Ex. No.: 5 Date: 27.09.2024

PROCESS CODE INJECTION

Aim:

To do process code injection on Firefox using ptrace system call.

Algorithm:

- 1. Find out the pid of the running Firefox program.
- 2. Create the code injection file.
- 3. Get the pid of the Firefox from the command line arguments.
- 4. Allocate memory buffers for the shellcode.
- 5. Attach to the victim process with PTRACE_ATTACH.
- 6. Get the register values of the attached process.
- 7. Use PTRACE_POKETEXT to insert the shellcode.
- 8. Detach from the victim process using PTRACE_DETACH

Output:

[root@localhost ~]# vi codeinjection.c [root@localhost ~]# gcc codeinjection.c -o codeinject [root@localhost ~]#ps -e|grep firefox 1433? 00:01:23 firefox [root@localhost ~]# ./codeinject 1433 ----Memory bytecode injector-----Writing EIP 0x6, process 1707 [root@localhost ~]#

Result: Thus, the process code injection on Firefox has been successfully executed.