: Network is unreachable)
W: Failed to fetch http://ru.archive.ubuntu.com/ubuntu/dists/focal-backports/InRelease  Cannot initiate the connect
on to ru.archive.ubuntu.com:80 (2a02:6b8::183). - connect (101: Network is unreachable)
W: Some index files failed to download. They have been ignored, or old ones used instead.
lemp@u20-05:~$ sudo apt update
Hit:1 http://ru.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://ru.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://ru.archive.uhuntu.com/uhuntu focal-hacknorts InRelease
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Get:10 http://ru.archive.ubuntu.com/ubuntu focal-updates/universe amd64 DEP-11 Metadata [391 kB]
Get:11 http://ru.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 DEP-11 Metadata [944 B]
Get:12 http://ru.archive.ubuntu.com/ubuntu focal-backports/main amd64 DEP-11 Metadata [7 972 B]
Get:13 http://ru.archive.ubuntu.com/ubuntu focal-backports/universe amd64 DEP-11 Metadata [30,5 kB]
Fetched 1 045 kB in 1s (1 111 kB/s)
Reading package lists... Done
lemp@u20-05:~$ sudo apt update
Hit:1 http://ru.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://ru.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://ru.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://deb.anydesk.com all InRelease
Hit:5 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:6 http://ppa.launchpad.net/serge-rider/dbeaver-ce/ubuntu focal InRelease
Hit:7 https://download.docker.com/linux/ubuntu focal InRelease
Get:8 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Fetched 114 kB in 1s (102 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
65 packages can be upgraded. Run 'apt list --upgradable' to see them.
lemp@u20-05:~$ apt-cache policy docker-ce
docker-ce:
  Installed: 5:20.10.16~3-0~ubuntu-focal
  Candidate: 5:20.10.18~3-0~ubuntu-focal
  Version table:
     5:20.10.18~3-0~ubuntu-focal 500
        500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
     5:20.10.17~3-0~ubuntu-focal 500
        500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
 *** 5:20.10.16~3-0~ubuntu-focal 500
        500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
        100 /var/lib/dpkg/status
```



Вариант запуска RabbitMQ в Docker контейнере.

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.emp@u20-05:~$ sudo docker pull rabbitmq:3.6.14-management
sudo] password for lemp:
3.6.14-management: Pulling from library/rabbitmq
:7bb522d92ff: Pull complete
d90649c4d84: Pull complete
3a318b914d6c: Pull complete
:edd60f70052: Pull complete
<sup>-</sup>754361b064d: Pull complete
9024d880d342: Pull complete
3d775050fc8: Pull complete
ie9f52fff670: Pull complete
?af9c86e1071: Pull complete
30eef1b61d37: Pull complete
32f0271a3b5e: Pull complete
:6f959a3f62b: Pull complete
1289a4ffa099: Pull complete
)igest: sha256:8f4d1feacc3f160a8e426dd33c57b7147c8e863d6283e917e3ce5f790830cca3
Status: Downloaded newer image for rabbitmq:3.6.14-management locker.io/library/rabbitmq:3.6.14-management
.emp@u20-05:~$ sudo docker volume create rabbitmq data
abbitmq_data
.emp@u20-05:~$ sudo docker run -d --hostname rabbitmq --log-driver=journald --name rabbitmq -p 5672:5672 -p 15672:15
372 -p 15674:15674 -p 25672:25672 -p 61613:61613 -v rabbitmq data:/var/lib/rabbitmq rabbitmq:3.6.14-management 3ad6f05bdcbde9dfec4879bc04d0a7cla0bc562be815302ddcf921e23e06b9b2
.emp@u20-05:~$ sudo docker container inspect rabbitmq
         "Id": "6ad6f05bdcbde9dfec4879bc04d0a7c1a0bc562be815302ddcf921e23e06b9b2",
         "Created": "2022-09-27T06:47:12.4311679Z",
         "Path": "docker-entrypoint.sh",
"Args": [
"rabbitmg-server"
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              "SandboxKey": "/var/run/docker/netns/9adc0d696952",
              "SecondaryIPAddresses": null,
"SecondaryIPv6Addresses": null,
              "EndpointID": "9bca292595f32d6baac3708d70d8d8f128c202eea9beb1223e4eda5ae4366137",
              "Gateway": "172.17.0.1",
              "GlobalIPv6Address": ""
              "GlobalIPv6PrefixLen": 0,
              "IPAddress": "172.17.0.2",
"IPPrefixLen": 16,
              "IPv6Gateway": "",
"MacAddress": "02:42:ac:11:00:02",
              "Networks": {
    "bridge": {
                        "IPAMConfig": null,
                        "Links": null,
                        "Aliases": null,
                       "NetworkID": "e6ddf0f9d6a92a02cd2da7a6b8bff94ade87e39ef5940517c00beb3828774127", "EndpointID": "9bca292595f32d6baac3708d70d8d8f128c202eea9beb1223e4eda5ae4366137",
                       "Gateway": "172.17.0.1",
"IPAddress": "172.17.0.2",
                       "IPv6Gateway": "",
                        "GlobalIPv6Address": "",
                        "GlobalIPv6PrefixLen": 0,
                        "MacAddress": "02:42:ac:11:00:02",
                        "DriverOpts": null
                  }
             }
        }
    }
```

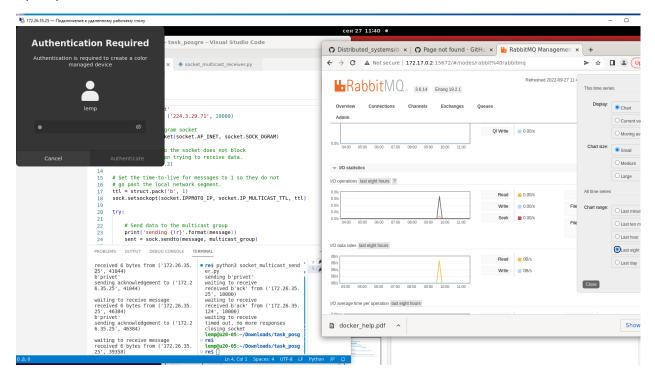
.emp@u20-05:~\$



#### Удаление ненужных контейнеров

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                                                         lemp@u20-05: ~ × lemp@u20-05: ~ ×
2/tcp, 0.0.0.0:15674->15674/tcp, :::15674->15674/tcp, 0.0.0.0:25672->25672/tcp, :::25672->25672/tcp, 15671/tcp, 0.0. 0.0:61613->61613/tcp, :::61613->61613/tcp
                         rabbitmo
             marcelmittelstaedt/hive base:latest
                                                     "/startup.sh"
ddfc13b68b99
                                                                            2 months ago
                                                                                            Exited (255) 3
           0.0.0.0:8088->8088/tcp, :::8088->8088/tcp, 0.0.0.9:9864->9864/tcp, :::9864->9864/tcp, 0.0.0.9:9870->987
weeks ago
0/tcp, :::9870->9870/tcp
                         hive_base_container
8f60053a4e04 frolov2022_postgres
                                                      "docker-entrypoint.s..." 3 months ago
                                                                                            Exited (0) 2 mo
nths ago
                         pg_sales
                                                     "/startup.sh"
12e27464aef3
             marcelmittelstaedt/spark_base:latest
                                                                            3 months ago
                                                                                            Exited (255) 3
/tcp, :::10000->10000/tcp hadoop
45e25982269e marcelmittelstaedt/hiveserver_base:latest "/startup.sh"
                                                                            3 months ago
                                                                                            Exited (137) 3
months ago
                         hiveserver base container
lemp@u20-05:~$ sudo docker rm ddfc13b68b99
ddfc13b68b99
lemp@u20-05:~$ sudo docker rm 8f60053a4e04
8f60053a4e04
lemp@u20-05:~$ sudo docker rm 12e27464aef3
12e27464aef3
lemp@u20-05:~$ sudo docker rm 45e25982269e
45e25982269e
lemp@u20-05:~$
```

#### Проверка RabbitMQ.



### Другой вариант запуска RabbitMQ.

