Deloitte Risk Advisory Italia VR Team

CREDITS: Carlo Di Dato

CASE NUMBER: DVRT-2023-0001

TITLE: XAMPP for Windows insecure permissions

CVE: CVE-2022-47637

SUMMARY

XAMPP for Windows Privilege Escalation

DESCRIPTION

URL: https://www.apachefriends.org

Software: XAMPP for Windows

Version: Up to 8.2.4 Vulnerable files:

xampp-windows-x64-8.2.0-0-VS16-installer.exe (MD5 - 3b2f32a9317ef0e4329f562c7f1b8e94)

The installer in XAMPP through 8.2.0 allows local users to write to the C:\xampp directory. Common use
cases execute files under C:\xampp with administrative privileges.
 The XAMPP installer creates the default folder "C:\xampp" and relative subfolders with insecure
permissions. Specifically:

as you can see, setting this permission to "NT AUTHORITY\Authenticated Users:(I)(OI)(CI)(IO)(M)" will allow any unprivileged authenticated user to modify, read and execute, list folder contents, read and write the folder.

Since many XAMPP executables and batch files require administrative privileges (some of them can be install as Windows services), unprivileged users could overwrite legitimate files with malicious ones and subsequently elevate their privilege.

PROOF OF CONCEPT

Steps to reproduce the issue:

- 1. Install XAMPP for Windows
- 2. Check folder permissions

FIXES AND/OR MITIGATIONS

The issue can be mitigated by changing folders permissions.