Encouraging DNSSEC Adoption, What Has Worked and What Hasn't the .br experience

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Incremental deployment
- Started Jul/2006 - 5 small zones
- DS collection since day one (EPP/Web)
- Finished Jan/2009 - .[com|org|net].br nsec3 signed

- Initial phase used only off-line signer
  - Key secured by crypto-fs
  - Manual rollovers

- Second phase - since may/2010
  - 2 signing ceremonies per year
  - Backup site
  - Key secured by HSMs - SSSS
  - Completely automated rollovers

History at .br
• Deploy DNSSEC as mandatory on new chartered SLD for high value domains
  • Non signed zone means no delegations
  • Judiciary (JUS.BR)
  • Banks (B.BR)
  • Legislative (LEG.BR)

• Automated Provisioning Software for Hosting Providers (http://registro.br/dnsshim/)
  • FreeDNS hosting since dec/2010
  • 329k delegations 10.8%
  • TLSA auto-provisioning (usage 1|3)

• Training and continue outreach to ISPs and Hosting Providers
Stats - http://registro.br/stat/dnssec.html

Todos os registros DNSSEC efetuados de 01/01/2005 a 13/10/2012
Outreach and Training
  - Works only for the tech community

Safe Havens
  - Suffers of chicken&egg problem

Monetary Incentives, even indirect ones
  - JustWorks 😊