

IPv6 Tools

BUILT-IN TOOLS

Ping / Traceroute

- Windows
 - Same as IPv4 (ping and tracert)
- Unix-like
 - Suffix with 6 (ping6 and traceroute6)
 - Must specific iface for link-local
 - Other commands
 - Try -4 or -6 to force mode

Fun with multi-cast

- <http://www.iana.org/assignments/ipv6-multicast-addresses/>
- Ping every link-local address
 - `ping6 ff02::1%eth0`
- Every router
 - `ping6 ff02::2%eth0`

<http://www.thc.org/thc-ipv6/>

THC IPV6 TOOLKIT

fake_router6

- Sends a Router Advertisement (RA)
 - Specify interface and prefix
 - `2001:db8::/32` is reserved for example networks
- Nodes with autoconf will set an IP
- Many other options

flood_router6

- Evil twin of previous command
- Sends out many thousand RAs
 - All different
- Autoconf devices inundated with IPs

detect-new-ipv6 / dos-new-ipv6

- ICMPv6 duplicate address detection (DAD)
- detect-new-ipv6
 - Prints out any new address
 - Options pipes them to a script (autorun nmap?)
- dos-new-ipv6
 - Responds to every DAD
 - Autoconf theoretically fails

alive6

- Neighbor discovery
- See what nodes are on network

fuzz_ipv6 / exploit6

- Tries sending various malformed packet
- fuzz_ipv6
 - Lets you control what is malformed
 - Send to a specific target
- exploit6
 - Tries known implementation exploits
 - Most of them are fixed already

parasite6 / redir6

- Attempt man in the middle attacks
- parasite6
 - Acts like a IPv4 ARP spoofer
 - Convince other node you own that IP
- redir6
 - Uses ICMPv6 redirect
 - Try to convince node you have better route