

Website Security Research Project

Install Document

CS 467 - Summer 2021

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Setting up the Site:

It would be a very bad idea to publicly host our site, so we found the best solution to be to run it on a local Apache server using XAMPP. First, go to apachefriends.org/index.html, and download xampp for your operating system. The rest of this guide will be for Windows 10, as that's what I'm using.



Image 1: XAMPP site.

During the installation process, you will be asked which components to download. Only Apache, MySQL, PHP and phpMyAdmin are needed, so feel free to uncheck the rest, then click next and save XAMPP in the location of your choosing:

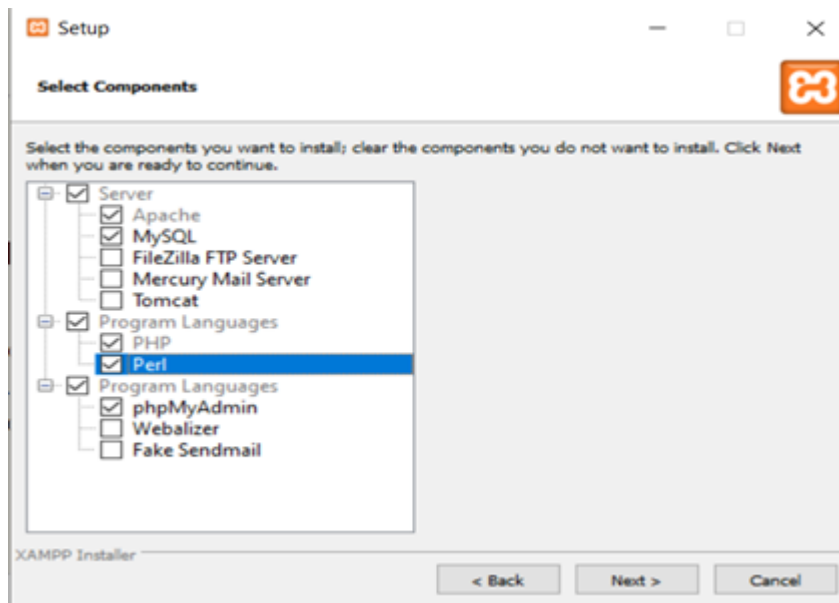


Image 2: Install options.

Continue to follow the prompts until XAMPP has finished installing. Once it has, go ahead and open the control panel, but before you start Apache or MySQL, head to the location where you saved xampp and open the htdocs folder. Inside will be a bunch of default stuff that we don't need:

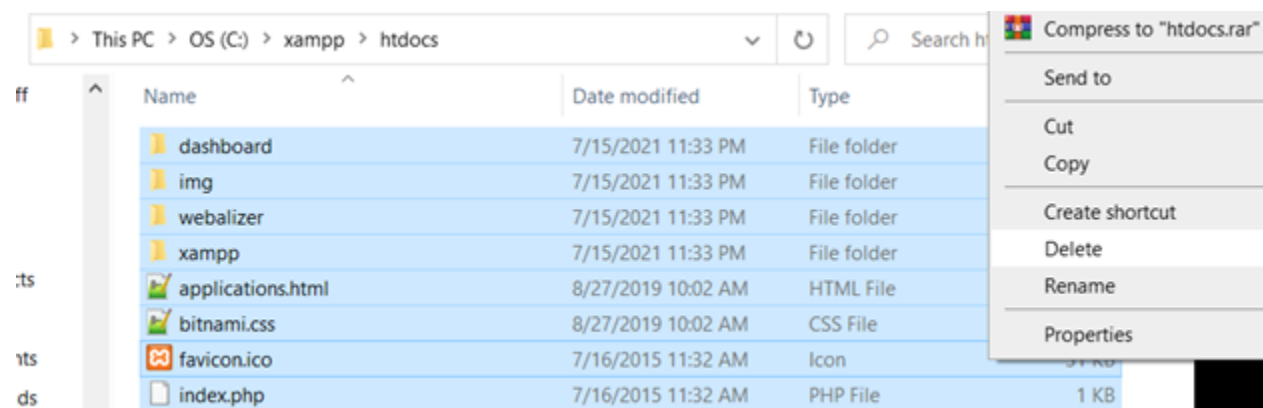


Image 3: Prior to delete.

Delete all the files in this folder and place the files for the site in it instead. You will need to take the file named .htpasswd file and move it to the main XAMPP folder, then copy the file named httpd.conf, navigate to xampp/apache/conf, and paste the copied file into the folder. You will be asked if you want to replace the already existing http.conf file. Click replace, and then you can move back to htdocs and delete httpd.conf from there.

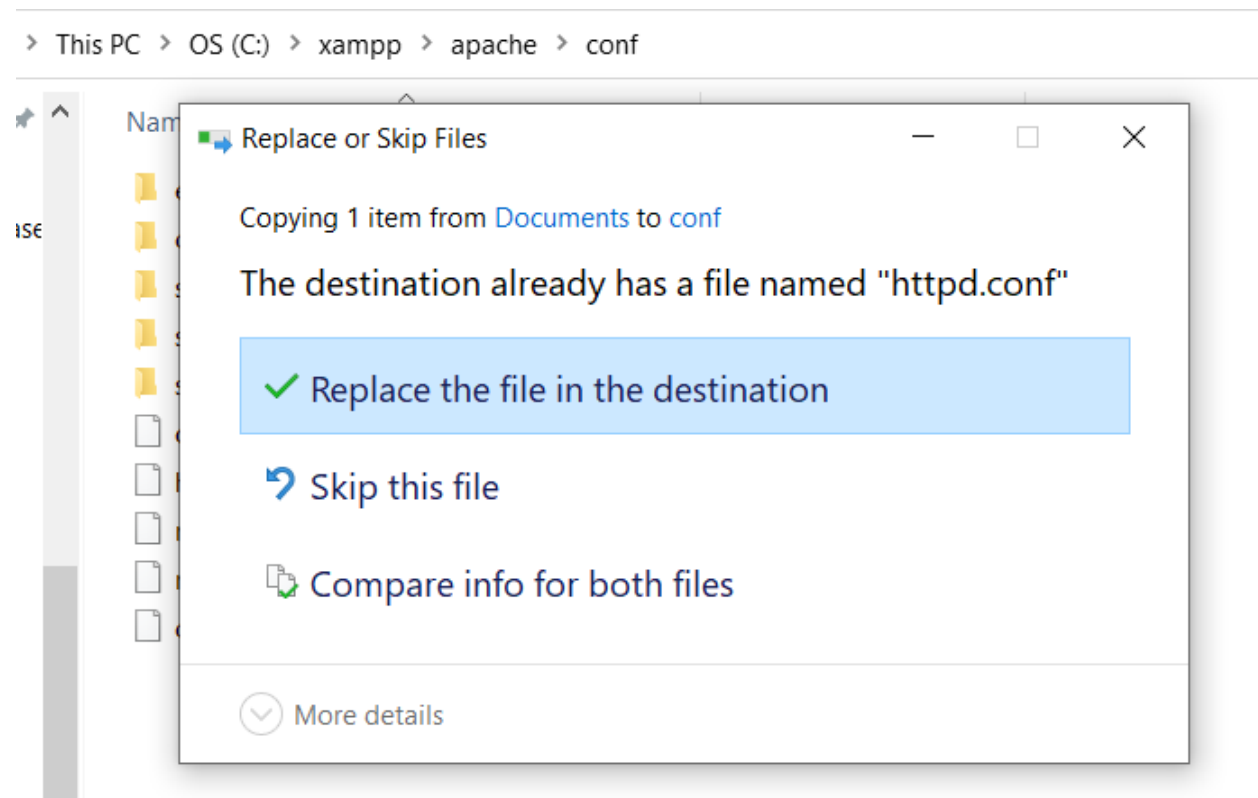


Image 4: Replacing default httpd.conf with site specific one

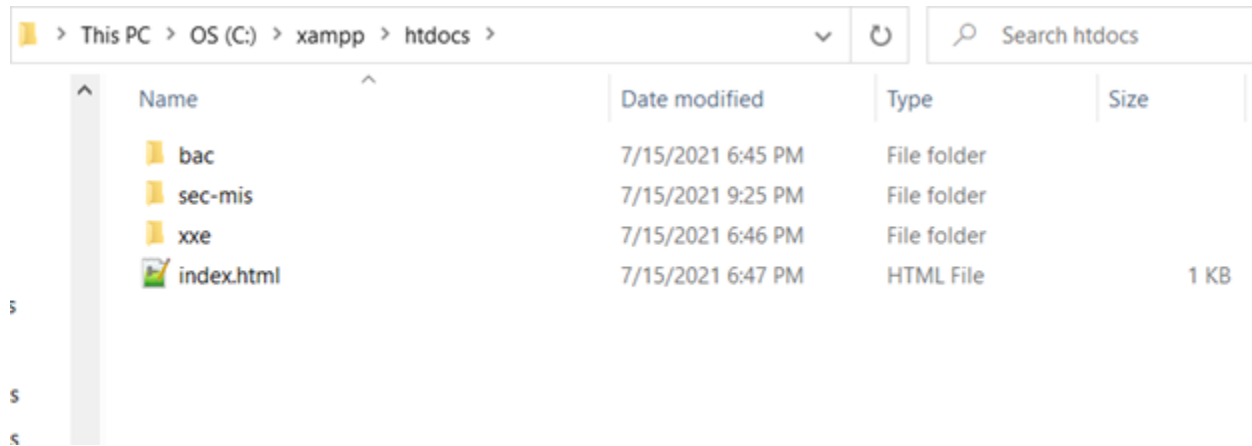


Image 5: New folder structure.

Now return to the XAMPP control panel, start Apache and MySQL (don't close the control panel yet!), open a web browser, and navigate to localhost <http://127.0.0.1/>. You should be at our site!

Setting up the database:

The access control demonstration uses a database to store user info. To make a database compatible with the demo, from the XAMPP control panel, click the admin button for MySQL (or navigate your browser to localhost/phpmyadmin). From here, look at the databases on the left and click on the database named "test":

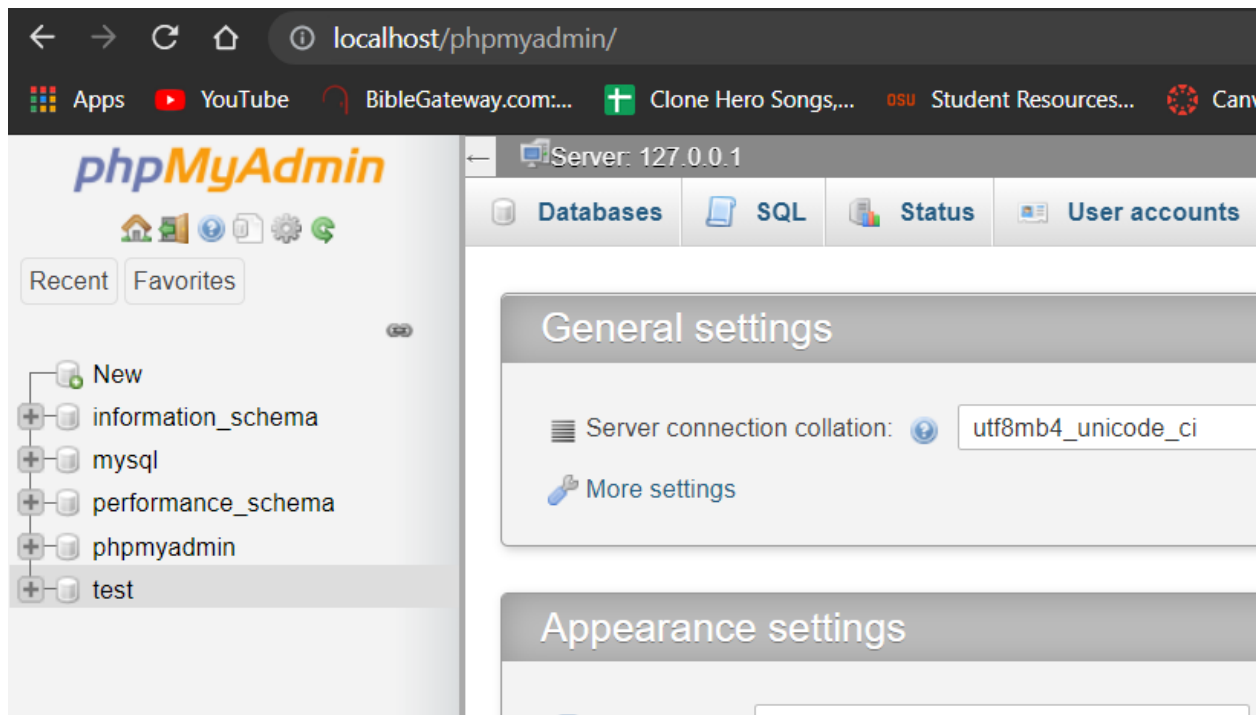


Image 6: phpMyAdmin database.

Now in the test db, click on the little SQL tab at the top (it can be seen in the above picture), and in the text box copy and paste these commands, and click the “Go” button in the bottom right corner:

```
CREATE TABLE test_table (id INT AUTO_INCREMENT NOT NULL PRIMARY KEY, username  
VARCHAR(255) NOT NULL, pwd VARCHAR(255) NOT NULL, admin TINYINT);  
INSERT INTO test_table (username, pwd, admin) VALUES ('user1', 'pwd1', 1);  
INSERT INTO test_table (username, pwd, admin) VALUES ('user2', 'pwd2', 0);
```

The table with the values should now be in the test database (you may have an issue with the quotations around the values to insert not pasting correctly; if the words in quotes aren’t red in the text box you’ll have to delete the quotation marks and then retype them).