

Natas Wargame Level25 Writeup(头部注入+POST/GET注入)

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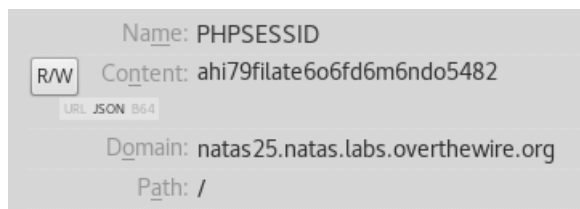
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language ▾

Quote

You see, no one's going to help you Bubby, because there isn't anybody out there to do it. No one. Well, all just



sourcecode核心代码:

```
1 <?php
2 // cheers and <3 to malvina
3 // - morla
4
5 function setLanguage(){
6     /* language setup */
7     if(array_key_exists("lang",$_REQUEST))
8         if(safeinclude("language/" . $_REQUEST["lang"] ))
9             return 1;
10    safeinclude("language/en");
11 }
12
13 function safeinclude($filename){
14     // check for directory traversal
15     if(strpos($filename,"../")){
16         logRequest("Directory traversal attempt! fixing request.");
17         $filename=str_replace("../","", $filename);
18     }
19     // dont let ppl steal our passwords
20     if(strpos($filename,"natas_webpass")){
21         logRequest("Illegal file access detected! Aborting!");
22         exit(-1);
23     }
24     // add more checks...
25
26     if (file_exists($filename)) {
27         include($filename);
28         return 1;
29     }
30     return 0;
31 }
```

```

31     }
32
33     function listFiles($path){
34         $listoffiles=array();
35         if ($handle = opendir($path))
36             while (false !== ($file = readdir($handle)))
37                 if ($file != "." && $file != "..")
38                     $listoffiles[]=$file;
39
40         closedir($handle);
41         return $listoffiles;
42     }
43
44     function logRequest($message){
45         $log="[" . date("d.m.Y H:i:s",time()) . "]";
46         $log=$log . " " . $_SERVER['HTTP_USER_AGENT'];
47         $log=$log . " \"" . $message . "\"\n";
48         $fd=fopen("/var/www/natas/natas25/logs/natas25_" . session_id() . ".log","a");
49         fwrite($fd,$log);
50         fclose($fd);
51     }
52 ?>
53
54 <h1>natas25</h1>
55 <div id="content">
56 <div align="right">
57 <form>
58 <select name='lang' onchange='this.form.submit()>
59 <option>language</option>
60 <?php foreach(listFiles("language/") as $f) echo "<option>$f</option>"; ?>
61 </select>
62 </form>
63 </div>
64
65 <?php
66     session_start();
67     setLanguage();
68
69     echo "<h2>$_GREETING</h2>";
70     echo "<p align=\"justify\">$_MSG";
71     echo "<div align=\"right\"><h6>$_FOOTER</h6><div>";
72 ?>

```

首先要将注入点分析清楚：一共有三个注入点

1. `$_REQUEST["lang"]` 即get/post注入

2. `$_SERVER['HTTP_USER_AGENT']` http头部信息注入

3. `session_id()` cookie注入

23条注入能够发生的条件是safeinclude函数检测到了非法输入，而且必须是“../”这种非法输入，若是“web_pass”这种的话会直接exit(-1)。

这里第一条过滤非法输入语句存在漏洞，例如...//将../去掉后就变成了../，根本原因就在于没有使用while语句，没有想到过滤一次后依然（助攻）存在../，所以过滤应该持续检测直到非法字符不再出现。

