

RabbitMQ docker-

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 - ' RabbitMQ docker-

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- Astra Linux Special Edition .10015-01 (1.7)
2023-1023SE17 (1.7.5)

RabbitMQ (-), . :

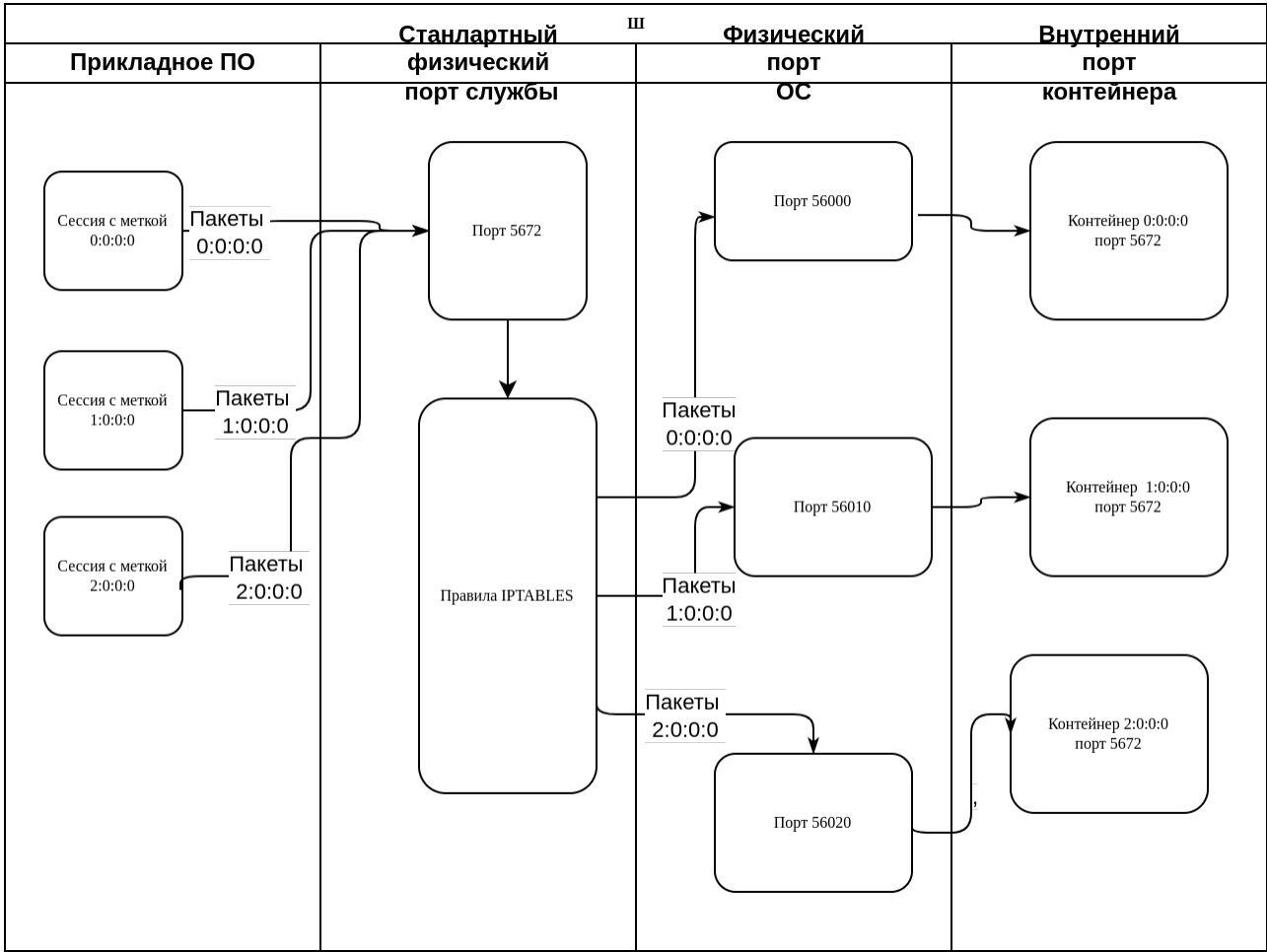
- 1. (, -) . , 0:0:0:0, 1:0:0:0 2:0:0:0 (. docker).
- 2. , docker- (. Docker Astra Linux 1.7). Docker- , .
- 3. .
- 4. . docker .
- 5. , , . , .
- 6. , , iptables .
- 7. , , docker .

Astra Linux Special Edition 1.7, docker- Astra Linux. , . Docker- Astra Linux.

:

5672	0:0:0:0	56000	0:0:0:0, 5672
	1:0:0:0	56010	1:0:0:0, 5672
	2:0:0:0	56020	2:0:0:0, 5672
15672	0:0:0:0	56001	0:0:0:0, 15672
	1:0:0:0	56011	1:0:0:0, 15672
	2:0:0:0	56021	2:0:0:0, 15672
25672	0:0:0:0	56002	0:0:0:0, 25672
	1:0:0:0	56012	1:0:0:0, 25672
	2:0:0:0	56022	2:0:0:0, 25672

(5672):



(-).

docker.io:

```
sudo apt install -y docker.io
```

∴ .

(-).

1. , :

```
sudo useradd -s /usr/sbin/nologin <_>
```

2. ,:

```
sudo pdpl-user -l 0:3 -c 0:0 -i 0 <_>
```

3. :

```
sudo loginctl enable-linger <_>
```

4. rootless docker :

```
sudo systemctl enable rootless-docker@$(systemd-escape <_>@0:0:0:0)
sudo systemctl enable rootless-docker@$(systemd-escape <_>@1:0:0:0)
sudo systemctl enable rootless-docker@$(systemd-escape <_>@2:0:0:0)
```

5. :

```
sudo reboot
```

6. , :

```
sudo systemctl is-active rootless-docker@$(systemd-escape <_>@0:0:0:0)
sudo systemctl is-active rootless-docker@$(systemd-escape <_>@1:0:0:0)
sudo systemctl is-active rootless-docker@$(systemd-escape <_>@2:0:0:0)
```

, docker, , sudo (. [Docker Astra Linux 1.7](#)).

1. :

```
docker pull registry.astralinux.ru/library/alse:1.7.5
```

2. :

```
docker image ls
```

:

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
registry.astralinux.ru/library/alse	1.7.5	83d2946f21f2	4 weeks ago	94.3MB

. :

1. rabbitmq-server.
2. rabbit-management, web-.
3. /etc/rabbitmq/rabbitmq.conf. docker- Astra Linux Special Edition , /etc/rabbitmq/rabbitmq.conf .
4. rabbitmq (guest guest). astra astra. /etc/rabbitmq/rabbitmq.conf. web-, docker-.
5. , (EXPOSE). . <https://www.rabbitmq.com/networking.html>. , .
6. , (ENTRYPOINT /usr/sbin/rabbitmq-server) – .

:

1. Dockerfile . :

Dockerfile

```
FROM registry.astralinux.ru/library/alse:1.7.5
RUN apt update && apt install -y rabbitmq-server && rabbitmq-plugins enable rabbitmq_management
RUN mkdir -p /etc/parsec/
RUN touch /etc/parsec/privsock.conf
RUN echo "default_user = astra" >> /etc/rabbitmq/rabbitmq.conf
RUN echo "default_pass = astra" >> /etc/rabbitmq/rabbitmq.conf
RUN cat /etc/rabbitmq/rabbitmq.conf
# https://www.rabbitmq.com/networking.html
EXPOSE 1883
EXPOSE 4369
EXPOSE 5551-5552
EXPOSE 5671-5672
EXPOSE 6000-6500
EXPOSE 8883
EXPOSE 15671-15672
EXPOSE 15674-15675
EXPOSE 15692
EXPOSE 25672
EXPOSE 35672-35682
EXPOSE 61613-61614
ENTRYPOINT /usr/sbin/rabbitmq-server
```

2. :

```
docker build -t astra-rabbitmq:latest -f Dockerfile .
```

astra-rabbitmq:latest.

3. :

```
docker image ls
```

:

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
astra-rabbitmq	latest	bd6b882259b0	10 seconds ago	455MB
registry.astralinux.ru/library/alse	1.7.5	83d2946f21f2	4 weeks ago	94.3MB

docker-

docker- :

```
docker run -d -p 5672:5672 -p 15672:15672 -p 25672:25672 --name astra-rabbitmq astra-rabbitmq:latest
```

:

- -d — ;
- -p — . docker- . , ;
- --name astra-rabbitmq — (astra-rabbitmq);
- astra-rabbitmq:latest — .

:

1. , :

```
sudo netstat -putln | grep docker-proxy
```

```
tcp      0      0 0.0.0.0:5672          0.0.0.0:
*        LISTEN      8135/docker-proxy
tcp      0      0 0.0.0.0:25672         0.0.0.0:
*        LISTEN      8107/docker-proxy
tcp      0      0 0.0.0.0:15672         0.0.0.0:
*        LISTEN      8121/docker-proxy
```

:

```
sudo netstat -putln | grep rootlesskit
```

2. , :

```
docker container ls
```

```
CONTAINER
ID      IMAGE          COMMAND                  CREATED
STATUS          PORTS
NAMES
8bf47e60863a  astra-rabbitmq:latest  "/bin/sh -c /usr/sbi..." About a
minute ago Up About a minute 1883/tcp, 4369/tcp, 5551-5552/tcp, 5671
/tcp, 6000-6500/tcp, 8883/tcp, 0.0.0.0:5672->5672/tcp, 15671/tcp, 15674-
15675/tcp, 0.0.0.0:15672->15672/tcp, 15692/tcp, 35672-35682/tcp, 61613-
61614/tcp, 0.0.0.0:25672->25672/tcp  astra-rabbitmq
```

3. web- (astra astra:

```
firefox http://127.0.0.1:15672/
```

, :

```
DISPLAY=:0 firefox http://127.0.0.1:15672/
```

4. :

```
docker exec astra-rabbitmq rabbitmqctl status
```

1. :

```
docker save astra-rabbitmq:latest -o astra-rabbitmq.tar
```

2. , . :

```
chmod +r astra-rabbitmq.tar
```

:

```
chmod +x `pwd`
```

ACL (. [\(ACL\) Astra Linux](#)).

docker-

docker.io. rootless-helper-astra dbus-user-session. iptables-astralabel-common iptables-astralabel-*, . netcat-openbsd. :

iptables-astralabel-* .

1. docker:

2. :

3. :

4. :

```
, docker- : docker-.
```

,

$\frac{1}{2} \quad \frac{1}{2} \quad \frac{1}{2} \quad = \quad \frac{1}{2}$

$$\vdots$$

1. :

2. . :

```
sudo pdp-exec -u <_> -l "0:0:0:0" -- rootlessenv docker run --restart
always -d -p 56000:5672 -p 56001:15672 -p 56002:25672 --name astra-
rabbitmq astra-rabbitmq:latest
sudo pdp-exec -u <_> -l "1:0:0:0" -- rootlessenv docker run --restart
always -d -p 56010:5672 -p 56011:15672 -p 56012:25672 --name astra-
```

```
rabbitmq astra-rabbitmq:latest
sudo pdp-exec -u <_> -l "2:0:0:0" -- rootlessenv docker run --restart
always -d -p 56020:5672 -p 56021:15672 -p 56022:25672 --name astra-
rabbitmq astra-rabbitmq:latest
```

3. iptables (--0,1 2), (- eth0) (127.0.0.1):

```
sudo iptables -t nat -A PREROUTING -i eth0 -p tcp --dport 5672 -m
astralabel --maclev 0 -j REDIRECT --to-port 56000
sudo iptables -t nat -A OUTPUT -s 127.0.0.1 -p tcp --dport 5672 -m
astralabel --maclev 0 -j REDIRECT --to-port 56000
sudo iptables -t nat -A PREROUTING -i eth0 -p tcp --dport 15672 -m
astralabel --maclev 0 -j REDIRECT --to-port 56001
sudo iptables -t nat -A OUTPUT -s 127.0.0.1 -p tcp --dport 15672 -m
astralabel --maclev 0 -j REDIRECT --to-port 56001
sudo iptables -t nat -A PREROUTING -i eth0 -p tcp --dport 25672 -m
astralabel --maclev 0 -j REDIRECT --to-port 56002
sudo iptables -t nat -A OUTPUT -s 127.0.0.1 -p tcp --dport 25672 -m
astralabel --maclev 0 -j REDIRECT --to-port 56002

sudo iptables -t nat -A PREROUTING -i eth0 -p tcp --dport 5672 -m
astralabel --maclev 1 -j REDIRECT --to-port 56010
sudo iptables -t nat -A OUTPUT -s 127.0.0.1 -p tcp --dport 5672 -m
astralabel --maclev 1 -j REDIRECT --to-port 56010
sudo iptables -t nat -A PREROUTING -i eth0 -p tcp --dport 15672 -m
astralabel --maclev 1 -j REDIRECT --to-port 56011
sudo iptables -t nat -A OUTPUT -s 127.0.0.1 -p tcp --dport 15672 -m
astralabel --maclev 1 -j REDIRECT --to-port 56011
sudo iptables -t nat -A PREROUTING -i eth0 -p tcp --dport 25672 -m
astralabel --maclev 1 -j REDIRECT --to-port 56012
sudo iptables -t nat -A OUTPUT -s 127.0.0.1 -p tcp --dport 25672 -m
astralabel --maclev 1 -j REDIRECT --to-port 56012

sudo iptables -t nat -A PREROUTING -i eth0 -p tcp --dport 5672 -m
astralabel --maclev 2 -j REDIRECT --to-port 56020
sudo iptables -t nat -A OUTPUT -s 127.0.0.1 -p tcp --dport 5672 -m
astralabel --maclev 2 -j REDIRECT --to-port 56020
sudo iptables -t nat -A PREROUTING -i eth0 -p tcp --dport 15672 -m
astralabel --maclev 2 -j REDIRECT --to-port 56021
sudo iptables -t nat -A OUTPUT -s 127.0.0.1 -p tcp --dport 15672 -m
astralabel --maclev 2 -j REDIRECT --to-port 56021
sudo iptables -t nat -A PREROUTING -i eth0 -p tcp --dport 25672 -m
astralabel --maclev 2 -j REDIRECT --to-port 56022
sudo iptables -t nat -A OUTPUT -s 127.0.0.1 -p tcp --dport 25672 -m
astralabel --maclev 2 -j REDIRECT --to-port 56022
```

. iptables.

RabbitMQ docker-

:

1. .
2. :
 - a. :

```
nc 127.0.0.1 5672
```

- b. :

```
nc <IP-__Rabbit_MQ> 5672
```

3. :

```
HELO
```

4. Enter.

5. , :

```
AMQP
```