浙江水学

本科实验报告

课程名称:		网络安全原理与实践
姓	名:	
学	院:	计算机科学与技术学院
	系:	计算机科学与技术系
专	业:	信息安全
学	号:	
指导教师:		卜凯

2021年3月15日

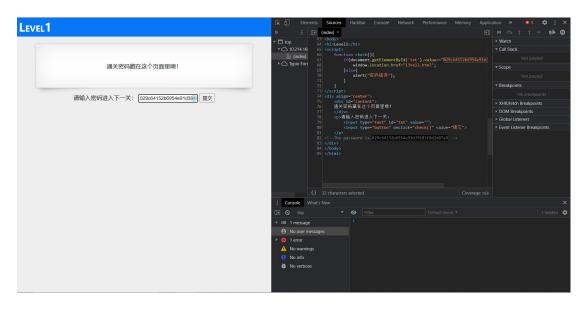
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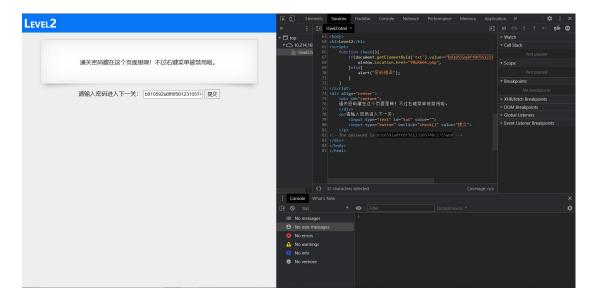
实验名称: Lab 01

Part 1

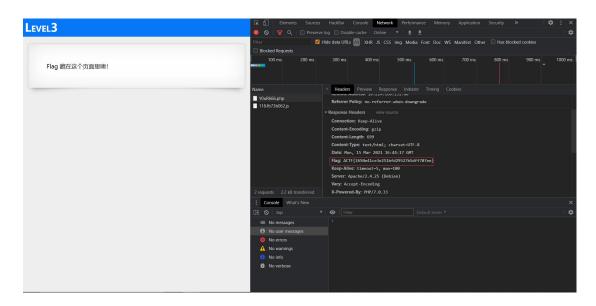
Level 1: The first password is in the comment of source code.



Level 2: The second password is also in the comment of source code.

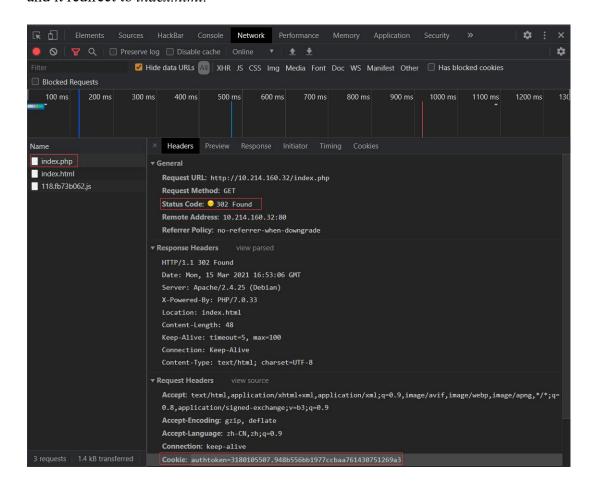


Level 3: The flag is in the response headers.



Part 2

Level 1: The first password is in *index.php* but the status code of it is 302 redirection and it redirect to *index.html*.

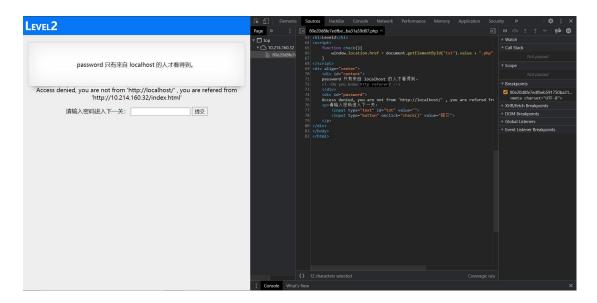


We can request the content of the website by the command *curl*. Note that parameter *cookie* is needed as the website need login.

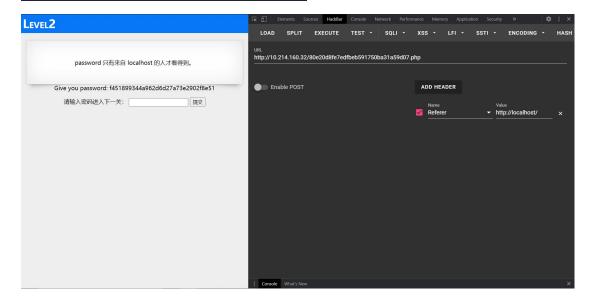
C:\Users\saisai\Desktop>curl --cookie "authtoken=3180105507.948b556bb1977ccbaa761430751269a3" http://10.214.160.32/index.php
The password is 80e20d8fe7edfbeb591750ba31a59d07

Level 2: http://10.214.160.32/80e20d8fe7edfbeb591750ba31a59d07.php

http referer is the hint, so we add a header *Referer* whose value is http://localhost/ through the extension hackbar and get the password.

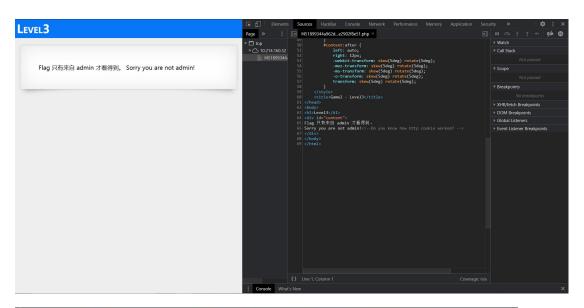


Referer: http://10.214.160.32/index.html

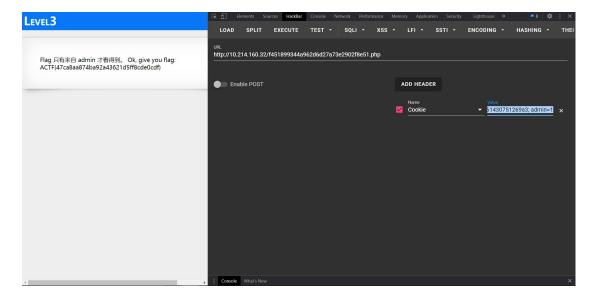


Level 3: http://10.214.160.32/f451899344a962d6d27a73e2902f8e51.php

http cookie is the hint, so we change the value of header *Cookie* from authtoken=3180105507.948b556bb1977ccbaa761430751269a3; admin=0 to authtoken=3180105507.948b556bb1977ccbaa761430751269a3; admin=1 and get the password.

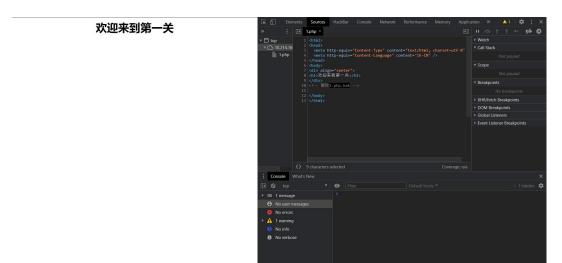


Cookie: authtoken=3180105507.948b556bb1977ccbaa761430751269a3; admin=0

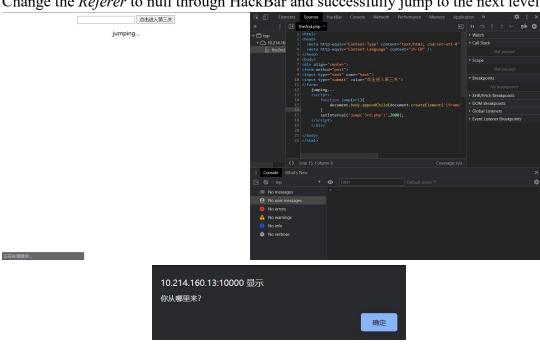


Part 3

Level 1: Visit http://10.214.160.13:10000/1.php.bak to get file *1.php.bak* and find the key *the2nd.php*.



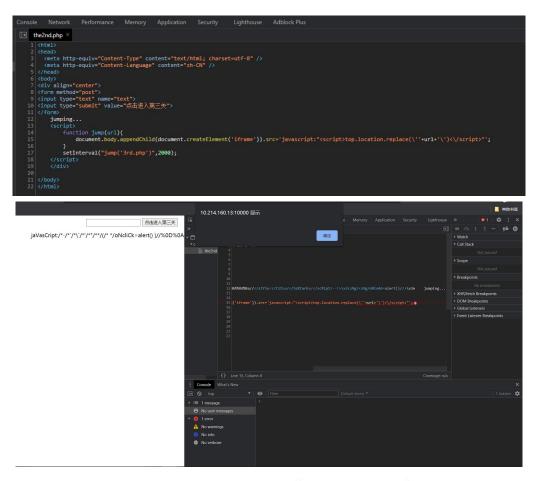
Level 2. When clicking the button and jumping to *3rd.php*, there is a pop-up window. Change the *Referer* to null through HackBar and successfully jump to the next level.



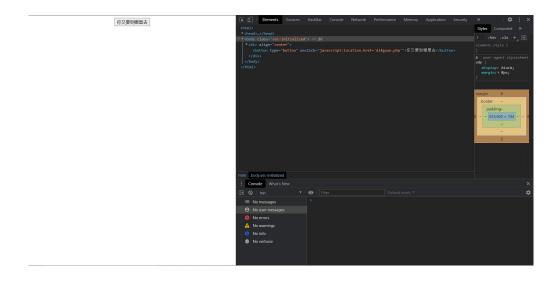
Actually there is a XSS attack in source code, we can check it by the string "jaVasCript%3A%2F*-%2F*%60%2F*%60%2F*%27%2F*%22%2F**%2F(%2F*

%20*%2FoNcliCk%3Dalert()%20)%2F%2F%250D%250A%250d%250a%2F%2F%3C%2FstYle%2F%3C%2FtitLe%2F%3C%2FteXtarEa%2F%3C%2FscRipt%2F--!%3E%3CsVg%2F%3CsVg%2FoNloAd%3Dalert()%2F%2F%3E%3E".

By input <*script*> *window.location="3rd.php"* <*/script*>, we can also jump to the next level successfully.

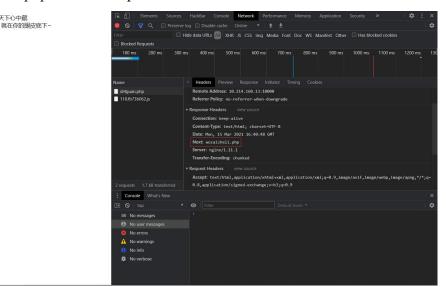






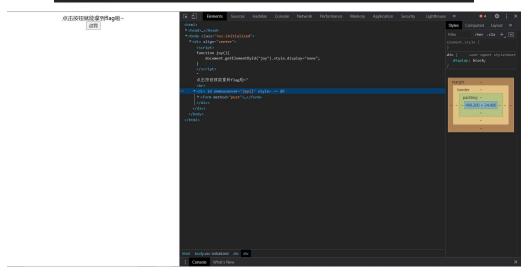
Level 4: http://10.214.160.13:10000/di4guan.php

Next level wozaizheli.php is in the response header Next.



Level 5:

step 5. View the source code and find that the button is hidden, delete the *id* and *style* "*display:none;*" then click the button and find the flag.



点击按钮就能拿到flag啦~ flag: AAA{yOu 2a gOod front-end Web developer}

Part 4

Level 1: Ping *zju.tools* to get the ip and scan port 9000-11000 of its ip server by the command "*nmap -p 9000-11000 -r 103.205.8.47 -sV*" to find the ssh port 10822.

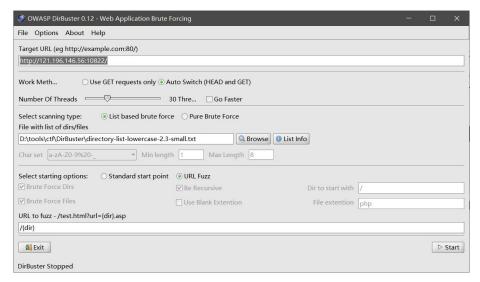
```
C:\Users\saisai\Desktop\GitHack-master>ping zju.tools

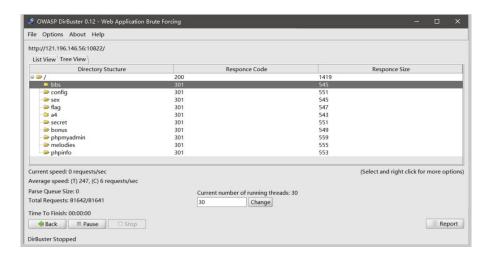
正在 Ping zju.tools [103.205.8.47] 具有 32 字节的数据:
来自 103.205.8.47 的回复: 字节=32 时间=135ms TTL=52
来自 103.205.8.47 的回复: 字节=32 时间=120ms TTL=52
来自 103.205.8.47 的回复: 字节=32 时间=126ms TTL=52
来自 103.205.8.47 的回复: 字节=32 时间=130ms TTL=52

来自 103.205.8.47 的 Ping 统计信息:
数据包: 已发送 = 4,已接收 = 4,丢失 = 0 (0%丢失),
往返行程的估计时间(以毫秒为单位):
最短 = 120ms,最长 = 135ms,平均 = 127ms
```

Level 2: http://121.196.146.56:10822/

Use DirBuster to brute force directories and files according to the instruction and visit presented addresses. Finally find the flag in http://121.196.146.56:10822/phpadmin and bonus in http://121.196.146.56:10822/bonus:)







Flag

AAA (Earth_Three-body-Organization)

