

IPv6 Toolkit News

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IPv6 Toolkit

- IPv6 security assessment/trouble-shooting toolkit
 - Portable (*BSD, Mac OS, Linux)
 - Good documentation
 - Free software (GPL)
 - Can easily craft arbitrary packets
- <http://www.si6networks.com/tools/ipv6toolkit>

What has been going on?

- Quite a few bugs spotted, thanks to:
 - Trying the toolkit on different platforms
 - Trying compilers other than gcc (clang)
- Manpages improved
 - Thanks to Octavio Alvarez (with Lintian and manual edits)
 - Added ipv6toolkit(7)
- Improved support for generating packages
 - Support of DESTDIR variable
 - Better support for selecting the destination paths
- Upcoming Debian package (Octavio Alvarez)
 - In addition to the existing FreeBSD and NetBSD packages

Upcoming tools/features

- udp6
 - send arbitrary UDP/IPv6 datagrams
- dns6
 - DNS/IPv6 packet forgery
- tcp6
 - support for sending/receiving data
- scan6
 - Support for congestion detection
 - Support for automated hinted scans

Implementing automatic hinted scans

- Pipe addresses to scan6
- scan6 detects the address pattern
- scan6 targets addresses that follow such pattern
- Caveat: need to remove overlapping search spaces

Implementing congestion detection

- Hard to tell whether you're congesting the network when scanning
- Approach:
 - Traceroute the target destination network
 - “ping” the last hop router from time to time
 - Back-off if no response is received

Thanks!



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