Web: https://github.com/mavam/hacksheet

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Terminology

Each command contains a list of flags that indicate the OS requirement: Linux (L), BSD (B), FreeBSD (F), Hardening Mac OS (M), UNIX (U), and Windows (W).

General Utility

Useful Powershell Commands

★ Download File from Internet

W # Powershell

\$source = "http:www.download.com/file.txt" \$destination = "c:\temp\file.txt" \$wc = New-Object System.Net.WebClient \$wc.DownloadFile(\$source, \$destination)

Reconnaissance

Scanning

* Ping sweep of subnet and host range

U # nmap -sP 10.0.0.0/24 192.168.0.128-254

 \star List all computers in network

W # net view

* Scan specific TCP and UDP ports

U # nmap -pT:21-25,80,U:5000-6000 target

* TCP SYN scan without connecting

U # nmap -PO -sS target

* Detect OS

U # nmap -0 target

U # pOf -s trace.pcap

* Grab application banners

U # nmap -sV target

U # echo QUIT | nc target 1-1024

Wireless

Vulnerability Scanning

Web

* Look for web server vulnerabilities U # nikto -host 10.0.0.1

Physical

- * Check devices
 - Hardware keylogger (e.g., USB dongles)
 - Rogue WiFi cards

OS & Software

* Check for package repositories

L # vi /etc/apt/sources.list (Ubuntu)

L # vi /etc/yum.repos.d/* (RHEL/Fedora)

* Run package updates

L # yum upgrade package

L # apt-get upgrade package

* Update Kernel

L # yum update kernel (RHEL/Fedora)

L # apt-cache search linux-image; apt-get install linux-image-x.x.x-xx (Debian)

* Harden SSHD

U FAIL2BAN

U # vi /etc/ssh/sshd_config

Protocol 2

AllowUsers root admin webmaster

AllowGroup sshusers

PasswordAuthentication no

HostbasedAuthentication no

RSAAuthentication yes

PubkeyAuthentication yes

PermitEmptyPasswords no

PermitRootLogin no

ServerKeyBits 2048

IgnoreRhosts yes

RhostsAuthentication no

RhostsRSAAuthentication no

User Management

★ Show account security settings

U # passwd -1 user

L # chage -1 user

W # net accounts

W # net accounts /domain

* View Users

W # wmic useraccount list brief

* Look for users with root privileges

U # awk -F: '\$3 == 0 {print \$1}' /etc/passwd

W # net localgroup administratos

* Look for users with empty passwords

U # awk -F: '\$2 == "" {print \$1}' /etc/shadow

★ Make Passwords Expire

W # wmic path Win32_UserAccount Set PasswordExpires=True

W # wmic path Win32_UserAccount where name="username" Set PasswordExpires=True

W # wmic path /Node: remotecomputer Win32 UserAccount where name="username" Set PasswordExpires=True

★ Verify group memberships

U # vi /etc/group (admin, sudo, wheel)

* Check sudo users

II # visudo

★ Check crontab users

U # for u in \$(cut -f1 -d: /etc/passwd); do crontab -u \$u -1: done

* Check remote authentication

U # vi ~/.rhosts

U # vi ~/.ssh/*

* Change passwords

U # pwgen -sy (generate strong passwords)

U # passwd user

W # net user user *

File System Network **Forensics** * Show firewall rules L # for t in nat mangle filter raw; do Processes iptables -t \$t -nL; done ★ Inspect startup items W # netsh firewall show portopening L # initctl show-config (upstart, Ubuntu) W # netsh firewall show allowedprogram F # less /etc/rc.local (deprecated) W # netsh firewall show config * Secure mount points F # grep local_start /etc/defaults/rc.conf * Close ports U # mount -o nodev, noexec, nosuid /dev.. /tmp W Autoruns \rightarrow Options \rightarrow Filter Options \boxtimes Verify code W # netsh advfirewall firewall add rule signatures \(\pi \) Hide Microsoft entries name="BlockAIM" * Find SETUID and SETGID files and types protocol=TCP U # find / \(-perm -4000 -o -perm -2000 \) dir=out remoteport=4099 action=block -exec file \{\} \; * Shut down SMB vulnerable services * List file attributes U # crontab -e W SECONFIG XP Disable NetBIOS over TCP/IP L # lsattr /var/log/foo 0.4 * * * find / (-perm - 4000 - o - perm(all interfaces) | Disable SMB over TCP/IP | B # ls -ol /var/log/foo -2000 \) -type f > /var/log/sidlog.new && \square Disable RPC over TCP/IP \rightarrow Apply \rightarrow Yes W # cacls.exe file.txt diff /var/log/sidlog.new /var/log/sidlog && ★ Check DNS resolver mv /var/log/sidlog.new /var/log/sidlog U # vi /etc/resolv.conf * Find world/group writeable directories * Disable IPv6 U # find / \(-perm -g+w -o -perm -o+w \) L # ipv6.disable=1 (add to kernel line) -type d -exec ls -ald $\{\\}\$; L # vi /etc/sysctl.conf ★ File creation date * Find all unsigned processes net.ipv6.conf.all.disable_ipv6 = 1 W # dir /tc /od W PROCESSEXPLORER Options \rightarrow Verify Image Signatures net.ipv6.conf.<interface0>.disable_ipv6 = 1 U # ls -li /etc | sort -n \star View Process File Location net.ipv6.conf.<interfaceN>.disable_ipv6 = 1 W PROCESSEXPLORER View → Select Columns... → Image vi /etc/hosts (comment IPv6 hosts) Path L # vi /etc/sysconfig/network ★ Display listening TCP/UDP ports NETWORKING_IPV6=no LWU # netstat -tun IPV6INIT=no * System file checker W TCPVIEW service network restart W # sfc /scannow B # netstat -p tcp -an | egrep L # vi /etc/modprobe.conf 'Proto|LISTEN|udp' install ipv6 /bin/true (append to file) U # lsof -nPi | awk '/LISTEN/' L # vi /etc/modprobe.conf (RHEL/CentOS) F # sockstat -4 -1 alias net-pf-10 off * Check active connections to find backdoors ★ File signature serification L # vi /etc/modprobe.conf (Debian/Ubuntu) U # lsof -nPi | awk '/ESTABLISHED/' W # sigverif alias net-pf-10 off ★ Currently Running Tasks/Processes W SIGCHECK alias ipv6 off W # tasklist -svc W # reg add hklm\system\currentcontrolset\services\LU # ps aux | less W # sigcheck -e -u -s c:\ tcpip6\parameters /v DisabledComponents /t LU # top REG_DWORD /d 255 LU # ps -u user * Check network configuration ★ Kill Tasks/Processes L # vi /etc/network/interfaces (Ubuntu) W # taskkill -pid pid

L # vi /etc/sysconfig/network-scripts/ifcfg-eth*

(RHEL)

LU # kill pid

★ Make files append-only

L # chattr +a /var/log/foo

Users

```
* Inspect logged in and past users
    U # W
    U # last | head
    U # ps -ef | awk '$6 != "?"' (interactive procs)
    W PsLoggedON
    W Task Manager (open as administrator) -> Users
        Tab
    W # wmic computersystem get username
    W # wmic /node: remotecomputer computersystem
        get username

Cleanup

* Kill all processes accessing a mount point
    U # fuser -k -c /mnt/secret

Drivers
    * Driver query
windows # driverquery (-v)
```

References

```
    http://bit.ly/cmd-line-kung-fu
    http://www.robvanderwoude.com/ntadmincommands.
php
    http://pubs.vmware.com/vsphere-50/topic/com.
vmware.ICbase/PDF/vsphere-esxi-vcenter-server-50-security-guide.
pdf
```

Very Useful Downloads

- Sys Internals: http://technet.microsoft.com/en-us/sysinternals/bb842062
- Seconfig XP: http://seconfig.sytes.net/