Broken Access Control Admin Cookie

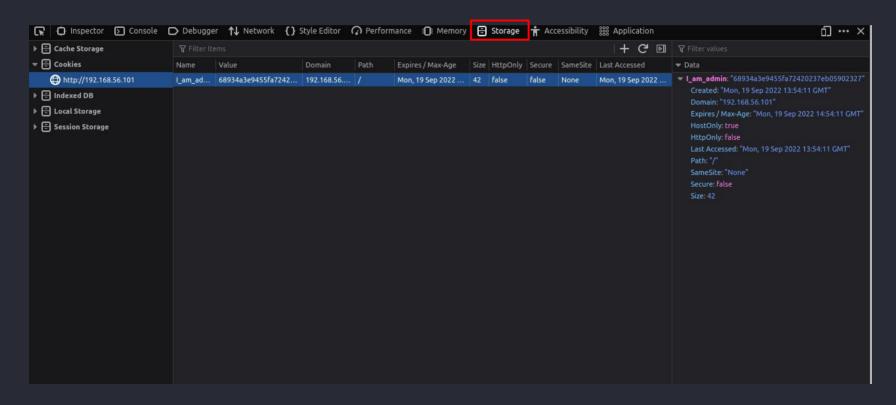
Moving up from the fifth position, 94% of applications were tested for some form of broken access control with the average incidence rate of 3.81%, and has the most occurrences in the contributed dataset with over 318k. Notable Common Weakness Enumerations (CWEs) included are CWE-200: Exposure of Sensitive Information to an Unauthorized Actor, CWE-201: Insertion of Sensitive Information Into Sent Data, and CWE-352: Cross-Site Request Forgery.

Access control enforces policy such that users cannot act outside of their intended permissions. Failures typically lead to unauthorized information disclosure, modification, or destruction of all data or performing a business function outside the user's limits.

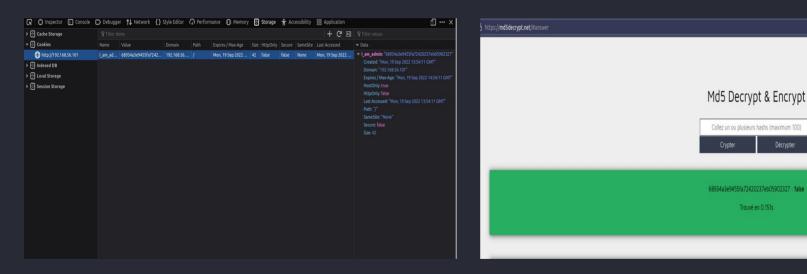
In this context we talk about a insecure admin cookie.

Walk Through

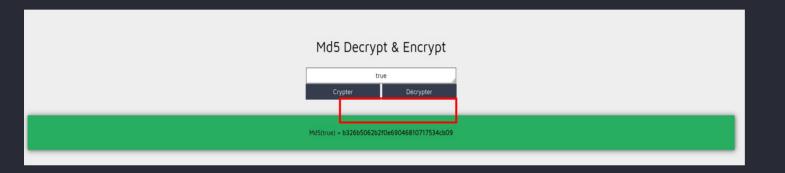
Step 1: Open the web developer console on your browser and go to the Storage tab:



Step 2 : Copy the value of the cookie and try to decrypt it with https://md5decrypt.net/ for example

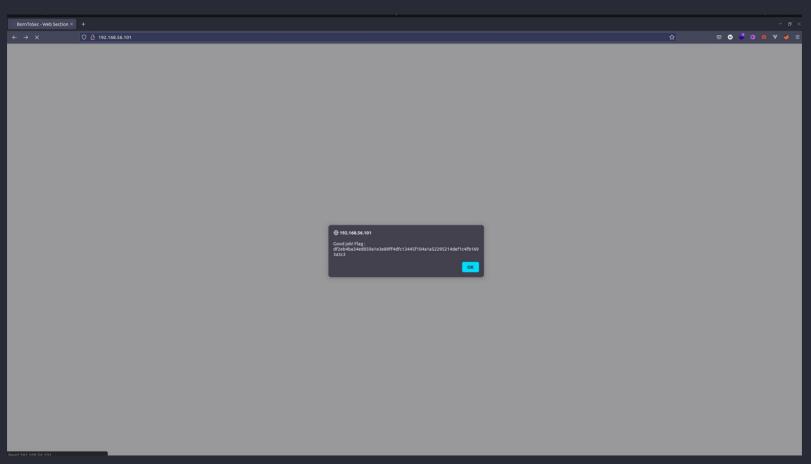


Step 3 : We see the decrypted hash value is : false so try encrypt true in md5 and replace the value of the cookie by the new hash





Step 4: Reload the page and we are admin, we got the flag!!



Tools:

https://md5decrypt.net/

How to fix:

- Use a more secure Algorithm than md5 like sha-512 or RSA
- Use an uid rather than a boolean to set the admin cookie
- Make check in the back when a cookie is changed.