Web Pentest 101

from abrasax to /dev/null

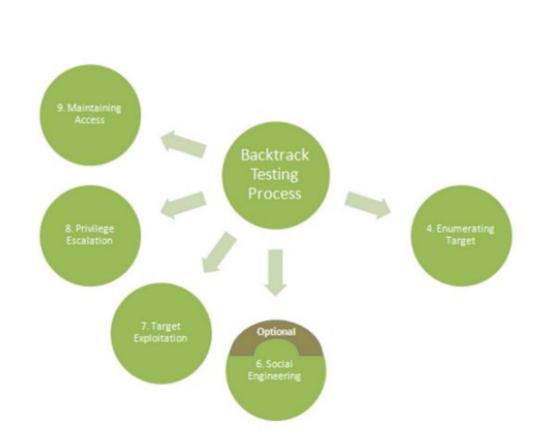
Ox01: Pentest Introduction

By the attacker side

- The pentest concept
- The practice
 - Enumeration
 - Exploitation
 - Web hacking
 - Priv Escalation

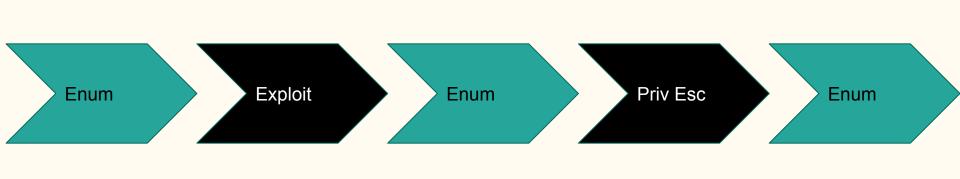
• Hands on





Privilege **Enumeration Exploitation Escalation**





Enumeration

Enumeration

- 1. Look around Ted, you're all alone.
 - a. Nmap
 - b. Netdiscover
- 2. Toc. Toc. Who's there?
 - a. Nmap
- 3. I wanna know you better.
 - a. Dirsearch / dirb / gobuster
 - b. Wpscan

```
sudo nmap -sT -sU localhost
Starting Nmap 7.50 ( https://nmap.org ) at 2017-07-03 17:29 -03
 Imap scan report for localhost (127.0.0.1)
 Host is up (0.000081s latency).
Other addresses for localhost (not scanned): ::1
 Not shown: 1994 closed ports
         STATE
                       SERVICE
631/tcp open
        open|filtered dhcpc
631/udp open|filtered ipp
1900/udp open filtered upnp
5353/udp open filtered zeroconf
 Imap done: 1 IP address (1 host up) scanned in 2.80 seconds
seg jul 03, 05:29:19
```

Exploitation

Back to theory

Understanding about web attacks

Web attacks

Different types of web attacks

- There is different kind of attacks
- The most basically happens when you find sensitive data exposed, like files that anyone can read with passwords exposed
- Some sites also display their source code in errors, and you can read the code and look for attacks

- But the most important source of web attacks are inputs. Remember when we studied GET and POST? These parameters sometimes are expected to be a specifically kind of data, like a number, and if you change the number to a letter, the system don't know what to do
- The web hacking is almost about exploit this unexpected behavior that the programer didn't analyze

Local File Inclusion

Local File Inclusion (LFI)

All the files are stored in the system, the initial page is by standard index.php

The PHP allows the programmer to show other files inside the actual one. The LFI vulnerability happens when a user can abuse this feature to choose which file will be printed in the page, choosing sensitive files and getting secret information

Files that users shouldn't see:

- /etc/passwd
- /etc/shadow
- /proc/self/environ
- /var/www/phpmy/config.inc.php
 - Postman
- /proc/version
- /var/log/apache/access.log
- /var/log/sshd.log
- /var/log/mail

```
<?php
#header( 'Z-Powered-By:Its chutiyapa xD' );
header('X-Frame-Options: SAMEORIGIN');
header( 'Server:testing only' );
header( 'X-Powered-By:testing only' );
ini_set( 'session.cookie_httponly', 1 );
$conn = mysqli_connect("127.0.0.1","billu","b0x_billu","ica_lab");
// Check connection
if (mysqli_connect_errno())
 echo "connection failed -> " . mysqli_connect_error();
?>
```

What can we do?

Look for more vulnerabilities

Back to enumeration

What can we try:

- Shell upload
- find RCE
- Look for others vulnerabilities
- Vulnerable version of a service
- Enumeration

Sobre esse desafio:

- Exploit: https://www.exploit-db.com/exploits/37292/
- Billu Box: https://www.vulnhub.com/entry/billu-b0x,188/
- Walkthrough: https://mrh4sh.github.io/billu-b0x-solution

When Hacking Get Serious: HackTheBox

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- Canal do Telegram: @pombocorreio
- Github: https://github.com/pombo-ctf