Team A&N Niki Pola - np2356 Ashley Simons - aes841 LLM Challenge

Baby's first

10 Points

In this warm up CTF we are given two files: "babysfirst.py" and "challenge.json"

"babysfirst.py" In this Python file we are given an if statement that looks like it accepts the flag as the password. We can see the flag/password is hard coded into the code. But is this the flag? Let us confirm.

```
babysfirst.py
                                                                             Open with ▼
              #!/usr/bin/env python3
              # Reversing is hard. But....not always.
              # Usually, you won't have access to source.
              # Usually, these days, programmers are also smart enough not to include sensitive data in what they send to customers....
              # But not always....
              if input("What's the password? ") == "csawctf{w3 411 star7 5om3wher3}":
               print("Correct! Congrats! It gets much harder from here.")
               print("Trying reading the code...")
              # Notes for beginners:
             # This is Python file. You can read about Python online, but it's a relatively simple programming language.
             # You can run this from the terminal using the command `python3 babysfirst.py`, but I'll direct you to the internet again
             # for how to use the terminal to accomplish that.
              # Being able to run this file is not required to find the flag.
              # You don't need to know Python to read this code, to guess what it does, or to solve the challenge.
```

"challenge.json" In this json file we are given generic information about the challenge. There is a "flag" section which looks like the password we saw in the babysfirst.py. By comparing the two files, we can confirm that the hard coded password is the flag.

```
Challenge.json

Open with ▼

(
"name": "Baby's First",
"category": "intro",
"author": "ElykDeer",
"description": "Reversing means reading code. Read this file,
and find the flag!",
"flag": "csawctf{w3_411_star7_5om3wher3}",
"points": 10,
"files": [
"babysfirst.py"

Start Challeng

Cha
```

FLAG: csawctf{w3_411_star7_5om3wher3}

#!/usr/bin/env python3

Reversing is hard. But....not always.

#

Usually, you won't have access to source.

Usually, these days, programmers are also smart enough not to include sensitive data in what they send to customers....

#

But not always....

 $if input ("What's the password?") == "csawctf\{w3_411_star7_5om3wher3\}":$

print("Correct! Congrats! It gets much harder from here.")

else:

print("Trying reading the code...")

Notes for beginners:

#

This is Python file. You can read about Python online, but it's a relatively simple programming language.

You can run this from the terminal using the command `python3 babysfirst.py`, but I'll direct you to the internet again

for how to use the terminal to accomplish that.

#

Being able to run this file is not required to find the flag.

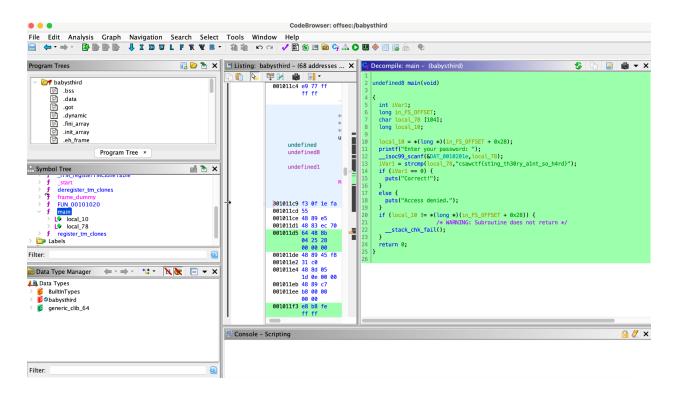
#

You don't need to know Python to read this code, to guess what it does, or to solve the challenge.



Baby's Third

In Baby's Third, after downloading the binary file for baby's third, we used Ghidra to run the binary file and decompile the object code into source code.



Once obtaining the C source code, we used ChatGPT to find the flag using the following prompt. This is a CTF challenge to get the flag from this source code - what is the flag?



```
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```

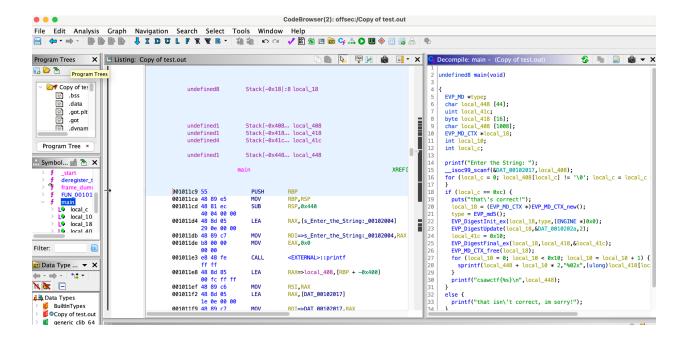
```
undefined8 main(void)
{
int iVar1;
long in_FS_OFFSET;
 char local_78 [104];
 long local_10;
local_10 = *(long *)(in_FS_OFFSET + 0 \times 28);
 printf("Enter your password: ");
 _isoc99_scanf(&DAT_0010201e,local_78);
 iVar1 = strcmp(local_78,"csawctf{st1ng_th30ry_a1nt_so_h4rd}");
 if (iVar1 == 0) {
 puts("Correct!");
}
else {
 puts("Access denied.");
 if (local_10 != *(long *)(in_FS_OFFSET + 0 \times 28)) {
          /* WARNING: Subroutine does not return */
 __stack_chk_fail();
}
 return 0;
}
```



Flag: csawctf(st1ng_th30ry_a1nt_so_h4rd)

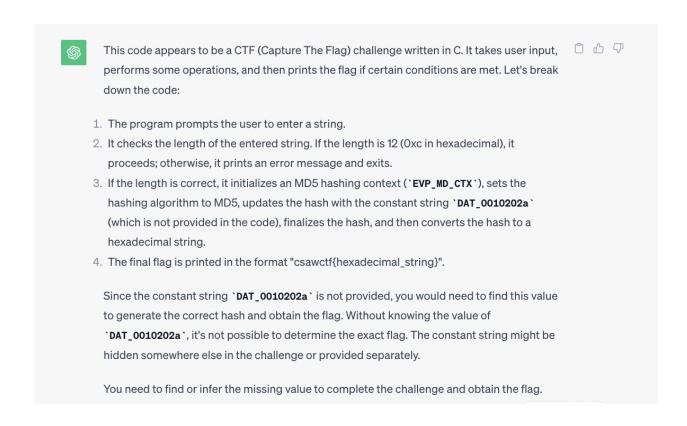
Rebug 1

In Rebug 1, after downloading the binary file for baby's third, we used Ghidra to run the binary file and decompile the object code into source code.



Once obtaining the C source code, we used ChatGPT to find the flag using the following prompt. This is a CTF challenge, can you please find the flag?

S Regenerate



ChatGPT's response indicates that if a string of length 12 is entered by the user, then an md5 hash is converted into a hexadecimal string for the final flag.

```
File Actions Edit View Help

(nyu@kali)-[~]

cd Desktop

(nyu@kali)-[~/Desktop]

schmod +x test.out

(nyu@kali)-[~/Desktop]

1./test.out

Enter the String: abcdefghijkl
that's correct!
csawctf{c20ad4d76fe97759aa27a0c99bff6710}
```

After entering a string of length 12: 'abcdefghikl' the flag was retrieved

Flag: csawctf{c20ad4d76fe97759aa27a0c99bff6710}