



# Instalación de Pandora FMS Open en Rocky Linux



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

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[https://pandorafms.com/manual/?current/es/documentation/pandorafms/technical\\_annexes/40\\_pfms\\_open\\_install\\_rocky\\_linux](https://pandorafms.com/manual/?current/es/documentation/pandorafms/technical_annexes/40_pfms_open_install_rocky_linux)

03/04 21:28





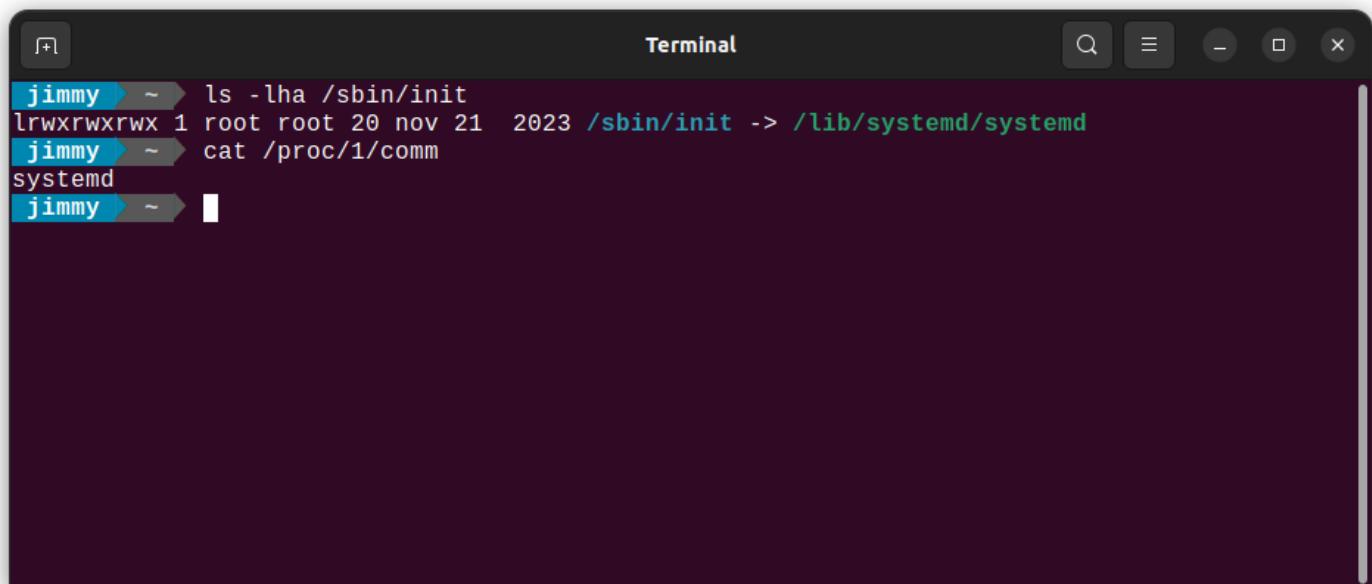
# Instalación de Pandora FMS Open en Rocky Linux

Instalación de Pandora FMS Open en Rocky Linux 8 con derechos de usuario root, systemd y conexión a internet.

Se puede verificar si Systemd está instalado e iniciado ejecutando:

```
ls -lha /sbin/init  
cat /proc/1/comm
```

Con resultado similar:



```
jimmy ~ ➤ ls -lha /sbin/init  
lrwxrwxrwx 1 root root 20 nov 21 2023 /sbin/init -> /lib/systemd/systemd  
jimmy ~ ➤ cat /proc/1/comm  
systemd  
jimmy ~ ➤ █
```

Instalación en línea para 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
```

Instalación en línea para 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
```

## Repositorios

```
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
```

## Instalación de base de datos Percona

```
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
```

## Instalación de dependencias de Consola web

```
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
```

## Instalación de dependencias de PFMS server

```
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
```

## Ajustes del sistema operativo

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

```
systemctl disable firewalld --now
```

## Creación de base de datos

```
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 mysql

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
```

```
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 = 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

EO_CONFIG_F
```

---

```
systemctl restart mysqld

systemctl enable mysqld --now
```

---

## Instalación de la Consola y Pandora FMS server

```
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 mysqld --now  
systemctl enable httpd --now  
systemctl enable php-fpm --now
```

```
mysql -u pandora -p pandora
```

```
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>
```

## E0\_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 -s 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  
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

```
[ "$(curl -s ifconfig.me)" ] && ippublic=$(curl -s ifconfig.me)  
  
cat > /etc/issue.net << EOF_banner  
  
Welcome to Pandora FMS appliance on RHEL/Rocky Linux 8  
-----  
Go to Public http://$ippublic/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
```

## Inicio de sesión en PFMS

Para acceder a la Consola web se ha de escribir la dirección IP (o URL) del dispositivo seguido de `/pandora_console/`.

Las credenciales por defecto para entrar son:

- usuario: `admin`
- contraseña: `pandora`

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