



Installation de Pandora FMS Open sur Ubuntu



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Installation de Pandora FMS Open sur Ubuntu

Installation sur un serveur Ubuntu 22.04.1 ou 22.04.2 avec les droits d'utilisateur root, systemd activé et une connexion internet.

Installation en ligne pour Ubuntu (22.04 LTS) :

```
curl -SsL  
https://raw.githubusercontent.com/pandorafms/pandorafms/develop/extras/deploy-scripts/pandora_deploy_community_ubuntu_2204_gh.sh | bash
```

Accueil

Dans une fenêtre de terminal avec l'utilisateur root :

```
apt install -y gawk sed grep ping  
rm -rf /opt/pandora/deploy  
mkdir -p /opt/pandora/deploy  
cd /opt/pandora/deploy  
apt update  
apt install -y net-tools vim curl wget \  
software-properties-common apt-transport-https \  
ca-certificates gnupg lsb-release
```

Installation d'Apache2 et de PHP 8

```
add-apt-repository ppa:ondrej/php  
apt update  
apt upgrade  
apt install -y php8.0-fpm php8.0-common libapache2-mod-fcgid php8.0-cli apache2  
a2enmod proxy_fcgi setenvif  
systemctl reload apache2  
a2enconf php8.0-fpm  
systemctl restart php8.0-fpm
```

Dépendances de la console Web du PFMS

```
apt install -y \  
ldap-utils postfix \  
wget graphviz \  
xfonts-75dpi xfonts-100dpi \  
xfonts-ayu xfonts-intl-arabic \  
xfonts-intl-asian xfonts-intl-phonetic \  

```

```
xfonts-intl-japanese-big xfonts-intl-european \  
xfonts-intl-chinese xfonts-intl-japanese \  
xfonts-intl-chinese-big libzstd1 \  
gir1.2-atk-1.0 libavahi-common-data \  
cairo-perf-utils libfribidi-bin \  
php8.0-mcrypt php8.0-gd \  
php8.0-curl php8.0-mysql \  
php8.0-ldap php8.0-fileinfo \  
php8.0-gettext php8.0-snmp \  
php8.0-mbstring php8.0-zip \  
php8.0-xmlrpc php8.0-xml \  
php8.0-yaml libnet-telnet-perl \  
whois cron
```

Dépendances du serveur PFMS

```
apt install -y \  
perl nmap \  
fping sudo \  
net-tools nfdump \  
expect openssh-client \  
unzip xprobe coreutils \  
libio-compress-perl libmoosex-role-timer-perl \  
libdbd-mysql-perl libcrypt-mysql-perl \  
libhttp-request-ascgi-perl liblwp-useragent-chicaching-perl \  
liblwp-protocol-https-perl snmp \  
libnetaddr-ip-perl libio-socket-ssl-perl \  
libio-socket-socks-perl libio-socket-ip-perl \  
libio-socket-inet6-perl libnet-telnet-perl \  
libjson-perl libencode-perl \  
cron libgeo-ip-perl \  
arping snmp-mibs-downloader \  
snmptrapd libnsl2 make \  
openjdk-8-jdk  
  
mkdir -m 0755 -p /etc/apt/keyrings  
  
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | \  
sudo gpg --yes --dearmor -o /etc/apt/keyrings/docker.gpg  
  
echo \  
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg] \  
https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable" | \  
sudo tee /etc/apt/sources.list.d/docker.list  
  
apt update -y  
apt-get install -y \  
docker-ce docker-ce-cli containerd.io \  
docker-buildx-plugin docker-compose-plugin
```

```
systemctl disable docker --now
systemctl disable docker.socket --now

rm -f /usr/sbin/fping
ln -s /usr/bin/fping /usr/sbin/fping
```

Outil Google Chrome

```
wget https://dl.google.com/linux/direct/google-chrome-stable_current_amd64.deb
dpkg -i google-chrome-stable_current_amd64.deb
ln -s /usr/bin/google-chrome /usr/bin/chromium-browser
```

Unités IPAM

```
apt install -y \
  libnetaddr-ip-perl \
  coreutils libdbd-mysql-perl \
  libxml-simple-perl libgeo-ip-perl \
  libio-socket-inet6-perl libxml-twig-perl \
  libnetaddr-ip-perl
```

Configuration d'AppArmor et de l'UFW

```
systemctl stop ufw.service
systemctl disable ufw
systemctl stop apparmor
systemctl disable apparmor
```

Installation de MySQL

```
curl -O https://repo.percona.com/apt/percona-release_latest.generic_all.deb
apt install -y gnupg2 lsb-release ./percona-release_latest.generic_all.deb
percona-release setup ps80
apt install -y percona-server-server percona-xtrabackup-80
```

```
systemctl start mysql

mysql -uroot -p

ALTER USER 'root'@'localhost' IDENTIFIED WITH mysql_native_password BY
'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;
```

```
cat > /etc/mysql/my.cnf << EOF_DB
[mysqld]
datadir=/var/lib/mysql
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 = grep -i total /proc/meminfo | head -1 | awk '{printf
"%.2f \n", $(NF-1)*0.4/1024}' | sed "s/\\.\\.\\.*/M/g"
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=""
log-error=/var/log/mysql/error.log
[mysqld_safe]
log-error=/var/log/mysqld.log
pid-file=/var/run/mysqld/mysqld.pid
EOF_DB
```

```
systemctl restart mysql
```

Installation de Pandora FMS Open

```
curl -LSs --output \  
  pandorafms_console-7.0NG.tar.gz \  
"https://github.com/pandorafms/pandorafms/releases/download/v772-LTS/pandorafms_\  
console-7.0NG.772.tar.gz"  
  
curl -LSs --output \  
  pandorafms_server-7.0NG.tar.gz \  
"https://github.com/pandorafms/pandorafms/releases/download/v772-LTS/pandorafms_\  
server-7.0NG.772_x86_64.tar.gz"  
  
curl -LSs --output \  
  pandorafms_agent_linux-7.0NG.tar.gz \  
"https://github.com/pandorafms/pandorafms/releases/download/v772-LTS/pandorafms_\  
agent_linux-7.0NG.772.tar.gz"
```

Console web de PFMS

```
tar xvzf pandorafms_console-7.0NG.tar.gz  
cp -Ra pandora_console /var/www/html/  
rm -f /var/www/html/pandora_console/*.spec
```

Serveur PFMS

```
useradd pandora  
  
mv pandorafms_server-7.0NG.tar.gz /opt/pandora/deploy/  
cd /opt/pandora/deploy  
tar xvfz pandorafms_server-7.0NG.tar.gz  
cd pandora_server  
./pandora_server_installer --install
```

Agent PFMS

```
apt install -y libyaml-tiny-perl perl coreutils wget curl unzip procps python3  
python3-pip  
  
mv pandorafms_agent_linux-7.0NG.tar.gz /opt/pandora/deploy/  
cd /opt/pandora/deploy  
tar xvzf pandorafms_agent_linux-7.0NG.tar.gz
```

```
cd unix

./pandora_agent_installer --install

cp -a tentacle_client /usr/local/bin/
```

Installation de GoTTY

```
curl --output pandora_gotty.deb
https://github.com/pandorafms/pandorafms/releases/download/tools/pandora_gotty_1
.1.0.deb
apt install -y ./pandora_gotty.deb
```

Configuration SSL

```
cat > /etc/apache2/conf-available/ssl-params.conf << EOF_PARAM
SSLCipherSuite EECDH+AESGCM:EDH+AESGCM:AES256+EECDH:AES256+EDH

    SSLProtocol All -SSLv2 -SSLv3 -TLSv1 -TLSv1.1

    SSLHonorCipherOrder On

    Header always set X-Frame-Options DENY

    Header always set X-Content-Type-Options nosniff

# Requires Apache>= 2.4

    SSLCompression off

    SSLUseStapling on

    SSLStaplingCache "shmcb:logs/stapling-cache(150000)"

# Requires Apache>= 2.4.11

    SSLSessionTickets Off
EOF_PARAM
```

```
a2enmod ssl
a2enmod headers
a2enmod rewrite
a2enconf ssl-params
a2ensite default-ssl
a2enconf ssl-params
apache2ctl configtest
```



```
systemctl restart apache2
systemctl enable mysql --now
systemctl enable apache2 --now
systemctl enable php8.0-fpm --now
```

Tables et données pour MySQL

```
mysql -uroot -ppandora

use pandora;

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

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

exit;
```

Configuration de PHP et Apache2

```
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/apache2/conf-enabled/pandora_security.conf << EO_CONFIG_F
ServerTokens Prod
<Directory "/var/www/html">
    Options FollowSymLinks
    AllowOverride All
    Require all granted
</Directory>
EO_CONFIG_F
```

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

```
chown -R www-data:www-data /var/www/html/pandora_console
```

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

```
ln -s /etc/php/8.0/fpm/php.ini /etc/
```

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

```
sed --follow-symlinks -i -e "s/^max_execution_time.*/max_execution_time = 0/g"  
/etc/php.ini
```

```
sed --follow-symlinks -i -e "s/^upload_max_filesize.*/upload_max_filesize =  
800M/g" /etc/php.ini
```

```
sed --follow-symlinks -i -e "s/^memory_limit.*/memory_limit = 800M/g"  
/etc/php.ini
```

```
sed --follow-symlinks -i -e "s/. *post_max_size =.*/post_max_size = 800M/"  
/etc/php.ini
```

```
sed --follow-symlinks -i -e "s/^disable_functions/;disable_functions/"  
/etc/php.ini
```

```
echo 'Timeout 900' > /etc/apache2/conf-enabled/timeout.conf  
echo 'ProxyTimeout 300'>> /etc/apache2/conf-enabled/timeout.conf
```

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

```
systemctl restart apache2
```

```
systemctl restart php8.0-fpm
```

Configuration du serveur et de l'agent PFMS

```
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 17/g"
/etc/pandora/pandora_server.conf
```

```
grep -q "group www-data" /etc/pandora/pandora_server.conf || \
cat>> /etc/pandora/pandora_server.conf<<EOF_G
#Adding group www-data to assing remote-config permission correctly for ubuntu
22.04
group www-data
EOF_G
```

```
sed -i "s/^remote_config.*$/remote_config 1/g" /etc/pandora/pandora_agent.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:www-data /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
```

Tentacle et cron

```
/etc/init.d/pandora_server start  
systemctl enable pandora_server  
service tentacle_serverd start  
systemctl enable tentacle_serverd
```

```
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>>  
$PANDORA_CONSOLE/log/cron.log" >> /etc/crontab  
echo "@hourly          root    bash -c /etc/cron.hourly/pandora_db" >>  
/etc/crontab
```

Configuration à distance de l'agent :

```
sed -i "s/^remote_config.*$/remote_config 1/g" /etc/pandora/pandora_agent.conf  
/etc/init.d/pandora_agent_daemon start  
systemctl enable pandora_agent_daemon
```

PhantomJS

```
sed --follow-symlinks -i -e "s/^openssl_conf = openssl_init/#openssl_conf =  
openssl_init/g" /etc/ssl/openssl.cnf
```

Postfix

```
systemctl enable postfix --now
```

OpenSSL

```
sed -i '/default = default_sect/a legacy = legacy_sect' /etc/ssl/openssl.cnf  
sed -i 's/# activate = 1/activate = 1/' /etc/ssl/openssl.cnf  
sed -i '/activate = 1/a [legacy_sect]\nactivate = 1' /etc/ssl/openssl.cnf
```

SSH banner

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

cat > /etc/issue.net << EOF_banner

Welcome to Pandora FMS appliance on Ubuntu
-----
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
```

Connexion au PFMS

Pour accéder à la console Web, tapez l'adresse IP (ou URL) de l'appareil suivie de /pandora_console/ .

Les identifiants de connexion par défaut sont :

- utilisateur: admin
- mot de passe : pandora

[Retour à l'index de la documentation du Pandora FMS](#)