

HackTheBox – I know mag1k Write Up

Tools:

- Burp Suite (Kali Linux)
- Padbuster (Kali Linux)
- <http://www.asciitable.com/>
- <https://en.wikipedia.org/wiki/ASCII>

Walkthrough:

Step	Description
1	<p>Created an account at http://docker.hackthebox.eu:31102/.</p> <p>The account created for this challenge is: username: password dog:Rock@123</p>
2	<p>Burp Suite was used to intercept the request of the website. The “iknowmagic” cookie was discovered upon intercepting.</p> <pre>iknowmag1k=dVkoOAgjDrfcOHnXle90n1hh%2FVfwMB7owCOK8omHpUg08CdMIFtPcg%3D%3D</pre> <p>The suspicious pattern of “%3D%3D” led to the discovery that it was values for ASCII non alphanumeric characters. This means that “%3D%3D” is written as “=” twice</p> <p>The “iknowmagic” cookie was rewritten as:</p> <pre>iknowmag1k=dVkoOAgjDrfcOHnXle90n1hh%2FVfwMB7owCOK8omHpUg08CdMIFtPcg==</pre>
3	<p>Padbuster was used based on the hints given in the forums.</p> <p>Padbuster was used with the following command “padbuster http://docker.hackthebox.eu:31102/profile.php dVkoOAgjDrfcOHnXle90n1hh%2FVfwMB7owCOK8omHpUg08CdMIFtPcg%3D%3D 8 --cookies iknowmag1k=dVkoOAgjDrfcOHnXle90n1hh%2FVfwMB7owCOK8omHpUg08CdMIFtPcg%3D%3D --encoding 0 --auth username:password”</p>

	<p>The results of Padbuster are:</p> <pre> ----- ** Finished *** [+] Decrypted value (ASCII): {"user":"dog","role":"user"} [+] Decrypted value (HEX): 7B2275736572223A22646F67222C22726F6C65223A2275736572227D04040404 [+] Decrypted value (Base64): eyJ1c2VyIjoizG9nIiwicm9sZSI6InVzZXIifQQEBAQ= ----- </pre> <p>From here the role was changed to “admin” before the text was encrypted using Padbuster.</p>
4	<p>Padbuster was used with the following command “padbuster http://docker.hackthebox.eu:31102/profile.php dVkoOAgjDrfcOHnXle90n1hh%2FVfwMB7owCOK8omHpUg08CdMlFtPcg%3D%3D8 --cookies iknowmag1k=dVkoOAgjDrfcOHnXle90n1hh%2FVfwMB7owCOK8omHpUg08CdMlFtPcg%3D%3D --encoding 0 -plaintext '{"user":"dog","role":"admin"}'”</p> <p>The results of Padbuster are:</p> <pre> ----- ** Finished *** [+] Encrypted value is: DY0BTcwhhQrV85ITvNdkyoJeNINbZh5gPAcs5B6pZJ0AAAAAAAAAAAA%3D%3D ----- </pre>
5	<p>The new encrypted cookie was send through Burp Suite under the Repeater tab.</p> <pre> GET /profile.php HTTP/1.1 Host: docker.hackthebox.eu:31243 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: en-US,en;q=0.5 Accept-Encoding: gzip, deflate Referer: http://docker.hackthebox.eu:31243/login.php Connection: close Cookie: _ga=GA1.2.2014882495.1578992232; __auc=b39b773016fa36270d9bff02f53; _gid=GA1.2.1201632568.1581247430; PHPSESSID=tosd3gif3m53vv0p89m3fh5shp; iknowmag1k=DY0BTcwhhQrV85ITvNdkyoJeNINbZh5gPAcs5B6pZJ0AAAAAAAAAA AA%3D%3D Upgrade-Insecure-Requests: 1 Cache-Control: max-age=0 </pre>

6	<p>The flag was obtained once the request containing the new cookie was sent.</p> <p>The response of the website in Burp suite is shown below:</p> <pre>src="/assets/img/avatar.png" alt="..."/> <h4 class="title">Admin
 <small>HTB{Please find the flag yourself ☺}</small> </h4> </div> </div> <hr/></pre>
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Flag is HTB{Please find the flag yourself ☺}

****PS:**

- Ensure that the proxy settings of the browser and Burp Suite are configured properly (For example port:8080).
- For first time users of Burp Suite, please configure the browser to have the certificate from Burp Suite before starting the challenge.