

# Installing and updating PHP 7

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## Prerequisites

PHP7 installation must be done with rpm/deb/OUM ... from console version 729 or later. Otherwise, Pandora FMS will suffer a dependency conflict since it requires PHP5 for previous versions.



In case of updating from 728 to 729, if the PHP7 repository is configured in your system, it will try to install that repository automatically when updating the console.



Php version 7.2 or later is supported, it requires installing every dependency needed.

## Installing & updating PHP 7

### PHP 7 Installation

#### CentOS

First, check that there is no previous php version installed in the machine, using the command:

```
php -v
```

```
[root@localhost ~]# php -v  
-bash: php: no se encontró la orden
```

Once verified that php has been uninstalled correctly, download the epel and remi last version repositories to install them:

```
# yum install  
https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm  
# yum install http://rpms.remirepo.net/enterprise/remi-release-7.rpm
```

For CentOS 6 versions, download them from [here](#):

```
# yum install
https://dl.fedoraproject.org/pub/epel/epel-release-latest-6.noarch.rpm
# yum install http://rpms.famillecollet.com/enterprise/remi-release-6.rpm
```

```
[root@localhost ~]# yum install https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm
[root@localhost ~]# yum install http://rpms.remirepo.net/enterprise/remi-release-7.rpm
```

Next, install **yum-utils** in case of not having installed it previously to be able to use the command **yum-config-manager**:

```
yum install yum-utils
yum-config-manager --enable remi-php72
```

```
[root@localhost ~]# yum-config-manager --enable remi-php72
Complementos cargados:fastestmirror
```

Finally, install version php7.2 on your system:

```
yum install php php-mcrypt php-cli php-gd php-curl php-mysql php-ldap php-
zip php-fileinfo php-snmp php-mbstring php-pecl-zip php-xmlrpc libxslt php-
xml
```

```
[root@localhost ~]# yum install php php-mcrypt php-cli php-gd php-curl php-mysql php-ldap php-zip php-fileinfo
```

And check the installed version

```
[root@localhost ~]# php -v
PHP 7.2.12 (cli) (built: Nov 6 2018 16:40:25) ( NTS )
Copyright (c) 1997-2018 The PHP Group
Zend Engine v3.2.0, Copyright (c) 1998-2018 Zend Technologies
```

## Windows

In the first place, go to the <https://windows.php.net/download/> website to download the PHP 7.2 version you need. In this case, download version **VC15 x64 Thread Safe**.

### VC15 x64 Thread Safe (2018-Oct-10 19:16:03)

- [Zip](#) [24.45MB]

sha256: 9f8a51e5f6ab1810250bc267179b772083c51ff41d4e141031dfbe7561c80a6e

- [Debug Pack](#) [22.9MB]

sha256: 9d884f83f3c924743067694df956e6f773d12cdb7a362da9db0c5681be369f9c

Once the zip is downloaded, unzip it in the folder **C:\php**.

When the folder is created, copy the *php.ini-production* file and rename it as *php.ini*.

To finish off, change the *httpd-php.conf* file, and change the *LoadFile* and *LoadModule* to this:

```
Loadfile "C:\PandoraFMS\php\php7ts.dll"  
LoadModule php7_module "C:\PandoraFMS\php\php7\apache2_4.dll"  
PHPIniDir "C:\PandoraFMS\php"  
#Hook the php file extensions  
AddHandler application/x-httpd-php .php  
AddHandler application/x-httpd-php-source .phps
```

## PHP 7 Update

### CentOS

Download the epel and remi last version repositories to install:

```
# yum install  
https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm  
# yum install http://rpms.remirepo.net/enterprise/remi-release-7.rpm
```

For CentOS 6 versions, download them from here:

```
# yum install  
https://dl.fedoraproject.org/pub/epel/epel-release-latest-6.noarch.rpm  
# yum install http://rpms.famillecollet.com/enterprise/remi-release-6.rpm
```

```
[root@localhost ~]# yum install https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm  
[root@localhost ~]# yum install http://rpms.remirepo.net/enterprise/remi-release-7.rpm
```

Next, install **yum-utils** in case it has not been installed previously in your machine to be able to use the **yum-config-manager** command:

```
yum install yum-utils  
yum-config-manager --enable remi-php72
```

```
[root@localhost ~]# yum-config-manager --enable remi-php72  
Complementos cargados:fastestmirror
```

Finally, install the php7.2 version on your system:

```
yum install php php-mcrypt php-cli php-gd php-curl php-mysql php-ldap php-  
zip php-fileinfo php-snmp php-mbstring php-pecl-zip php-xmlrpc libxslt php-  
xml
```

```
[root@localhost ~]# yum install php php-mcrypt php-cli php-gd php-curl php-mysql php-ldap php-zip php-fileinfo
```

And check the installed version

```
[root@localhost ~]# php -v
PHP 7.2.12 (cli) (built: Nov 6 2018 16:40:25) ( NTS )
Copyright (c) 1997-2018 The PHP Group
Zend Engine v3.2.0, Copyright (c) 1998-2018 Zend Technologies
```

If some version of Pandora FMS is installed in the machine, reinstall the Pandora FMS console for its correct operation, due to the changes of the PHP version, as seen in the following [link](#).

If you see any incompatibility notice with the Pandora FMS Console package installed, copy the rpm of version 729 into this directory or execute the following command:

```
rpm -U --force *.rpm --nodeps
```

### php.ini

There is also the possibility that during the upgrade process to php7, the php.ini file is affected. Here is an example of some of the data that php.ini must include:

```
engine = On
precision = 14
output_buffering = 4096
serialize_precision = 1
zend.enable_gc = On
expose_php = On
max_execution_time = 0
max_input_time = -1
memory_limit = 800M
error_reporting = E_ALL & ~E_DEPRECATED & ~E_NOTICE & ~E_USER_WARNING
log_errors = On
log_errors_max_len = 1024
report_memleaks = On
html_errors = On
variables_order = "GPCS"
request_order = "GP"
auto_globals_jit = On
post_max_size = 800M
default_mimetype = "text/html"
default_charset = "UTF-8"
file_uploads = On
upload_max_filesize = 800M
max_file_uploads = 20
```

```
allow_url_fopen = On
allow_url_include = Off
default_socket_timeout = 60
cli_server.color = On
pcre.jit=0
pdo_mysql.cache_size = 2000
sendmail_path = /usr/sbin/sendmail -t -i
mail.add_x_header = On
```

## Windows

First, go to the website: <https://windows.php.net/download/> to download the PHP 7.2 version needed. In this case, download version **VC15 x64 Thread Safe**.

### VC15 x64 Thread Safe (2018-Oct-10 19:16:03)

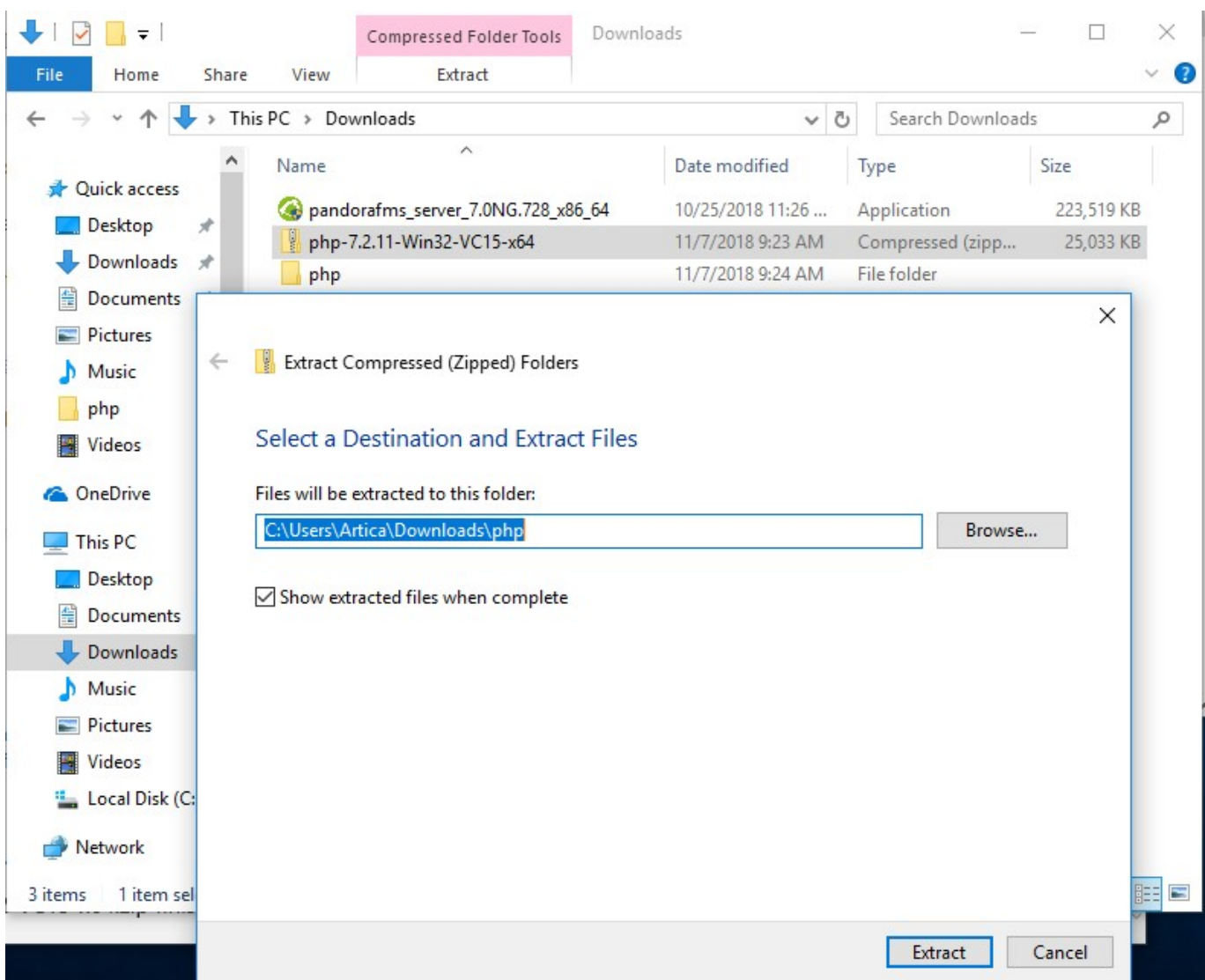
- [Zip](#) [24.45MB]

sha256: 9f8a51e5f6ab1810250bc267179b772083c51ff41d4e141031dfbe7561c80a6e

- [Debug Pack](#) [22.9MB]

sha256: 9d884f83f3c924743067694df956e6f773d12cdb7a362da9db0c5681be369f9c

Once the zip is downloaded, unzip it in the folder **C:\php**.



Next, go to the folder located in **C:\PandoraFMS\php**, and rename it to **php\_versionActual** and copy the new php folder you have created.

Name	Date modified	Type	Size
Apache	11/7/2018 11:52 AM	File folder	
Graphviz	11/7/2018 11:54 AM	File folder	
mysql	11/7/2018 11:54 AM	File folder	
Pandora_Server	11/7/2018 11:59 AM	File folder	
php	11/7/2018 11:12 AM	File folder	
php5.5	11/7/2018 11:51 AM	File folder	
CONSOLE PandoraFMS	11/7/2018 11:58 AM	Internet Shortcut	
PandoraFMS	11/7/2018 11:58 AM	Internet Shortcut	
PandoraFMS_uninstaller	11/7/2018 11:59 AM	Application	
README	1/30/2015 12:45 PM	File	
WIKI PandoraFMS	11/7/2018 11:58 AM	Internet Shortcut	

When the folder is created, copy the *php.ini-production* file and rename it as *php.ini*.

After finishing this step, copy the *libsals.dll* file and replace it with the same file in the Apache folder *C:\PandoraFMS\Apache\bin*.

The installation of **Microsoft Visual C++ 2015**:

<https://www.microsoft.com/en-us/download/details.aspx?id=48145> will also be required for Pandora FMS to work properly.

To finish off, change the *httpd-php.conf* file, and change the *LoadFile* and *LoadModule* to:

```
Loadfile "C:\PandoraFMS\php\php7ts.dll"  
LoadModule php7_module "C:\PandoraFMS\php\php7\apache2_4.dll"  
PHPIniDir "C:\PandoraFMS\php"  
#Hook the php file extensions  
AddHandler application/x-httpd-php .php  
AddHandler application/x-httpd-php-source .phps
```

## Ubuntu

In order to upgrade to php7, it is necessary to add it to the repository using the following command:

```
sudo add-apt-repository ppa:ondrej/php
```

Once this step is done, update to install it:

```
sudo apt-get update
```

To make sure that all apache packages have been installed correctly, and to check that apache will be able to run with the new version, run the following command too:

```
sudo apt-get install php7.2
```

And do the same for the dependencies left:

```
sudo apt-get install php7.2-mysql php7.2-cli php7.2-common php7.2-curl  
php7.2-gd php7.2-json php7.2-ldap php7.2-mbstring php7.2-opcache php7.2-  
readline php7.2-snmp php7.2-xml php7.2-xmlrpc php7.2-zip
```

In case both php versions are kept, the old php version must be disabled so that the new php7 version can be enabled. Later restart apache service.

```
a2dismod php5.6
```

```
a2enmod php7.0
```

```
service apache2 restart
```

## Suse



With older Suse or Opensuse versions, php7 packages may not be available.

To install php7 and its extensions, use the following command:

```
sudo zypper install php7 php7-mysql apache2-mod_php7
```

Once installed, activate the php7 module and restart the Apache server:

```
sudo a2enmod php7
sudo systemctl restart apache2
```

## Offline actualization in CentOS

In case the environment installed with Pandora FMS ISO does not have internet access or the security policy does not allow to install a third party repository, we have provided all the rpms needed for php update in our official support website (only for Enterprise clients) together with 729 version packages.

The procedure for this update is as follows:

- 1.- Download the tar.gz with the RPMs of our support web ( there are rpms compatible with Centos 6 x86, Centos 6 x64 and Centos 7 x64 )
- 2.- Decompress the content of tar.gz in any directory.

```
tar xvzf rpm-php7-centos7.tar.gz
```

3.- Access the uncompressed directory with the cd command and execute the following command to update the packages:

```
cd rpm-centos7-php7
rpm -U --force *.rpm
```

In case you see any incompatibility notice with the Pandora FMS Console package installed, copy the rpm of version 729 into this directory or execute the following command.

```
rpm -U --force *.rpm --nodeps
```

[Go back to Pandora FMS documentation index](#)



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[https://pandorafms.com/manual/en/documentation/07\\_technical\\_annexes/14\\_php\\_7](https://pandorafms.com/manual/en/documentation/07_technical_annexes/14_php_7)

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