PWN fd [pwnable.kr]CTF writeup题解系列1

原创

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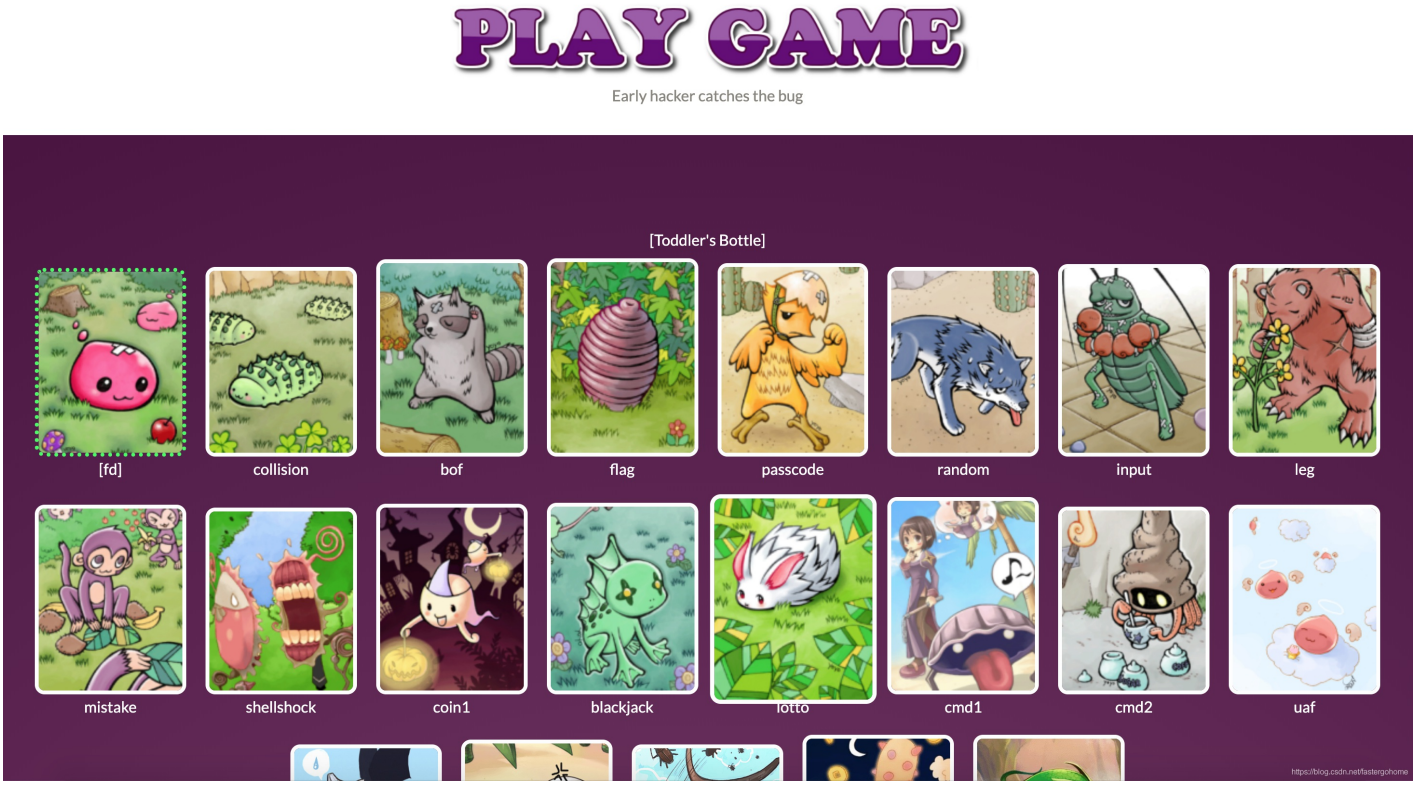
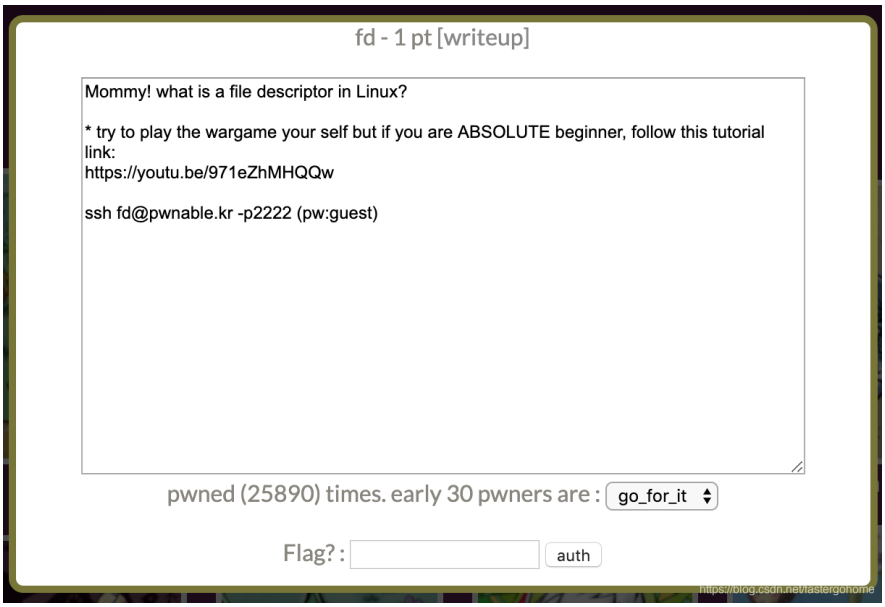
题目地址：http://pwnable.kr/play.php

题目地址页面，看看还是挺有意思的，还有一些图片。



看看题目：



题目比较简单，直接把解题过程列出来

```
root@mypwn:/ctf/work/reverse# ssh fd@pwnable.kr -p2222
The authenticity of host '[pwnable.kr]:2222 ([128.61.240.205]:2222)' can't be established.
ECDSA key fingerprint is SHA256:I9nWMZvctQv4Vypnh9ICs6aB2g20WV/EjTIYJ83P0K8.
Are you sure you want to continue connecting (yes/no)? yes
Warning: Permanently added '[pwnable.kr]:2222,[128.61.240.205]:2222' (ECDSA) to the list of known hosts.
fd@pwnable.kr's password:
Permission denied, please try again.
fd@pwnable.kr's password:

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- Site admin : daehee87@gatech.edu
- IRC : irc.netgarage.org:6667 / #pwnable.kr
- Simply type "irssi" command to join IRC now
- files under /tmp can be erased anytime. make your directory under /tmp
- to use peda, issue `source /usr/share/peda/peda.py` in gdb terminal
Last login: Tue Dec 31 23:55:37 2019 from 67.197.48.165
fd@prowl:~$ ls
fd  fd.c  flag
fd@prowl:~$ ls -la
total 40
drwxr-x---   5 root   fd   4096 Oct 26  2016 .
drwxr-xr-x 116 root   root 4096 Nov 12 21:34 ..
d---------   2 root   root 4096 Jun 12  2014 .bash_history
-r-sr-x---   1 fd_pwn fd   7322 Jun 11  2014 fd
-rw-r--r--   1 root   root  418 Jun 11  2014 fd.c
-r--r-----   1 fd_pwn root   50 Jun 11  2014 flag
-rw-------   1 root   root  128 Oct 26  2016 .gdb_history
dr-xr-xr-x   2 root   root 4096 Dec 19  2016 .irssi
drwxr-xr-x   2 root   root 4096 Oct 23  2016 .pwntools-cache
fd@prowl:~$ id
uid=1002(fd) gid=1002(fd) groups=1002(fd)
fd@prowl:~$ sudo -l
[sudo] password for fd:
```

```
Sorry, user fd may not run sudo on prowl.lawn.gatech.edu.
fd@prowl:~$ pwd
/home/fd
fd@prowl:~$ ls -la
total 40
drwxr-x---   5 root   fd   4096 Oct 26  2016 .
drwxr-xr-x 116 root   root 4096 Nov 12 21:34 ..
d---------   2 root   root 4096 Jun 12  2014 .bash_history
-r-sr-x---   1 fd_pwn fd   7322 Jun 11  2014 fd
-rw-r--r--   1 root   root  418 Jun 11  2014 fd.c
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-rw-------   1 root   root  128 Oct 26  2016 .gdb_history
dr-xr-xr-x   2 root   root 4096 Dec 19  2016 .irssi
drwxr-xr-x   2 root   root 4096 Oct 23  2016 .pwntools-cache
fd@prowl:~$ cat fd.c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>
char buf[32];
int main(int argc, char* argv[], char* envp[]){
 if(argc<2){
  printf("pass argv[1] a number\n");
  return 0;
 }
 int fd = atoi( argv[1] ) - 0x1234;
 int len = 0;
 len = read(fd, buf, 32);
 if(!strcmp("LETMEWIN\n", buf)){
  printf("good job :)\n");
  system("/bin/cat flag");
  exit(0);
 }
 printf("learn about Linux file IO\n");
 return 0;

}

fd@prowl:~$ ls -la
total 40
drwxr-x---   5 root   fd   4096 Oct 26  2016 .
drwxr-xr-x 116 root   root 4096 Nov 12 21:34 ..
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dr-xr-xr-x   2 root   root 4096 Dec 19  2016 .irssi
drwxr-xr-x   2 root   root 4096 Oct 23  2016 .pwntools-cache
fd@prowl:~$ ./fd
pass argv[1] a number
fd@prowl:~$ ./fd 4660
LETMEWIN
good job :)
mommy! I think I know what a file descriptor is!!
fd@prowl:~$ Connection to pwnable.kr closed by remote host.
Connection to pwnable.kr closed.
root@mypwn:/ctf/work/reverse#
```

本题考试点就是需要知道read的第一个参数，如果从command line中输入数据需要设置为0.