



# Instalación de Pandora FMS Open en Rocky Linux



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# Instalación de Pandora FMS Open en Rocky Linux

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

Instalación en línea para EL 9 (Rocky Linux 9, RHEL 9):

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

Instalación en línea para EL 7 (CentOS 7, EOL junio 2024):

```
curl -SsL  
https://raw.githubusercontent.com/pandorafms/pandorafms/develop/extras/d  
eploy-scripts/pandora_deploy_community_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/mysql.log
pid-file=/var/run/mysql/mysql.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/mysql.log
pid-file=/var/run/mysql/mysql.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 -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 <<EO_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

EO_K0
```

---

```
sysctl --system
```

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

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

---

```
cat> /etc/logrotate.d/pandora_server <<EO_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
```

```
/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
```

```
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
```

## 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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