threst / 2018-11-08 06:55:00 / 浏览数 1838 安全技术 CTF 顶(0) 踩(0)

I AM MANY

直接foremost分离即可

hackover 18 { different_Fl4g_for_3arly_ch33tahz}

flag:hackover18{different_F14g_for_3arly_ch33tahz}

ez web

Easy web challenge in the slimmest possible design.... namely none. http://ez-web.ctf.hackover.de:8080

发现有robots.txt文件,提示/flag/,进入文件夹,有个falg.txt,点击提示

You do not have permission to enter this Area. A mail has been sent to our Admins. You shall be arrested shortly.

抓包修改Cookie: isAllowed=true

flag:hackover18{W3llD0n3,Kld.Th4tSh0tw4slInAM1ll10n}

i-love-heddha

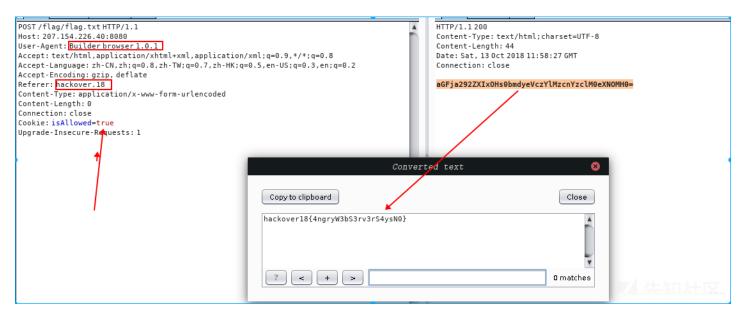
A continuation of the Ez-Web challenge. enjoy 207.154.226.40:8080

是刚才那个的升级版,一样的找到/flag/flag.txt,设置isAllowed,

可是然后提示ou are using the wrong browser, 'Builder browser 1.0.1' is required

You are referred from the wrong location hackover.18 would be the correct place to come fro

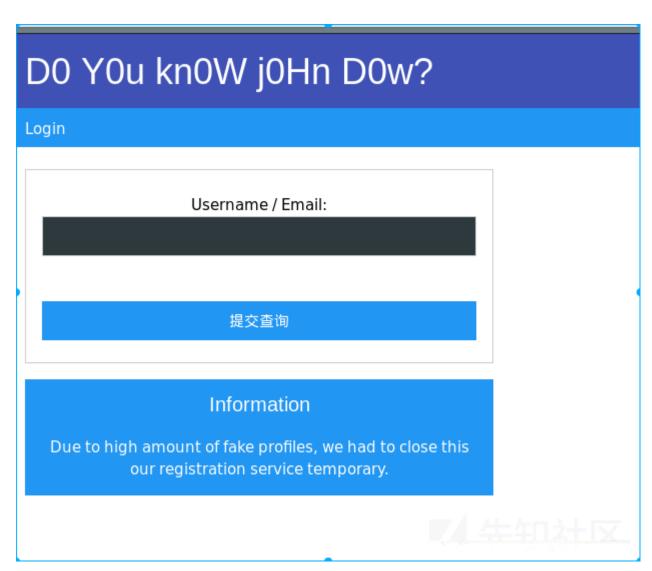
修改UA,referer,得到flag:hackover18{4ngryW3bS3rv3rS4ysN0}



who knows john dows?

Howdy mate! Just login and hand out the flag, aye! You can find on h18johndoe has all you need!

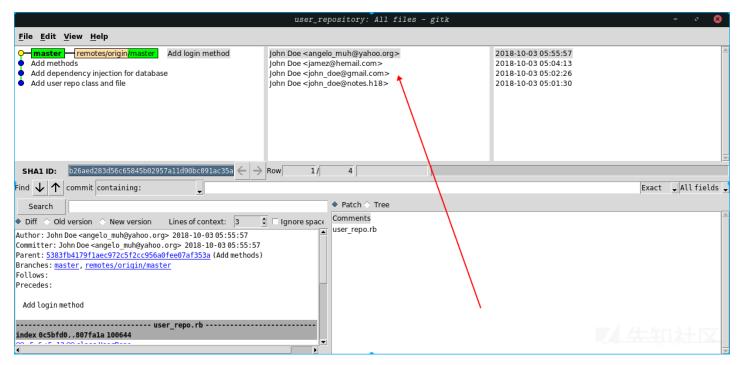
打开网站直接是要你输入用户名或邮箱



随便输一个,发现不对,根据提示h18johndoe,去github上面试试,果然搜到一个用户

github: https://github.com/h18johndoe

把这个仓库下下来git clone https://github.com/h18johndoe/user_repository.git



发现很多邮箱,一个一个去试试、尝试之后只有john_doe@notes.h18可以登录

D0 Y0u kn0W j0Hn D0w? Login Password: 提交查询

Information

Due to high amount of fake profiles, we had to close this our registration service temporary.

登录之后提示输入密码,尝试万能密码' OR 1=1 --:,成功!!

flag:hackover18{I_KN0W_H4W_70_STALK_2018}

secure-hash

We advise you to replace uses of unordered_hash with our new SecureHashtable class, since we added advanced crypto to make it 14.3 times more secure.

Update: the binary was compiled with g++ and libstdc++, 64bit

We're running a demo version, try it now:

nc secure-hash.ctf.hackover.de 1337

源代码如下:

```
#include <openssl/evp.h>
#include <unordered_set>
#include <iostream>
#include <fstream>
#include <unistd.h>
// TODO - Make an #ifdef to detect openssl/libressl.
//#define EVP_CREATE_FN() EVP_MD_CTX_new()
// \# define \ EVP\_DESTROY\_FN(x) \ EVP\_MD\_CTX\_free(x)
#define EVP_CREATE_FN() EVP_MD_CTX_create()
#define EVP_DESTROY_FN(x) EVP_MD_CTX_cleanup(x)
enum auth_result {
  AUTH_FAILURE,
  AUTH_SUCCESS,
  AUTH_TIMEOUT,
};
class SecureHashtable {
private:
   const int MAX_SIZE = 15000;
   std::unordered_set<std::string> values;
   std::string sha512sum(const std::string& name, const std::string& password) {
```

```
EVP_MD_CTX *mdctx;
       const. EVP MD *md;
       unsigned char md_value[EVP_MAX_MD_SIZE];
       unsigned int md_len;
       mdctx = EVP_CREATE_FN();
       md = EVP_get_digestbyname("sha512");
       EVP_MD_CTX_init(mdctx);
       EVP_DigestInit_ex(mdctx, md, NULL);
       EVP_DigestUpdate(mdctx, name.c_str(), name.size());
       EVP_DigestUpdate(mdctx, password.c_str(), password.size());
       EVP_DigestFinal_ex(mdctx, md_value, &md_len);
       EVP_DESTROY_FN(mdctx);
       return std::string(reinterpret_cast<char*>(md_value), md_len);
   }
public:
   SecureHashtable() {
       values.reserve(MAX_SIZE);
   bool insert_keyvalue(const std::string& name, const std::string& password) {
       if (values.size() >= MAX_SIZE)
           return false; // Size limit exceeded.
       std::string digest = sha512sum(name, password);
       values.insert(digest);
       return true;
   }
   auth_result lookup_keyvalue(const std::string& name, const std::string& password) {
       std::string digest = sha512sum(name, password);
       size_t bucket = values.bucket(digest);
       auto it = values.begin(bucket), end = values.end(bucket);
       size_t iterations = 0;
       size_t MAX_ITERATIONS = 1000;
       while (it != end) {
           if (*it++ == digest)
               return AUTH_SUCCESS;
           \ensuremath{//} Avoid DoS attacks by fixing upper time limit.
           if (iterations++ >= MAX_ITERATIONS)
               return AUTH_TIMEOUT;
       return AUTH_FAILURE;
};
int main() {
   OpenSSL_add_all_digests();
   std::ifstream ifs("./flag.txt");
   std::string flag;
   ifs >> flag;
   SecureHashtable table;
   table.insert_keyvalue("root", flag);
   while (true) {
       usleep(1000);
       int choice;
       std::string name, password;
       printf("Main menu:\n1 - Register new user\n2 - Login\n");
       std::cin >> choice;
       printf("Name: ");
       std::cin >> name;
       printf("Password: ");
       std::cin >> password;
       if (choice == 1) {
           if (name == "root") {
                           printf("You are not root!\n");
```

```
continue;
        }
        table.insert_keyvalue(name, password);
    } else if (choice == 2) {
        if (table.lookup_keyvalue(name, password)) {
            printf("Success! Logged in as %s\n", name.c_str());
            if (name == "root") {
                printf("You win, the flag is \$s\n", flag.c\_str());\\
                return 0;
            }
        } else {
            printf("Invalid credentials!\n");
        }
    } else {
       printf("Invalid choice!\n");
}
```

分析一下流程,首先要用户注册,可是不能注册root用户,但是在登录的时候要以root身份登录才可以获取flag

EVP MD CTX init

该函数初始化一个EVP_MD_CTX结构

EVP_DigestInit_ex

该函数使用參数impl所指向的ENGINE设置该信息摘要结构体,參数ctx在调用本函数之前必须经过初始化。參数type通常是使用象EVP_sha1这种函数的返回值。假设impl为

EVP DigestUpdate

该函数将參数d中的cnt字节数据进行信息摘要到ctx结构中去。该函数能够被调用多次。用以对很多其它的数据进行信息摘要。操作成功返回1,否则返回0。

EVP_DigestFinal_ex

本函数将ctx结构中的摘要信息数据返回到参数md中,假设参数s不是NULL,那么摘要数据的长度(字节)就会被写入到参数s中,大多数情况下,写入的值是EVP_MAX_M

特别注意,名称和密码一个接一个地添加到摘要中,并且使用std :: string :: size确定添加的字节数,它返回字符串的实际字节数,不包括null字节。使用例如name == "fo"和password = "obar"可以实现相同的结果,因此这两组凭证将导致相同的摘要,因此std :: unordered_set中的桶相同。现在我们来试试。我们注册名称为== "ro"且密码== "otl"的用户,然后只需尝试登录名称== "root"和密码== "1"

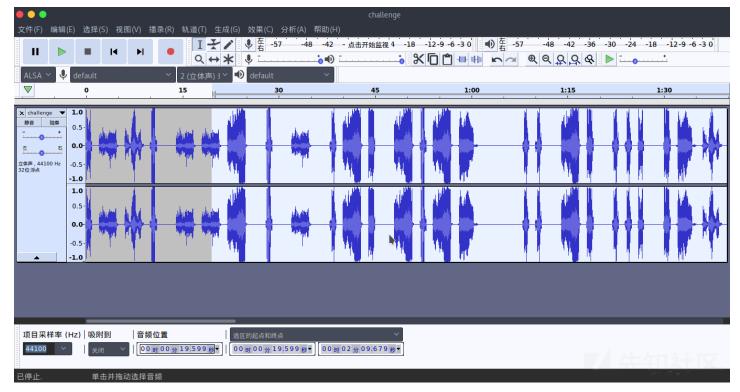
```
Main menu:
1 - Register new user
2 - Login
1
Name: ro
Password: ot1
Main menu:
1 - Register new user
2 - Login
2
Name: root
Password: 1
Success! Logged in as root
You win, the flag is hackover18{00ps_y0u_mu5t_h4ve_h1t_a_v3ry_unlikely_5peci4l_c_4s3}
```

flag:hackover18{00ps_y0u_mu5t_h4ve_h1t_a_v3ry_unlikely_5peci41_c4s3}

Hummel Hummel

There is no "hackover18{*}" in the word. the solution has to be inserted as hackover18{mysolution}.

下载下来一个mp4的文件,播放看见一个马在打屁,可是很有节奏,用audacity查看,发现



看起来像是莫斯密码,上下相连的为.,其他为-,全部连起来就是这样

.--. --- / -... /

flag:hackover18{poetry inspired by baked beans}

UnbreakMyStart

题目是xz文件,但是看起来好像损坏了

```
$ xxd unbreak_my_start.tar.xz
0000000: 504b 0304 1400 0800 0800 04e6 d6b4 4602 PK.....F.
0000010: 0021 0116 0000 0074 2fe5 a3e0 07ff 007d .!....t/......}
0000020: 5d00 331b 0847 5472 2320 a8d7 45d4 9ae8
                                                 ].3..GTr# ..E...
0000030: 3a57 139f 493f c634 8905 8c4f 0bc6 3b67 :W..I?.4...O...;q
0000040: 7028 la35 f195 abb0 2e26 666d 8c92 da43 p(.5....&fm...C
0000050: 11e1 10ac 4496 e2ed 36cf 9c99 afe6 5a8e
                                                 ....D...6....Z.
0000060: 311e cb99 f4be 6dca 943c 4410 8873 428a 1....m..<D..sB.
0000070: 7c17 f47a d17d 7808 b7e4 22b8 ec19 9275
                                                 |..z.}x..."...u
0000080: 5073 0c34 5f9e 14ac 1986 d378 7b79 9f87 Ps.4_.....x{y..
0000090: 0623 7369 4372 19da 6e33 0217 7f8d 0000
                                                 .#siCr..n3.....
00000a0: 0000 001c 0fld febd b436 8c00 0199 0180
                                                 . . . . . . . . . 6 . . . . . .
00000b0: 1000 00ad af23 35b1 c467 fb02 0000 0000
                                                 .....#5..a.....
00000c0: 0459 5a
```

这个PK是zip文件常见的,参考这个xz文件格式https://tukaani.org/xz/xz-file-format-1.0.4.txt

我们尝试用我们构造的头替换文件的前11个字节

```
$ dd if=unbreak_my_start.tar.xz of=trimmed.bin bs=1 skip=11
184+0 records in
184+0 records out
184 bytes transferred in 0.000920 secs (199988 bytes/sec)
$ (printf "\xFD7zXZ\x00\x00\x04"; cat trimmed.bin) > fixed.tar.xz
$ xz -d fixed.tar.xz
$ cat fixed.tar
```

flag.txt000644 001750 001750 00000000045 13340067500 013221 0ustar00heddhaheddha000000 000000 hackover18{U_f0und_th3_B3st_V3rs

.YZ

得到flag

flag:hackover18{U_f0und_th3_B3st_V3rs10n}

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