

# RabbitMQ

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- [RabbitMQ](#)
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**RabbitMQ** — AMQP — , . Open Telecom Platform, [Erlang](#), [Mnesia](#).

, HTTP, XMPP, STOMP, AMQP, Java, .NET Framework ( HTTP - «Shovel» ). RabbitMQ , Perl, Python, Ruby, PHP. .



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- Astra Linux Special Edition .10015-01 ( 1.6)
- Astra Linux Special Edition .10015-01 ( 1.5) ( [20190329SE15](#))
- Astra Linux Special Edition .10015-16 . 1



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RabbitMQ ( 3, 0 0, .. 3:0:0).

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1. , , .
2. Mnesia, .

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RabbitMQ.

## RabbitMQ

rabbitmq-server, RabbitMQ, Astra Linux Special Edition .10015-01 ( 1.6), [Debian](#).

rabbitmq-server ( [synaptic](#) )

```
sudo apt update
sudo apt install rabbitmq-server
```

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:

```
sudo rabbitmq-plugins enable rabbitmq_management
```

:

The following plugins have been enabled:

```
mochiweb
webmachine
rabbitmq_web_dispatch
amqp_client
rabbitmq_management_agent
rabbitmq_management
```

RabbitMQ, ,

```
sudo rabbitmqctl add_user user password && \
sudo rabbitmqctl set_user_tags user administrator && \
sudo rabbitmqctl set_permissions -p / user ".*" ".*" ".*"
```

:

```
sudo systemctl stop rabbitmq-server
```



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rabbitmq:

```
sudo mkdir -p /opt/rabbitmq/{etc,log,run} && sudo chown -R rabbitmq:
rabbitmq /opt/rabbitmq/
```

:

```
sudo mv /etc/rabbitmq/* /opt/rabbitmq/etc/
```



RabbitMQ, - (, nano).  
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/opt/rabbitmq/etc/rabbitmq-env.conf, ( NODE\_IP\_ADDRESS ip- ):



```
NODENAME=example-rabbit
NODE_IP_ADDRESS=<IP-address>
NODE_PORT=5672
LOG_BASE=/opt/rabbitmq/log
HOME=/opt/rabbitmq
MNESIA_BASE=/var/lib/rabbitmq/mnesia
```

( ) /etc/systemd/system/multi-user.target.wants/rabbitmq-server.service, :



```
[Unit]
Description=RabbitMQ Messaging Server
After=network.target
[Service]
PDPLabel=3:0:0
Type=simple
User=rabbitmq
SyslogIdentifier=rabbitmq
LimitNOFILE=65536
ExecStart=/usr/sbin/rabbitmq-server
ExecStartPost=/usr/lib/rabbitmq/bin/rabbitmq-server-wait
ExecStop=/usr/sbin/rabbitmqctl stop
[Install]
WantedBy=multi-user.target
```

:

```
sudo systemctl daemon-reload
```

/etc/init.d/rabbitmq-server, :



```
....  
INIT_LOG_DIR=/opt/rabbitmq/log  
PID_FILE=/opt/rabbitmq/run/pid  
....
```

/usr/lib/rabbitmq/bin/rabbitmq-script-wrapper, :



```
if [ `id -u` = `id -u rabbitmq` -a "$SCRIPT" = "rabbitmq-server" ]; then  
/usr/lib/rabbitmq/bin/rabbitmq-server "$@" > "/opt/rabbitmq/log/startup_log" 2> "/opt/rabbitmq/log/startup_err"
```

/usr/lib/rabbitmq/bin/rabbitmq-defaults. ENABLED\_PLUGINS\_FILE, CONF\_ENV\_FILE:



```
...  
ENABLED_PLUGINS_FILE=${SYS_PREFIX}/opt/rabbitmq/etc/enabled_plugins  
...  
CONF_ENV_FILE=${SYS_PREFIX}/opt/rabbitmq/etc/rabbitmq-env.conf  
...
```

:



```
sudo pdpl-file 3:0:0:ccnr /opt/  
sudo pdpl-file -R 3:0:0:ccnr /opt/rabbitmq  
sudo pdpl-file 3:0:0:ccnr /var/lib  
sudo pdpl-file -R 3:0:0:ccnr /var/lib/rabbitmq
```

:



```
sudo systemctl start rabbitmq-server
```

```
#!/bin/bash
```

```
set -eux
```

```
apt update && apt install -y rabbitmq-server
```

```
rabbitmq-plugins enable rabbitmq_management
```

```
( export U=user ; rabbitmqctl add_user $U password && rabbitmqctl set_user_tags $U administrator && rabbitmqctl set_permissions -p / $U ".*" ".*" ".  
*" )
```

```
time systemctl stop rabbitmq-server
```

```
( export R=/opt/rabbitmq ; mkdir -p $R/{etc,log,run} && mv /etc/rabbitmq/* $R/etc/ && chown -R rabbitmq:rabbitmq $R )
```

```

( export F=/opt/rabbitmq/etc/rabbitmq-env.conf
cat << EOF >> $F
NODENAME=example-rabbit
NODE_IP_ADDRESS=$(ip a s eth0 2>/dev/null | grep "inet " | cut -d "/" -f 1 | cut -c 10-)
NODE_PORT=5672
LOG_BASE=/opt/rabbitmq/log
HOME=/opt/rabbitmq
MNESIA_BASE=/var/lib/rabbitmq/mnesia
EOF
)

( export F=/etc/systemd/system/multi-user.target.wants/rabbitmq-server.service
sed -i --follow-symlinks 's~^\[Service\].*$~\[Service\]\nPDPLabel=3:0:0~' $F
systemctl daemon-reload
)

( export F=/etc/init.d/rabbitmq-server
sed -i --follow-symlinks 's~^#!/bin/sh~#!/bin/sh -x~' $F
sed -i --follow-symlinks 's~^\(\[\[:space:\]\]*INIT_LOG_DIR=.*)~#\1\nINIT_LOG_DIR=/opt/rabbitmq/log~' $F
sed -i --follow-symlinks 's~^\(\[\[:space:\]\]*PID_FILE=.*)~#\1\nPID_FILE=/opt/rabbitmq/run/pid~' $F
)

( export F=/usr/lib/rabbitmq/bin/rabbitmq-script-wrapper
sed -i --follow-symlinks 's~^#!/bin/sh~#!/bin/sh -x~' $F
sed -i --follow-symlinks 's~^\(\[\[:space:\]\]*usr/lib/rabbitmq/bin/rabbitmq-server.*)~ /usr/lib/rabbitmq/bin/rabbitmq-server "$@" > "/opt/rabbitmq/log/startup_log" 2> "/opt/rabbitmq/log/startup_err"\n# \1~' $F
)

( export F=/usr/lib/rabbitmq/bin/rabbitmq-defaults
sed -i --follow-symlinks 's~^\(\[\[:space:\]\]*ENABLED_PLUGINS_FILE=.*)~#\1\nENABLED_PLUGINS_FILE=${SYS_PREFIX}/opt/rabbitmq/etc/enabled_plugins~' $F
sed -i --follow-symlinks 's~^\(\[\[:space:\]\]*CONF_ENV_FILE=.*)~#\1\nCONF_ENV_FILE=${SYS_PREFIX}/opt/rabbitmq/etc/rabbitmq-env.conf~' $F
)

pdpl-file 3:0:0:ccnr /opt/ && pdpl-file -R 3:0:0:ccnr /opt/rabbitmq
pdpl-file 3:0:0:ccnr /var/lib && pdpl-file -R 3:0:0:ccnr /var/lib/rabbitmq

systemctl start rabbitmq-server

```