DNSSEC trigger

Or how to get DNSSEC to the end-user

Wouter Wijngaards
&
Olaf Kolkman
How to get DNSSEC to your machine, without too much of a headache

dnssec-trigger

Run Unbound Locally

Catch reconfigs (DHCP etc)

Try to penetrate

If all fails call user
How to get DNSSEC to your machine, without too much of a headache

Fire and Forget
Motivation

Or how to get DNSSEC to the end-user
Components

A (specific) general purpose Recursive Nameserver

Automatic probing and configuration software
Unbound

A (specific) general purpose Recursive Nameserver

Automatic probing and configuration software
PROBE EXPECTATIONS

- EDNS support
- RRSIGs
- DNSKEY and DS
- Lengthy Packets (>512)
- NSEC3 Support
- Transparent Proxy that is transparent to DNSSEC

AND IT WILL PROBE AGAIN

If insecure against its will

exp backoff
All IPs in resolv.conf are tried in parallel, first response wins
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Use Cache from DHCP
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Use Cache from DHCP

Full resolver mode, querying authority servers directly

Port 80 and 443 to an NLnet Labs resolver
Probe fails to get through, are you in a hotel?

No Pop-Ups if everything just works

Only during probing operation

Disables DNSSEC and opens browser
DNSSEC trigger worked around the local DNS resolver.
DNSSEC trigger worked around the local DNS resolver.

And you never even noticed.
Network Manager
Netconfig

WSALookupService
(XP, Vista, 7)

Scripts, ifconfig, ipconfig

GTK2

unity

Windows Native

Cocoa OS X
See the following presentation.

But also used on 70 routers.

Or behind all the others to route around DNSSEC support in those routers.

See the following presentation.

Designed for dynamic environments (road warriors).

https://www.dnssec-deployment.org/index.php/2012/03/is-a-70-router-fast-enough-for-dnssec/
Recent Improvements

Auto detecting hot-spot sign-on

Software Update for Windows and OSX

RPM readily available.
Mailing list for user experiences
http://open.nlnetlabs.nl/mailman/listinfo/dnssec-trigger

Webpage
http://nlnetlabs.nl/projects/dnssec-trigger/
If you use our software then consider to support NLnet Labs’ mission Financially:
http://www.nlnetlabs.nl/labs/contributors/

Questions:
olaf@nlnetlabs.nl

or
wouter@nlnetlabs.nl

That’s it folks