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Институт цифрового образования
Департамент информатики, управления и технологий

ДИСЦИПЛИНА:
«Распределенные системы»

Отчет по практической работе №3

Тема:
«Семинар 3. RabbitMQ»

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Проверил: Босенко Т.М.

Москва
2022

```
lemp@u20-14:~$ sudo apt update
[sudo] password for lemp:
Hit:1 http://ru.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://ru.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://ru.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Hit:4 https://dl.google.com/linux/chrome/deb stable InRelease
Hit:5 http://ppa.launchpad.net/serge-rider/dbeaver-ce/ubuntu focal InRelease
Get:6 http://ru.archive.ubuntu.com/ubuntu focal-updates/main amd64 DEP-11 Metadata [278 kB]
Hit:7 http://deb.anydesk.com all InRelease
Get:8 http://ru.archive.ubuntu.com/ubuntu focal-updates/universe amd64 DEP-11 Metadata [391 kB]
Get:9 http://ru.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 DEP-11 Metadata [944 B]
Get:10 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:11 http://ru.archive.ubuntu.com/ubuntu focal-backports/main amd64 DEP-11 Metadata [7 972 B]
Get:12 http://ru.archive.ubuntu.com/ubuntu focal-backports/universe amd64 DEP-11 Metadata [30,5 kB]
Hit:13 https://download.docker.com/linux/ubuntu focal InRelease
Fetched 1 045 kB in 1s (875 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
54 packages can be upgraded. Run 'apt list --upgradable' to see them.
lemp@u20-14:~$ sudo apt install apt-transport-https ca-certificates curl software-properties-common
Reading package lists... Done
Building dependency tree
Reading state information... Done
ca-certificates is already the newest version (20211016~20.04.1).
curl is already the newest version (7.68.0-1ubuntu2.13).
software-properties-common is already the newest version (0.99.9.8).
apt-transport-https is already the newest version (2.0.9).
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi libfwupdplugin1
  libgstreamer-plugins-bad1.0-0 libminizip1 libva-wayland2
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 54 not upgraded.
lemp@u20-14:~$ curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -
OK
lemp@u20-14:~$ sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu
> focal stable"
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
Get:7 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:8 https://download.docker.com/linux/ubuntu focal InRelease
Fetched 114 kB in 1s (86,5 kB/s)
Reading package lists... Done
```

```
lemp@u20-14:~$ 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
Get:5 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Hit:6 http://ppa.launchpad.net/serge-rider/dbeaver-ce/ubuntu focal InRelease
Hit:7 https://download.docker.com/linux/ubuntu focal InRelease
Hit:8 https://dl.google.com/linux/chrome/deb stable InRelease
Fetched 114 kB in 1s (135 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
54 packages can be upgraded. Run 'apt list --upgradable' to see them.
lemp@u20-14:~$ apt-cache policy docker-ce
docker-ce:
  Installed: 5:20.10.17~3-0~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
      100 /var/lib/dpkg/status
   5:20.10.16~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.15~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.14~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.13~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.12~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.11~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.10~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.9~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.8~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.7~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
   5:20.10.6~3-0~ubuntu-focal 500
      500 https://download.docker.com/linux/ubuntu focal/stable amd64 Packages
```

```

lemp@u20-14:~$ sudo apt install docker-ce
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi libfwupdplugin1
  libgstreamer-plugins-bad1.0-0 libminizip1 libva-wayland2
Use 'sudo apt autoremove' to remove them.
Suggested packages:
  aufs-tools cgroupfs-mount | cgroup-lite
The following packages will be upgraded:
  docker-ce
1 upgraded, 0 newly installed, 0 to remove and 53 not upgraded.
Need to get 20,4 MB of archives.
After this operation, 12,4 MB disk space will be freed.
Get:1 https://download.docker.com/linux/ubuntu focal/stable amd64 docker-ce amd64 5:20.10.18~3-0~ubuntu-
Fetched 20,4 MB in 1s (22,9 MB/s)
(Reading database ... 191960 files and directories currently installed.)
Preparing to unpack .../docker-ce_5%3a20.10.18~3-0~ubuntu-focal_amd64.deb ...
Unpacking docker-ce (5:20.10.18~3-0~ubuntu-focal) over (5:20.10.17~3-0~ubuntu-fo
cal) ...
Setting up docker-ce (5:20.10.18~3-0~ubuntu-focal) ...
Processing triggers for systemd (245.4-4ubuntu3.17) ...
lemp@u20-14:~$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset
   Active: active (running) since Tue 2022-09-27 10:26:26 MSK; 14s ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 5169 (dockerd)
      Tasks: 12
     Memory: 21.7M
    CGroup: /system.slice/docker.service
            └─5169 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont>

```

```

lemp@u20-14:~$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset
   Active: active (running) since Tue 2022-09-27 10:26:26 MSK; 14s ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 5169 (dockerd)
      Tasks: 12
     Memory: 21.7M
    CGroup: /system.slice/docker.service
            └─5169 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/cont>

сен 27 10:26:25 u20-14 dockerd[5169]: time="2022-09-27T10:26:25.805915700+03:00>
сен 27 10:26:25 u20-14 dockerd[5169]: time="2022-09-27T10:26:25.806238003+03:00>
сен 27 10:26:25 u20-14 dockerd[5169]: time="2022-09-27T10:26:25.806490805+03:00>
сен 27 10:26:25 u20-14 dockerd[5169]: time="2022-09-27T10:26:25.806968110+03:00>
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.006976613+03:00>
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.050606249+03:00>
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.092282965+03:00>
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.092331365+03:00>
сен 27 10:26:26 u20-14 systemd[1]: Started Docker Application Container Engine.
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.134714588+03:00>
lines 1-21/21 (END)...skipping...
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2022-09-27 10:26:26 MSK; 14s ago
   TriggeredBy: ● docker.socket
     Docs: https://docs.docker.com
    Main PID: 5169 (dockerd)
      Tasks: 12
     Memory: 21.7M
    CGroup: /system.slice/docker.service
            └─5169 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock

```

lines 1-21/21 (END)...skipping...

```
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2022-09-27 10:26:26 MSK; 14s ago
 TriggeredBy: ● docker.socket
    Docs: https://docs.docker.com
   Main PID: 5169 (dockerd)
     Tasks: 12
    Memory: 21.7M
   CGroup: /system.slice/docker.service
           └─5169 /usr/bin/dockerd -H fd:// --containerd=/run/containerd/containerd.sock
```

```
сен 27 10:26:25 u20-14 dockerd[5169]: time="2022-09-27T10:26:25.805915700+03:00" level=warning msg="Your kernel version (5.15.0) is too old. Use a kernel with a higher version."
сен 27 10:26:25 u20-14 dockerd[5169]: time="2022-09-27T10:26:25.806238003+03:00" level=warning msg="Your kernel version (5.15.0) is too old. Use a kernel with a higher version."
сен 27 10:26:25 u20-14 dockerd[5169]: time="2022-09-27T10:26:25.806490805+03:00" level=warning msg="Your kernel version (5.15.0) is too old. Use a kernel with a higher version."
сен 27 10:26:25 u20-14 dockerd[5169]: time="2022-09-27T10:26:25.806968110+03:00" level=info msg="Loading containers: start."
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.006976613+03:00" level=info msg="Default bridge (docker0) is already up. To create new bridges, use 'docker network create'. If you don't wish to create a new bridge, you can also suppress this message with --miprune"
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.050606249+03:00" level=info msg="Loading containers: start."
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.092282965+03:00" level=info msg="Docker daemon"
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.092331365+03:00" level=info msg="Daemon has started"
сен 27 10:26:26 u20-14 systemd[1]: Started Docker Application Container Engine.
сен 27 10:26:26 u20-14 dockerd[5169]: time="2022-09-27T10:26:26.134714588+03:00" level=info msg="API listen on /var/run/docker.sock"
~
```

```
lemp@u20-14:~$ sudo curl -L "https://github.com/docker/compose/releases/download/1.25.0/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
[sudo] password for lemp:
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100 16.2M 100 16.2M    0     0  14.7M    0  0:00:01  0:00:01 --:--:-- 45.5M
lemp@u20-14:~$ sudo chmod +x /usr/local/bin/docker-compose
lemp@u20-14:~$ docker-compose --version
docker-compose version 1.25.0, build 0a186604
lemp@u20-14:~$ docker-compose ps
ERROR:
Can't find a suitable configuration file in this directory or any
parent. Are you in the right directory?

Supported filenames: docker-compose.yml, docker-compose.yaml
lemp@u20-14:~$
```

```
lemp@u20-14:~$ sudo docker pull rabbitmq:3.6.14-management
[sudo] password for lemp:
3.6.14-management: Pulling from library/rabbitmq
Digest: sha256:8f4d1feacc3f160a8e426dd33c57b7147c8e863d6283e917e3ce5f790830cca3
Status: Image is up to date for rabbitmq:3.6.14-management
docker.io/library/rabbitmq:3.6.14-management
lemp@u20-14:~$ sudo docker volume create rabbitmq_data
rabbitmq_data
lemp@u20-14:~$ sudo docker run -d --hostname rabbitmq --log-driver=journald --name rabbitmq -p 5672:5672 -p 15672:15672 -p 15674:15674 -p 25672:25672
72 -p 61613:61613 -v rabbitmq_data:/var/lib/rabbitmq rabbitmq:3.6.14-management
docker: Error response from daemon: Conflict. The container name "/rabbitmq" is already in use by container "5c274bf53bbe7b1c64fda403c730e113ddb61279c5ee59609982e18a39ab8fd". You have to remove (or rename) that container to be able to reuse that name.
See 'docker run --help'.
lemp@u20-14:~$ sudo docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS
5c274bf53bbe	rabbitmq:3.6.14-management	"docker-entrypoint.s..."	3 months ago	Exited (255) 3 weeks ago	4369/tcp, 5671/tcp, 0.0.0.0:5672->5672/tcp, ::5672->5672/tcp, 0.0.0.0:15672->15672/tcp, ::15672->15672/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
5a9c1b4b8f	bitnami/cassandra:4.0	"/opt/bitnami/script..."	5 months ago	Exited (255) 4 months ago	0.0.0.0:7000->7000/tcp, ::7000->7000/tcp
7b89ab880778	phpmyadmin/phpmyadmin:5.0.0	"/docker-entrypoint.s..."	7 months ago	Exited (0) 7 months ago	
4c8b07626b08	mysql:latest	"docker-entrypoint.s..."	7 months ago	Exited (0) 7 months ago	
c142308fc761	phpmyadmin/phpmyadmin:5.0.0	"/docker-entrypoint.s..."	7 months ago	Exited (0) 7 months ago	
1aec8dd4c7ff	mysql:latest	"docker-entrypoint.s..."	7 months ago	Exited (0) 7 months ago	

```
lemp@u20-14:~$ sudo docker container inspect rabbitmq
```

```
[
  {
    "Id": "5c274bf53bbe7b1c64fda403c730e113ddb612279c5ee59609982e18a39ab8fd",
    "Created": "2022-06-23T19:10:22.489104398Z",
    "Path": "docker-entrypoint.sh",
    "Args": [
      "rabbitmq-server"
    ],
    "State": {
      "Status": "exited",
      "Running": false,
      "Paused": false,
      "Restarting": false,
      "OOMKilled": false,
      "Dead": false,
      "Pid": 0,
      "ExitCode": 255,
      "Error": "",
      "StartedAt": "2022-06-23T19:10:23.470891152Z",
      "FinishedAt": "2022-09-02T14:53:14.6131556+03:00"
    },
    "Image": "sha256:42b283da44d0b52785e7f114e5252f6f9fbcc0f0ca580461e6c7125af9ab3e94",
    "ResolvConfPath": "/var/lib/docker/containers/5c274bf53bbe7b1c64fda403c730e113ddb612279c5ee59609982e18a39ab8fd/resolv.conf",
    "HostnamePath": "/var/lib/docker/containers/5c274bf53bbe7b1c64fda403c730e113ddb612279c5ee59609982e18a39ab8fd/hostname",
    "HostsPath": "/var/lib/docker/containers/5c274bf53bbe7b1c64fda403c730e113ddb612279c5ee59609982e18a39ab8fd/hosts",
    "LogPath": "",
    "Name": "/rabbitmq",
    "RestartCount": 0,
    "Driver": "overlay2",
    "Platform": "linux",
    "MountLabel": "",
    "ProcessLabel": "",
    "AppArmorProfile": "docker-default",
    "ExecIDs": null,
    "HostConfig": {
      "Binds": [
        "rabbitmq_data:/var/lib/rabbitmq"
      ],
      "ContainerIDFile": "",
      "LogConfig": {
        "Type": "journald",
        "Config": {}
      },
      "IPAMConfig": null,
      "Links": null,
      "Aliases": null,
      "NetworkID": "d2da1d61dfb1aa50166855cb94374dd305628a193866da969465d72334aab582",
      "EndpointID": "bec823996b72c5d1afe433c29daf5c390f4107c7a2db92b4a4791a6959c538b8",
      "Gateway": "172.17.0.1",
      "IPAddress": "172.17.0.2",
      "IPPrefixLen": 16,
      "IPv6Gateway": "",
      "GlobalIPv6Address": "",
      "GlobalIPv6PrefixLen": 0,
      "MacAddress": "02:42:ac:11:00:02",
      "DriverOpts": null
    }
  }
]
```

```

    "IPAMConfig": null,
    "Links": null,
    "Aliases": null,
    "NetworkID": "d2da1d61dfb1aa50166855cb94374dd305628a193866da969465d72334aab582",
    "EndpointID": "bec823996b72c5d1afe433c29daf5c390f4107c7a2db92b4a4791a6959c538b8",
    "Gateway": "172.17.0.1",
    "IPAddress": "172.17.0.2",
    "IPPrefixLen": 16,
    "IPv6Gateway": "",
    "GlobalIPv6Address": "",
    "GlobalIPv6PrefixLen": 0,
    "MacAddress": "02:42:ac:11:00:02",
    "DriverOpts": null
  }
}
}
}
1
```

172.26.35.134 — Подключение к удаленному рабочему столу

cen 27 11:42 •

socket_multicast_sender.py - work - Visual Studio Code

socket_multicast_receiver.py

```
1 import socket
2 import struct
3 import sys
4
5 message = b'Privet'
6 multicast_group = ('224.3.29.71', 10000)
7
8 # Create the datagram socket
9 sock = socket.socket(socket.AF_INET, socket.SOCK_DGRAM)
10
11 # Set a timeout so the socket does not block
12 # indefinitely when trying to receive data.
13 sock.settimeout(0.2)
14
15 # Set the time-to-live for messages to 1 so they do
16 # not go past the local network segment.
17 ttl = struct.pack('b', 1)
18 sock.setsockopt(socket.IPPROTO_IP, socket.IP_MULTICAST_TTL, ttl)
19
20 try:
21     # Send data to the multicast group
22     print('sending {0}'.format(message))
23     sent = sock.sendto(message, multicast_group)
24
25     # Look for responses from all recipients
26     while True:
27         print('waiting to receive')
28         try:
29             data, addr = sock.recvfrom(1024)
```

received 6 bytes from ('172.26.35.127', 43966)
b'privet'
sending acknowledgement to ('172.26.35.127', 43966)
waiting to receive message
received 6 bytes from ('172.26.35.127', 54730)
b'privet'
sending acknowledgement to ('172.26.35.127', 54730)
waiting to receive message
received 6 bytes from ('172.26.35.134', 42535)
b'Privet'
sending acknowledgement to ('172.26.35.134', 42535)
waiting to receive message

RabbitMQ Management

3.6.14 Erlang 19.2.1

Overview Connections Channels Exchanges Queues Admin

Refreshed 2022-09-27 11:42

Display: ☒ Chart ☐ Current value ☐ Moving average

Chart size: ☒ Small ☐ Medium ☐ Large

All time series

Chart range: ☐ Last minute ☐ Last ten minutes ☐ Last hour ☒ Last eight hours ☐ Last day

Close

Sync: ☒ 0.00ms

File handle open attempt: ☒ 0.04ms

Cluster links

waiting to receive
timed out, no more responses
closing socket
lemp@u20-14: ~/Downloads/works

lemp@u20-14: ~

GNU nano 4.8 run.sh Modified

```
docker run -d --hostname rabbitmq --log-driver=journald --name rabbitmq -p 5672>
```

Get Help Write Out Where Is Cut Text Justify Cur Pos
Exit Read File Replace Paste Text To Spell Go To Line


```
lemp@u20-14: ~  
lemp@u20-14:~$ sudo docker volume create rabbitmq_data  
rabbitmq_data  
lemp@u20-14:~$ ./run.sh  
docker: Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Post "http://%2Fvar%2Frun%2Fdocker.sock/v1.24/containers/create?name=rabbitmq": dial unix /var/run/docker.sock: connect: permission denied.  
See 'docker run --help'.  
lemp@u20-14:~$ sudo ./run.sh  
a910f2d83929a0565fcc7d2a0bc07e3e3868dd0a9a7205ed663a39420820ac3a  
lemp@u20-14:~$ sudo docker ps  
CONTAINER ID        IMAGE                                     COMMAND                  CREATED  
STATUS             PORTS  
a910f2d83929      rabbitmq:3.6.14-management             "docker-entrypoint.s..." 13 seconds  
ago               Up 12 seconds  4369/tcp, 5671/tcp, 0.0.0.0:5672->5672/tcp, :::5672->5672/tcp, 0.0.0.0:15672->15672/tcp, :::15672->15672/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  rabbitmq  
lemp@u20-14:~$ sudo docker start rabbitmq  
rabbitmq  
lemp@u20-14:~$
```

RabbitMQ Management

Not secure | 172.17.0.2:15672/#/

Refreshed 2022-10-04 16:13:35

Refresh every 5 seconds

RabbitMQ

3.6.14 Erlang 19.2.1

Virtual host All

Cluster rabbit@rabbitmq

User guest Log out

Overview

Connections Channels Exchanges Queues Admin

Overview

Totals

Queued messages last eight hours

Currently idle

Message rates last eight hours

Currently idle

Global counts

Connections: 0 Channels: 0 Exchanges: 8 Queues: 0 Consumers: 0

Nodes

Name	File descriptors	Socket descriptors	Erlang processes	Memory	Disk space	Uptime	Info	Resources
rabbit@rabbitmq	56 1048576 available	0 943626 available	319 1048576 available	76MB 3.0GB high watermark	47GB 48MB low watermark	4m 9s	basic disc 1	Th Al

Ports and contexts

Export definitions

Import definitions

HTTP API Server Docs Tutorials Community Support Community Slack Commercial Support Plugins GitHub Changelog

