DNSSEC in .nl

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Agenda

1. About SIDN
2. About DNSSEC in .nl
SIDN

- Registry for the .nl ccTLD
- RSP for .amsterdam and .aw (Aruba)
- SIDN Labs = R&D team
- ~5.6M domain names, ~2.5M DNSSEC signed (44%)
- https://stats.sidnlabs.nl/

http://www.nominet.uk/mapping-the-online-world/
DNSSEC

• Largest DNSSEC zone in the world! (in absolute numbers)

Domains Secured with DNSSEC

<table>
<thead>
<tr>
<th>TLD</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>com</td>
<td>545,400</td>
</tr>
<tr>
<td>net</td>
<td>96,081</td>
</tr>
<tr>
<td>edu</td>
<td>67</td>
</tr>
</tbody>
</table>

Updated 2016-03-14 16:14:30

http://scoreboard.verisignlabs.com/

https://rick.eng.br/dnssecstat/
DNSSEC How?

- Lots of DNS(SEC) knowledge in the Netherlands!
DNSSEC How?

• But... (after all we are Dutch), the DNSSEC-incentive arrangement proofed most successful!
• Registrars receive a discount for every signed domain name.

  • Pros:
    • VERY successful.
    • DNSSEC is a “commodity”

  • Threats:
    • Money might outweigh quality.

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DNSSEC How?

- DNSSEC Validationmonitor XXL
- Every signed domain name,
  - tested every day,
  - on several aspects.
Registrar Scorecard

- Incorrectly signed DNSSEC will have an impact on the RSC incentive.
DNSSEC Awareness

- Apply for inclusion on the ‘comply-or-explain’ list of open standards of the Dutch Government.
- Standardisation within the IETF (for example EPP Keyrelay draft for secure transfers)
- Several lab experiments, such as the ValiBox
- Webinars
- Online training material (http://www.dnsseccourse.nl/)
- Many tools, such as https://dnssectest.sidnlabs.nl/
- Dedicated site with information: https://www.dnssec.nl/
- And... participating in https://internet.nl/!
- (among lots of other things)
Current challenges

- DNSSEC Validation...
- DNSSEC Validation...
- DNSSEC Validation...

- (in NL similar to PL)

- This turns out to be a lengthy, cumbersome process, much like IPv6 (although there is hope)

http://stats.labs.apnic.net/dnssec
Approach

• Take a multi-track approach
  • Offer validation functionality
  • Help further reducing validation errors
  • Go horizontal (thru ISPs) as well as vertical (industry-specific)

• Help others
  • Sponsor software development (such as Unbound, BIND, PowerDNS)
  • Sponsor large-scale validation pilots, for instance at universities
  • Enable policy development, for instance at government agencies
  • Promote use (internet.nl, stats.sidnlabs.nl, dnssec.nl)
Questions?
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Thank you!