

## Install SUAS MapServer from Zero V 1.01

If you have installed Apache Server and SQL database already, you can skip section 1.

### 1. Install XAMPP

- Apache HTTPD 2.2.11 + Openssl 0.9.8i
- MySQL 5.1.33
- PHP 5.2.9
- phpMyAdmin 3.1.3.1
- XAMPP CLI Bundle 1.3
- FileZilla FTP Server 0.9.31
- Mercury Mail Transport System 4.62

#### 1.1 Download XAMPP

from <http://www.apachefriends.org/en/xampp-windows.html>

### Download

#### XAMPP

You can download XAMPP for Windows as three different variations:

#### Installer





Easy and safe: XAMPP with a comfortable installer.

#### ZIP archive

For purists: XAMPP as ordinary ZIP archive.

#### Self-extracting ZIP archive

Economical: XAMPP as very small self-extracting 7-ZIP archive.

XAMPP for Windows 1.6.4, 2007/10/03		
Version	Size	Content
<b>XAMPP Windows 1.6.4</b> [Basic package]		Apache HTTPD 2.2.6, MySQL 5.0.45, PHP 5.2.4 + 4.4.7 + PEAR + Switch, MiniPerl 5.8.7, Openssl 0.9.8e, PHPMyAdmin 2.11.1, XAMPP Control Panel 2.5, Webalizer 2.01-10, Mercury Mail Transport System v4.01a, FileZilla FTP Server 0.9.23, SQLite 2.8.15, ADODB 4.94, Zend Optimizer 3.3.0, XAMPP Security, Ming, For Windows 98, 2000, XP. See also  README
 <b>Installer</b>	34 MB	Installer MD5 checksum: 34c14906adab7b0436f740bdd423bca7
 ZIP	80 MB	ZIP archive MD5 checksum: 202b0d5a81305e6a059158b3d115cd6c
 EXE (7-zip)	28 MB	Selfextracting 7-ZIP archive MD5 checksum: f79a7b63733e74b7b695c824d1d0f45c

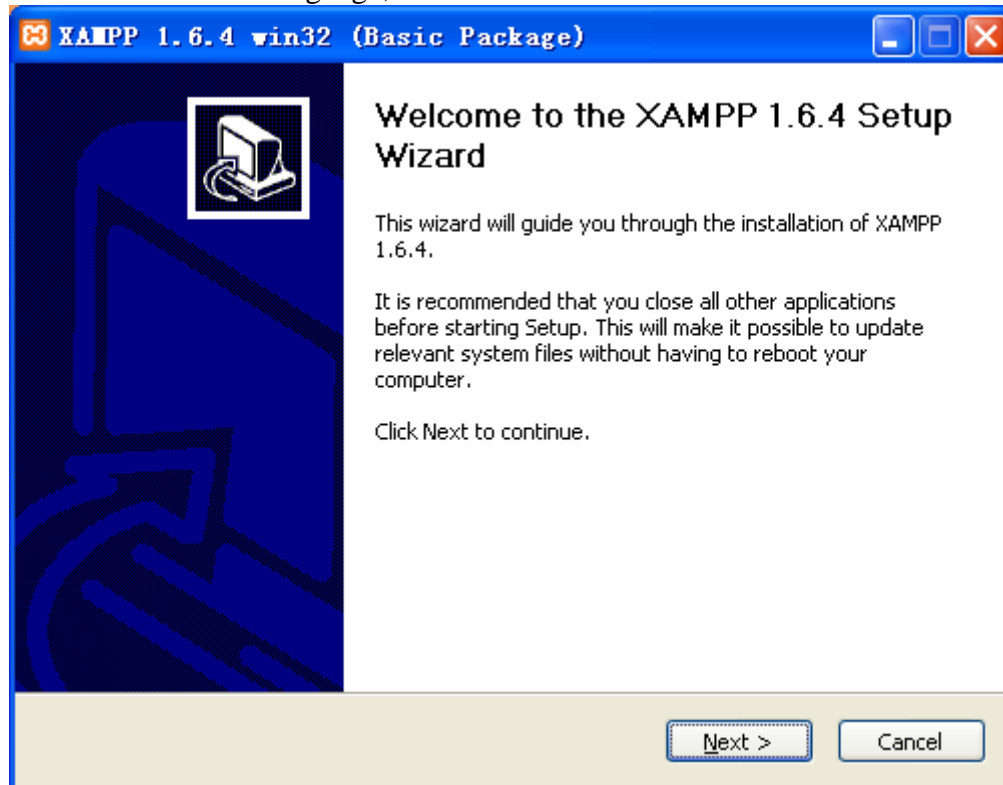


Download this file.

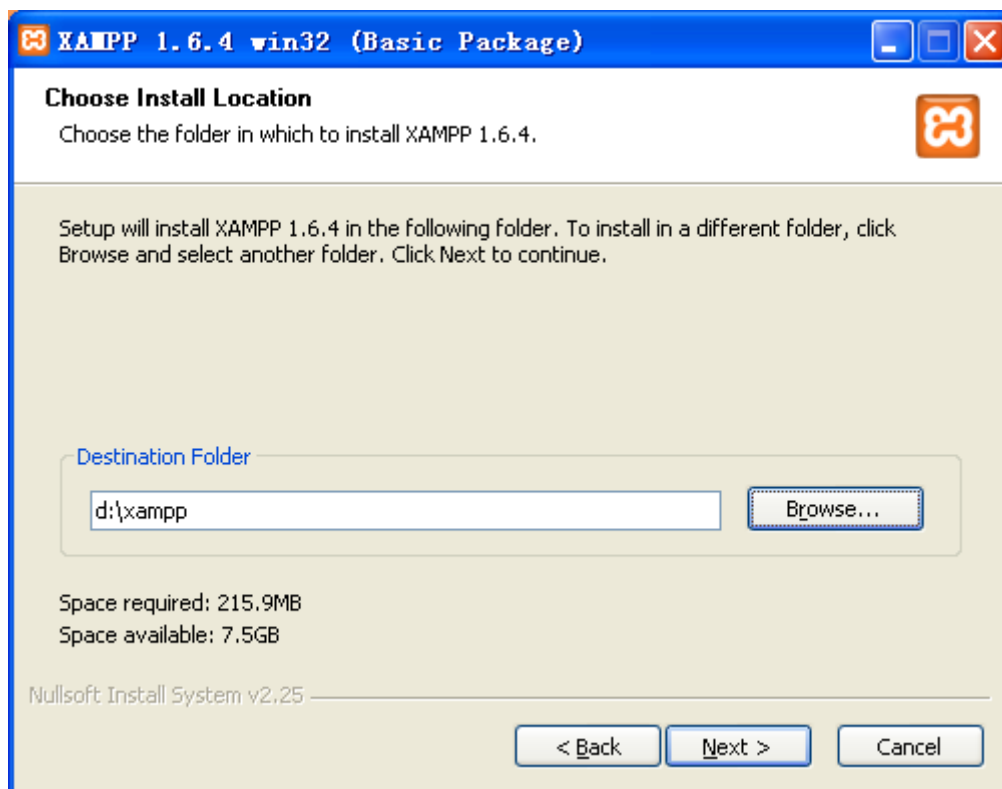
If you have experience with installing Apache PHP server, you can choose the other 2 variations. Otherwise, you need configure the server manually.

## 1.2 Install XAMPP with Installer

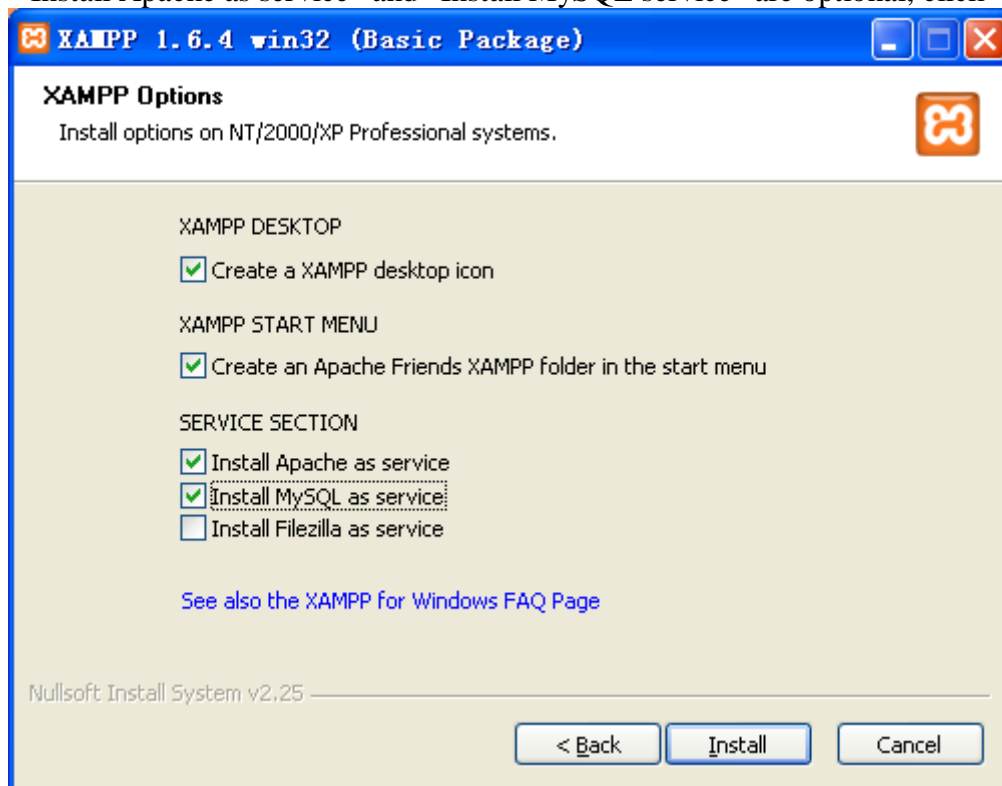
After selected installer language, click “Next” button.



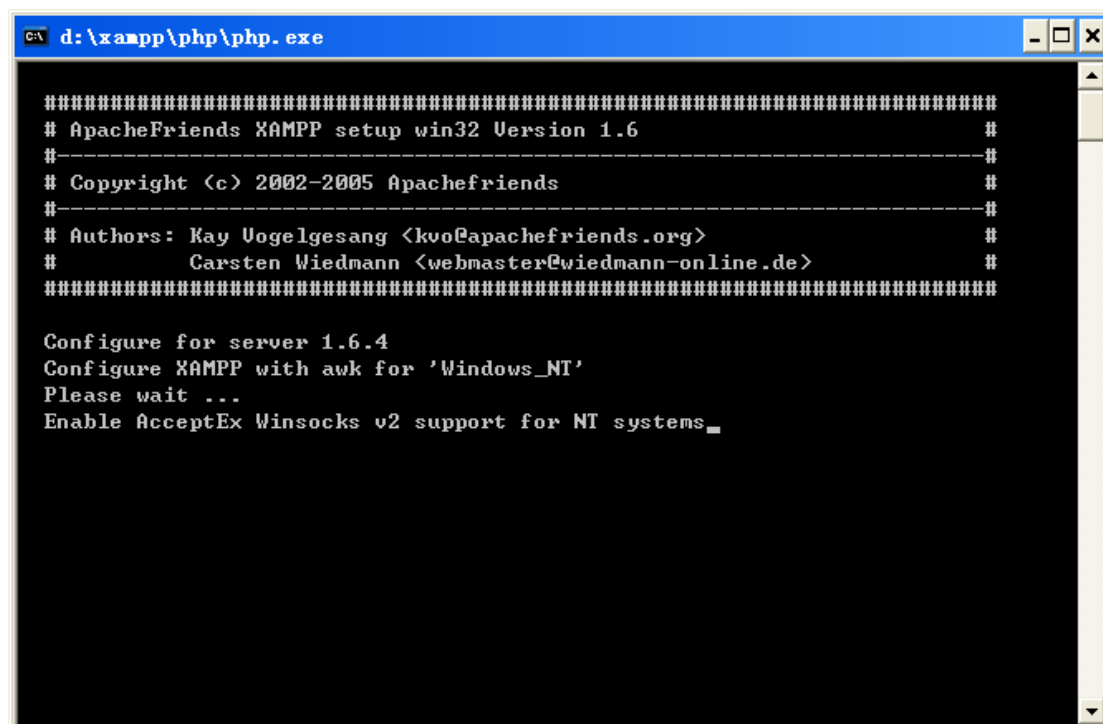
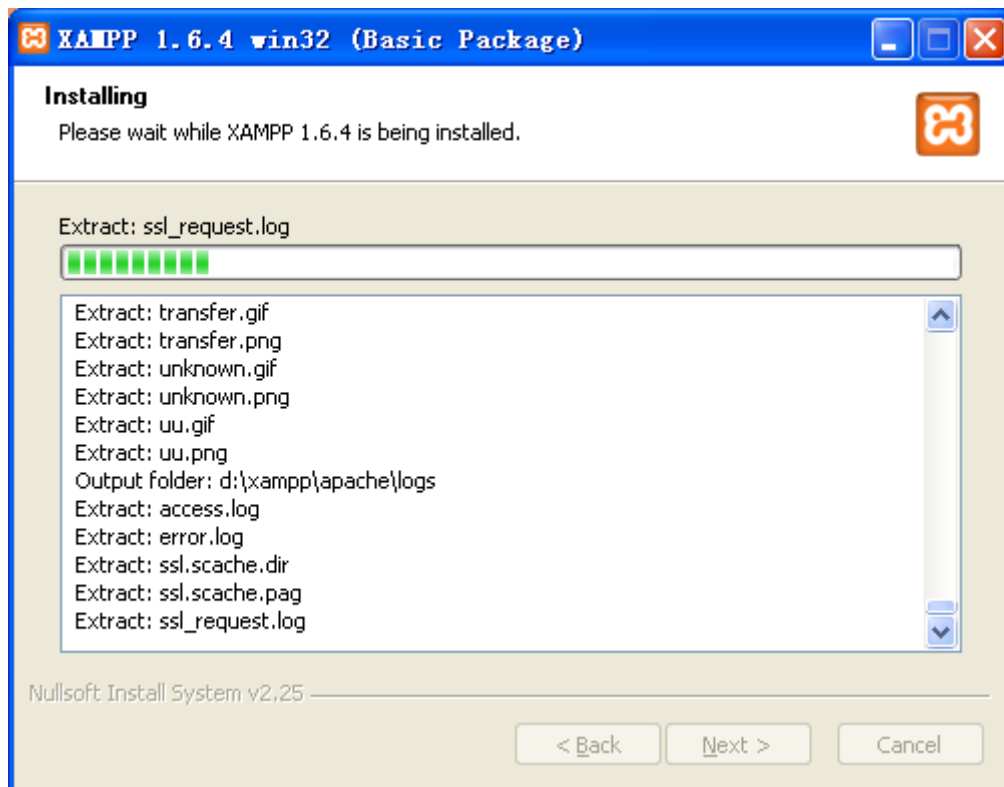
After selected the Destination Folder, click “Next” button.

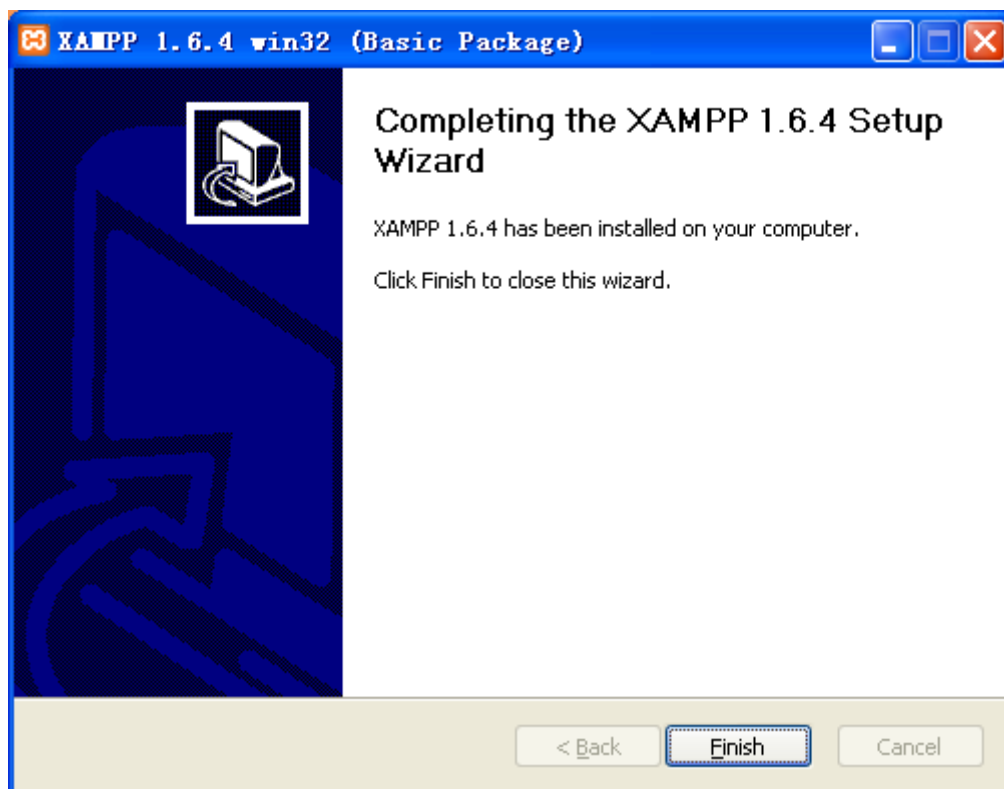


“Install Apache as service” and “Install MySQL service” are optional, click “Install” button.

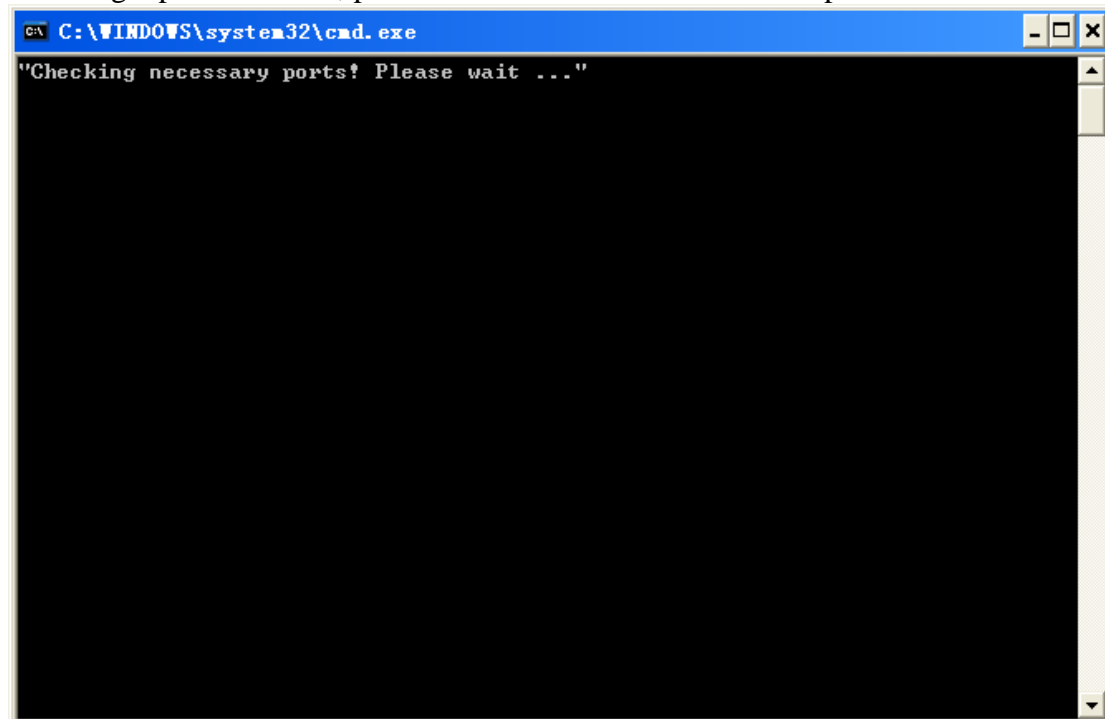


Wait for installing.



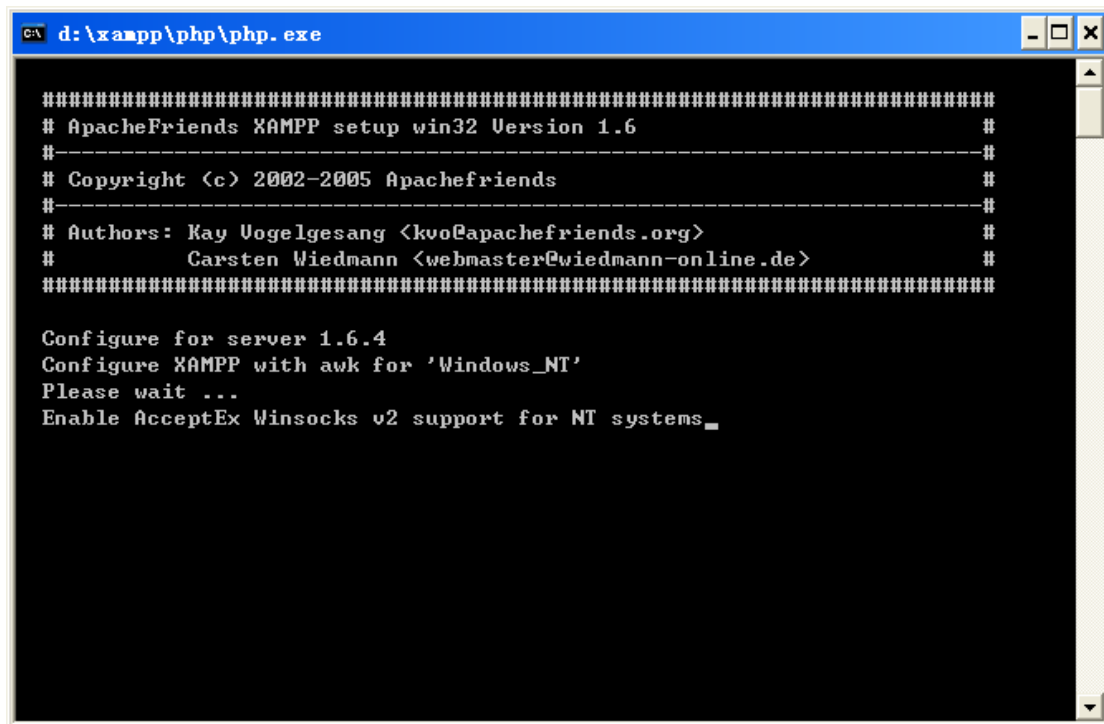


If you have installed firewall, the bellow window will occur. If you have any problem of installing Apache Service, please close the firewall first and reopen it after installation.



### 1.3 Install XAMPP with Zip package

Unzip the package into your hard disk, double click to run xampp/setup\_xampp.bat



```
d:\xampp\php\php.exe

#####
# ApacheFriends XAMPP setup win32 Version 1.6                               #
#####
# Copyright (c) 2002-2005 ApacheFriends                                     #
#####
# Authors: Kay Vogelgesang <kvo@apachefriends.org>                         #
#           Carsten Wiedmann <webmaster@wiedmann-online.de>                #
#####

Configure for server 1.6.4
Configure XAMPP with awk for 'Windows_NT'
Please wait ...
Enable AcceptEx Winsocks v2 support for NT systems_
```

## 1.4 Configure XAMPP

### 1.4.1 Set the password of MySQL Database.

Open internet browser and go to link <http://localhost/security/index.php>



**XAMPP SECURITY [Security Check 1.0]**

This page gives you a quick overview about the security status of your XAMPP installation. (Please continue reading after)

Subject
These XAMPP pages are accessible by network for everyone Every XAMPP demo page you are right now looking at is accessible for everyone over network. Everyone who knows your IP address can
The MySQL admin user root has NO password Every local user on Windows box can access your MySQL database with administrator rights. You should set a password.
PhpMyAdmin is free accessible by network PhpMyAdmin is accessible by network without password. The configuration 'httpd' or 'cookie' in the "config.inc.php" can help.
A FTP server is not running or is blocked by a firewall! A FTP server is not running or is blocked by a firewall!
PHP is NOT running in "safe mode" If do you want to offer PHP executions for outside persons, please think about a "safe mode" configuration. But for standalone develop mode" configuration because some important functions will not working then. <a href="#">More Info</a>
The test user "newuser" for the POP3 server (Mercury Mail?) does not exists anymore or have a new password

The green marked points are secure; the red marked points are definitively unsecure and the yellow marked points could software to check isn't running).

To fix the problems for mysql, phpmyadmin and the xampp directory simply use

=> <http://localhost/security/xamppsecurity.php> <= [allowed only for localhost]

Click this link to set the password of MySQL and then click "Password changing" button to save your password. Please remember the password which you have set will be used during installation of SUAS MapServer. (**root** is the default user name)



Or you can run this command to change the password:

```
xampp/mysql/bin/ mysqladmin -u root password yourpassword
```

#### 1.4.2 Configure PHP for SUAS MapServer

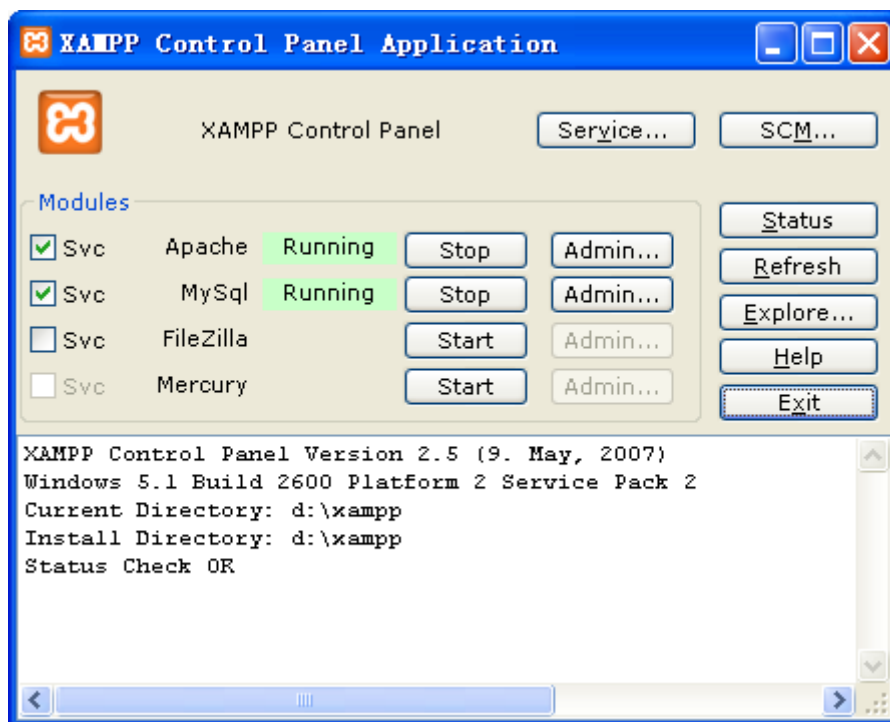
Before the installation, we should enable some extension in PHP.

Open **\\xampp\\apache\\bin\\php.ini** file and do some operation as follow:

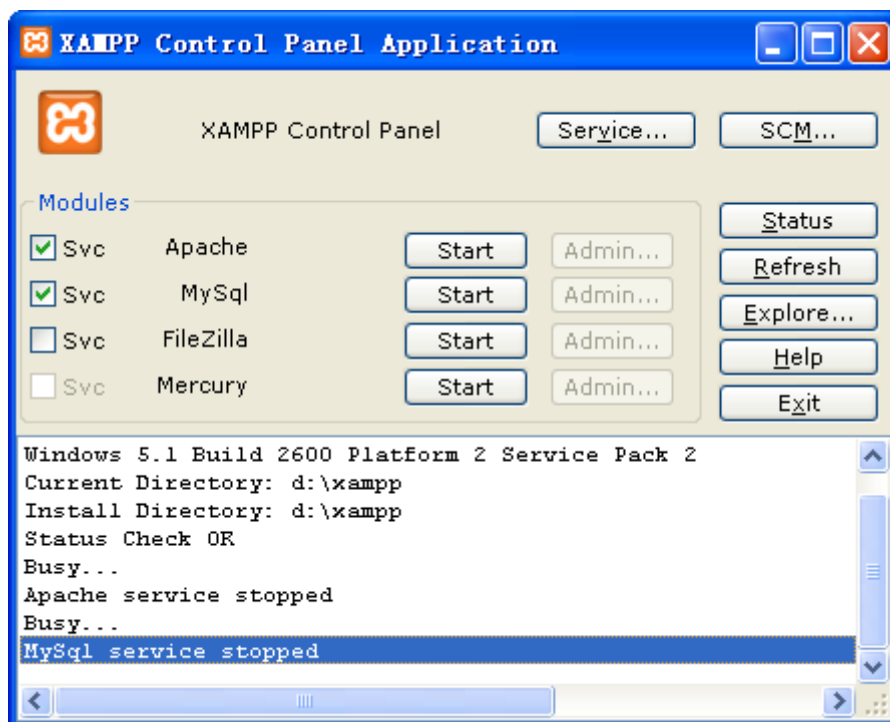
- 1) Delete the semicolon before `extension=php_dbase.dll` to enable dbase function to parse the DBF file when importing SHP data
- 2) Delete the semicolons before `extension=php_ming.dll` and `extension=php_pdf.dll` to enable flash and PDF extensions respectively.
- 3) Set parameter `memory_limit=128M` (any appropriate value) to avoid memory exhausted error when importing huge data.
- 4) Optional, set parameter `upload_max_filesize = 16M` and `post_max_size = 16M`, or any value as you will
- 5) Close warning message when running php script, change the parameter `error_reporting` from  
`error_reporting = E_ALL`  
to  
`error_reporting = E_ALL & ~E_NOTICE`

#### 1.4.3 Restart Apache Server and MySQL Server to make the above configuration effective.

Run Start -> Program -> Apache Friends -> XAMPP -> Control Panel, Click “Stop”.

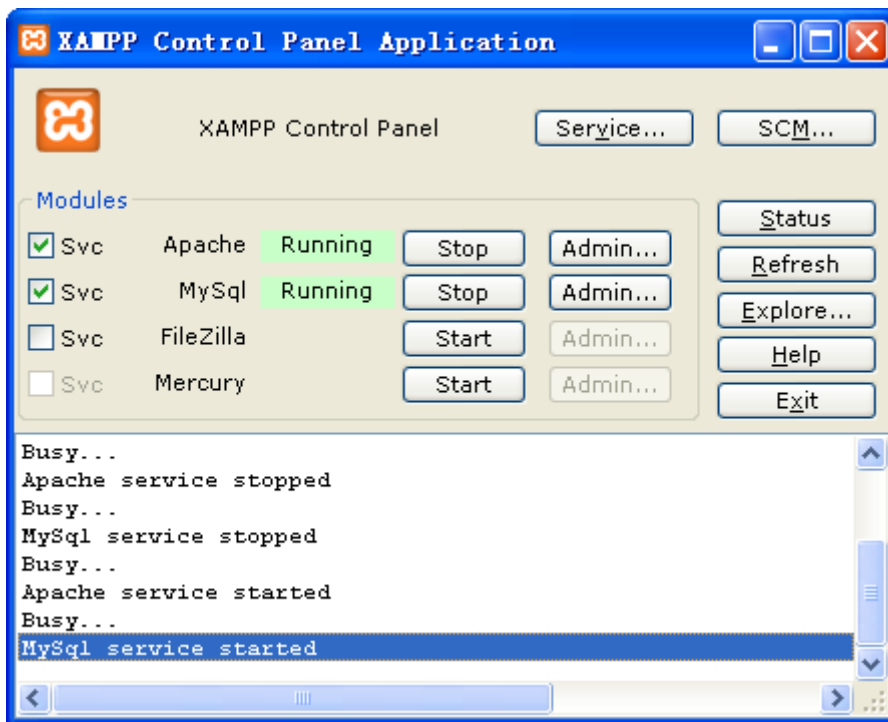


And then click "Start".



Apache Server and MySQL Server have been restarted.





## 2. Install SUAS MapServer

### 2.1.1 Download

Google Code: <http://code.google.com/p/suas-map-server/downloads/list>

SourceForge: <https://sourceforge.net/projects/suasmapserver/files/>

Download suas install file and data for demo, which will be used later(in Chapter 2.3.3) and another is for installation of SUAS MapServer.

You can also use CVS or SVN to download the newest source code:

On Google Code

# Non-members may check out a read-only working copy anonymously over HTTP.  
svn checkout <http://suas-map-server.googlecode.com/svn/trunk/> suas-map-server-read-only  
path: suas4

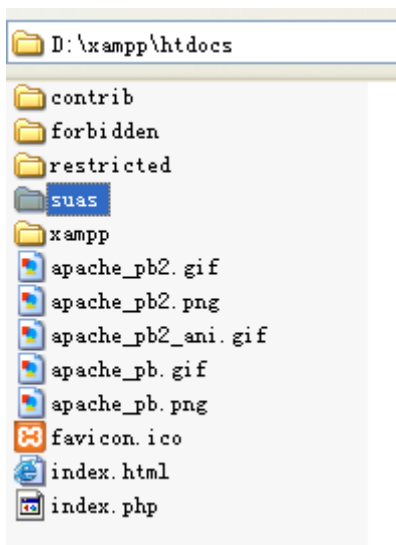
On SourceForge

cvs -d:pserver:anonymous@suasmapserver.cvs.sourceforge.net:/cvsroot/suasmapserver login  
path: wms/suas/suas/4.x

### 2.1.2 Unzip package

Unzip the zip package into **\xampp\htdocs** folder. You could change the file name to simple one such as 'suas' in order to input the URL easily.





Unzip [UK Map WGS84.zip](#) into anywhere for later using.



### Start Installation of SUAS MapServer

#### Start

Open internet browser and go to link <http://localhost/suas/install/install.php> .

#### Server Requirements

Check all requirements for SUAS MapServer to insure the extensions are “Test passed”, so that SUAS MapServer can be installed successfully. If not, open the extensions you want to use in php.ini file.

Click “Continue” to go on.

**Server Requirements**

SUAS MapServer has a number of minimum requirements for installation. These requirements are checked below, and once satisfied you will be able to continue with the installation process.

**Mandatory Extensions:**

PHP 5.0.0+ **Test Passed** - You are running PHP 5.2.4

- 1 MySQL **Test Passed** - MySQL Lib is available.
- 2 PostgreSQL **Test Passed** - PostgreSQL Lib is available.

libXML **Test Passed** - libXML is available. (Version 2.6.11 is mandatory required for parsing&generating XML file functionality).

GD **Test Passed** - GD is available. (Version 2.0 is mandatory required for generating raster images functionality).

**Optional Extensions:**

PDF **Test Passed** - PDF is available. (Version 6.0.3 is optional required for generating PDF file functionality).

Ming **Test Passed** - Ming is available. (Version 0.3.0 is optional required for generating SWF file functionality).

Dbase **Test Passed** - Dbase is available. (Optional required for parsing the DBF file when importing SHP data).

**Mandatory Requirement:**

config.php file writable **Test Passed** (It is mandatory required for storing database access data).

files Directory writable **Test Passed** (It is mandatory required for storing the files of user and atlas).


Continue

### 2.2.3 License Agreement

Agree the licenses to continue. Click “I Agree”.

You can move the mouse to the question icon to view the help.

**License Agreement**

SUAS MapServer is distributed under the Lesser General Public License  This can be read at <http://www.gnu.org/copyleft/lesser.html>. Before continuing, you must agree to this license firstly.

Back

I do not agree

I Agree

## Configuration

### 2.3.1 Database Access

Note: “Server Host” was automatically generated. It must be given and pay attention to end it with “/”.


Use the user name and the password of MySQL database to log in and install SUAS MapServer. Input the password you have set in Chapter 1.3.1. Click “Continue”.

The blue animation bar is the progress bar of installation which can show you the process.

### Database Access

Now you are ready to access the database.

Please end Server Base Url with "/"

Server Base Url : \* 

#### Select Available Database

Select one database you want use.

☒ MySQL

☐ PostgreSQL

#### Access Database


Please fill out the information below. If you are unsure of your access details, please contact your web hosting service.

Database Server: \*

Database User Name: \*

Database Password: \*

Validate code: \*



[Back](#) [Continue](#)

After successfully login, installation will check the Database functionalities, such as create&drop privilege.

### Database Checking

Database functionalities checking.

Version: Test Passed - MySQL 5.0.45 is running. (Version 5.0.16+ is mandatory required for Database operation functionality).

Create&Drop Database Privilege: Test Passed - You can create&Drop new database.

[Back](#) [Continue](#)

Now you can see some databases which have existed in MySQL. You had better not choose these default databases because they are used by other server applications. So please create new one for SUAS MapServer. Enter a new name in the text field and click "Create". Note that the name can not only be number.

**Database Setting**

Now you are ready to install the SUAS MapServer database.

**Database Selecting**

Please select one database available or create one new database.

Database ID	Database Name
0	<input type="radio"/> cdcot
1	<input type="radio"/> demo

**Or you can create one new Database**

Database Name:

Click “Create” to create a new database. After that, table operation privilege will be checked.

**Table Checking**

Now you are checking the table operation privilege.

Table CREATE Privilege:	Test Passed
Table INSERT Privilege:	Test Passed
Table UPDATE Privilege:	Test Passed
Table DELETE Privilege:	Test Passed
Table DROP Privilege:	Test Passed

Then you can create table in the new database. Enter a new name in the text field as the table prefix and click “Create”. Note that the name cannot be left empty.

**Table Settings**

Now you are ready to install the SUAS MapServer tables. Please select one name available or create one new.

**Select one Table Name(Prefix) available**

ID	Table Name(Prefix)
No tables available	

**Or you can create new one**

Table Name(Prefix):

Now all the tables which are necessary for SUAS has been created, you need register one new user as super administrator.

All tables have been created successfully.

**SUAS MapServer has been installed successfully**

[Register new user](#)

Notice: You can edit the database access configuration in **xampp\htdocs\suas\config.php** file later

### 3. Install Special Image Viewer

SUAS MapServer can generate maps in various formats, some of which are supported by browsers directly and some can not, such as SVG and VRML. You need install special plugins for browsers or install the browsers which have already embedded those plugins.

#### 3.1 For SVG / SVGB / SVGT / SVGZ / SVGTZ / SVGBZ

- For IE (version under 6) browser, please download Adobe SVG Viewer:  
<http://www.adobe.com/svg/viewer/install/main.html>
- IE v7+ has embedded SVG render
- Firefox browser has embedded SVG render.
- Opera browser has embedded SVG render.
- Apple Safari has embedded SVG render.

If the generated SVG map has big size, IE browser with Adobe SVG Viewer is recommended.

#### For PDF

Download Adobe PDF Reader: <http://www.adobe.com/products/acrobat/readstep2.html>

#### For SWF (Flash)

Download Adobe Flash Player: <http://www.adobe.com/products/flashplayer/>

#### For KML / KMZ

Download Google Earth: <http://earth.google.com/>

Download Google Earth Plugin for Browser: <http://code.google.com/apis/earth/>

#### For VRML / VRMLZ or X3D / X3DZ

Download BS Contact VRML:

[http://www.bitmanagement.com/download/playerdownload.en.html#BS\\_Contract\\_VRML](http://www.bitmanagement.com/download/playerdownload.en.html#BS_Contract_VRML)

<http://www.cortona3d.com/cortona>

#### For X3D / X3DZ

Download X3D Viewer: [http://www.web3d.org/tools/viewers\\_and\\_browsers/](http://www.web3d.org/tools/viewers_and_browsers/)

