



Installing Pandora FMS Open on Rocky Linux



<https://pandorafms.com/manual/!current/>

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Installing Pandora FMS Open on Rocky Linux

Pandora FMS Open installation in Rocky Linux 8 with root user rights and internet connection.

Online installation for EL 9 (Rocky Linux 9, RHEL 9):

```
curl -SsL  
https://raw.githubusercontent.com/pandorafms/pandorafms/develop/extras/deploy-scripts/pandora_deploy_community_el9_gh.sh | bash
```

On-line installation for EL 8 (Rocky Linux 8, RHEL 8):

```
curl -SsL  
https://raw.githubusercontent.com/pandorafms/pandorafms/develop/extras/deploy-scripts/pandora_deploy_community_el8_gh.sh | bash
```

Repositories

```
dnf install -y \  
epel-release \  
tar \  
dnf-utils \  
grep sed curl ping \  
http://rpms.remirepo.net/enterprise/remi-release-8.rpm
```

```
dnf module reset php  
dnf module install -y php:remi-8.0  
dnf config-manager --set-enabled powertools
```

Percona database installation

```
dnf install -y https://repo.percona.com/yum/percona-release-latest.noarch.rpm  
dnf module disable -y mysql
```

```
rm -rf /etc/my.cnf
```

```
percona-release setup ps80 -y
```

```
dnf install -y percona-server-server percona-xtrabackup-80
```

Installation of Web Console dependencies

```
dnf install -y \  
  php \  
  postfix \  
  php-mcrypt \  
  php-cli \  
  php-gd \  
  php-curl \  
  php-session \  
  php-mysqlnd \  
  php-ldap \  
  php-zip \  
  php-zlib \  
  php-fileinfo \  
  php-gettext \  
  php-snmp \  
  php-mbstring \  
  php-pecl-zip \  
  php-xmlrpc \  
  php-fpm \  
  libxslt \  
  wget \  
  php-xml \  
  httpd \  
  mod_php \  
  atk \  
  avahi-libs \  
  cairo \  
  cups-libs \  
  fribidi \  
  gd \  
  gdk-pixbuf2 \  
  ghostscript \  
  graphite2 \  
  graphviz \  
  gtk2 \  
  harfbuzz \  
  hicolor-icon-theme \  
  hwdata \  
  jasper-libs \  
  lcms2 \  

```

```
libICE \  
libSM \  
libXaw \  
libXcomposite \  
libXcursor \  
libXdamage \  
libXext \  
libXfixes \  
libXft \  
libXi \  
libXinerama \  
libXmu \  
libXrandr \  
libXrender \  
libXt \  
libXxf86vm \  
libcroco \  
libdrm \  
libfontenc \  
libglvnd \  
libglvnd-egl \  
libglvnd-glx \  
libpciaccess \  
librsvg2 \  
libthai \  
libtool-ltdl \  
libwayland-client \  
libwayland-server \  
libxshmfence \  
mesa-libEGL \  
mesa-libGL \  
mesa-libgbm \  
mesa-libglapi \  
pango \  
pixman \  
xorg-x11-fonts-75dpi \  
xorg-x11-fonts-misc \  
poppler-data \  
php-yaml \  
mod_ssl \  
libzstd \  
openldap-clients \  
https://github.com/pandorafms/pandorafms/releases/download/tools/pandora\_gotty-1.1-1.el8.x86\_64.rpm \  
chromium
```

PFMS server dependencies installation

```
dnf install -y \  

```

```
perl \  
vim \  
fping \  
perl-IO-Compress \  
nmap \  
sudo \  
perl-Time-HiRes \  
nfdump \  
net-snmp-utils \  
'perl(NetAddr::IP)' \  
'perl(Sys::Syslog)' \  
'perl(DBI)' \  
'perl(XML::Simple)' \  
'perl(IO::Socket::INET6)' \  
'perl(XML::Twig)' \  
expect \  
openssh-clients \  
java \  
bind-utils \  
whois \  
libnsl
```

Operating system settings

```
setenforce 0  
sed -i -e "s/^SELINUX=.*SELINUX=disabled/g" /etc/selinux/config  
systemctl disable firewalld --now
```

Database creation

```
cat> /etc/my.cnf <<EO_CONFIG_TMP  
[mysqld]  
datadir=/var/lib/mysql  
socket=/var/lib/mysql/mysql.sock  
symbolic-links=0  
log-error=/var/log/mysql.log  
pid-file=/var/run/mysql/mysql.pid  
EO_CONFIG_TMP
```

```
systemctl start mysqld
```

```
grep "temporary password" /var/log/mysql.log | rev | cut -d' ' -f1 | rev  
mysql -uroot -p"contraseña";
```

```
SET PASSWORD FOR 'root'@'localhost' = 'Pandor4!';

UNINSTALL COMPONENT 'file:///component_validate_password';

SET PASSWORD FOR 'root'@'localhost' = 'pandora';

CREATE DATABASE pandora;

CREATE USER 'pandora'@'%' IDENTIFIED BY 'pandora';

ALTER USER 'pandora'@'%' IDENTIFIED WITH mysql_native_password BY 'pandora';
GRANT ALL PRIVILEGES ON pandora.* TO 'pandora'@'%';

exit
```

```
POOL_SIZE=$(grep -i total /proc/meminfo | head -1 | awk '{printf "%.2f \n",
$(NF-1)*0.4/1024}' | sed "s/\\..*$/M/g")
```

```
cat> /etc/my.cnf <<EO_CONFIG_F
[mysqld]
datadir=/var/lib/mysql
socket=/var/lib/mysql/mysql.sock
user=mysql
character-set-server=utf8mb4
skip-character-set-client-handshake
# Disabling symbolic-links is recommended to prevent assorted security risks
symbolic-links=0
# Mysql optimizations for Pandora FMS
# Please check the documentation in http://pandorafms.com for better results

max_allowed_packet = 64M
innodb_buffer_pool_size = $POOL_SIZE
innodb_lock_wait_timeout = 90
innodb_file_per_table
innodb_flush_log_at_trx_commit = 0
innodb_flush_method = 0_DIRECT
innodb_log_file_size = 64M
innodb_log_buffer_size = 16M
innodb_io_capacity = 300
thread_cache_size = 8
thread_stack      = 256K
max_connections = 100

key_buffer_size=4M
read_buffer_size=128K
read_rnd_buffer_size=128K
sort_buffer_size=128K
join_buffer_size=4M
```

```
skip-log-bin

sql_mode=""

[mysqld_safe]
log-error=/var/log/mysql.log
pid-file=/var/run/mysql/mysql.pid

EO_CONFIG_F
```

```
systemctl restart mysql

systemctl enable mysql --now
```

Console and Pandora FMS Server Installation

```
wget https://github.com/pandorafms/pandorafms/releases/download/v772-LTS/pandorafms_server-7.0NG.772.x86_64.rpm
```

```
wget https://github.com/pandorafms/pandorafms/releases/download/v772-LTS/pandorafms_console-7.0NG.772.noarch.rpm
```

```
wget https://github.com/pandorafms/pandorafms/releases/download/v772-LTS/pandorafms_agent_linux-7.0NG.772.noarch.rpm
```

```
dnf install -y ./pandorafms*.rpm
```

```
systemctl enable mysql --now

systemctl enable httpd --now

systemctl enable php-fpm --now
```

```
mysql -upandora -ppandora
```

```
use pandora;
```

```
source /var/www/html/pandora_console/pandoradb.sql;
```



```
source /var/www/html/pandora_console/pandoradb_data.sql;

exit;
```

```
cat> /var/www/html/pandora_console/include/config.php <<EO_CONFIG_F
<?php
\ $config["dbtype"] = "mysql";
\ $config["dbname"]="pandora";
\ $config["dbuser"]="pandora";
\ $config["dbpass"]="pandora";
\ $config["dbhost"]="127.0.0.1";
\ $config["homedir"]="/var/www/html/pandora_console";
\ $config["homeurl"]="/pandora_console";
error_reporting(0);
\ $ownDir = dirname(__FILE__) . '/';
include (\ $ownDir . "config_process.php");
EO_CONFIG_F
```

```
cat> /etc/httpd/conf.d/pandora.conf <<EO_CONFIG_F
ServerTokens Prod
<Directory "/var/www/html">
    Options FollowSymLinks
    AllowOverride All
    Require all granted
</Directory>
EO_CONFIG_F
```

```
sed -i -e "s/php_flag engine off//g"
/var/www/html/pandora_console/images/.htaccess

sed -i -e "s/php_flag engine off//g"
/var/www/html/pandora_console/attachment/.htaccess
```

```
chmod 600 /var/www/html/pandora_console/include/config.php

chown apache. /var/www/html/pandora_console/include/config.php

mv /var/www/html/pandora_console/install.php
/var/www/html/pandora_console/install.done
```

```
sed -i -e "s/^max_input_time.*/max_input_time = -1/g" /etc/php.ini
```

```
sed -i -e "s/^max_execution_time.*/max_execution_time = 0/g" /etc/php.ini
sed -i -e "s/^upload_max_filesize.*/upload_max_filesize = 800M/g" /etc/php.ini
sed -i -e "s/^memory_limit.*/memory_limit = 800M/g" /etc/php.ini
sed -i -e "s/.*post_max_size =.*/post_max_size = 800M/" /etc/php.ini
```

```
echo 'Timeout 900'> /etc/httpd/conf.d/timeout.conf
```

```
cat> /var/www/html/index.html <<EOF_INDEX
<meta HTTP-EQUIV="REFRESH" content="0; url=/pandora_console/">
EOF_INDEX
```

```
systemctl restart httpd
```

```
systemctl restart php-fpm
```

```
cat> /etc/snmp/snmptrapd.conf <<EOF
authCommunity log public
disableAuthorization yes
EOF
```

```
sed -i -e "s/^dbhost.*/dbhost 127.0.0.1/g" /etc/pandora/pandora_server.conf
sed -i -e "s/^dbname.*/dbname pandora/g" /etc/pandora/pandora_server.conf
sed -i -e "s/^dbuser.*/dbuser pandora/g" /etc/pandora/pandora_server.conf
sed -i -e "s|^dbpass.*|dbpass pandora|g" /etc/pandora/pandora_server.conf
sed -i -e "s/^dbport.*/dbport 3306/g" /etc/pandora/pandora_server.conf
sed -i -e "s/^#.mssql_driver.*/mssql_driver ODBC Driver 17 for SQL Server/g"
/etc/pandora/pandora_server.conf
```

```
sed -i -e "s|^fping.*|fping /usr/sbin/fping|g" /etc/pandora/pandora_server.conf
```

```
sed -i "s/^remote_config.*$/remote_config 1/g" /etc/pandora/pandora_server.conf
```

```
cat >> /etc/sysctl.conf <<E0_K0
# Pandora FMS Optimization

# default=5
net.ipv4.tcp_syn_retries = 3

# default=5
net.ipv4.tcp_synack_retries = 3

# default=1024
net.ipv4.tcp_max_syn_backlog = 65536

# default=124928
net.core.wmem_max = 8388608

# default=131071
net.core.rmem_max = 8388608

# default = 128
net.core.somaxconn = 1024

# default = 20480
net.core.optmem_max = 81920

E0_K0
```

```
sysctl --system
```

```
chown pandora:apache /var/log/pandora
```

```
chmod g+s /var/log/pandora
```

```
cat> /etc/logrotate.d/pandora_server <<E0_LR
/var/log/pandora/pandora_server.log
/var/log/pandora/web_socket.log
/var/log/pandora/pandora_server.error {
    su root apache
    weekly
    missingok
    size 300000
    rotate 3
    maxage 90
    compress
    notifempty
    copytruncate
    create 660 pandora apache
```

```
}  
  
/var/log/pandora/pandora_snmptrap.log {  
    su root apache  
    weekly  
    missingok  
    size 500000  
    rotate 1  
    maxage 30  
    notifempty  
    copytruncate  
    create 660 pandora apache  
}  
  
EO_LR  
  
cat> /etc/logrotate.d/pandora_agent <<EO_LRA  
/var/log/pandora/pandora_agent.log {  
    su root apache  
    weekly  
    missingok  
    size 300000  
    rotate 3  
    maxage 90  
    compress  
    notifempty  
    copytruncate  
}  
  
EO_LRA
```

```
chmod 0644 /etc/logrotate.d/pandora_server
```

```
chmod 0644 /etc/logrotate.d/pandora_agent
```

```
systemctl enable pandora_server --now
```

```
systemctl start pandora_server
```

```
systemctl enable tentacle_serverd
```

```
service tentacle_serverd start
```

```
echo \"* * * * * root wget -q -O - --no-check-certificate --load-cookies  
/tmp/cron-session-cookies --save-cookies /tmp/cron-session-cookies --keep  
session-cookies http://127.0.0.1/pandora_console/enterprise/cron.php >>
```

```
/var/www/html/pandora_console/log/cron.log\" >> /etc/crontab
```

```
systemctl enable pandora_agent_daemon
systemctl start pandora_agent_daemon
systemctl enable postfix --now
```

SSH Banner

```
[ "$(curl -s ifconfig.me)" ] && ipplublic=$(curl -s ifconfig.me)

cat > /etc/issue.net << EOF_banner

Welcome to Pandora FMS appliance on RHEL/Rocky Linux 8
-----
Go to Public http://$ipplublic/pandora_console to login web console
$(ip addr | grep -w "inet" | grep -v "127.0.0.1" | grep -v "172.17.0.1" | awk
'{print $2}' | awk -F '/' '{print "Go to Local http://"$1"/pandora_console to
login web console"}')

You can find more information at http://pandorafms.com

EOF_banner

rm -f /etc/issue
ln -s /etc/issue.net /etc/issue

echo 'Banner /etc/issue.net' >> /etc/ssh/sshd_config
```

PFMS Login

To access the Web Console, type in the IP address (or URL) of the device followed by `/pandora_console/`.

The default login credentials are:

- user: admin
- password: pandora

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