

DNSSEC:

check ?

INTRO

- Infomaniak Network SA

- Myself

MASTER PLAN

- Sell hosting plans [x]
 - Sell domains [x]
 - Become a registrar [x]
 - Biggest hosting provider in CH [x]
 - Implement DNSSEC []
-

- Look cool []

WHAT IS DNS ?

- Protocol
- Processes

HOW TO DO DNS ?

Hosting

WHAT IS DNSSEC ?

YES !

HISTORY

1997 first RFC

<https://www.ietf.org/rfc/rfc2535.txt>

2005 prod

<https://www.ietf.org/rfc/rfc4033.txt>

2010 signing of .

KSK 2017 => 11/10/2018

<https://www.icann.org/news/announcement-2018-10-15-en>

HOW TO DO DNSSEC ?

Software (easy)

DS records, EPP, etc (not easy)

HOW TO REALLY DO DNSSEC

Convince people

Present to customers

DOING DNSSEC

if 100% fine: ok

Anything missed ?

Kaput ! (c) @jpmens

NOW

24 OCT 2016

24.10.16 other s (toutes notre p...	<div data-bbox="2007 768 2099 831" style="float: right;">OM</div> <p data-bbox="614 801 947 831">DNSSEC en production</p> <p data-bbox="614 853 912 883">À : Infomaniak Staff</p> <hr data-bbox="614 929 2099 931"/> <p data-bbox="614 982 703 1012">Hello,</p> <p data-bbox="614 1055 2142 1153">DNSSEC passe en production à l'instant, disponible chez nous sur 401 extensions (toutes sauf .IT, .ES, .WS, .CZ, .JP, .PT, .TOP, .TK, .AERO, soit la registry ne gère pas DNSSEC soit notre prestataire KS ne le gère pas). Pour activer DNSSEC sur un domaine il faut se rendre sur son dashboard.</p>
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GLOBAL STATS

- 1500 req/sec
- 7% NXDOMAIN
- 130M / day, 4 to 5B / month

DNSSEC RELATED

- 74k signed zones
- roughly 50%

QUERY STATISTICS

NO DNSSEC

DNSKEY	:	1.38%
NS	:	1.64%
TXT	:	2.26%
PTR	:	2.72%
MX	:	6.67%
AAAA	:	22.69%
A	:	58.74%

QUERY STATISTICS WITH DNSSEC

SOA	:	1.39%
TXT	:	1.64%
NS	:	1.64%
MX	:	3.58%
DNSKEY	:	3.95%
AAAA	:	22.74%
A	:	61.98%

QUERY STATISTICS

DNSSEC SPECIFIC

TSIG	:	0.00%
NSEC3	:	0.00%
SIG	:	0.00%
NSEC3PARAM	:	0.00%
RRSIG	:	0.00%
CDNSKEY	:	0.05%
DS	:	0.05%
NSEC	:	0.18%
CDS	:	1.00%
DNSKEY	:	3.95%

ALL GOOD ?

TOMORROW

- NSEC3
- key rollover
- CDS
- DANE

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THANK YOU

Q&A