whiterOse's Easy to crack

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Language: C/C++

Platform: Windows

Difficulty: 1.0

Quality: 2.6

Arch: x86-64

The program initiates with these echo telling us to guess the correct password.

```
Guess the correct digit password.
```

```
Guess the correct digit password.
34653456
Incorrect
```

After an initial attempt, I discovered that the password was incorrect. I then launched x64dbg, a tool that allows users to view, analyze, and even manipulate the machine code of '.exe' files.

After opening and attaching the file at x64dbg I thought of what would be the solution and what's the optimal way to gain access to it.

My Solution: Change the memory address of the jump given after trying the password. Jump immediatly to the correct password message memory address.

After going to all modules to search for strings I already found the 3 only strings that exist.

I quickly double clicked on the first string and found more about the program logic.

The program essentially asks for an integer input and checks if it matches the correct password. If the input is correct, it prints a success message; if not, the program executes a "jump not equal" (JNE) instruction to a memory address that prints an incorrect password message.

What I did was change the memory address of this JNE instruction to the memory address of the correct password message. I patched the file, and this is how it looks now.

```
Guess the correct digit password.
2423424
You have guessed correctly, the password is -1749540202
```

Now everytime I input any password it will tell me the correct one and that I guessed it.