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

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History at .br

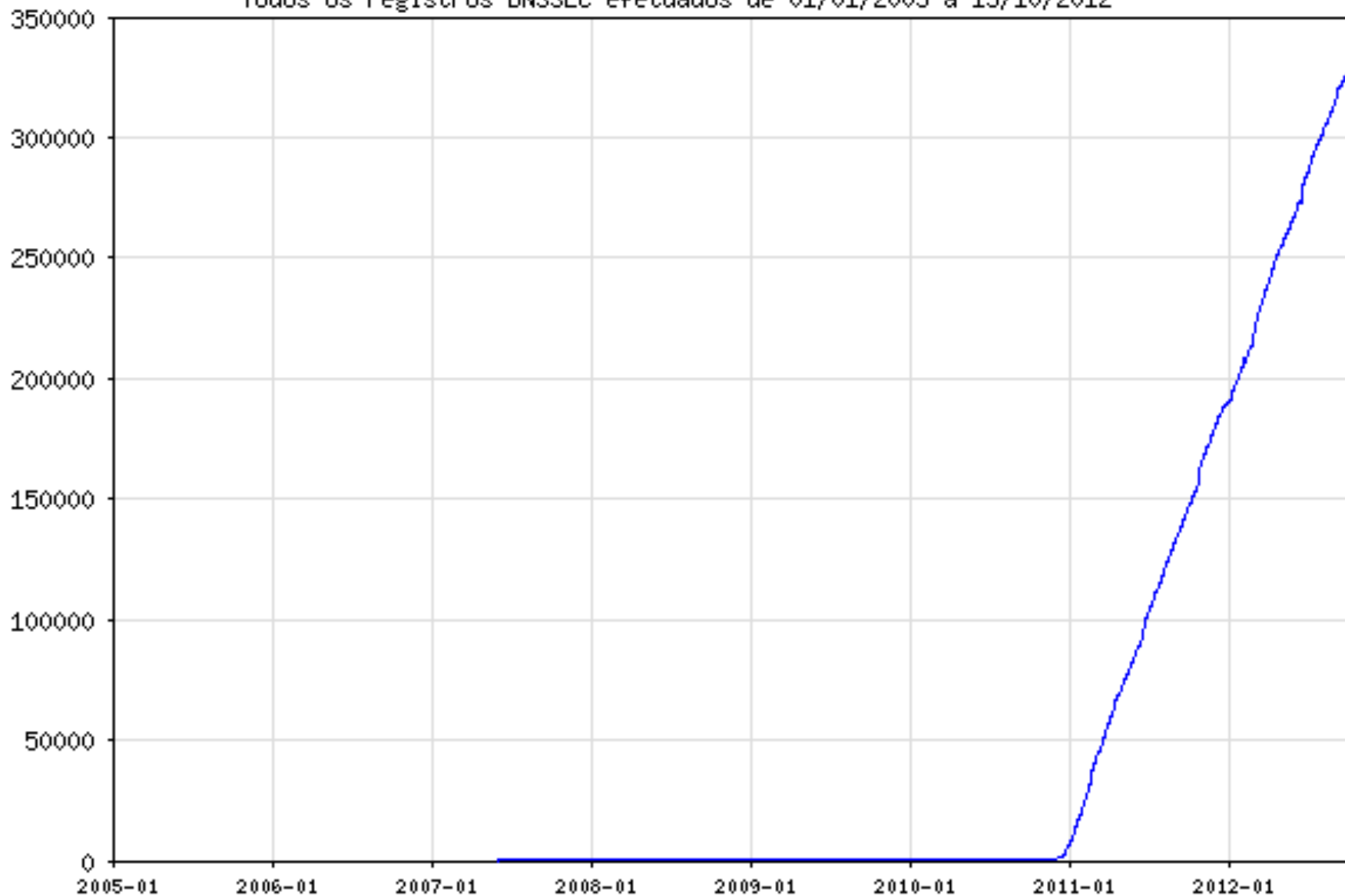
- Incremental deployment
 - Started Jul/2006 - 5 small zones
 - DS collection since day one (EPP/Web)
 - Finished Jan/2009 - `.[com|org|net].br` nsec3 signed
- Initial phase used only off-line signer
 - Key secured by crypto-fs
 - Manual rollovers
- Second phase - since may/2010
 - 2 signing ceremonies per year
 - Backup site
 - Key secured by HSMs - SSSS
 - Completely automated rollovers

Deployment Strategy

- 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



Summary Experience

- Outreach and Training
 - Works only for the tech community
- Safe Havens
 - Suffers of chicken&egg problem
- Monetary Incentives, even indirect ones
 - JustWorks 😊