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**Lab Exercise 06 – Server Side Programming Using PHP**

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**Objectives**

By the end of this lab session, you will familiar with introduction to Server Side Programming using PHP.

**Introduction**

- Web Clients

A **web client** is an application that communicates with a **web** server, using Hypertext Transfer Protocol (HTTP). It typically refers to the Web browser in the user's machine. It may also refer to plug-ins and helper applications that enhance the browser to support special services from the site. The term may imply the entire user machine or refer to a handheld device that provides Web access.

- Web Servers

A Web [server](#) is a program that uses [HTTP](#) (Hypertext Transfer Protocol) to serve the files that form Web pages to users, in response to their requests, which are forwarded by their computers' HTTP clients. This stores all the web contents.

- What's XAMPP?

XAMPP is a [free and open-source cross-platform web server solution stack](#) package developed by Apache Friends, consisting mainly of the [Apache HTTP Server](#), [MariaDB database](#), and [interpreters](#) for scripts written in the [PHP](#) and [Perl programming languages](#).

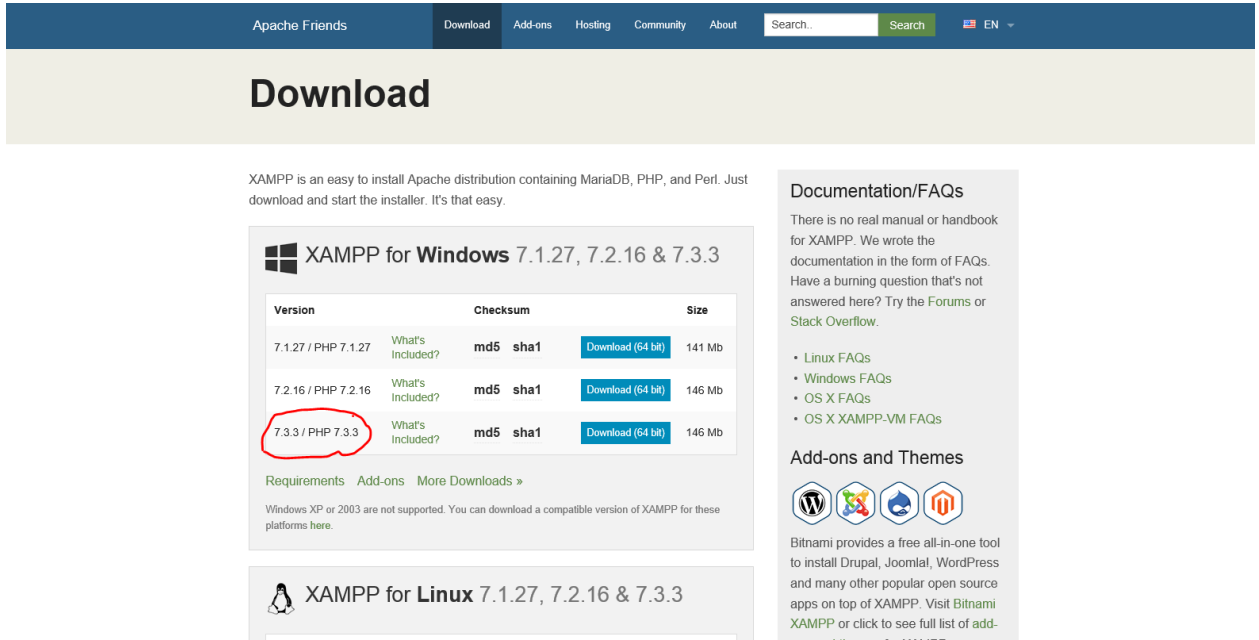
**Exercise 1:**

1. Write down available popular web servers.

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2. Use following link to download XAMPP

<https://www.apachefriends.org/download.html>



The screenshot shows the Apache Friends website's download page for XAMPP. The page has a dark blue header with navigation links: Apache Friends, Download, Add-ons, Hosting, Community, and About. A search bar is on the right. Below the header, a large yellow banner reads "Download".

Below the banner, a text block states: "XAMPP is an easy to install Apache distribution containing MariaDB, PHP, and Perl. Just download and start the installer. It's that easy."

The main content area is titled "XAMPP for Windows 7.1.27, 7.2.16 & 7.3.3". It contains a table with the following data:

Version	Checksum	Size
7.1.27 / PHP 7.1.27	md5 sha1	141 Mb
7.2.16 / PHP 7.2.16	md5 sha1	146 Mb
7.3.3 / PHP 7.3.3	md5 sha1	146 Mb

The row for version 7.3.3 is circled in red. Each row has a "Download (64 bit)" button. To the right of the table are links for "Requirements", "Add-ons", and "More Downloads".

Below the table, 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, there is a section for "XAMPP for Linux 7.1.27, 7.2.16 & 7.3.3".

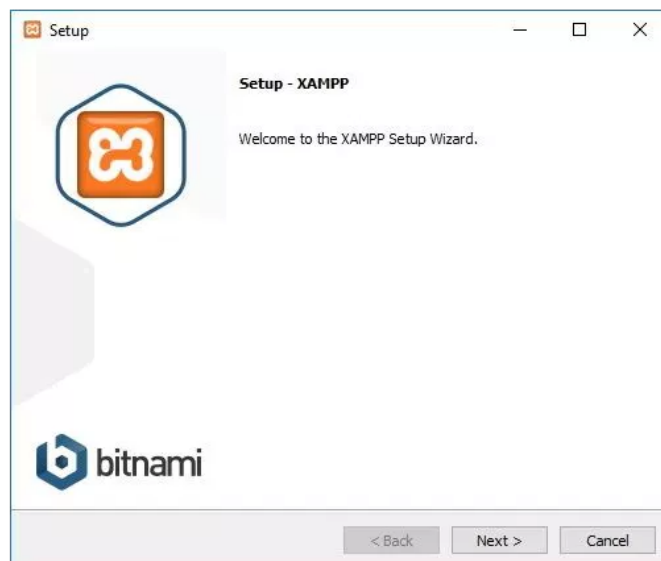
On the right side of the page, there is a "Documentation/FAQs" section with a note: "There is no real manual or handbook for XAMPP. We wrote the documentation in the form of FAQs. Have a burning question that's not answered here? Try the Forums or Slack Overflow." Below this are links for "Linux FAQs",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

Below that is an "Add-ons and Themes" section with icons for WordPress, Joomla!, Drupal, and Magento. A note states: "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."

3. Use following steps to install XAMPP.

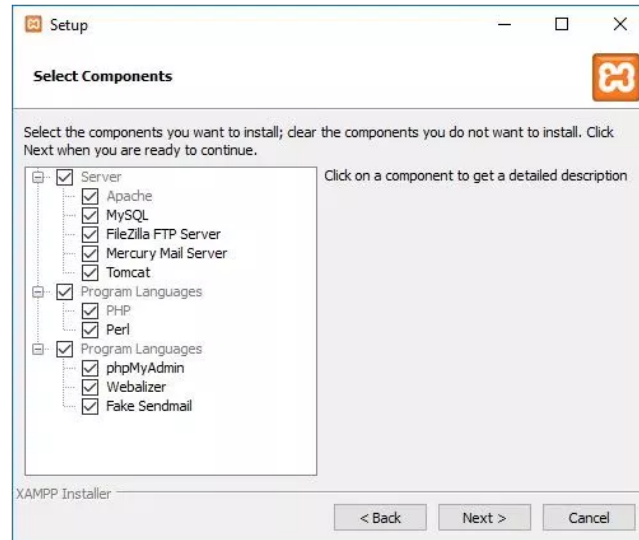
**Step 1:** Double click the downloaded .exe file.

**Step 2:**

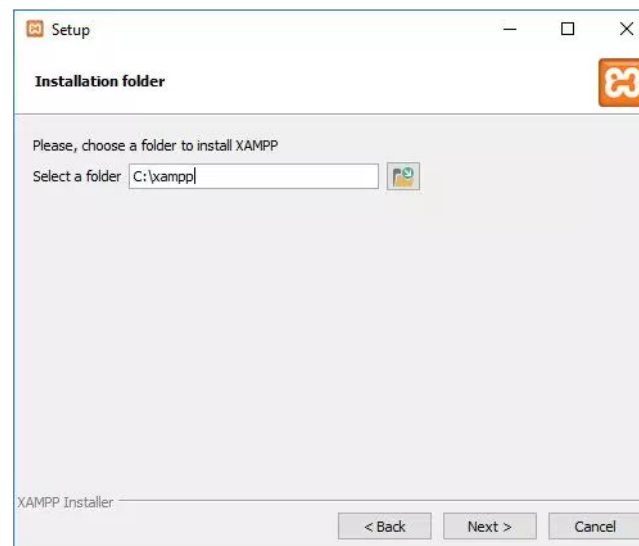


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### Step 3:



### Step 4:

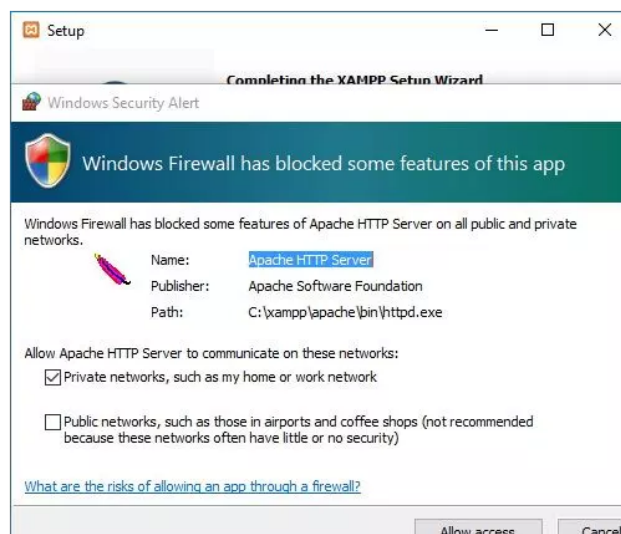


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### Step 5:



### Step 6:

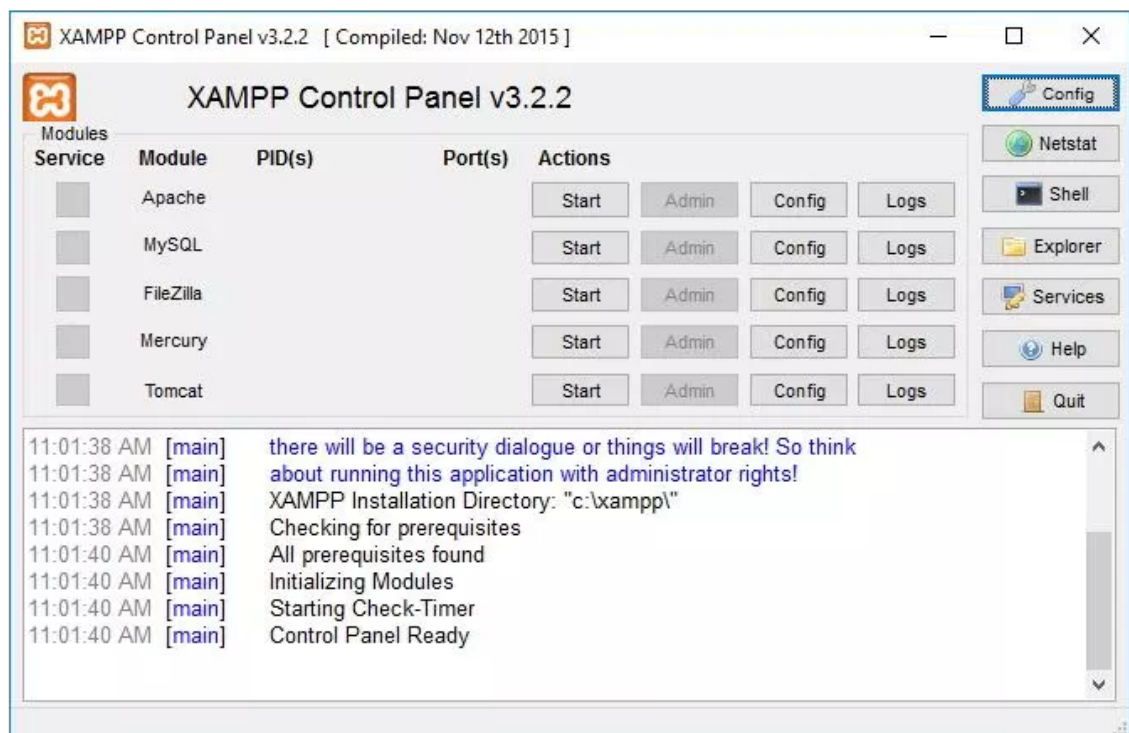


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### Step 7:



### 4. Open the XAMPP Control Panel.



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#### **XAMPP Control Panel Buttons**

- Shell – Displays Command Line Interface (CLI) to run commands in XAMPP.
- Explorer – Go to the location (file location) where XAMPP has installed.
- Help – Guidelines to use XAMPP
- Start – Use this button to Start and Stop respective module/service.
- Admin – Use this button to open admin or application console for respective module.
- Config – Use this button to open configuration files
- Logs – Use this button to open log files

5. What are the configuration files inside apache Config and their purpose?

6. Start apache and mysql services by clicking the Start button.

7. How to check whether Apache is properly running or not?

8. Write the PID and Port Id of Apache.

9. Write the PID and Port Id of MySQL.

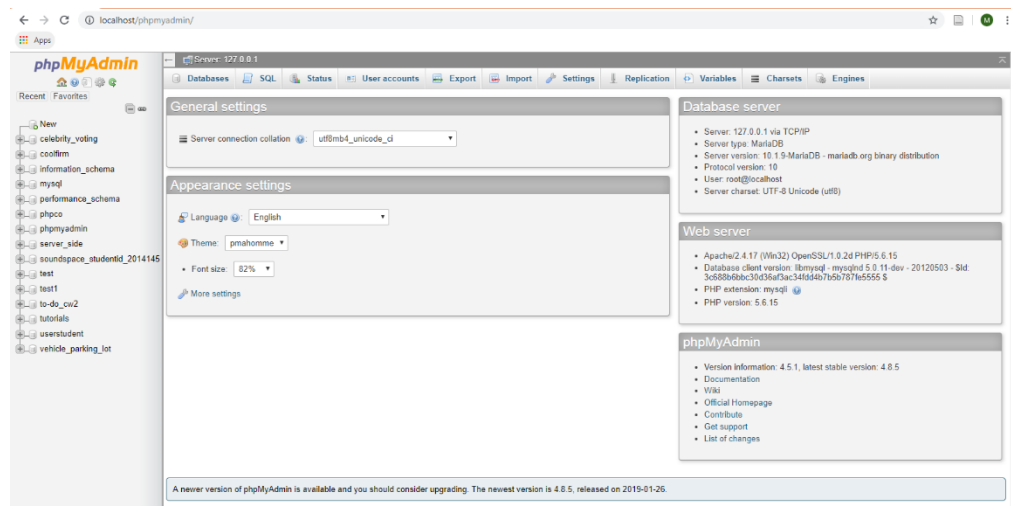
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10. Go to the browser and type, “**localhost:<<Apache Port Number>>**”

Ex: **localhost:8080**



11. Type, “**localhost/phpmyadmin**” to get the following output, where we can create the database.



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Database server will be discussed properly in next lecture and lab sessions.

- There is a folder named “**htdocs**” inside XAMPP folder. If you want to run a file using XAMPP, then you should move the specific file into the “**htdocs**” folder.

Copy the “IWT” folder and paste it inside “**htdocs**” location.

- Then in the browser run the file typing “**localhost/**<<file or folder name>>/**”** in the address bar.

Open your browser and type, “**localhost/IWT/**”

12. Write down the steps to change the port number of apache server.

13. Stop the services.

14. What are the advantages of stopping the services?