

**hping3**Source: <http://hping.org>

hping is a command-line oriented TCP/IP packet assembler/analyzer for the TCP/IP protocol that sends ICMP echo requests and supports TCP, UDP, ICMP, and raw-IP protocols.

The following table lists the various Hping commands and their respective scanning methods.

**Syntax**

- 1.Scan Commands
- 2.IP Related Commands
- 3.TCP/UDP Related Commands
- 4.TCP Flags
- 5.ICMP Related Commands
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- 7.Protocol Selection Commands

**Scan Commands**

hping Command	Description
hping3 -q <Target> (or) hping3 --quiet <Target>	Scans quietly
hping3 -I<Target> (or) hping3 --interface <Target>	Acts as an Interface
hping3 -D <Target> (or) hping3 --debug <Target>	Debugging info
hping3 -c <Target> (or) hping3 --count <Target>	Count response packets
hping3 -V <Target> (or) hping3 --verbose <Target>	Enable verbose output Example: hping3 -V -S <target ip>
hping3 -i <Target> (or) hping3 --interval <Target>	Wait (uX for X microseconds, for example -i u1000)
hping3 -v <Target> (or) hping3 --version <Target>	Show version information and API used to access to data link layer, linux sock packet or libpcap
hping3 -n <Target> (or) hping3 --numeric <Target>	Numeric output
hping3 -z <Target> (or) hping3 --bind <Target>	Used to bind. Use ctrl+z to increment TTL
hping3 -Z <Target> (or) hping3 --unbind <Target>	Used to unbind
hping3 --beep <Target>	Beep for every matching packet received
hping3 --flood <Target>	Sent packets as fast as possible. Don't show replies
hping3 --fast <Target>	Sends 10 packets / sec
hping3 --faster <Target>	Sends 1 packet / μs

**IP Related Commands**

hping Command	Description
hping3 -a <Target> (or) hping3 --spoof <Target>	Spoof source address
hping3 -A <Target> -p 80	ACK scanning on port 80
hping3 --rand-dest <Target>	Random destination address mode Example: hping3 -i 10.0.1.x --rand-dest -i eth0
hping3 --rand-source <Target>	Random source address mode
hping3 -t <Target> (or) hping3 --ttl <Target>	Set TTL (time to live) value
hping3 -N <Target> (or) hping3 --id <Target>	id [default random]
hping3 -H -ipproto <Target>	Set the IP protocol field, only in RAW IP mode
hping3 -W <Target> (or) hping3 --winid <Target>	Use win* id byte ordering
hping3 -r <Target> (or) hping3 --rel <Target>	Relativize id field to estimate host traffic
hping3 -f <Target> (or) hping3 --frag <Target>	Split packets in more fragments
hping3 -x <Target> (or) hping3 --morefrag <Target>	Set more fragments flag
hping3 -y <Target> (or) hping3 --dontfrag <Target>	Set don't fragment flag
hping3 -g <Target> (or) hping3 --fragoff <Target>	Set fragment offset value
hping3 -G <Target> (or) hping3 --rroute <Target>	Includes RECORD_ROUTE option and display the route buffer
hping3 -m <Target> (or) hping3 --mtu <Target>	set virtual MTU, implies --frag if packet size >MTU
hping3 -W <Target> (or) hping3 --winid <Target>	Type of service (default 0x00)
hping3 --lsrr <Target>	Loose source routing and record route
hping3 --ssrr <Target>	Strict source routing and record route
hping3 -x <Target> (or) hping3 --morefrag <Target>	Set more fragments flag
hping3 -y <Target> (or) hping3 --dontfrag <Target>	Set don't fragment flag

**TCP/UDP Related Commands**

hping Command	Description
hping3 -s <Target> (or) hping3 --baseport <Target>	Base source port [random], +1 on received
hping3 -p <Target> (or) hping3 --destport <Target>	Destination port [0] if have, have: ++port increased for each reply ++port increased for each sent
hping3 -w <Target> (or) hping3 --win <Target>	Set Win size [64]
hping3 -O <Target> (or) hping3 --tcpoff <Target>	Set fake TCP data offset
hping3 --keep <Target>	Still source port
hping3 -b <Target> (or) hping3 --badcksum <Target>	Send packets with a bad IP checksum
hping3 -M <Target> (or) hping3 --setseq <Target>	Set TCP sequence number
hping3 -L <Target> (or) hping3 --setack <Target>	Set TCP ack
hping3 -Q <Target> (or) hping3 --seqnum <Target>	Collects initial sequence number Example: hping3 <target ip> -Q -p 139 -s

**TCP Flags**

hping Command	Description
hping3 -R <Target> (or) hping3 --rst <Target>	Set Reset flag Example: hping3 -rst -S <target ip>
hping3 -A <Target> (or) hping3 --ack <Target>	Set ACK flag Example: hping3 -A <target ip> -p 80
hping3 -F <Target> -p 80 (or) hping3 --fin <Target> -p 80	Set FIN flag scan on port 80 Example: hping3 -F -P -U <target ip> -p 80
hping3 -S <Target> (or) hping3 --syn <Target> -p 80	Set SYN flag Example: hping3 -S 192.168.1.1 -a192.168.1.254 -p 22 --flood
hping3 -U <Target> -p 80 (or) hping3 --urg <Target> -p 80	Set URG flag scan on port 80 Example: hping3 -F -P -U <target ip> -p 80
hping3 -X <Target> (or) hping3 --xmas <Target>	Set X unused flag (0x40)
hping3 -Y <Target> (or) hping3 --ymas <Target>	Set Y unused flag (0x80)

### hping3

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ICMP Related Commands	
hping Command	Description
hping3 -C <Target> (or) hping3 --icmptype <Target>	Set icmp type, default is ICMP echo request (implies --icmp).
hping3 -K <Target> (or) hping3 --icmpcode <Target>	Set icmp code, default is 0 (implies --icmp)
hping3 --icmp-ipver <Target>	Set IP version of IP header contained into ICMP data, default is 4
hping3 --icmp-iphlen <Target>	Set IP header length of IP header contained into ICMP data, default is 5 (5 words of 32 bits)
hping3 --icmp-iplen ip <Target>	Set IP packet length of IP header contained into ICMP data, default is the real length
hping3 -i <Target> (or) hping3 --interval <Target>	Set IP id of IP header contained into ICMP data, default is random
hping3 --icmp-ipid <Target>	Set IP protocol of IP header contained into ICMP data, default is TCP.
hping3 --icmp-ipproto <Target>	Set ICMP checksum, for default is the valid checksum.
hping3 --icmp-cksum <Target>	Alias for --icmp --icmptype 13 (ICMP timestamp)
hping3 --icmp-ts <Target>	Alias for --icmp --icmptype 17 (ICMP address subnet mask)
hping3 --icmp-addr <Target>	Set gateway address for ICMP redirect (default 0.0.0.0)
hping3 --icmp-gw <Target>	Sent packets as fast as possible. Don't show replies
hping3 --icmp-help <Target>	Display help for others ICMP options
hping3 --force-icmp <Target>	Send all ICMP types (default send only supported types)

### Common hping Commands

hping Command	Description
hping3 -E <Target> (or) hping3 --file <Target>	File inserted into packet's data
hping3 -e <Target> (or) hping3 --sign <Target>	Add 'signature'
hping3 -d <Target> (or) hping3 --data <Target>	Data size of packet body size
hping3 -j <Target> (or) hping3 --dump <Target>	Dump received packets in hex
hping3 -J <Target> (or) hping3 --print <Target>	Print dump in printable character
hping3 -B <Target> (or) hping3 --safe <Target>	Safe lost packets will be resent
hping3 -u <Target> (or) hping3 --end <Target>	Tells when --file reached EOF and prevent rewind
hping3 -T <Target> (or) hping3 --traceroute <Target>	Traceroute mode
hping3 --tr-keep-ttl <Target>	Keeps TTL fixed
hping3 --tr-stop <Target>	Exit when receive the first not ICMP in traceroute mode
hping3 --tr-no-rtt <Target>	Don't show RTT
hping3 --tcpexitcode <Target>	Use last tcp->th_flags as exit code
hping3 --tcp-mss <Target>	Enable the TCP MSS option with the given value
hping3 --tcp-timestamp <Target>	Enable the TCP timestamp option to guess the HZ/uptime
hping3 --apd-send <Target>	Example: hping3 -S <target ip> -p 80 --tcp-timestamp Send the packet described with APD (see docs/APD.txt)

### Protocol Selection Commands

hping Command	Description
hping3 -0 <Target> (or) hping3 --rawip <Target>	Raw IP mode
hping3 -1 <Target> (or) hping3 --icmp <Target>	ICMP mode Example: hping3 -1 <target ip>
hping3 -2 <Target> (or) hping3 --udp <Target>	UDP mode Example: hping3 -2 <target ip> -p 80
hping3 -8 <Target> (or) hping3 --scan <Target>	Scan mode Example: hping3 --scan 1-30,70-90 -S <target website> Example: hping3 -8 50-60 -S <target ip> -V
hping3 -9 <Target> (or) hping3 --listen <Target>	Listen mode Example: hping3 -9 HTTP -I eth0