

DNSSEC at .br update

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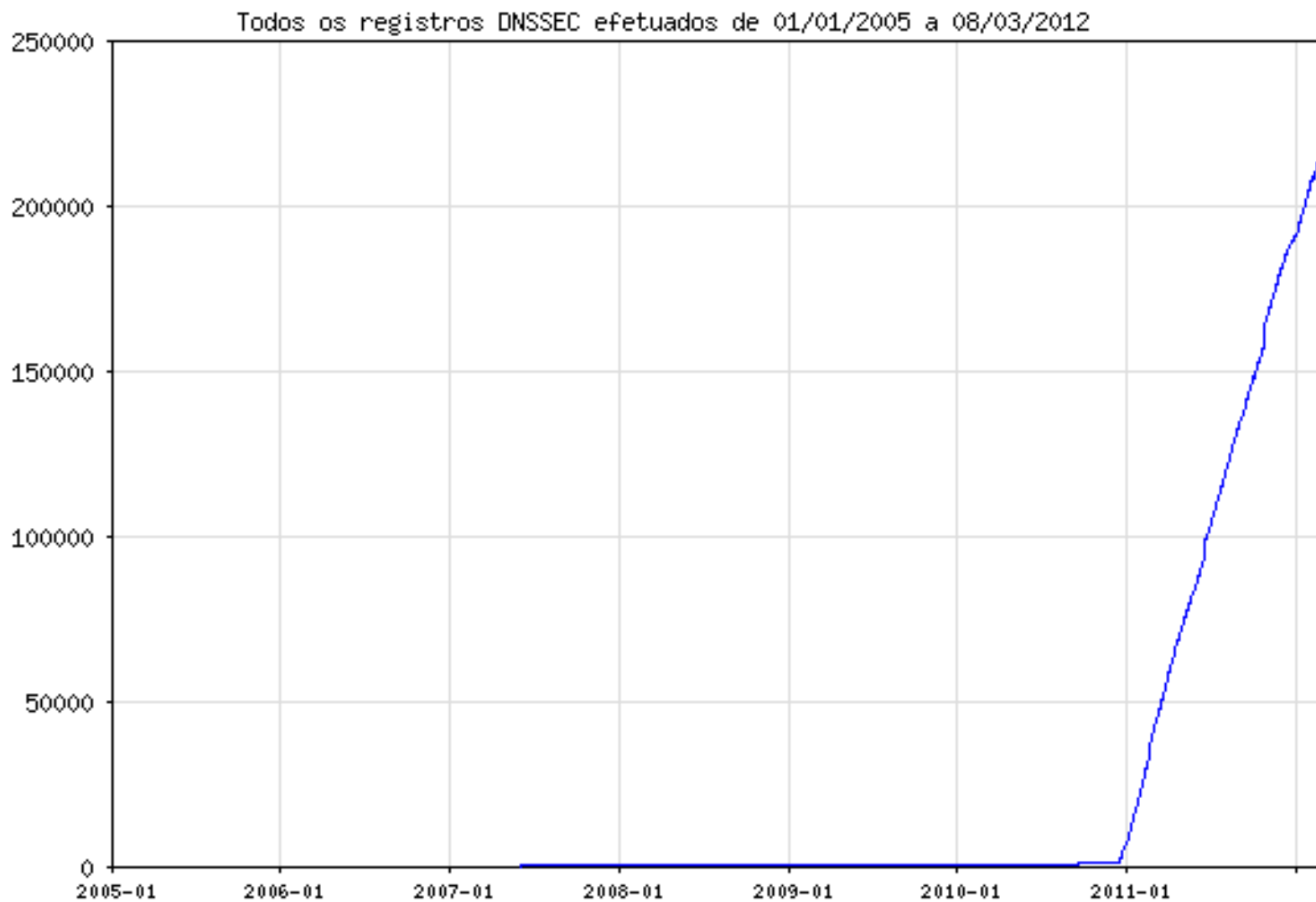
History at .br

- . 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 Power (JUS.BR)
 - oct/2007
 - Banks (B.BR)
 - sep/2008
- Automated Provisioning Software for Hosting Providers (<http://registro.br/dns Shim/>)
 - Dogfooding since dec/2010 - FreeDNS
 - 228k delegations 8%
- Training and continue outreach to ISPs and Hosting Providers

Growth - <http://registro.br/stat/dnssec.html>



Challenges and Benefits

- Hosting/Content Providers auto provisioning
 - BIND 9.9 - PowerDNS 3.x
- More signed content available incentive more ISPs to start validating
- Secure DNS data means secure key distribution for the masses and a fertile environment for security innovation – DANE