

# ./level13

A critical observation in the code is the dependency on the `getuid()` function to yield 0x1092 (or 4242). To gain a more granular understanding, an assembly level inspection was conducted.



As in many previous levels, upon accessing the level13 user's home directory, we found an executable. To glean insights into its inner workings, we opted again for Ghidra.

[illegible]

The assembly instruction at `0x0804859a` compares the value present in the `eax` register to `0x1092`. Given the capabilities of GDB, we can actively manipulate the register values during runtime. By setting a breakpoint at the previously mentioned instruction, modifying the “`eax`” register, and then proceeding with the execution, we can effectively bypass the conditional check, circumventing the undesired `exit` call.

```
level13@SnowCrash:~$ gdb level13
(gdb) break *0x804859a
Breakpoint 1 at 0x804859a
(gdb) run
Starting program: /home/user/level13/level13

Breakpoint 1, 0x0804859a in main ()
(gdb) frame
#0  0x0804859a in main ()
(gdb) print $eax=0x1092
$1 = 4242
(gdb) continue
Continuing.
your token is 2A31L79asukciNyi8uppkEuSx
[Inferior 1 (process 2979) exited with code 050]
(gdb) q

level13@SnowCrash:~$ su level14
Password: 2A31L79asukciNyi8uppkEuSx

level14@SnowCrash:~$
```