Hping

Usage:
`# hping [Options] [TargetIPaddr]`

Send packets to `[TargetIPaddr]` as specified by `[Options]`

Options:
`--count [N]:` Number of packets to send
`--beep:` Beep when a packet is *received*
`--file [FileName]:` Send contents of file as a payload, must be used with `--data`
`--data [N]:` Length of payload to send in bytes, if no `--file` is specified, payload is all X's
`--interface [Interface]:` Use specified interface name

Speed Options:
`--fast:` Ten packets per second
`--faster:` One million packets per second
`--flood:` Send packets as fast as possible
`--interval [Seconds]/u[Microseconds]:` Interval in seconds/microseconds between sent packets

Modes:
Default Mode: TCP
`--rawip:` Send raw IP packets, no TCP/UDP
`--icmp:` Send ICMP packets
`--udp:` Send UDP packets

Source Selection:
`--spoof [Hostname]:` Send all packets from specified source address

Hping (continued)

Target Address Selection:
Single Target:
`# hping [TargetIPaddr]`
Send packets to `[TargetIPaddr]`

Random Multiple Targets:
`# hping --rand-dest 10.10.10.x --interface eth0`
Send packets to 10.10.10.x with x being randomly chosen for each packet between 1 and 255
`--interface` must be used with `--rand-dest`

Dest Port Selection:
Single Port:
`--destport [Port]`
`[Port]:` Send packets to this port
`+[Port]:` Increment port number by one for each *response received*
`++[Port]:` Increment port number by one for each packet *sent*
Multiple/Range of Ports:
`--scan [PortRange/List]:` Scan this target range or list of ports (x-y,z,known). The known keyword tells Hping to send packets to the list of ports in /etc/services

Source Port Selection:
Default: Use source port > 1024 assigned by OS, incrementing for each packet sent
`--baseport [Port]:` Start with this source port, incrementing for each packet sent
`--keep:` Use only a single source port for all packets

Misc Tools Cheat Sheet

By Ed Skoudis

POCKET REFERENCE GUIDE

SANS INSTITUTE
http://www.sans.org

Purpose

The purpose of this cheat sheet is to describe some common options for a variety of security assessment and pen test tools covered in SANS 504 and 560.

Tools Described on This Sheet

Metasploit 3.X
The Metasploit Framework is a development platform for developing and using security tools and exploits.

Metasploit Meterpreter
The Meterpreter is a payload within the Metasploit Framework which provides control over an exploited target system, running as a DLL loaded inside of any process on a target machine.

Fgdump
FGDump is a tool for locally or remotely dumping runtime Windows password hashes.

Hping
Hping is a command-line TCP/IP packet assembler/analyzer

Metasploit Console (msfconsole)

Search for module:
`msf > search [regex]`

Specify an Exploit to use:
`msf > use exploit/[ExploitPath]`

Specify a Payload to use:
`msf > set PAYLOAD [PayloadPath]`

Show options for the current modules:
`msf > show options`

Set Options:
`msf > set [Option] [Value]`

Start Exploit: `msf > exploit`

Metasploit Meterpreter

Base Commands:
? / help: Display a summary of commands
exit / quit: Exit the Meterpreter session
sysinfo: Show the system name and OS type
shutdown / reboot: Self-explanatory

File System Commands:
cd: Change directory
lcd: Change directory on local (attacker's) machine
pwd / getwd: Display current working directory
ls: Show contents of a directory
cat: Display contents of a file on screen
download /upload : Move files to/from target machine
mkdir / rmdir: Make / Remove directory
edit: Open a file in an editor, default is vi

Metasploit Meterpreter (contd)

Process Commands:
getpid: Display the process ID that Meterpreter is running inside
getuid: Display the user ID that Meterpreter is running with
ps: Display process list
kill: Terminate a process given its process ID
execute: Run a given program with the privileges of the process the Meterpreter is loaded in
migrate: Jump to a given destination process ID
- Target process must have same or lesser privileges
- Target process may be a more stable process
- When inside a process, can access any files that process has a lock on

Network Commands:
ipconfig: Show network interface information
portfwd: Forward packets through TCP session
route: Manage/view the system's routing table

Misc Commands:
idletime: Display the duration that the GUI of the target machine has been idle
uictl [enable/disable] [keyboard/mouse]: Enable/Disable either the mouse or keyboard of the target machine

Additional Modules:
use [module]: Load the specified module
Example:
use priv: Load the Priv module
hashdump: Dump the hashes from the box
timestomp: Alter NTFS file timestamps

FGDump

Usage:
`C:\> fgdump [Options] -h [TargetIPaddr] -u [Username] -p [Password]`
Dump password hashes from **[TargetIPaddr]** with Admin credentials: **[Username]**/**[Password]**

Options:
-c: Skip cache dump
-w: Skip password dump
-s: Perform protected storage dump
-r: Ignore existing pw/cachedump files and don't skip hosts
-v: Verbose output
-l [FileName]: Keep logs in **[FileName]**

Examples:

Dump info from local machine using current user:
`C:\> fgdump`

Dump from a local machine using a different user:
`C:\> fgdump -h 127.0.0.1 -u [Username]`

Dump from a remote machine using a specified user:
`C:\> fgdump -h [TargetIPaddr] -u [Username] -p [Password]`

Dump from a remote machine without cachedump:
`C:\> fgdump -h [TargetIPaddr] -u [Username] -c`