



DNSSEC Portfolio Checker

DNSSEC Workshop

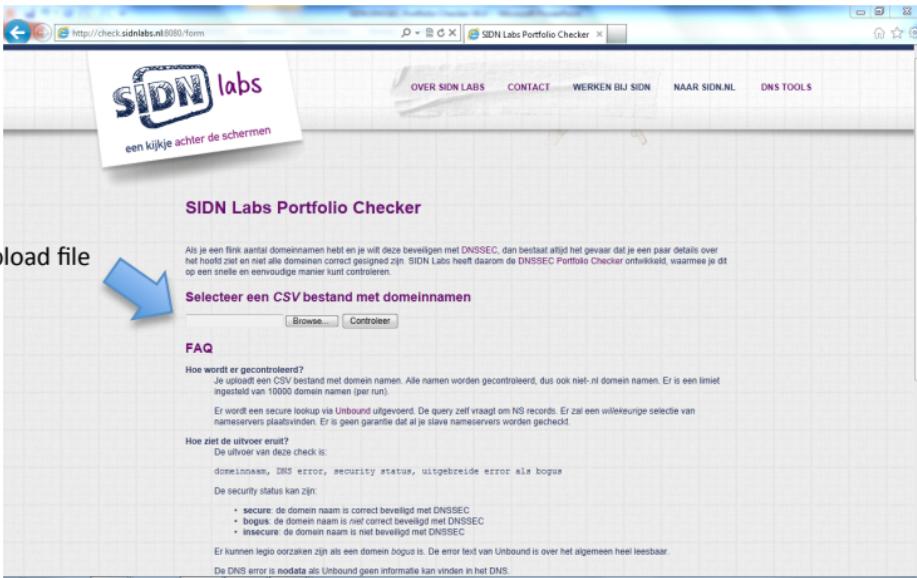
ICANN45, Toronto

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<http://check.sidnlabs.nl:8080/form>



The screenshot shows a web browser window for the SIDN Labs Portfolio Checker. The page has a header with the SIDN labs logo and navigation links for OVER SIDN LABS, CONTACT, WERKEN BIJ SIDN, NAAR SIDN.NL, and DNS TOOLS. Below the header is a section titled "SIDN Labs Portfolio Checker". A large blue arrow points from the text "Upload file" to the "Selecteer een CSV bestand met domeinnamen" input field, which contains the placeholder text "Browse... Controleer". Below this is a "FAQ" section with questions about domain name checks, security status, and error types.

Result: <domain, status, error>, with status being secure, insecure, bogus, or nodata
REST interface: <http://check.sidnlabs.nl:8080/check/example.nl>

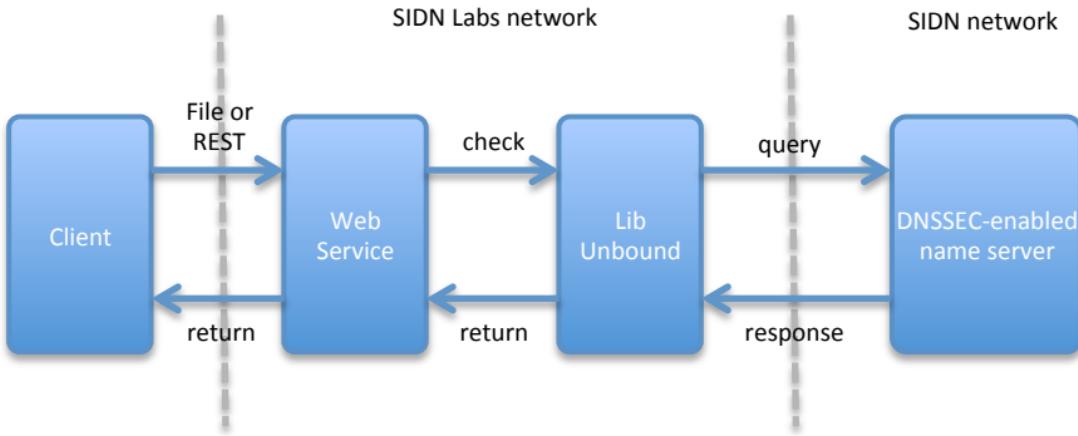


Motivation

- Help our registrars with DNSSEC (part of adoption strategy)
- Beta-version of potential new SIDN service
- Rapid service validation through SIDN Labs
- Starting point for DNSSEC Health Monitor (crawler)



Technical Setup



Runs as VM:

- o KVM instance
- o Written in GO
- o Source: github.com/SIDN/unboundcheck



Communications

- SIDN Account Manager
- Email to registrars
- News flash and blog posts
 - www.dnssec.nl
 - www.sidnlabs.nl
 - www.sidn.nl



Checker Statistics

- Around 20 registrars (out of 1700)
- 38.779 domains checked
 - 93,3% secure (36.173)
 - 3,4% insecure (1.300)
 - 2,3% bogus (909)
 - 1,0% no data (397)
- Since Aug 17, 2012 (including our own runs)

Bogus domain names

- Random sample of 10K signed domain names
 - Out of 700K total, late Aug 2012
- 95% confidence interval, 1% error
- 66 bogus domain names out of 10K (0,66%)
- Which is fine

Secure transfers

- 8.316 domain names (as of June 1, 2012)
- 801 bogus, which is 9,63% (139 registrars involved)
- That's quite a bit!

Conclusions

- Low interest from registrars
- Rapid service validation helpful for go/no go to production
- Quickly and easily discovered erroneous transfers
- Next step: DNSSEC crawler
 - Check entire .nl zone in around 20 hours

Q&A

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<http://check.sidnlabs.nl:8080/form>

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