



# Pandora FMS Installation Guide on Rocky Linux



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# Pandora FMS Installation Guide on Rocky Linux

We are working on the translation of the Pandora FMS documentation. Sorry for any inconvenience.

## Prerequisites

- Rocky Linux 8 with root user rights
- Internet connection.

## Repository Settings

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

---

```
dnf module reset php

dnf module install -y php:remi-8.2

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
```

## Installing 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 \
php-xml \
php-yaml \
libxslt \
wget \
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 \
mod_ssl \
libzstd \
openldap-clients \
https://firefly.pandorafms.com/centos8/chromium-122.0.6261.128-1.el8.x86_64.rpm \
\
    https://firefly.pandorafms.com/centos8/chromium-common-122.0.6261.128-1.el8.x86_64.rpm \
    http://firefly.pandorafms.com/centos8/perl-Net-Telnet-3.04-1.el8.noarch.rpm \
\
    http://firefly.pandorafms.com/centos7/wmic-1.4-1.el7.x86_64.rpm
```

## Installation of PFMS server dependencies

```
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(Geo::IP)' \
'perl(IO::Socket::INET6)' \
'perl(XML::Twig)' \
expect \
openssh-clients \
java \
bind-utils \
whois \
libns1 \
http://firefly.pandorafms.com/centos7/xprobe2-0.3-12.2.x86_64.rpm \
http://firefly.pandorafms.com/centos7/wmic-1.4-1.el7.x86_64.rpm \
https://firefly.pandorafms.com/centos8/pandorawmic-1.0.0-1.x86_64.rpm
```

## Perl and VMware Dependencies

```
dnf install -y \
perl-Net-HTTP \
perl-libwww-perl \
openssl-devel \
perl-Crypt-CBC \
perl-Bytes-Random-Secure \
perl-Crypt-Random-Seed \
perl-Math-Random-ISAAC \
perl-JSON \
perl-Crypt-SSLeay \
http://firefly.pandorafms.com/centos8/perl-Crypt-OpenSSL-AES-0.02-1.el8.x86_64.rpm \
http://firefly.pandorafms.com/centos8/VMware-vSphere-Perl-SDK-6.5.0-4566394.x86_64.rpm
```

## Oracle Client Installation

```
dnf install -y \
https://download.oracle.com/otn_software/linux/instantclient/19800/oracle-instantclient19.8-basic-19.8.0.0.0-1.x86_64.rpm \
https://download.oracle.com/otn_software/linux/instantclient/19800/oracle-instantclient19.8-sqlplus-19.8.0.0.0-1.x86_64.rpm
```

## Installing dependencies for Discovery PFMS

```
curl https://packages.microsoft.com/config/rhel/8/prod.repo -o /etc/yum.repos.d/mssql-release.repo  
dnf remove unixODBC-utf16 unixODBC-utf16-devel  
env ACCEPT_EULA=Y dnf install -y msodbcsql17
```

## Operating system settings and database creation

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

```
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/mysqld.log  
pid-file=/var/run/mysqld/mysqld.pid  
EO_CONFIG_TMP
```

```
systemctl start mysqld  
  
grep "temporary password" /var/log/mysqld.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
```

```
P00L_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 <<E0_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 = $P00L_SIZE
innodb_lock_wait_timeout = 90
innodb_file_per_table
innodb_flush_log_at_trx_commit = 0
innodb_flush_method = O_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/mysqld.log
pid-file=/var/run/mysqld/mysqld.pid

E0_CONFIG_F
```

```
systemctl restart mysqld  
systemctl enable mysqld --now
```

## Installation of the Console and Pandora FMS server

Download links for the PFMS server and Web Console installers can be requested [through this link](#) and get a free trial (demo).

To install the PFMS Software Agent:

```
wget  
https://firefly.pandorafms.com/pandorafms/latest/pandorafms_one_agent_linux_bin-  
latest.el8.x86_64.rpm
```

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

```
wget https://firefly.pandorafms.com/pandorafms/utils/gotty_linux_amd64.tar.gz  
tar xvzf gotty_linux_amd64.tar.gz  
mv gotty /usr/bin/
```

```
systemctl enable mysqld --now  
systemctl enable httpd --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/pandora/pandora_server.env <<'EOF_ENV'  
#!/bin/bash  
VERSION=19.8  
export PATH=$PATH:$HOME/bin:/usr/lib/oracle/$VERSION/client64/bin  
export LD_LIBRARY_PATH=$LD_LIBRARY_PATH:/usr/lib/oracle/$VERSION/client64/lib  
export ORACLE_HOME=/usr/lib/oracle/$VERSION/client64  
EOF_ENV
```

```
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
}
```

E0\_LR

```
cat> /etc/logrotate.d/pandora_agent <<E0_LRA
/var/log/pandora/pandora_agent.log {
    su root apache
    weekly
    missingok
    size 300000
    rotate 3
    maxage 90
    compress
    notifempty
    copytruncate
}
```

E0\_LRA

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

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

```
/etc/init.d/pandora_server start  
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
```

## Login to PFMS

To access the Web Console, type 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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