Level09

Two files are present is present in home directory of the level09 user witch are a binary named level09 and a token file. The token file is world redable. The SUID bit is set on the level09 binary and owner is user flag09 on both files.

Tests

- Use the cat command on the token file outputs f4kmm6p|=♦p♦n♦♦DB♦Du{♦♦
- Execute the level09 binary outputs You need to provied only one arg.
- Executing the levelog binary with token as argument outputs tpmhr.

The last test looks like this binary file outputs the string passed as first argument to stdout in an altered form. The first letter is **t** the second letter is shifted one letter up from **o** to **p**, the third letter shifter two letters up, and so on...

```
t o k e n
t p m h r
| | | | |
+0 +1 +2 +3 +4
```

The token file contents is probably the output of the original that has been passed trough the levelop binary.

With a simple **python** script, we are able to **reverse this** with a loop that subtracts it's value on each letter, prints the character and increments it's value by one. The resulting string should be the original token.

The token obtained works to login as user flag09 and we are able to launch the getflag command.

```
level09@SnowCrash:/tmp$ ./rev.py
f3ijiiju5yuevaus41q1afiuq
level09@SnowCrash:/tmp$ su flag09
Password:
Don't forget to launch getflag !
flag09@SnowCrash:~$ getflag
Check flag.Here is your token : s5cAJpM8ev6XHw998pRWG728z
```