



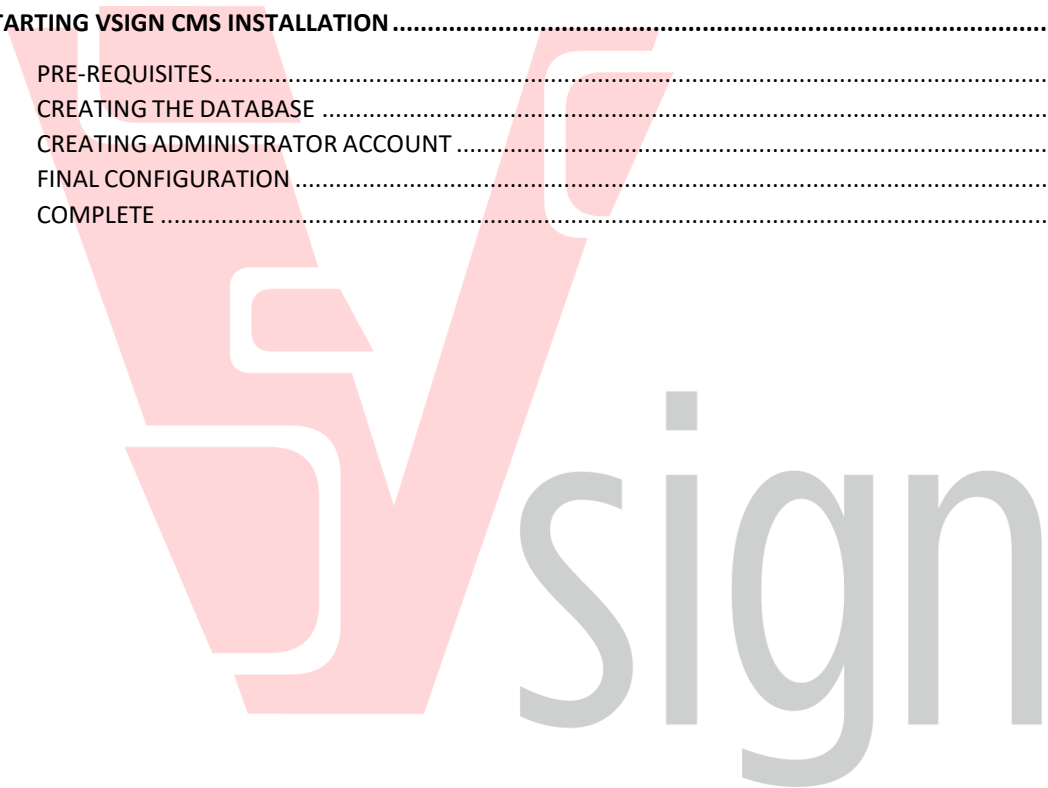
Vestel VSign Digital Signage Platform

CMS INSTALLATION GUIDE

sign

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# 1 INTRODUCTION

The VSign Content Management System (CMS) is a PHP web application which sits on a MySQL database. This feature enables this web platform to run on Linux or Windows servers that supports PHP/MySQL.

The requirements of VSign CMS installation are listed below.

- MySQL 5.6
- A web server (nginx, apache, iis)
- PHP 5.6+ (lower than PHP7)
- PHP-CLI 5.6+ (lower than PHP7)
- Virtual Hosts or dedicated web server (modify DocumentRoot)

The following are the steps to install VSign CMS.

- Install web server (with PHP/MySQL)
- Extract VSign CMS Archive
- Start VSign CMS Installation

## 2 INSTALL WEB SERVER

The most common and recommended installation is "LAMP" (Linux, Apache, MySQL and PHP). It is also possible to install on Windows by using XAMPP or by using IIS.

In following subsections, installing environment on Linux and on Windows (using XAMPP) are explained. Once the environment is installed, there is no need to set up environment again for further CMS installations or upgrades.

If you already have web server running with PHP/MySQL, you can skip this section and go to the next section (Install VSign CMS).

### 2.1 INSTALL ON WINDOWS

In this section, web server installation by using XAMPP will be explained. You can download XAMPP from [Apache Friends](#). You need to download the full XAMPP Installer package for Windows systems.

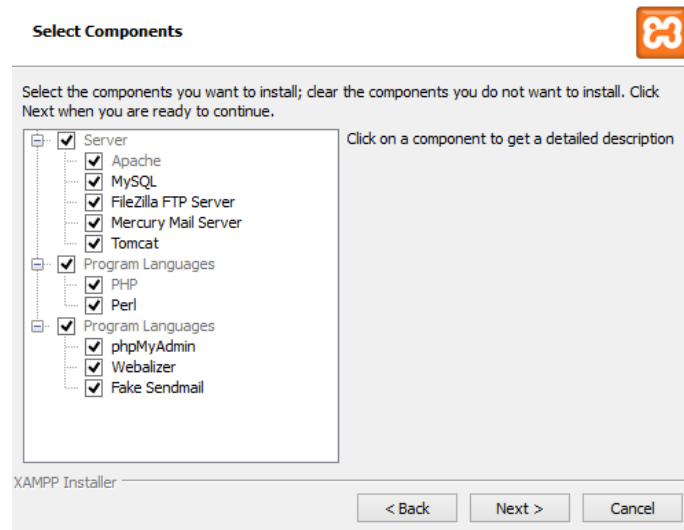
After downloading XAMPP, follow the steps mentioned below:

- Install XAMPP
- Run XAMPP
- Configure XAMPP

#### 2.1.1 INSTALL XAMPP

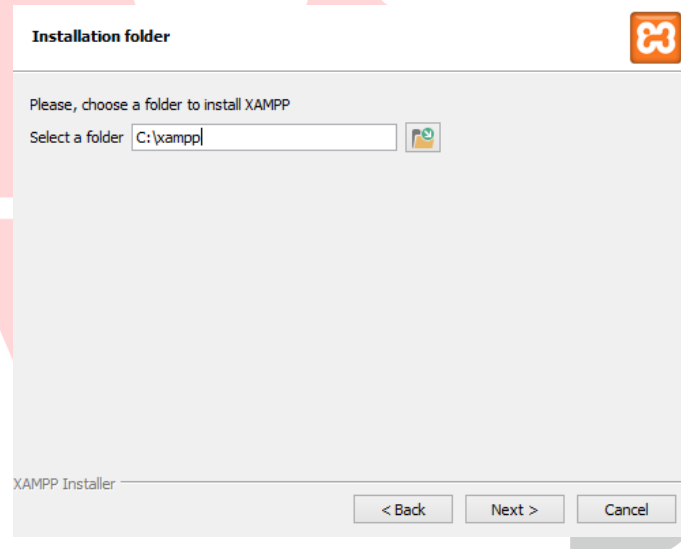
Once XAMPP installer has downloaded, double click on it to run it.

You should get to the start of the install wizard. Then press "Next" and below Screen appears for selecting components to install.



*Figure 1 :Install XAMPP – Select Components Form*

Press “Next” and below screen appears for installation folder selection. By default, XAMPP installs to "c:\xampp". Unless you need to move it somewhere else, then that's a good choice. If you do select a different directory, remember it for the next step when we install VSign.



*Figure 2: Install XAMPP – Select Installation Folder*

The installer will now run, and extract a number of files to the folder you select to install XAMPP.

Press Finish to complete installation.

### 2.1.2 RUN XAMPP

Then run XAMPP Control Panel. It should open up, and if everything went to plan, look like the screen shot.

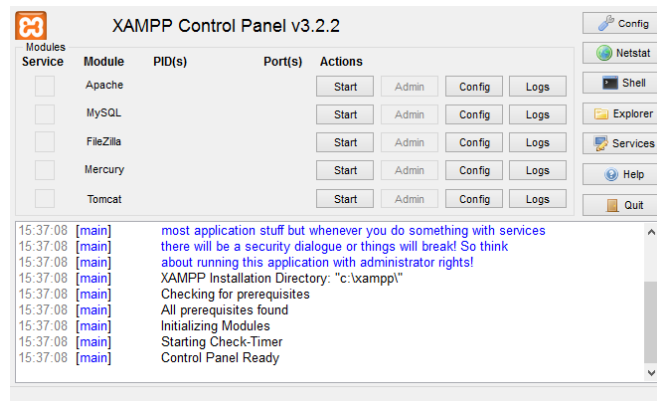


Figure 3: XAMPP Control Panel

At this point, you need to press Start buttons for both Apache and MySQL. As you click each, your screen should now look like the below:

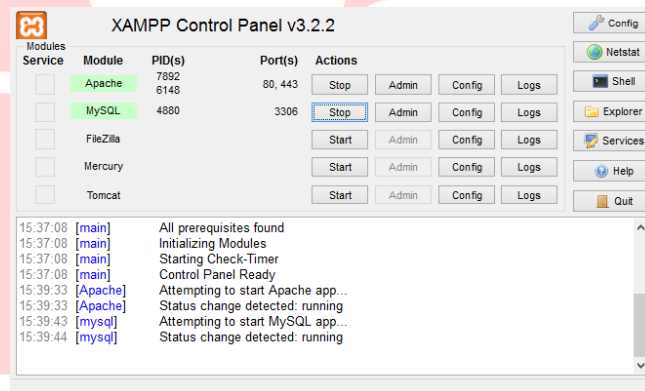
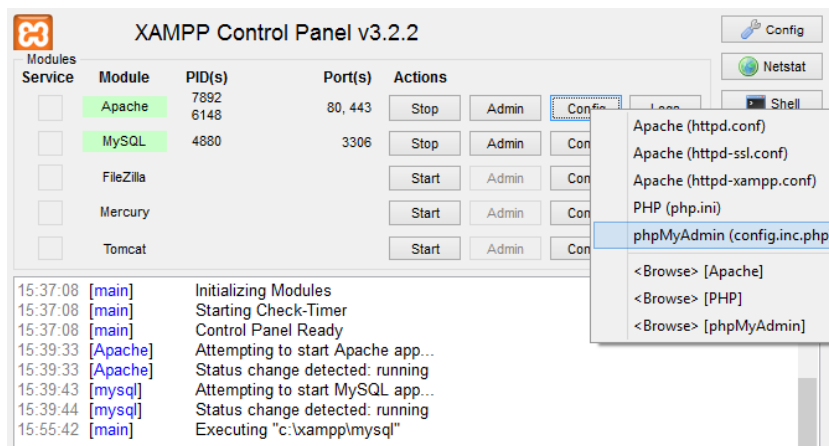


Figure 4: XAMPP Control Panel – Start Apache and MySQL

If you want to start Apache and MySQL automatically when starting XAMPP Control Panel, Click “Config” button on top right of the XAMPP Control Panel. Then check Apache and MySQL boxes in “auto start of sections module” section and then press Save.

### 2.1.3 CONFIGURE XAMPP

Before we install VSign CMS, we need to configure a few things on XAMPP to make it a bit more secure. From XAMPP Control Panel, Click “Config” button, on the first line next to Admin button as seen in following screenshot and click “phpMyAdmin” to open “config.inc.php” file.



*Figure 5: XAMPP Control Panel – Configure PHP*

In “config.inc.php” file, change the first line below with the second line.

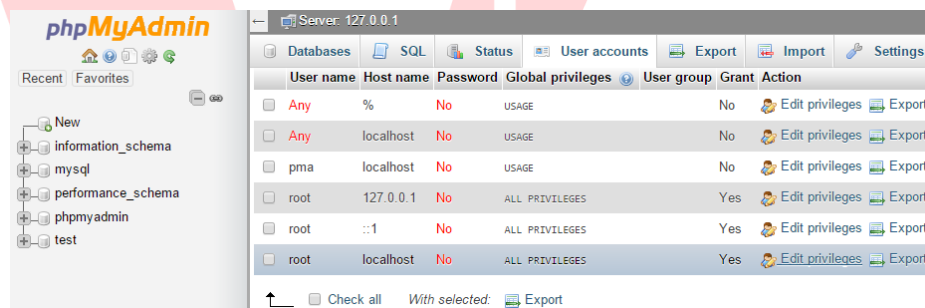
```
$cfg['Servers'][$i]['auth_type'] = 'config'
$cfg['Servers'][$i]['auth_type'] = 'http'
```

After changing the line and saving the file, Restart Apache and MySQL.

You will also need to configure “php.ini” file, which can be viewed by the context menu shown in the figure above, during installing CMS.

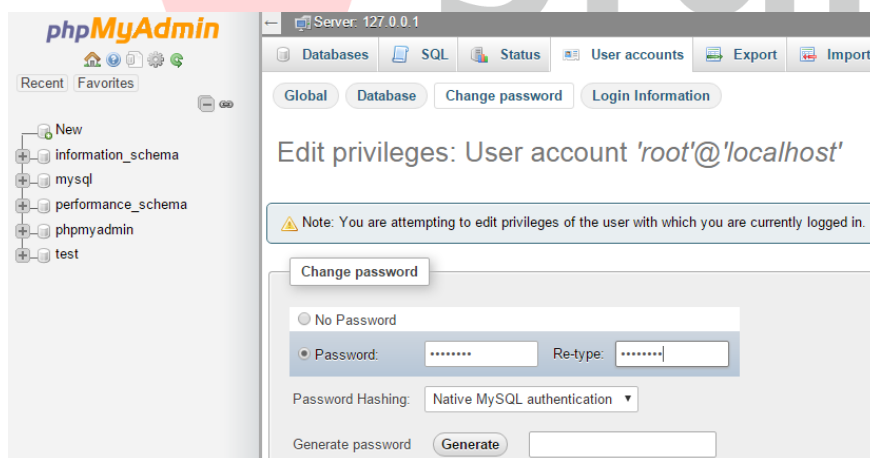
In the XAMPP Control Panel, click the "Admin" button next to MySQL. This will load a web browser and take you to an application called PHPMyAdmin that was installed along with XAMPP. It will let us setup a password for the "root" MySQL account. The "root" account on MySQL has privileges to add new users, create databases etc. so needs to have a strong password.

From the PHPMyAdmin screen, click "User Accounts" at the top of the screen. You'll see the database users that exist already listed. We're interested in the one called "root" that has "localhost" in the "Host" column. Click the blue "Edit Privileges" symbol to the right of the word "Yes".



*Figure 6: PHPMyAdmin – Configure User Accounts*

On top of page, you find the "Change Password" box. Enter a new password in both the password boxes and click "Go". On a piece of paper, write down "MySQL Admin User details. Username: root Password:" followed by the password you just chose. We'll need these later when installing CMS.



*Figure 7: PHPMyAdmin – Change Password*

Now we are ready to extract VSign CMS package.

## 2.2 INSTALL ON LINUX

In this section, web server installation on Linux will be explained. Ubuntu is recommended. There are some notes further down for other distributions, however the whole procedure is very similar.

We need to setup Apache and PHP. This procedure will be explained for Ubuntu 14.04 LTS and for other distributions in the following subsections.

### 2.2.1 Ubuntu

- Install Apache 2.x Webserver

```
sudo apt-get install apache2
```

- Install MySQL Server

```
sudo apt-get install mysql-server
```

- Install PHP5 :

```
sudo apt-get install php5 php5-mysql php5-gd
```

- Restart Apache 2 Webserver if necessary

```
sudo /etc/init.d/apache2 restart
```

*On Ubuntu, DOM, libXML, gettext and JSON extension is already compiled on PHP5.*

### 2.2.2 CentOS 5.x / Redhat RHEL 5.x

JSON extension is not include in CentOS 5.x or Redhat RHEL 5.x but you can install it with this steps :

- Install JSON PHP Extension

```
yum install php-devel
```

*If you have more than 8MB of memory limit for PHP, install with PEAR :*

```
pear install pecl/json
```

If you have less than 8MB of memory limit for PHP, PEAR failed to install... Use PECL :

```
pecl install json
```

- Active JSON extension :

```
vim /etc/php.d/json.ini  
# Json Extension
```

```
extension=json.so
```

- Save file and restart the Apache webserver :

```
/etc/init.d/httpd restart
```





## 2.3 EXTRACT VSIGN CMS INSTALLATION PACKAGE

It is assumed that a web server running with PHP and MySQL is available. Now it is required to transfer CMS installation package to server. When the CMS installation archive is extracted, the extracted archive should look like below:

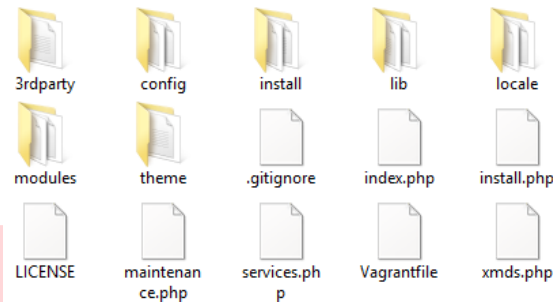


Figure 8: Install CMS – Extracted CMS Archive

In the simplest of web server configurations the name of this folder will be the name of the URL you use to access the CMS. For example if you name folder as VSign, the URL of the CMS will be <http://localhost/Vsign>

That process will be explained in detail for Windows and Linux in following subsections.

After extracting the CMS archive into appropriate location, we are ready to start the CMS installation

### 2.3.1 PLACING CMS PACKAGE ON WINDOWS

If you extract CMS archive and rename as VSign, the appropriate location for that folder is C:\xampp\htdocs.

### 2.3.2 PLACING CMS PACKAGE ON LINUX

If you extract CMS archive and rename it as VSign, the appropriate location for that folder is /var/www/html which is the name for Document Root on Linux.

- Extract the tarball you downloaded inside your webserver's document root (eg /var/www/vsign) and ensure the webserver has permissions to read and write those files:

```
cd /var/www
sudo tar zxvf ~/vsignCMS-v1.0.6.tar.gz
sudo mv VsignCMS-v1.0.6 vsign
sudo chown www-data.www-data -R vsign
```

- Make a directory for the server library. Make sure the webserver has permission to write to this location:

```
sudo mkdir /vsign-library
sudo chown www-data.www-data -R /vsign-library
```

- You should now use a webbrowser to visit your webserver - eg <http://myserver/Vsign>
- The process is fairly self explanatory. Go to STARTING VSign CMS INSTALLATION section to start VSign CMS installation.

### 3 STARTING VSign CMS INSTALLATION

Navigating to `http://your.server/path` (E.g <http://localhost/VSign>) will automatically start the installation.

The installation is in a *wizard* format that contains 5 steps in total. The wizard will guide the installer through the process of installing VSign.

#### 3.1 PRE-REQUISITES

After navigating to `http://your.server/path`, the below page appears.

This page contains a detailed check list of all the items required for a successful installation. Each item will have either:

- A tick - the item is present and correct
- An exclamation mark - the item is present but may not be configured correctly.
- A cross - the item is missing.

Any items with an exclamation mark or a cross should be corrected. When any item with an exclamation mark or a cross is solved, the Retest button must be used to run this step again.

# Welcome to the VSign Installation!

Thank you for choosing VSign. This installation wizard will take you through setting up VSign one step at a time. There are 6 steps in total, the first one is below.

[Installation guide »](#)

First we need to check if your server meets VSign's requirements.

Item	Status	Advice
PHP Version	✓	PHP version 5.3.3 or later required. Detected 5.5.33
File System Permissions	✓	Write access required for settings.php and install.php
MySQL database (PHP MySQL)	✗	MySQL support must be enabled in PHP.
MySQL database (PDO MySQL)	✓	PDO support with MySQL drivers must be enabled in PHP.
JSON Extension	✓	PHP JSON extension required to function.
SOAP Extension	✗	PHP SOAP extension required to function.
GD Extension	✓	PHP GD extension to function.

Figure 9: Install CMS – Pre-requisites

The most common problems here are missing PHP modules, configuration of PHP settings and file permissions issues to the library. Browse to `php.ini` file and enable extensions for missing modules.

After changing the line and saving the file (`php.ini`), don't forget to restart Apache and MySQL.

Once all the items are ticked press Next button to advance.

## 3.2 CREATING THE DATABASE

After pre-requisites step is passed, the below page appears.

The CMS can install into a new database, or an existing one. We recommend a new database. Because, VSign does not prefix its table names and may conflict with content in an existing database. The choice for a new or existing database can be made by switching between the two available tabs.

Whether you chose an existing database or a new one, the installer will need to collect some information about that database to allow the CMS to connect, read and write.

---

VSign needs to set-up a connection to your MySQL database.  
 If you have not yet created an empty database and database user for Xibo to use, and know the user name / password of a MySQL administrator stay on this tab, otherwise click "Use Existing".

Create a new database  
 Select to create a new database

**Host**   
 Please enter the hostname for the MySQL server. This is usually localhost.

**Admin Username**   
 Please enter the user name of an account that has administrator privileges on the MySQL server.

**Admin Password**   
 Please enter password for the Admin account.

**Database Name**   
 Please enter the name of the database that should be created.

**Database Username**   
 Please enter the name of the database user that should be created.

**Database Password**   
 Please enter a password for this user.

Figure 10: Install CMS – Creating DataBase

The installer will need the following information:

**Host** The host name for your MySQL installation - in the majority of cases this will be "localhost".

**Admin Username** The "root" user name for your MySQL installation. This is only used for the installation and is only required if you have asked the installer to create a new database.

**Admin Password** The "root" password. This is only used for the installation and is only required if you have asked the installer to create a new database.

**Database Name** The name for the CMS database. Give a name you choose.

**Database User name:** The user name for the CMS to use to connect to the database - usually this can be the same. Give a name you choose.

**Database Password** The password to use to connect to the database. Give a password you choose.

After you fill the form, press Next button. The installer will now create / populate database for VSign. You should see a series of dots appear on the screen as this happens. It can take a few moments to complete.

### 3.3 CREATING ADMINISTRATOR ACCOUNT

After creating database step is passed, the following page appears:

VSign needs an administrator user account to be the first user account that has access to the CMS. Please enter your chosen details below.

**Yönetici Kullanıcı Adı**

Please enter a user name for the first administrator account.

**Yönetici Şifresi**

Please enter a password for this user. This user will have full access to the system

Figure 11: Install CMS – Creating Administrator Account

Each installation will require at least one "Super User" level Administrator to manage the system, apply upgrades and configure the advanced settings. Just give any user name and password you choose.

This user name and password should be kept safe as it will be required when the installation is complete.

### 3.4 FINAL CONFIGURATION

After creating administrator account step is passed, the following page appears:

**Kütüphane Konumu**

VSign needs somewhere to store the things you upload to be shown. Ideally, this should be somewhere outside the root of your web server - that is such that is not accessible by a web browser. Please input the full path to this folder. If the folder does not already exist, we will attempt to create it for you.

**Sunucu Anahtar**

VSign needs you to choose a "key". This will be required each time you set-up a new client. It should be complicated, and hard to remember. It is visible in the CMS interface, so it need not be written down separately.

Figure 12: Install CMS – Final Configuration

The screen deals with configuring VSign. The first box asks for the location that VSign should store the media you upload. We created a folder for this earlier, so enter that folder here e.g. C:\VSign Library

The next box asks for a CMS key - this key is used to authenticate Displays with the CMS and should be something obscure. After installation is completed, the CMS Key can be viewed or can be changed via Administration → Settings page of CMS web interface.

### 3.5 COMPLETE

The installation is now complete and the system is ready to log in.

Please provide your credentials

VSign was successfully installed.  
Please log-in with the user  
details you chose earlier.

Figure 13: Install CMS – Complete

Now you can use user name and password of administrator account you created during installation process.