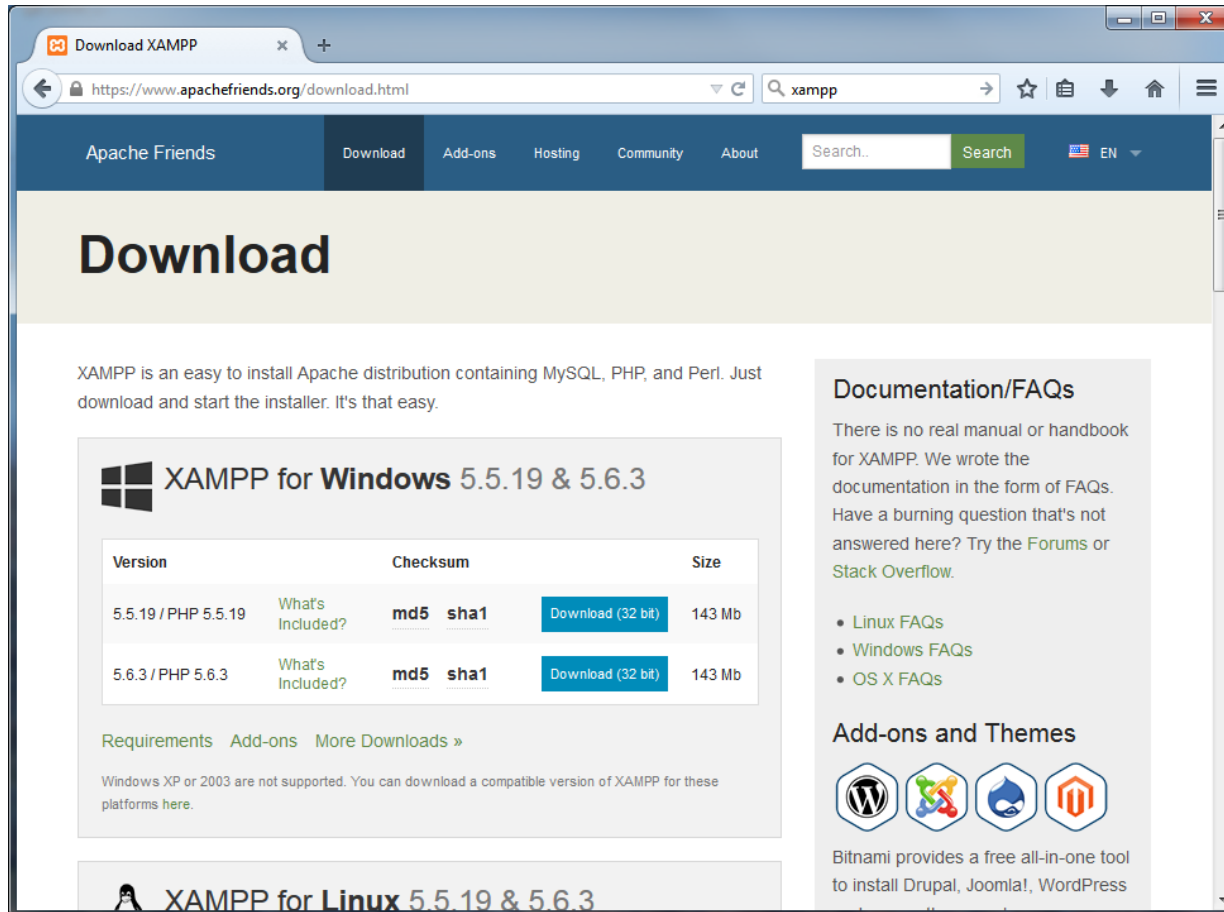


Installing XAMPP

On Windows

Downloading XAMPP

Get it from <https://www.apachefriends.org/download.html>



The screenshot shows a web browser window with the Apache Friends website. The page title is "Download XAMPP". The URL bar shows "https://www.apachefriends.org/download.html". The navigation menu includes "Download", "Add-ons", "Hosting", "Community", and "About". A search bar is present with the text "Search..". The main heading is "Download". Below it, a paragraph states: "XAMPP is an easy to install Apache distribution containing MySQL, PHP, and Perl. Just download and start the installer. It's that easy."

The main content area features a section for "XAMPP for Windows 5.5.19 & 5.6.3". It contains a table with the following data:

| Version | Checksum | Size |
|---------------------|--|--------|
| 5.5.19 / PHP 5.5.19 | What's Included? md5 sha1 Download (32 bit) | 143 Mb |
| 5.6.3 / PHP 5.6.3 | What's Included? md5 sha1 Download (32 bit) | 143 Mb |

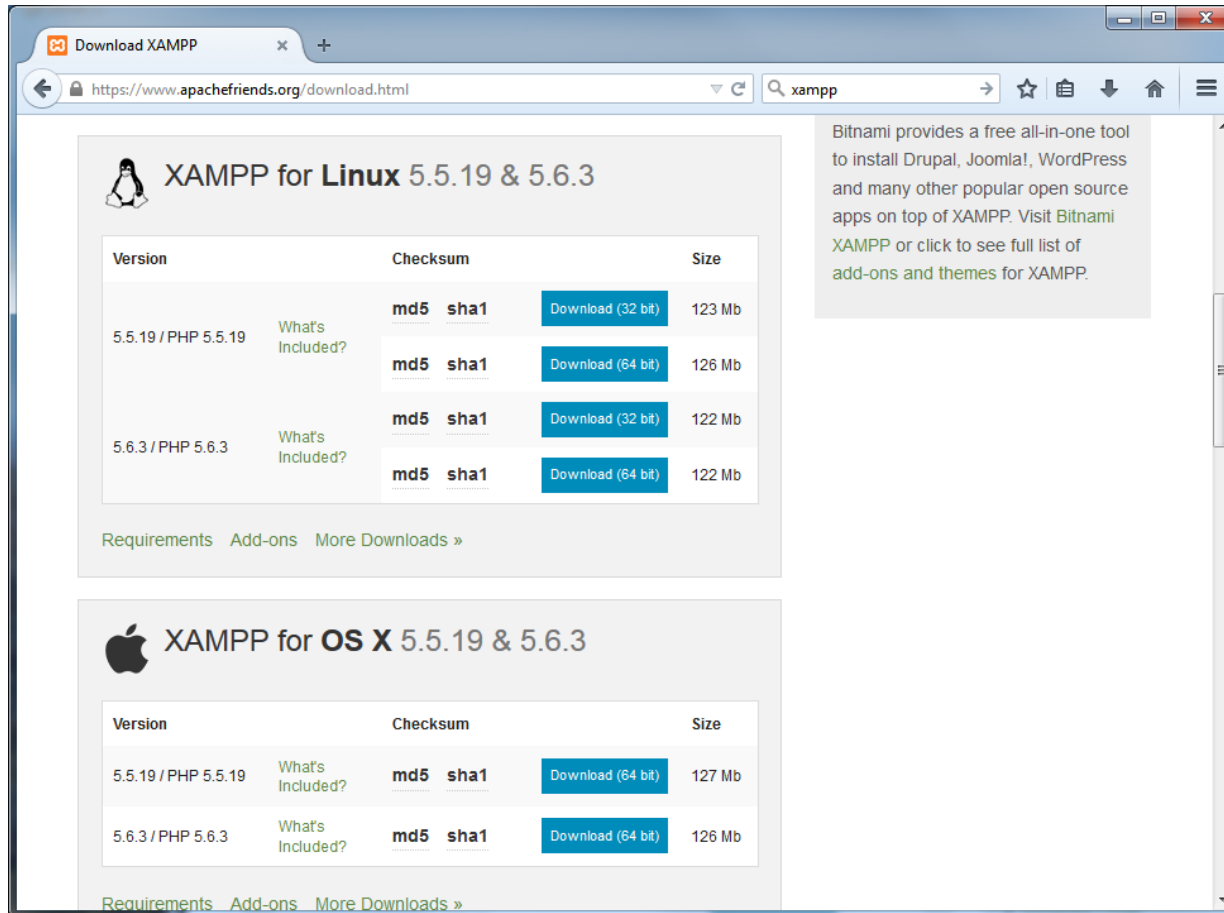
Below the table, there are links for "Requirements", "Add-ons", and "More Downloads »". A note states: "Windows XP or 2003 are not supported. You can download a compatible version of XAMPP for these platforms [here](#)."

At the bottom of the main content area, there is a section for "XAMPP for Linux 5.5.19 & 5.6.3".

On the right side, there is a "Documentation/FAQs" section with the text: "There is no real manual or handbook for XAMPP. We wrote the documentation in the form of FAQs. Have a burning question that's not answered here? Try the [Forums](#) or [Stack Overflow](#)." Below this, there are links for "Linux FAQs", "Windows FAQs", and "OS X FAQs".

Below the documentation section, there is an "Add-ons and Themes" section with icons for WordPress, Joomla!, Drupal, and Magento. The text below the icons states: "Bitnami provides a free all-in-one tool to install Drupal, Joomla!, WordPress".

Also available for Linux, Mac



The screenshot shows a web browser window with the address bar displaying <https://www.apachefriends.org/download.html>. The page title is "Download XAMPP". The main content area is divided into two sections: "XAMPP for Linux 5.5.19 & 5.6.3" and "XAMPP for OS X 5.5.19 & 5.6.3". Each section contains a table with columns for Version, Checksum, and Size. The Linux section also includes a "What's Included?" link for each version. The OS X section includes a "Download (64 bit)" button for each version. A sidebar on the right contains a text box about Bitnami.

XAMPP for Linux 5.5.19 & 5.6.3

| Version | Checksum | Size |
|--|--|--------|
| 5.5.19 / PHP 5.5.19 What's Included? | md5 sha1 Download (32 bit) | 123 Mb |
| | md5 sha1 Download (64 bit) | 126 Mb |
| 5.6.3 / PHP 5.6.3 What's Included? | md5 sha1 Download (32 bit) | 122 Mb |
| | md5 sha1 Download (64 bit) | 122 Mb |

[Requirements](#) [Add-ons](#) [More Downloads »](#)

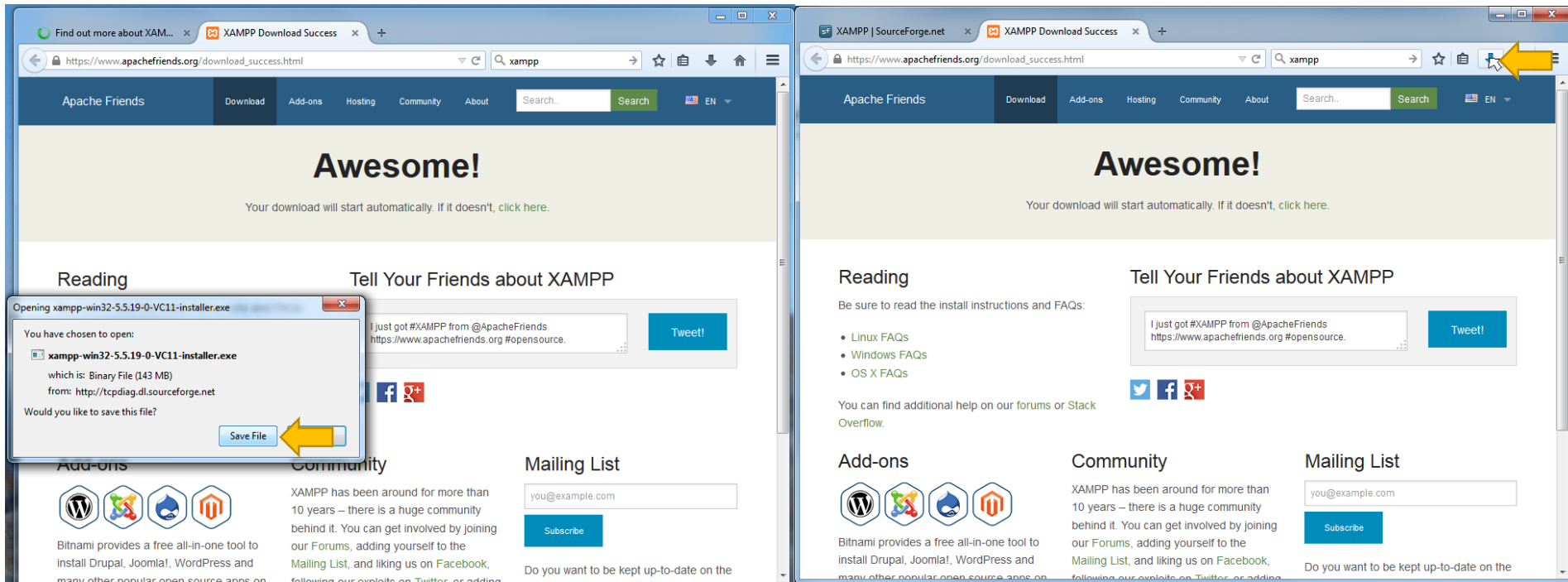
XAMPP for OS X 5.5.19 & 5.6.3

| Version | Checksum | Size |
|--|--|--------|
| 5.5.19 / PHP 5.5.19 What's Included? | md5 sha1 Download (64 bit) | 127 Mb |
| 5.6.3 / PHP 5.6.3 What's Included? | md5 sha1 Download (64 bit) | 126 Mb |

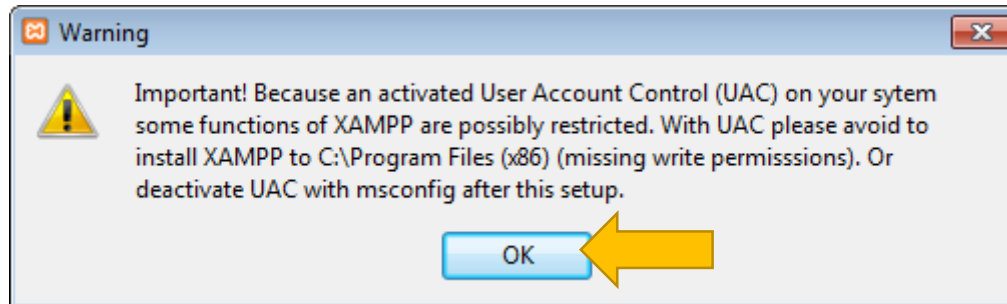
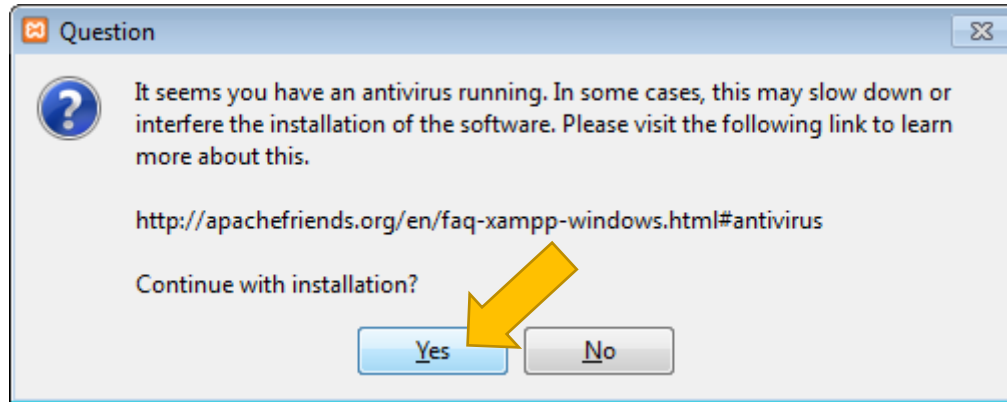
[Requirements](#) [Add-ons](#) [More Downloads »](#)

Bitnami provides a free all-in-one tool to install Drupal, Joomla!, WordPress and many other popular open source apps on top of XAMPP. Visit [Bitnami XAMPP](#) or click to see full list of [add-ons and themes](#) for XAMPP.

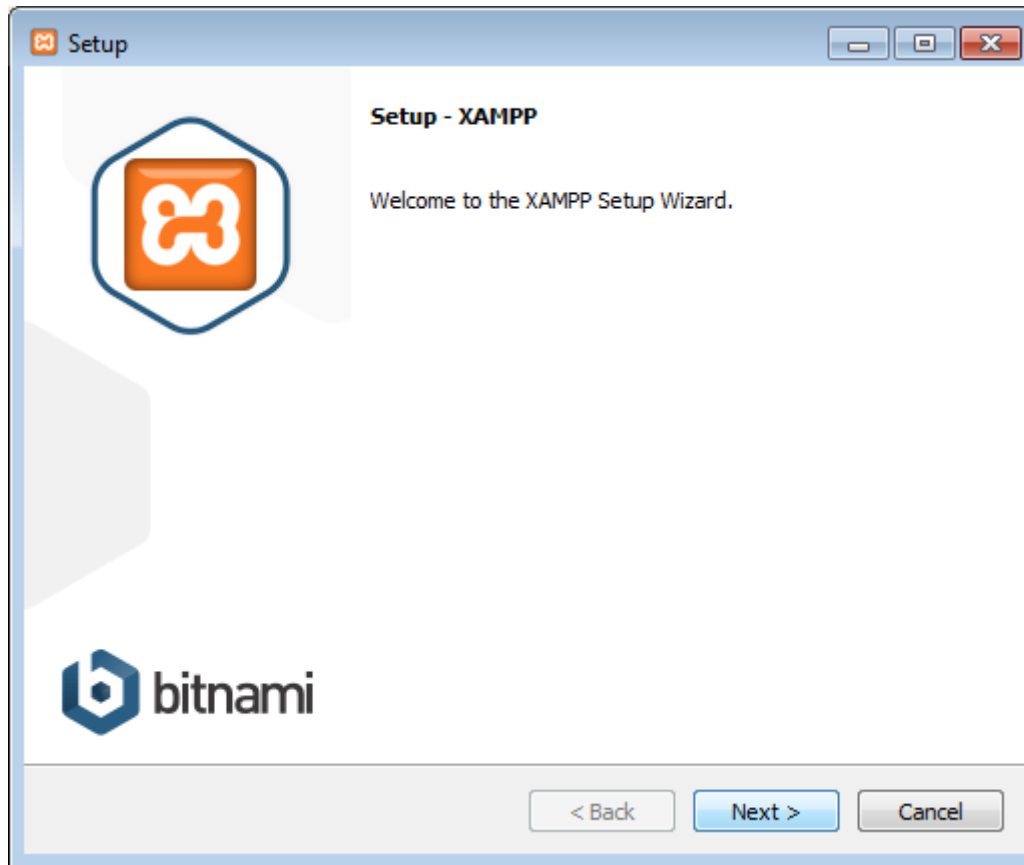
Run the installer as usual



May get warnings. Continue.

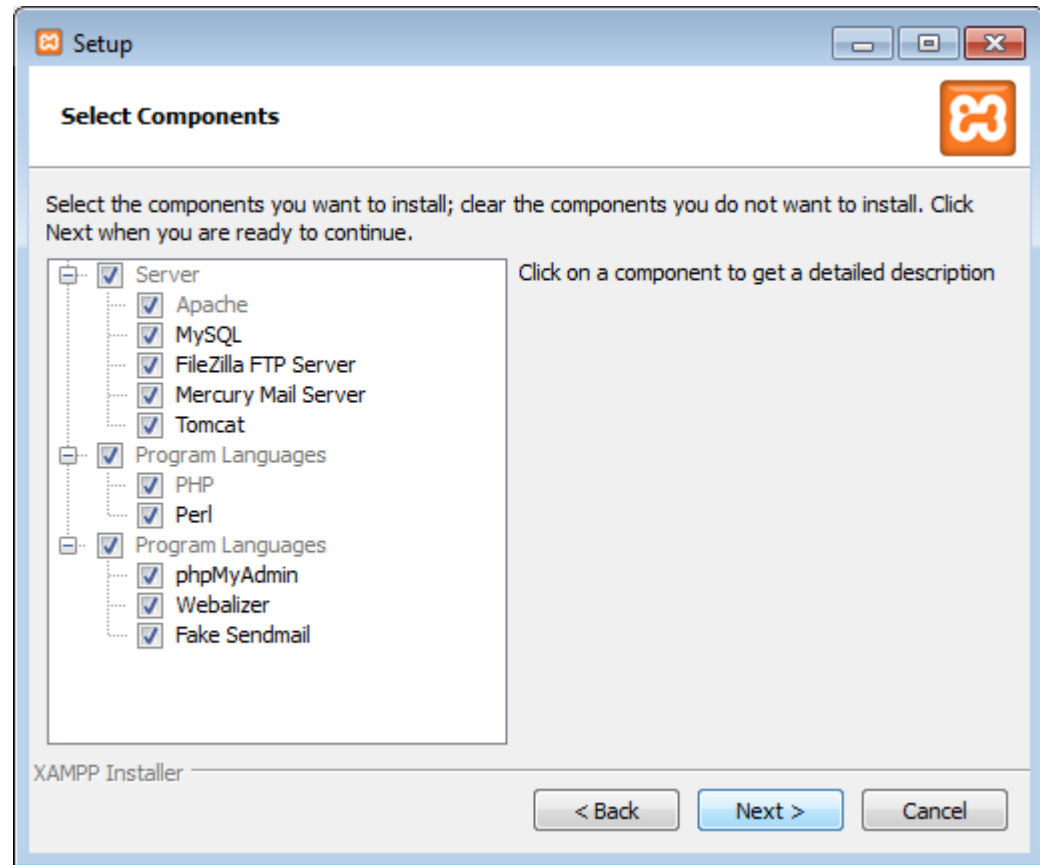


Begin installation

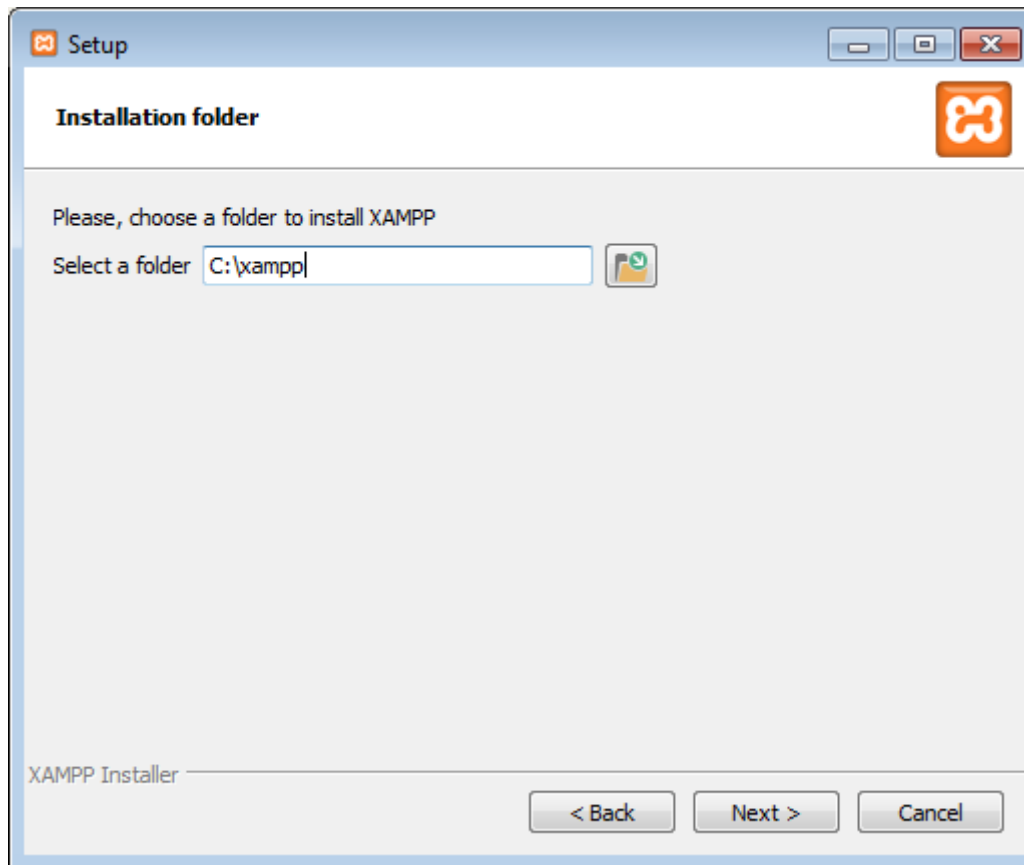


Only need Apache, MySQL, PHP, phpMyAdmin for this class.

No harm installing the whole nine yards if you have the disk space.

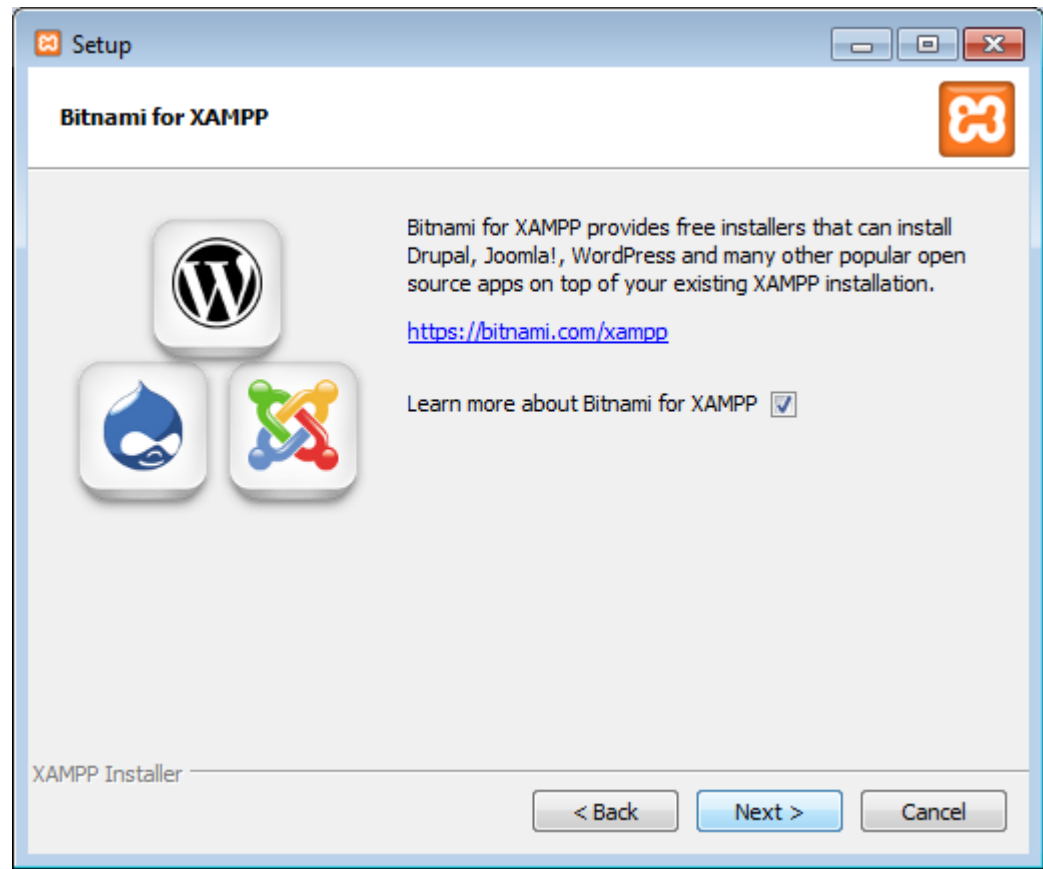


Accept the default install folder

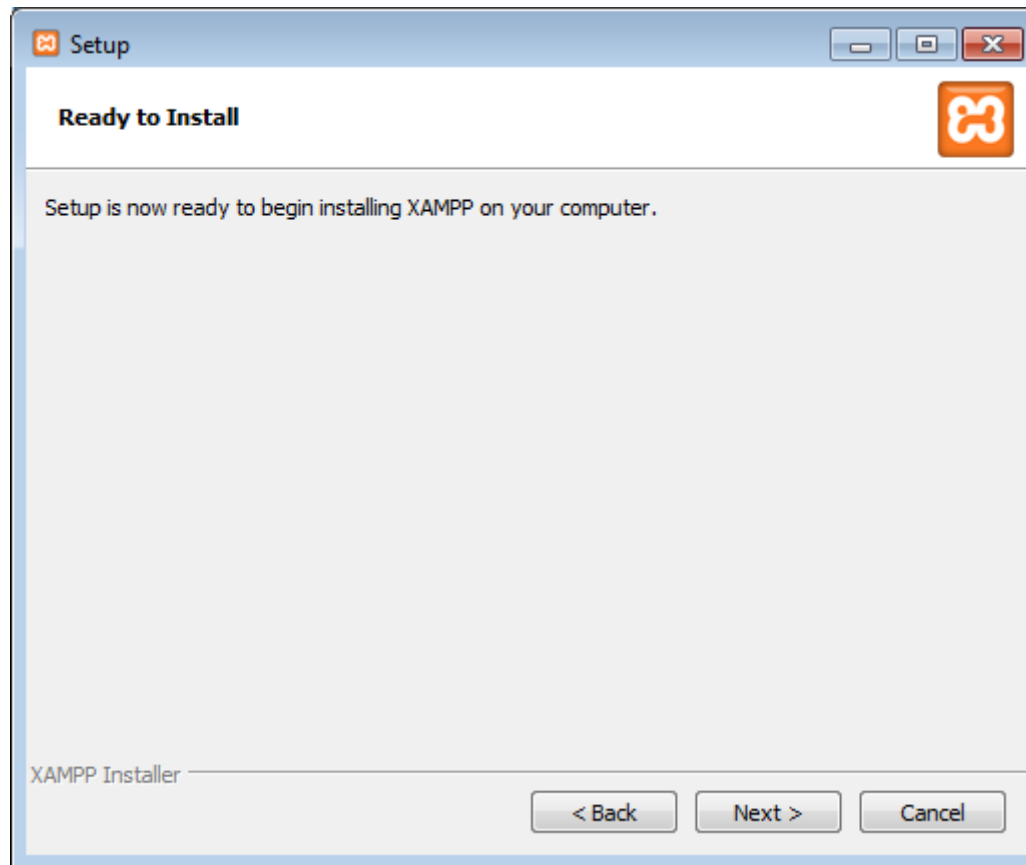


It will inform you about Bitnami

Ignore for now. We have a job to do.



Start install

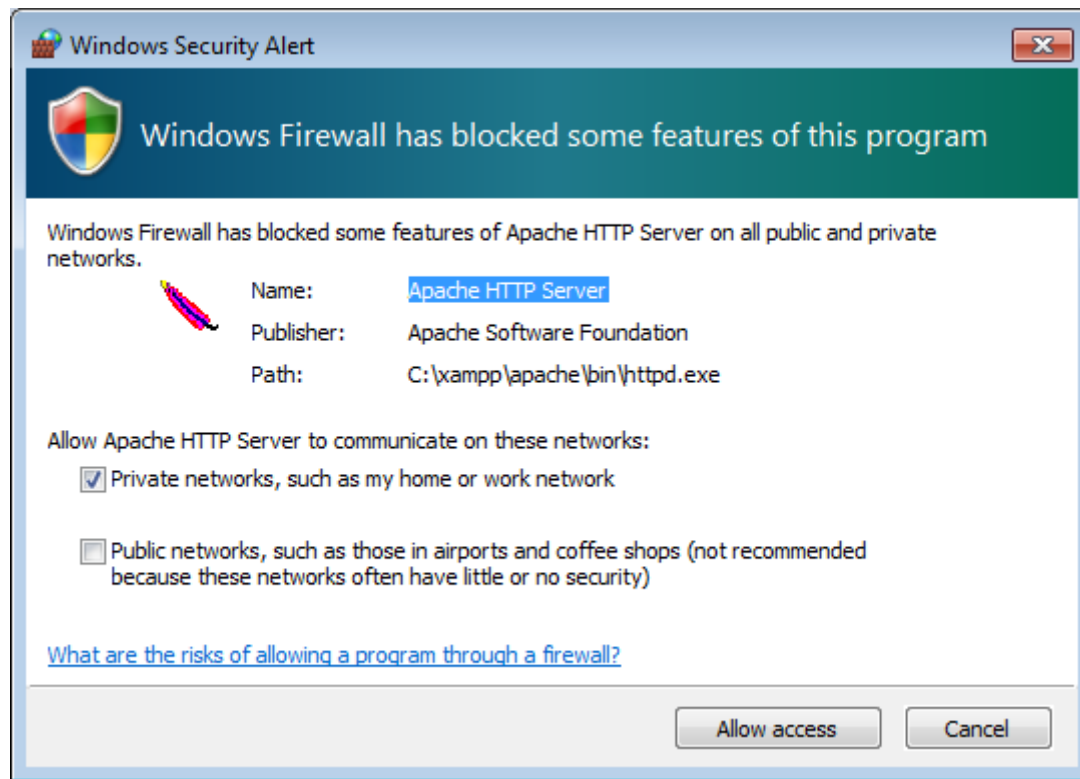


Installation in progress

Takes a few
minutes



If Windows firewall is on the job, you need to tell it it's OK. Best not check the Public networks box.

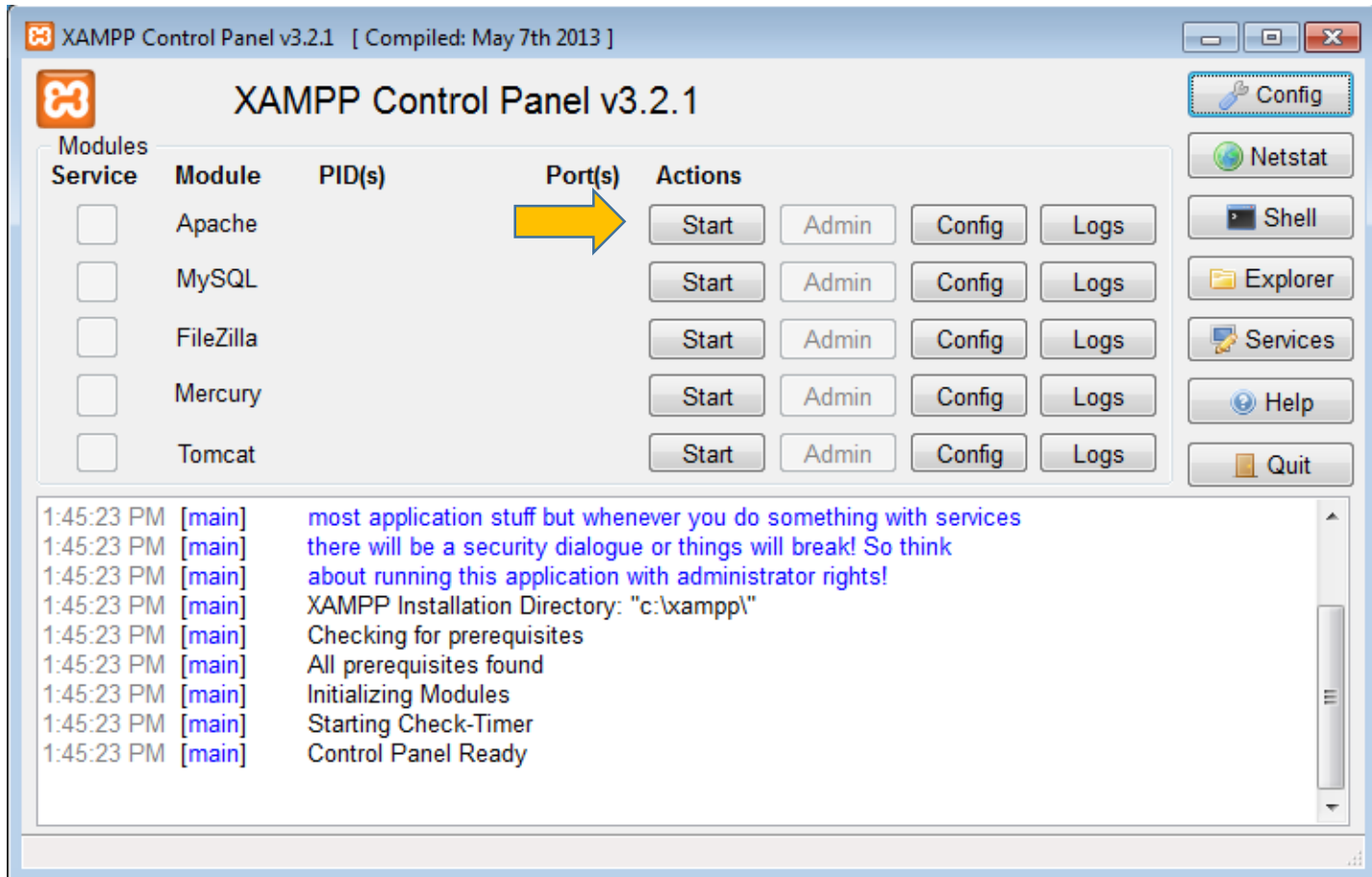


Done. Ready to play with it.



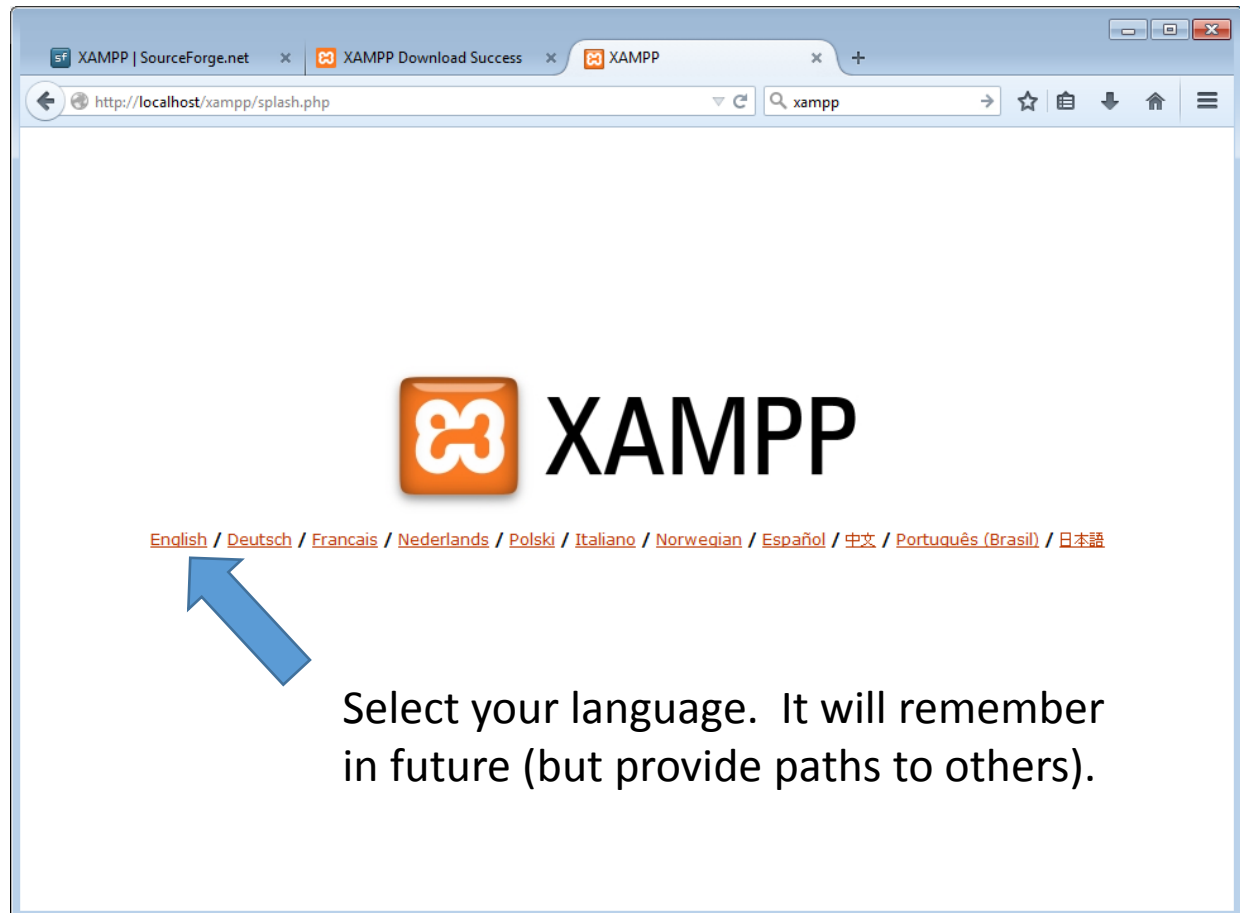
XAMPP control panel

Start Apache web server



Visit `http://localhost`

It works!



XAMPP home page (English)

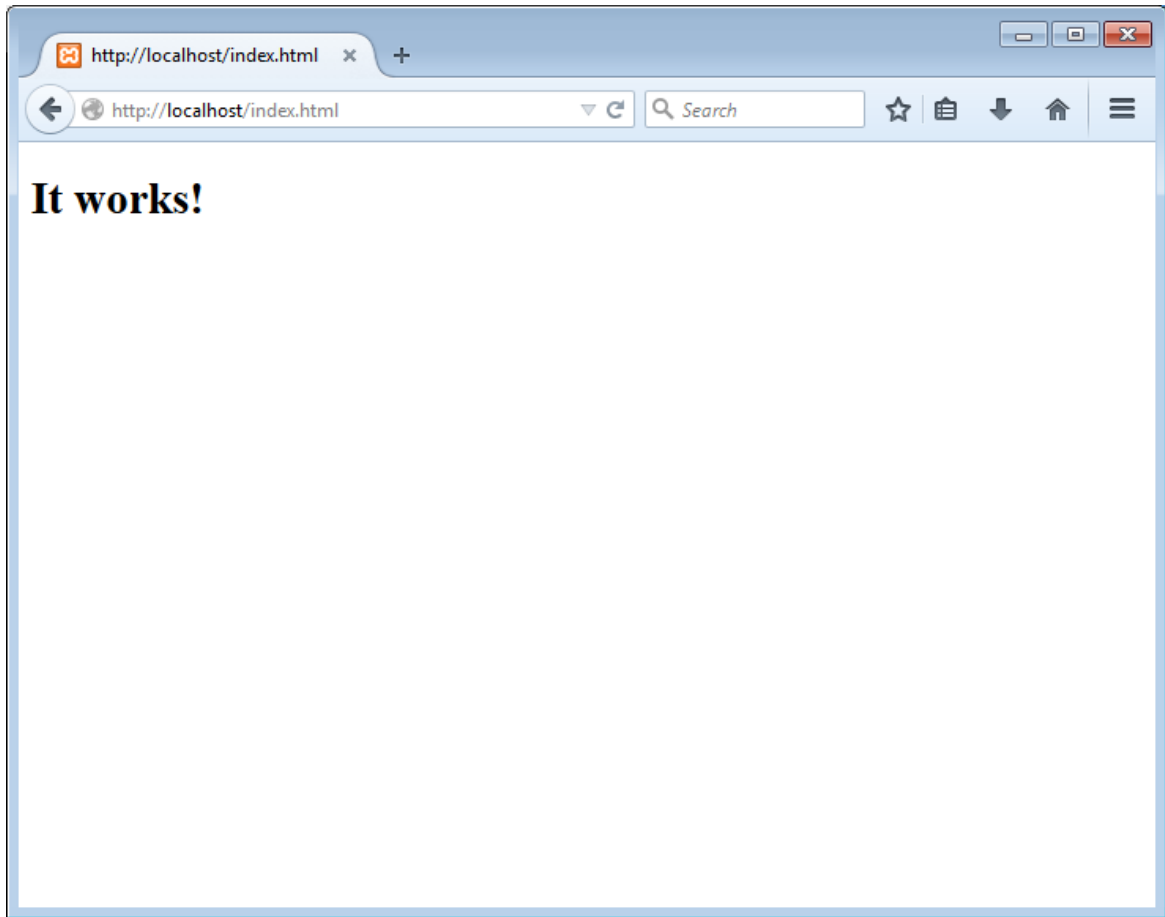


Another test

Document root contains both index.php and index.html.

Server is configured to give index.php preference, taking you to xampp area.

Add index.html onto URL to override default and get to this small test page.

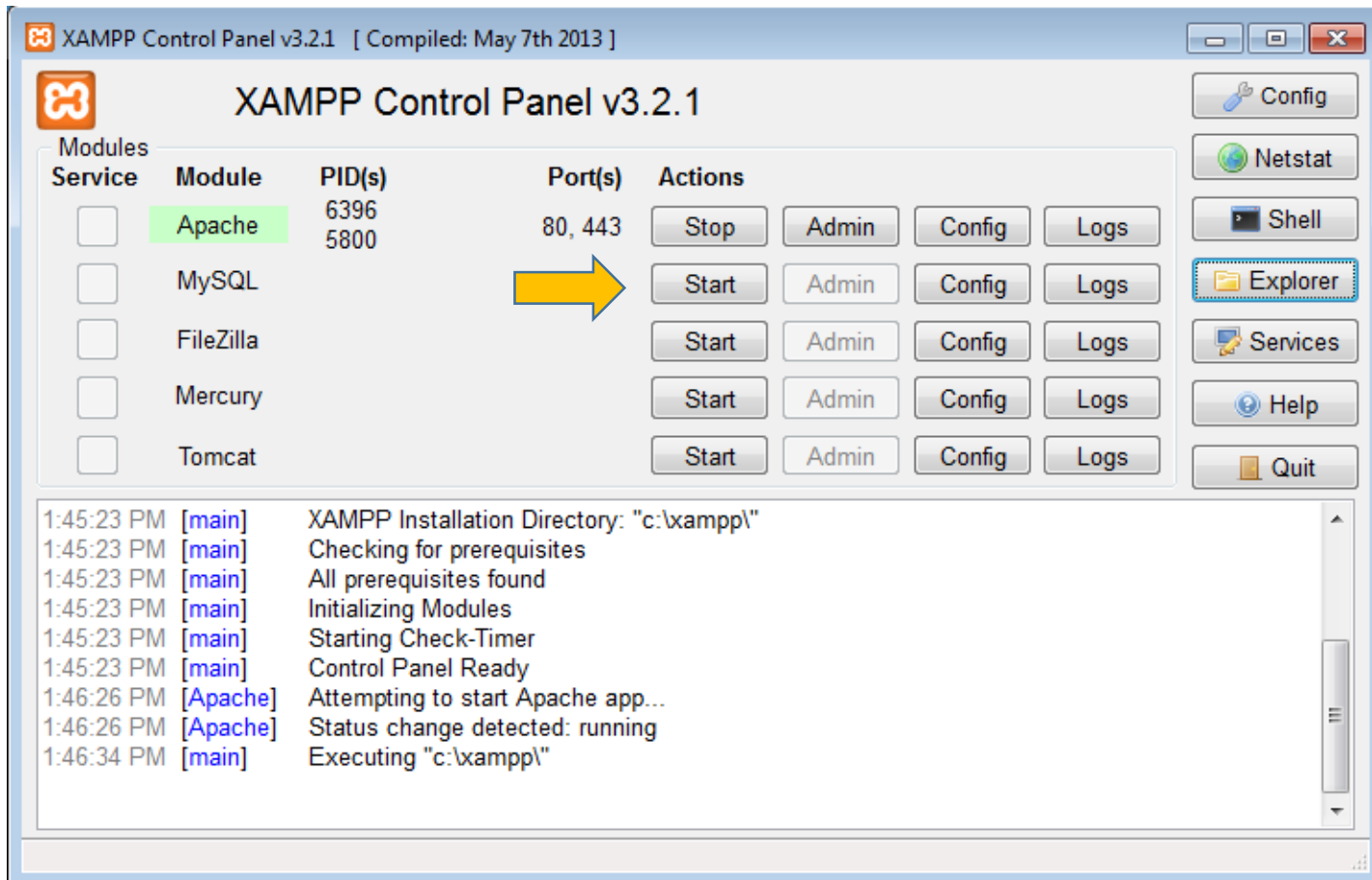


Viewing your site from elsewhere

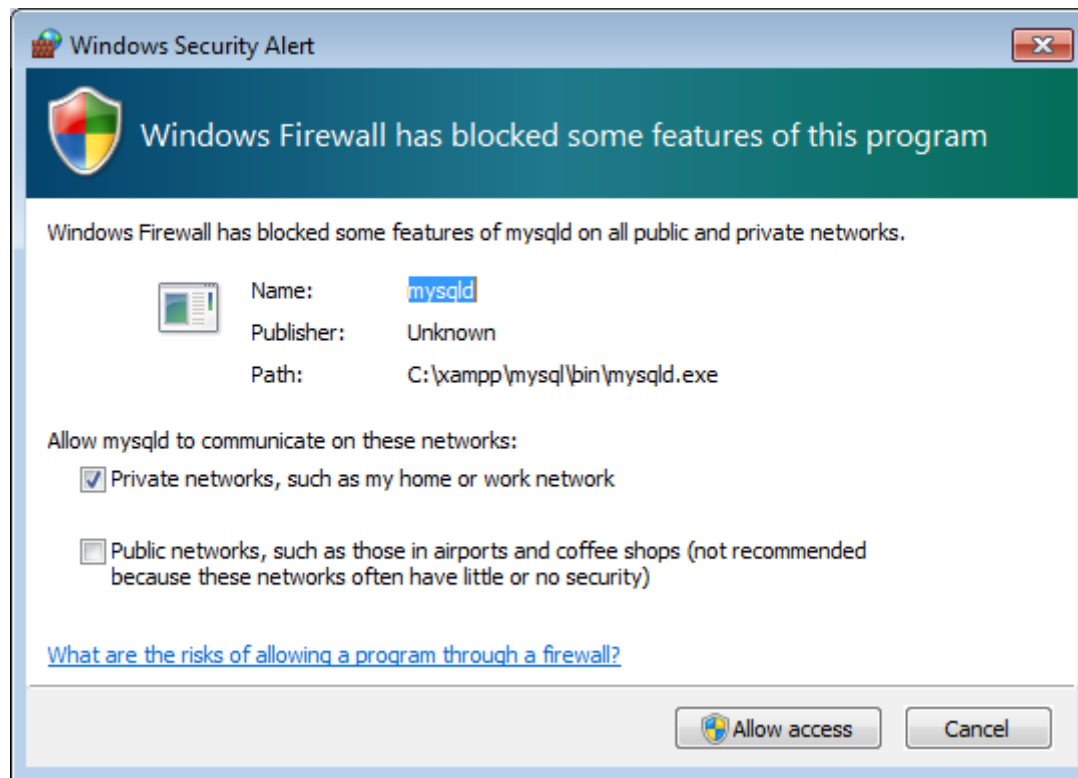
- Assuming you have a home network, want to let your mom view your site on her tablet via WiFi LAN.
- Use Run, enter command **ipconfig** to see your machine's IP address, or find it in network settings. Say, 192.168.1.3.
- If mom visits <http://192.168.1.3/index.html> , she will see the “It works!” test page.
- However, the xampp area is protected, only viewable from localhost.

Back to control panel

Start MySQL database server



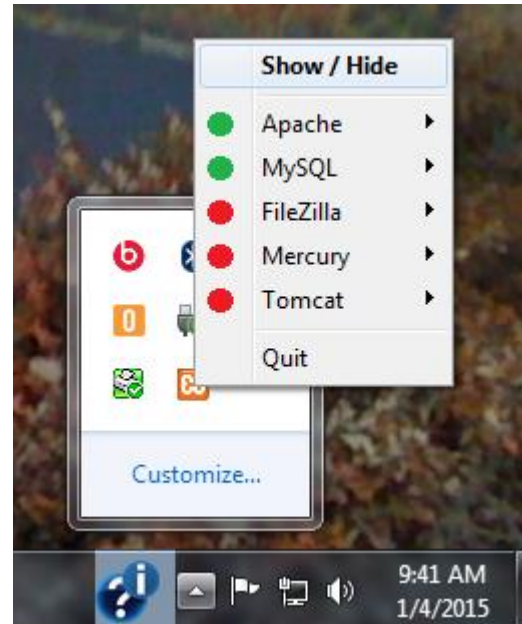
Again, Windows Firewall may pop up



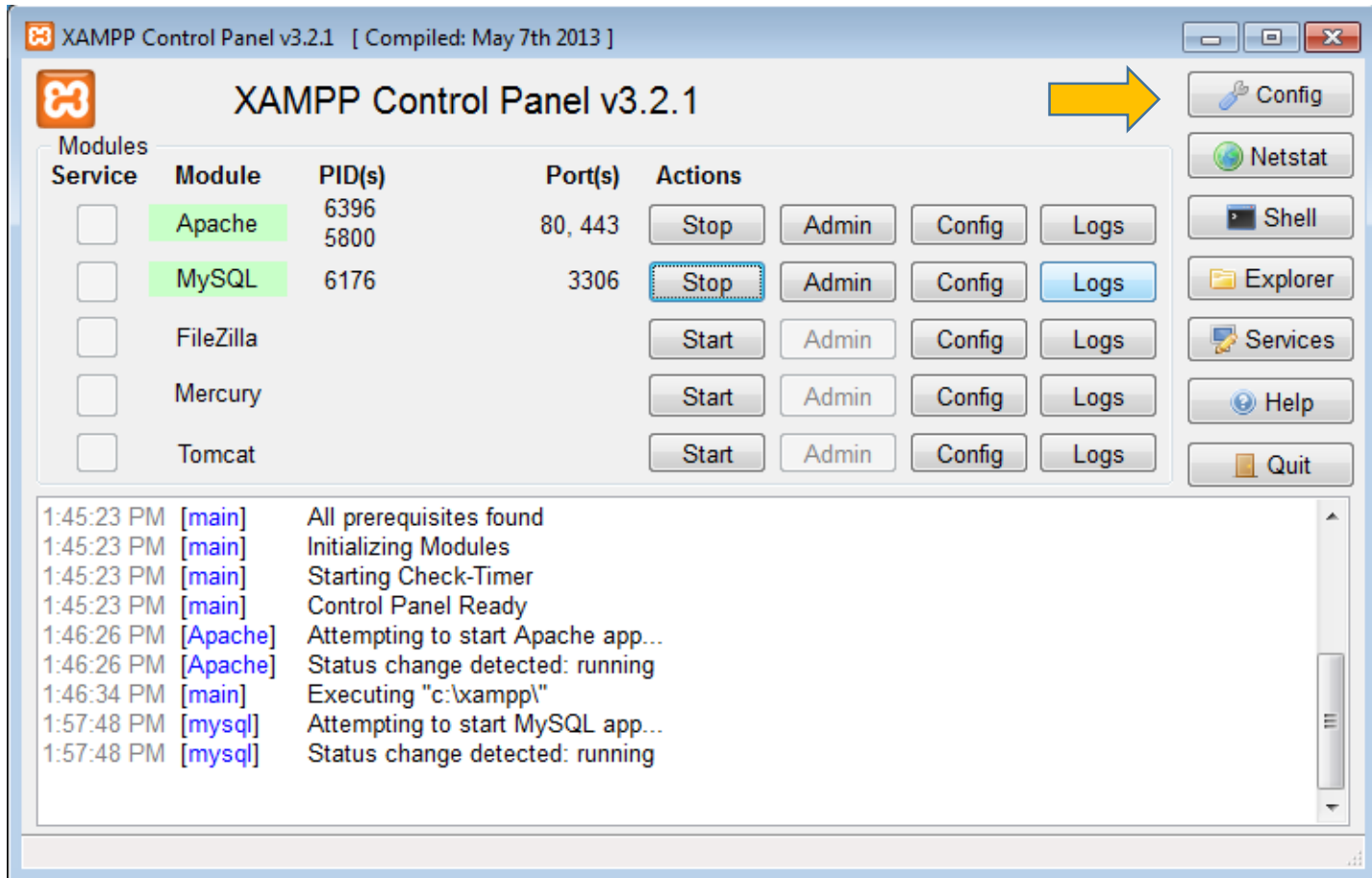
Control also from taskbar icon

Located in lower right of screen, near USB and Bluetooth controls.

Right-click icon to bring up menu.

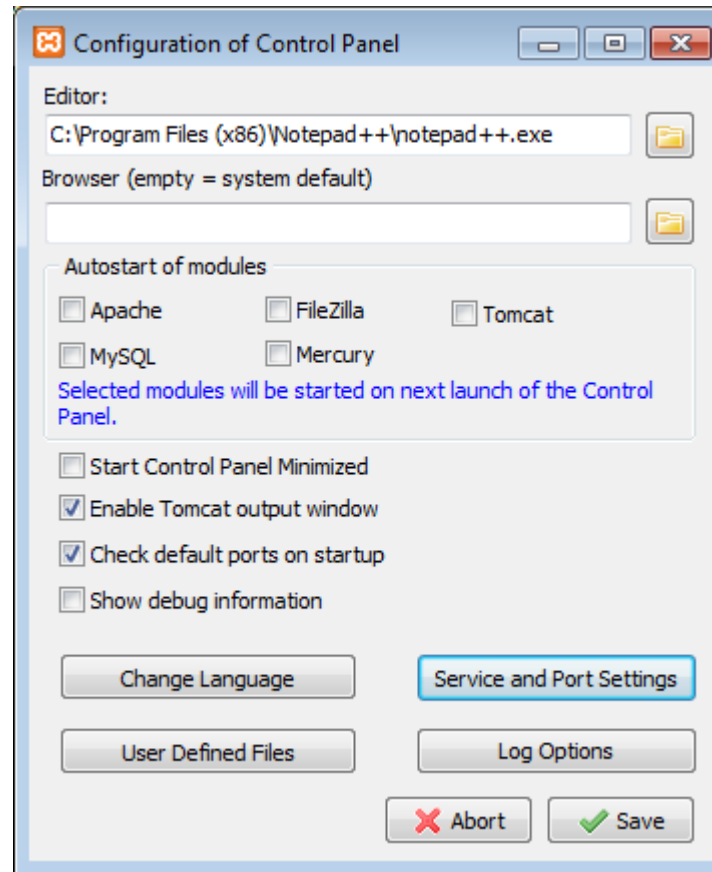


Configure control panel



Set default text editor

Will be used to edit
configuration files.
Do NOT use Word
or WordPad!



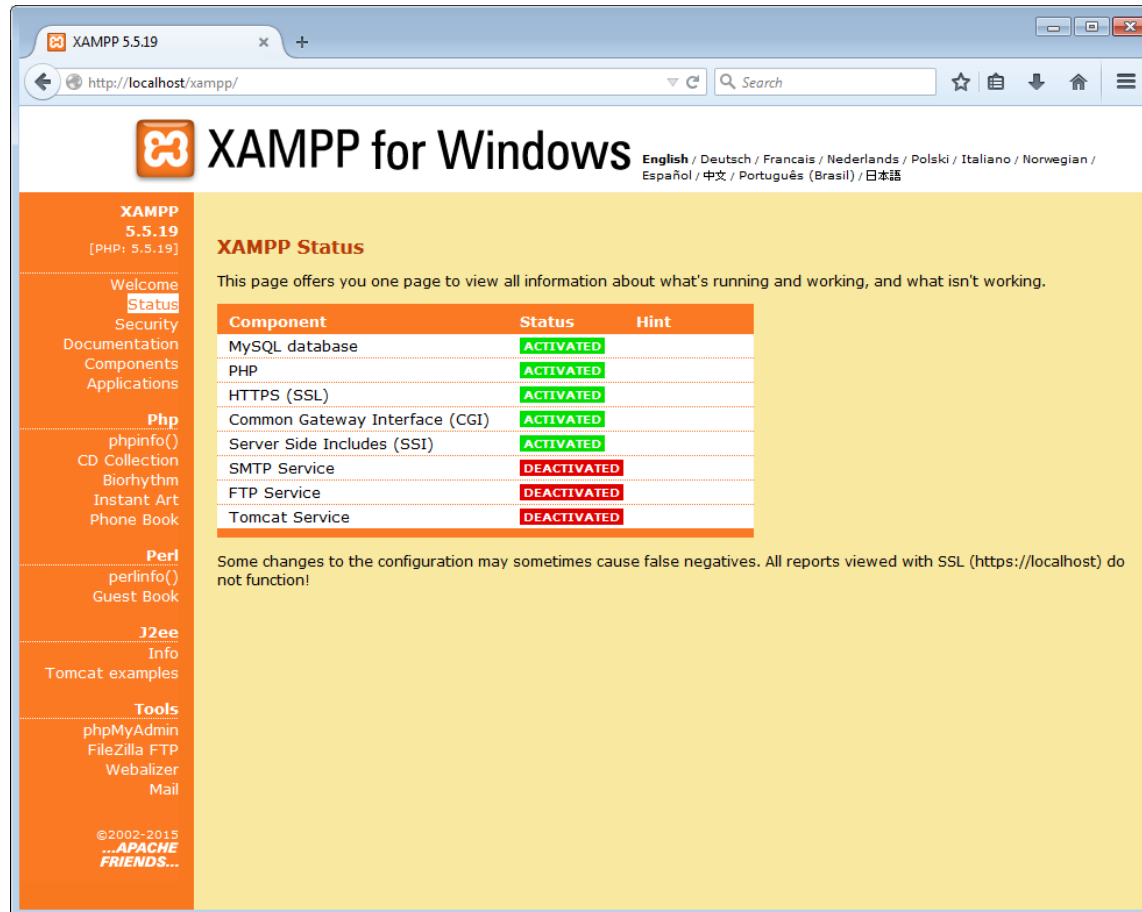
Text editor

- By the way, I recommend Notepad++ to edit configuration files and HTML or PHP code
 - Syntax-aware color coding
 - Edit multiple buffers at one time
 - Regular expression search/replace
- Get it from
<http://notepad-plus-plus.org/>

Now let's check status



Everything we need is running



The screenshot shows the XAMPP 5.5.19 Status page in a web browser. The browser's address bar shows the URL `http://localhost/xampp/`. The page title is "XAMPP for Windows". The main content area is titled "XAMPP Status" and contains a table with the following data:

| Component | Status | Hint |
|--------------------------------|-------------|------|
| MySQL database | ACTIVATED | |
| PHP | ACTIVATED | |
| HTTPS (SSL) | ACTIVATED | |
| Common Gateway Interface (CGI) | ACTIVATED | |
| Server Side Includes (SSI) | ACTIVATED | |
| SMTP Service | DEACTIVATED | |
| FTP Service | DEACTIVATED | |
| Tomcat Service | DEACTIVATED | |

Below the table, a note states: "Some changes to the configuration may sometimes cause false negatives. All reports viewed with SSL (`https://localhost`) do not function!"

The left sidebar contains a navigation menu with the following links:

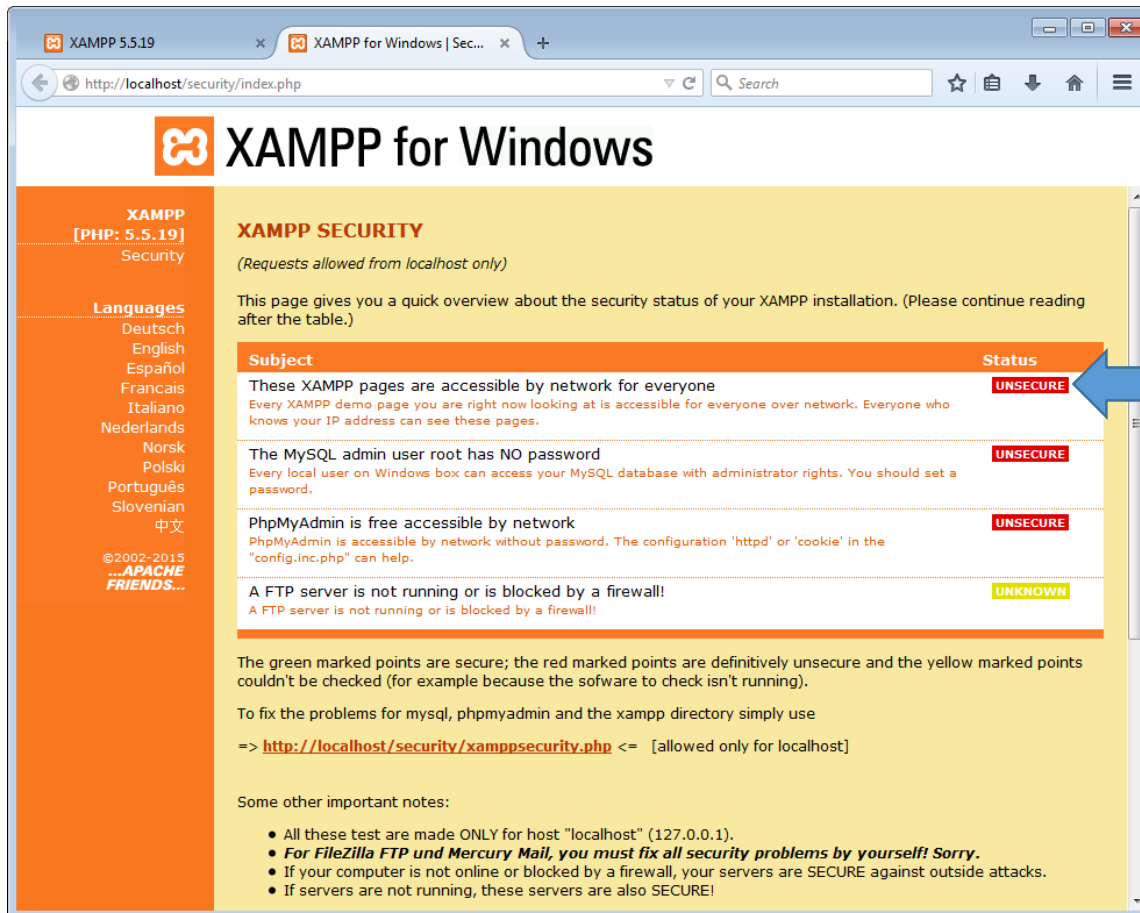
- Welcome
- Status
- Security
- Documentation
- Components
- Applications
- Php
 - phpinfo()
 - CD Collection
 - Biorhythm
 - Instant Art
 - Phone Book
- Perl
 - perlinfo()
 - Guest Book
- J2ee
 - Info
 - Tomcat examples
- Tools
 - phpMyAdmin
 - FileZilla FTP
 - Webalizer
 - Mail

At the bottom of the sidebar, the copyright notice reads: "©2002-2015 ...APACHE FRIENDS..."

Security!!!



Security assessment.



XAMPP for Windows

XAMPP SECURITY
(Requests allowed from localhost only)

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

| Subject | Status |
|---|----------|
| 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 see these pages. | UNSECURE |
| 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. | UNSECURE |
| 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. | UNSECURE |
| A FTP server is not running or is blocked by a firewall! A FTP server is not running or is blocked by a firewall! | UNKNOWN |

The green marked points are secure; the red marked points are definitively unsecure and the yellow marked points couldn't be checked (for example because the 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]

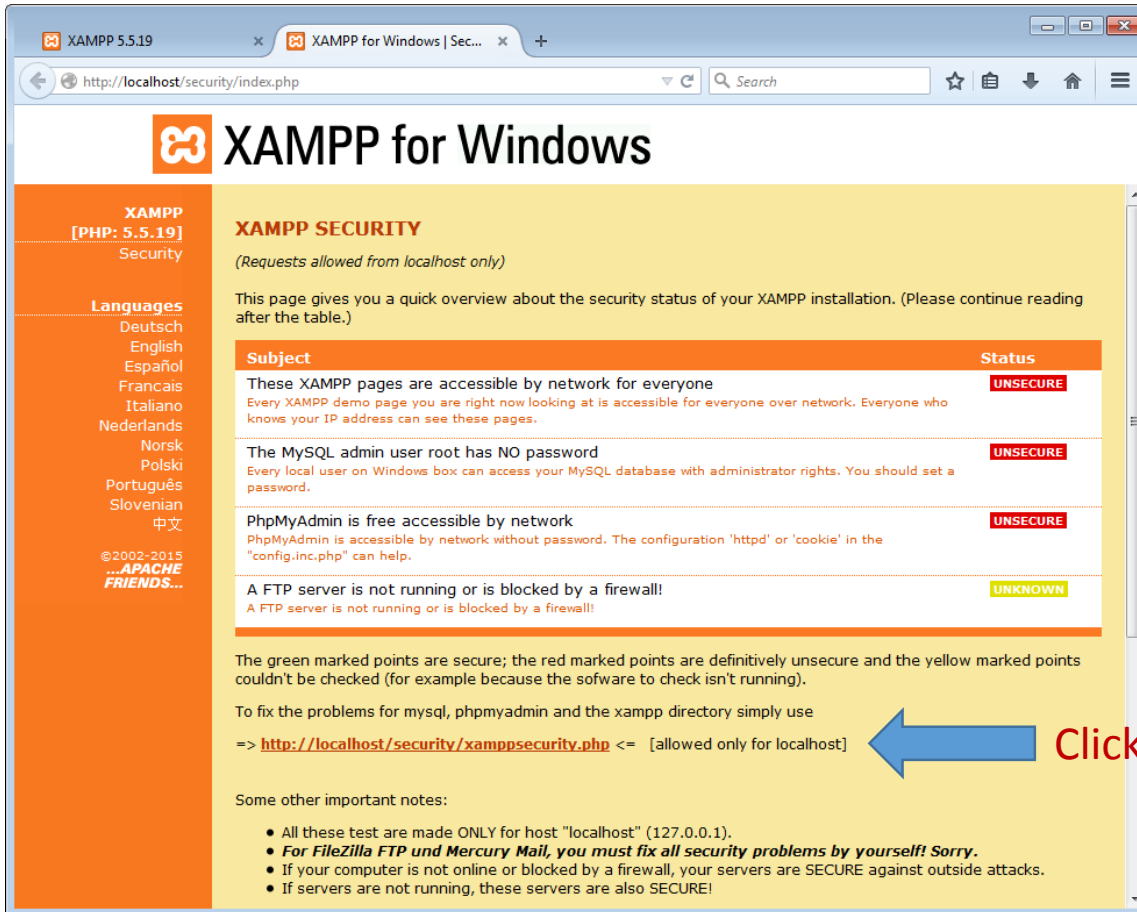
Some other important notes:

- All these test are made ONLY for host "localhost" (127.0.0.1).
- **For FileZilla FTP and Mercury Mail, you must fix all security problems by yourself! Sorry.**
- If your computer is not online or blocked by a firewall, your servers are SECURE against outside attacks.
- If servers are not running, these servers are also SECURE!

Actually this is not true.
New XAMPP security
concept restricts all
sensitive directories to
localhost.

See C:\xampp\apache\conf\extra\httpd-xampp.conf

Let's tighten security.



XAMPP for Windows

XAMPP [PHP: 5.5.19] Security

Languages
Deutsch
English
Español
Français
Italiano
Nederlands
Norsk
Polski
Português
Slovenian
中文

©2002-2015
...APACHE
FRIENDS...

XAMPP SECURITY

(Requests allowed from localhost only)

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

| Subject | Status |
|--|-----------------|
| 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 see these pages. | UNSECURE |
| 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. | UNSECURE |
| 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. | UNSECURE |
| A FTP server is not running or is blocked by a firewall! A FTP server is not running or is blocked by a firewall! | UNKNOWN |

The green marked points are secure; the red marked points are definitively unsecure and the yellow marked points couldn't be checked (for example because the 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]

Some other important notes:

- All these test are made ONLY for host "localhost" (127.0.0.1).
- **For FileZilla FTP and Mercury Mail, you must fix all security problems by yourself! Sorry.**
- If your computer is not online or blocked by a firewall, your servers are SECURE against outside attacks.
- If servers are not running, these servers are also SECURE!

Click here to fix security issues

Set MySQL “root” password



The screenshot shows the XAMPP for Windows Security console in a web browser. The page title is "XAMPP for Windows" and the URL is "http://localhost/security/index.php". The left sidebar contains links for "XAMPP [PHP: 5.5.19] Security" and "Languages" (Deutsch, English, Español, Français, Italiano, Nederlands, Norsk, Polski, Português, Slovenian, 中文). The main content area is titled "Security console MySQL & XAMPP directory protection". Under the "MYSQL SECTION: 'ROOT' PASSWORD", there are fields for "MySQL SuperUser:" (root), "Current password:" (empty), "New password:" (masked with dots), and "Repeat the new password:" (masked with dots). Below these are radio buttons for "PhpMyAdmin authentication:" (http and cookie). A "Password changing" button is at the bottom of this section. A red arrow points to a checkbox labeled "Safe plain password in text file?" (File: C:\xampp\security\security\mysqlrootpasswd.txt) with the text "DO NOT CHECK THIS BOX!". The bottom section is titled "XAMPP DIRECTORY PROTECTION (.htaccess)" and has fields for "User:" and "Password:". It also has a checkbox for "Safe plain password in text file?" (File: C:\xampp\security\security\xamppdirpasswd.txt).

XAMPP 5.5.19

XAMPP for Windows | Sec...

http://localhost/security/index.php

XAMPP for Windows

XAMPP [PHP: 5.5.19] Security

Languages

Deutsch

English

Español

Français

Italiano

Nederlands

Norsk

Polski

Português

Slovenian

中文

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Security console MySQL & XAMPP directory protection

MYSQL SECTION: "ROOT" PASSWORD

MySQL SuperUser: root

Current password:

New password:

Repeat the new password:

PhpMyAdmin authentication: http cookie

---- Security risk! ----

Safe plain password in text file? ☐ DO NOT CHECK THIS BOX!

(File: C:\xampp\security\security\mysqlrootpasswd.txt)

Password changing

XAMPP DIRECTORY PROTECTION (.htaccess)

User:

Password:

---- Security risk! ----

Safe plain password in text file? ☐

(File: C:\xampp\security\security\xamppdirpasswd.txt)

Password changed. In control panel, restart MySQL for it to take effect.



The screenshot shows the XAMPP for Windows Security console in a web browser. The browser's address bar shows the URL `http://localhost/security/index.php`. The page has a yellow background and a blue header with the XAMPP logo and title. A left sidebar contains navigation links for XAMPP, Languages, and a copyright notice. The main content area is titled "Security console MySQL & XAMPP directory protection" and contains the "MYSQL SECTION: 'ROOT' PASSWORD" section. This section displays a success message: "The root password was successfully changed. Please restart MYSQL for loading these changes!". Below the message, there are input fields for "MySQL SuperUser:" (set to "root"), "Current password:", "New password:", and "Repeat the new password:". There are also radio buttons for "PhpMyAdmin authentication:" (set to "cookie"). A "Password changing" button is located below the input fields. At the bottom, there is a section for "XAMPP DIRECTORY PROTECTION (.htaccess)" with input fields for "User:" and "Password:".

XAMPP 5.5.19

XAMPP for Windows | Security

http://localhost/security/index.php

XAMPP for Windows

XAMPP
[PHP: 5.5.19]
Security

Languages
Deutsch
English
Español
Français
Italiano
Nederlands
Norsk
Polski
Português
Slovenian
中文

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...APACHE
FRIENDS...

Security console MySQL & XAMPP directory protection

MYSQL SECTION: "ROOT" PASSWORD

The root password was successfully changed. Please restart MYSQL for loading these changes!

MySQL SuperUser: **root**

Current password:

New password:

Repeat the new password:

PhpMyAdmin authentication: ☐ http ☒ cookie

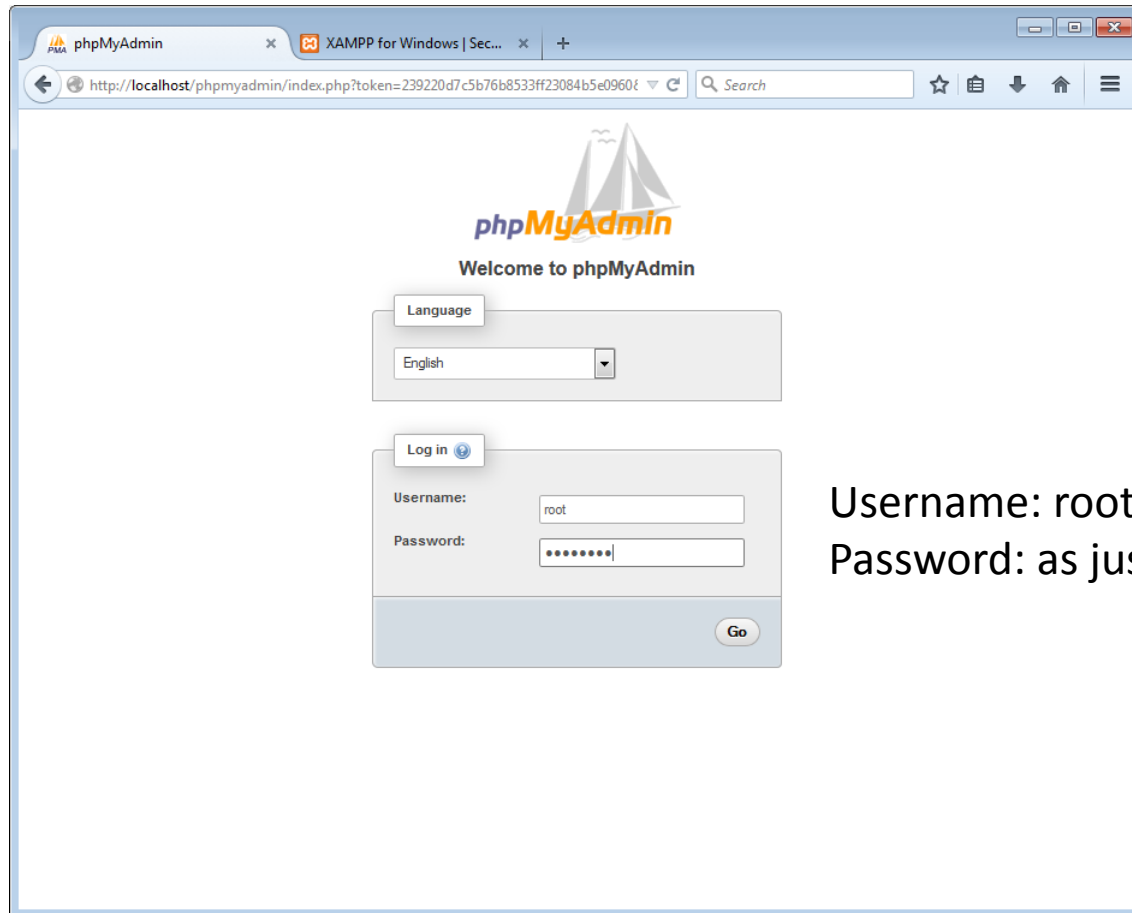
---- Security risk! ----
Safe plain password in text file? ☐
(File: C:\xampp\security\security\mysqlrootpasswd.txt)

XAMPP DIRECTORY PROTECTION (.htaccess)

User:

Password:

Visit phpMyAdmin from xampp home page.

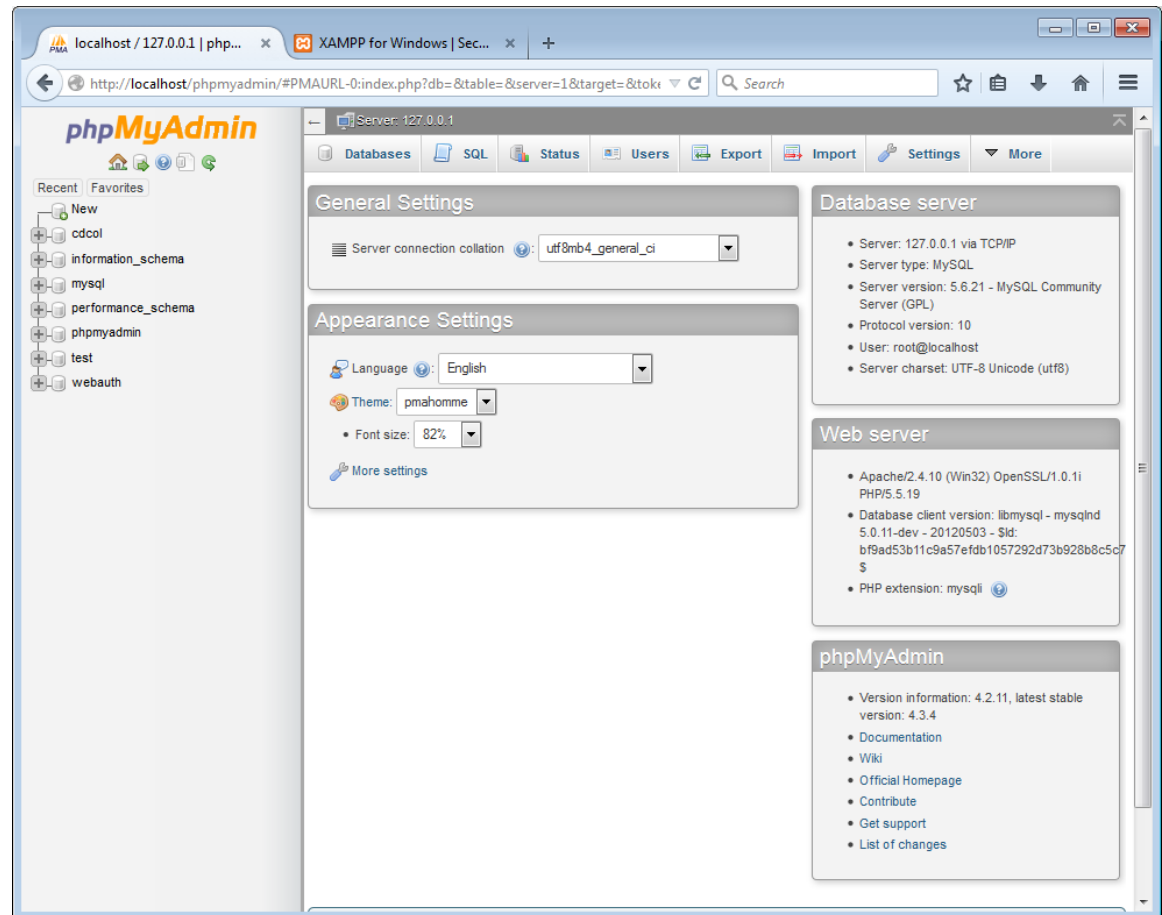


The screenshot shows a web browser window with the phpMyAdmin interface. The browser's address bar displays the URL `http://localhost/phpmyadmin/index.php?token=239220d7c5b76b8533ff23084b5e0960`. The page features the phpMyAdmin logo, which includes a stylized sailboat, and the text "Welcome to phpMyAdmin". Below the logo, there is a "Language" dropdown menu currently set to "English". Further down is a "Log in" section with a "Log in" button and a link icon. This section contains two input fields: "Username:" with the text "root" and "Password:" with masked characters (dots). A "Go" button is located at the bottom right of the login form.

Username: root
Password: as just set

phpMyAdmin home page

Use it to manage your MySQL databases.



Back to security: protect xampp directory

XAMPP 5.5.19 XAMPP for Windows | Sec...

http://localhost/security/index.php

XAMPP for Windows

XAMPP [PHP: 5.5.19] Security

Languages

- Deutsch
- English
- Español
- Français
- Italiano
- Nederlands
- Norsk
- Polski
- Português
- Slovenian
- 中文

©2002-2015 ...**APACHE FRIENDS...**

MYSQL SECTION: "ROOT" PASSWORD

The root password was successfully changed. Please restart MYSQL for loading these changes!

MySQL SuperUser: **root**

Current password:

New password:

Repeat the new password:

PhpMyAdmin authentication: ☐ http ☒ cookie

---- Security risk! ----

Safe plain password in text file? ☐
(File: C:\xampp\security\security\mysqlrootpasswd.txt)

Password changing

XAMPP DIRECTORY PROTECTION (.htaccess)

User:

Password:

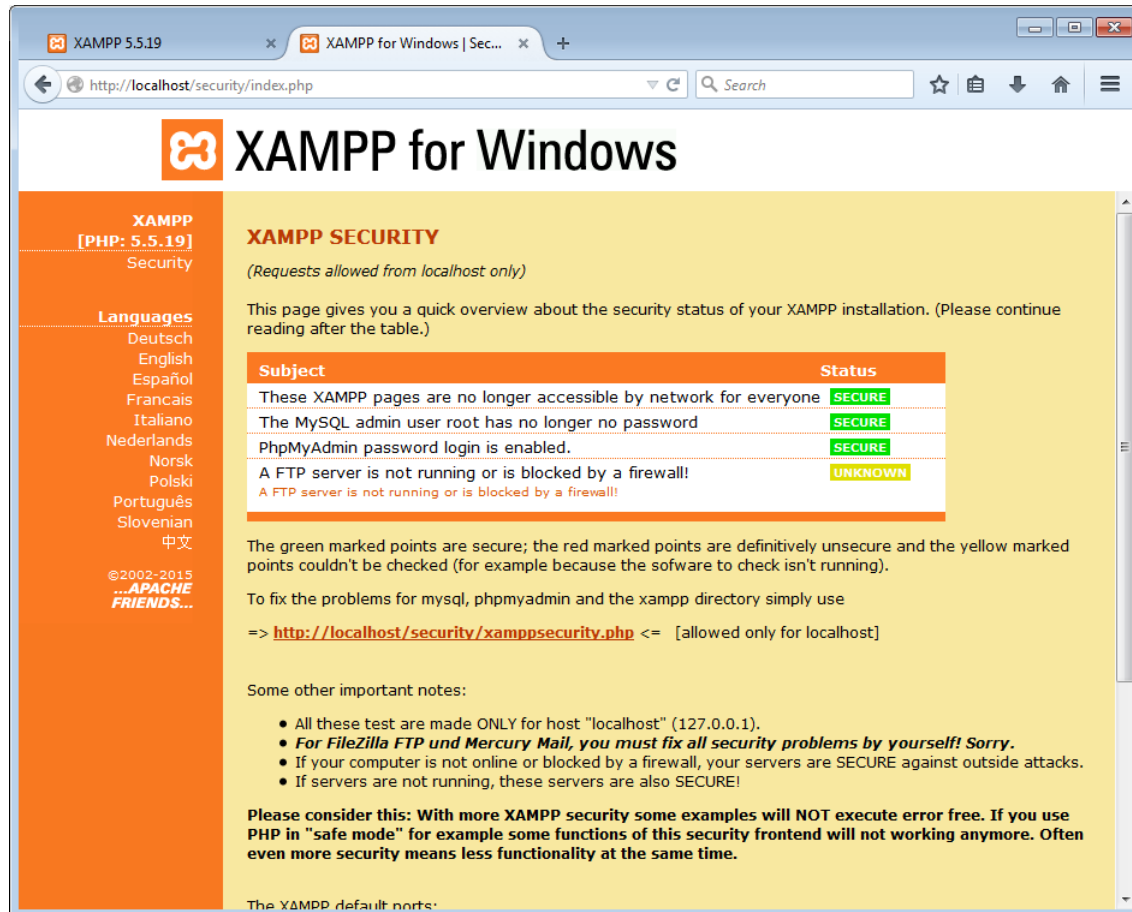
---- Security risk! ----

Safe plain password in text file? ☐
(File: C:\xampp\security\security\xamppdirpasswd.txt)

Make safe the XAMPP directory

Invent a username
Create a password
DO NOT CHECK THIS BOX!

All systems secure.



XAMPP for Windows

XAMPP SECURITY
(Requests allowed from localhost only)

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

| Subject | Status |
|--|---------|
| These XAMPP pages are no longer accessible by network for everyone | SECURE |
| The MySQL admin user root has no longer no password | SECURE |
| PhpMyAdmin password login is enabled. | SECURE |
| A FTP server is not running or is blocked by a firewall! A FTP server is not running or is blocked by a firewall! | UNKNOWN |

The green marked points are secure; the red marked points are definitively unsecure and the yellow marked points couldn't be checked (for example because the 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]

Some other important notes:

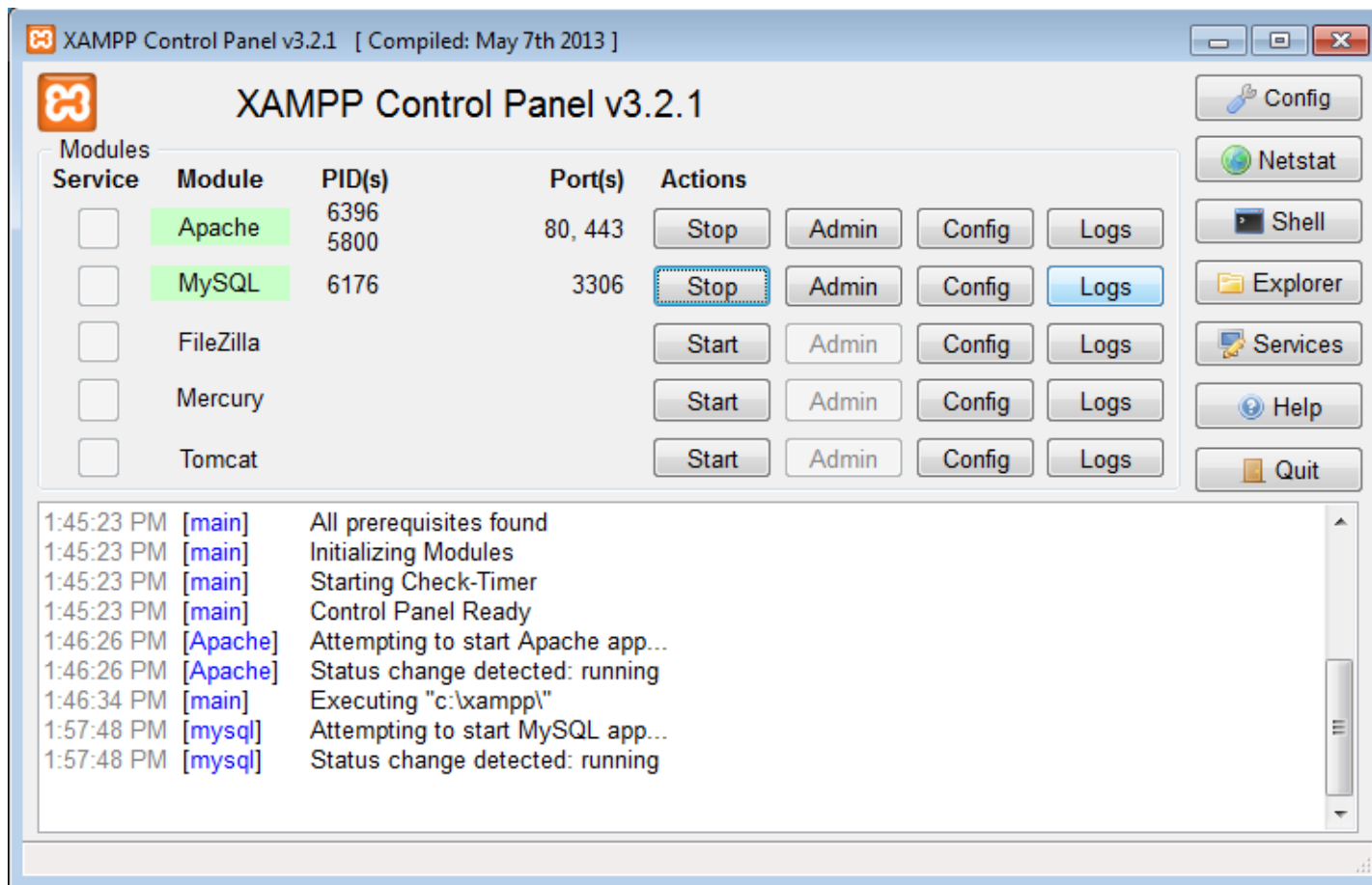
- All these test are made ONLY for host "localhost" (127.0.0.1).
- **For FileZilla FTP und Mercury Mail, you must fix all security problems by yourself! Sorry.**
- If your computer is not online or blocked by a firewall, your servers are SECURE against outside attacks.
- If servers are not running, these servers are also SECURE!

Please consider this: With more XAMPP security some examples will NOT execute error free. If you use PHP in "safe mode" for example some functions of this security frontend will not working anymore. Often even more security means less functionality at the same time.

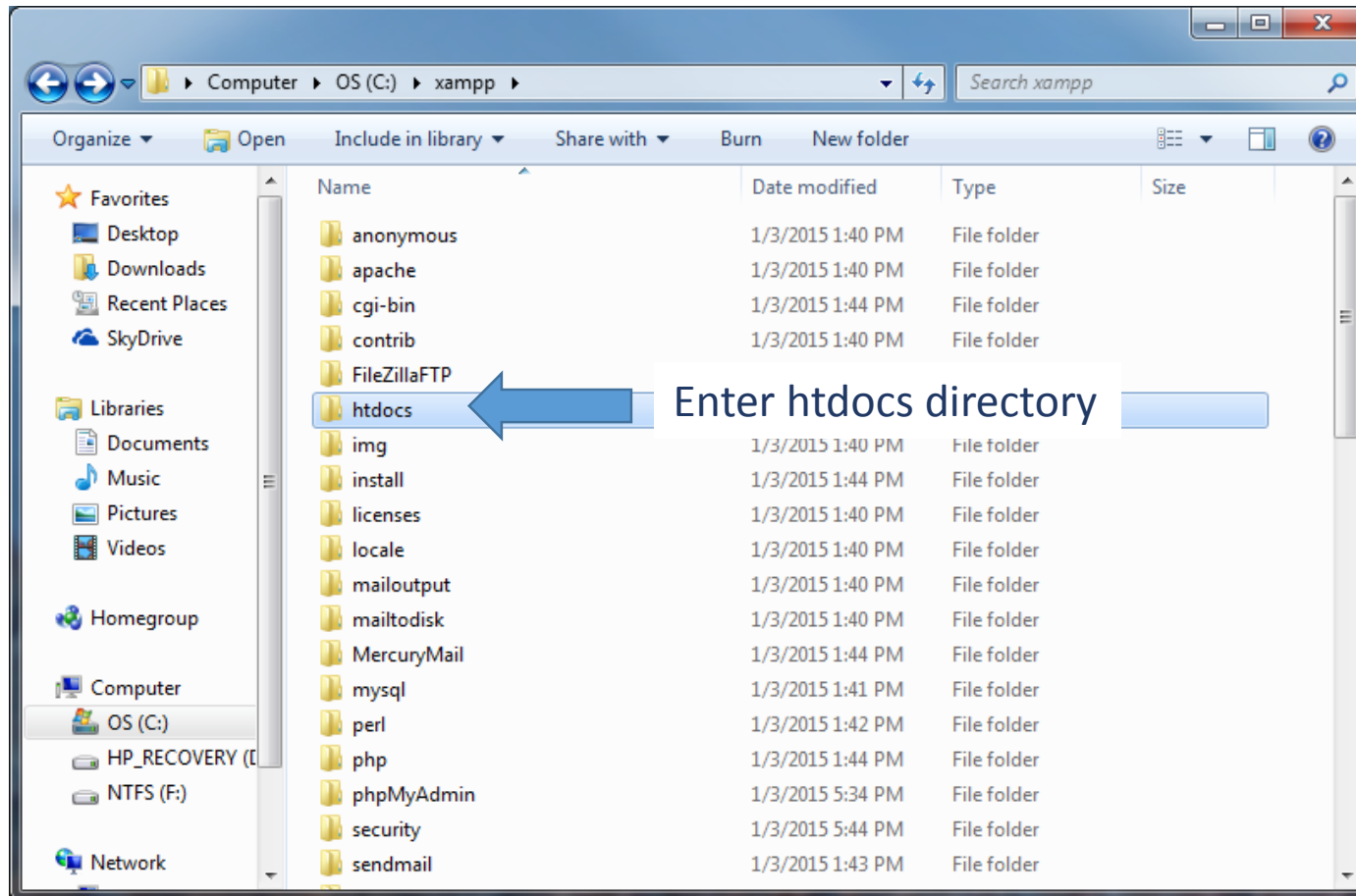
The XAMPP default ports:

Taking ownership

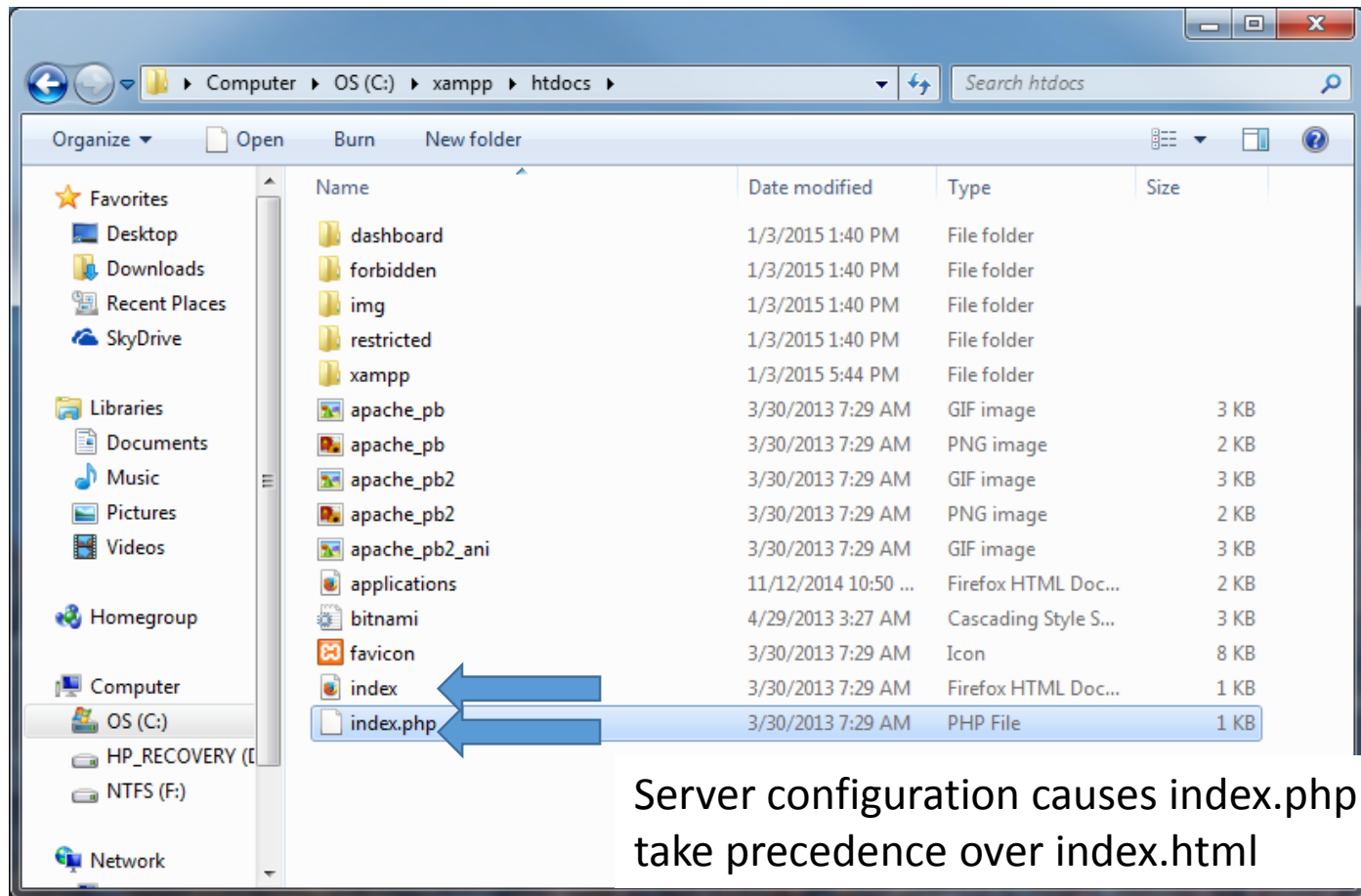
- Document root is C:\xampp\htdocs
 - Get there using Explorer on XAMPP console



XAMPP installation directory



Document root: C:\xampp\htdocs



Rename index.php to something like index-orig.php so it will no longer be used by default.

You can still get to xampp page by giving URL <http://localhost/xampp>

Now server defaults to index.html

Edit this file to customize your site.

