

实验吧-让我进去 Writeup

原创

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21 篇文章 0 订阅

订阅专栏

难得中午有时间写, 昨天夜里就搞完了。。。

过程

- 链接: <http://ctf5.shiyanbar.com/web/kzhan.php>
- 点进去后有个登陆窗口, 随便填了下, 用户名为admins, 密码admin, burpsuite拦截看信息。

The screenshot shows a network capture in Burp Suite. On the left, the 'Request' tab is active, displaying a POST request to `/web/kzhan.php`. The request body contains `username=admins&password=admin`. A cookie is present: `sample-hash=571580b26c65f306376d4f64e53cb5c7; source=0`. On the right, the 'Response' tab is active, showing an HTML response. The response body contains a login form with the following HTML structure:

```
<html>
<body>

<h1>Admins Only!</h1>
<p>If you have the correct credentials, log in below. If not, please LEAVE.</p>
<form method="POST">
  Username: <input type="text" name="username"> <br>
  Password: <input type="password" name="password"> <br>
  <button type="submit">Submit</button>
</form>

</body>
</html>
```

- 有个奇怪的source=0, 改为1就能看到源码。

```
<pre>
$flag = "XXXXXXXXXXXXXXXXXXXXXXXXX";
$secret = "XXXXXXXXXXXXXXXXX"; // This secret is 15 characters long for security!

$username = $_POST["username"];
$password = $_POST["password"];

if (!empty($_COOKIE["getmein"])) {
    if (urldecode($username) === "admin" && urldecode($password) !== "admin") {
        if ($_COOKIE["getmein"] === md5($secret . urldecode($username) . $password)) {
            echo "Congratulations! You are a registered user.\n";
            die ("The flag is " . $flag);
        }
    }
}
```

```

    die ("The flag is " . $flag);
}
else {
    die ("Your cookies don't match up! STOP HACKING THIS SITE.");
}
}
else {
    die ("You are not an admin! LEAVE.");
}
}

setcookie("sample-hash", md5($secret . urldecode("admin" . "admin")), time() + (60 * 60 * 24 * 7));

if (empty($_COOKIE["source"])) {
    setcookie("source", 0, time() + (60 * 60 * 24 * 7));
}
else {
    if ($_COOKIE["source"] != 0) {
        echo ""; // This source code is outputted here
    }
}
</pre>

```

- 分析下源码发现，首先是判断cookie是否有getmein，才会执行其余的，先加上。

<pre> Referer: http://ctf5.shiyanbar.com/web/kzhan.php Cookie: sample-hash=571580b26c65f306376d4f64e53cb5c7; source=1;getmein=1 Connection: close Upgrade-Insecure-Requests: 1 Content-Type: application/x-www-form-urlencoded Content-Length: 30 username=admin&password=admin </pre>	<pre> Set-Cookie: sample-hash=b/1580b26c65f3063/6d4f64e53cb5c7; expires=Sat, 24-Aug-2019 12:00:42 GMT; Content-Length: 1331 <html> <body> You are not an admin! LEAVE.<pre> \$flag = "XXXXXXXXXXXXXXXXXXXXXXXXXXXX"; \$secret = "XXXXXXXXXXXXXXXXXXXX"; // This secret is 15 characters long for security! \$username = \$_POST["username"]; \$password = \$_POST["password"]; if (empty(\$_COOKIE["getmein"])) { if (urldecode(\$username) === "admin" && urldecode(\$password) !== "admin") { if (\$_COOKIE["getmein"] === md5(\$secret . urldecode(\$username . \$password)) { echo "Congratulations! You are a registered user.\n"; die ("The flag is " . \$flag); } else { die ("Your cookies don't match up! STOP HACKING THIS SITE."); } } } else { die ("You are not an admin! LEAVE."); } </pre>
---	---

- 然后再看第二个条件，username必须为admin，密码不可以为admin，再随便写。

<p>request</p> <p>Raw Params Headers Hex</p> <pre> POST /web/kzhan.php HTTP/1.1 Host: ctf5.shiyanbar.com User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:52.0) Gecko/20100101 Firefox/52.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: zh Accept-Encoding: gzip, deflate Referer: http://ctf5.shiyanbar.com/web/kzhan.php Cookie: sample-hash=571580b26c65f306376d4f64e53cb5c7; source=1;getmein=1 Connection: close Upgrade-Insecure-Requests: 1 Content-Type: application/x-www-form-urlencoded </pre>	<p>response</p> <p>Raw Headers Hex HTML Render</p> <pre> HTTP/1.1 200 OK Server: nginx/1.10.2 Date: Sat, 17 Aug 2019 12:02:35 GMT Content-Type: text/html Connection: close X-Powered-By: PHP/5.5.38 Content-Length: 67 <html> <body> </pre>
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- 这个md5扩展长度攻击看了快两个小时才明白，不过搞明白了后这个题是真的挺简单的，回头再写下这个攻击实现的具体原理吧。