



DNSSEC.UA: ZERO TO LIVE IN 6 MONTHS

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Budva, Montenegro*



Prehistory – UA.UA

- Start: November 8th 2011 - Key Signing Key generated at Fourth IPv6 Workshop in Kyiv
- Zone UA.UA signed, keys published in DLV.ISC.ORG
- UA zone updated with DS record for ua.ua
- Test web site <http://ua.ua/> (test by Firefox plugin)



DNSSEC Testbed

- Copy of production environment:
 - BIND 9.8 (then latest release)
 - some shell and Makefile magic
 - FreeBSD with jails
 - rsync over ssh, md5 checksums



Key Generation Ceremony

- Hold on December 2nd, 2011 - UA anniversary, at UAdom conference in Kyiv
- Scripted, rehearsed, recorded on video
- Key parameters - RSASHA512 (10), 2048 bits
- Key lifetime - not set, tentative three years



Signed Cloned Zone

- Anycast server ho1.ua.ua
 - 195.47.253.17 and 2001:67c:258::17
- Test trust anchor (and KSK):
ua. IN DS 29019 10 2
68B5F97978F45398C9C0382161701EA3AB4A882011DCAA4F5188800D D58FE2AD
- Not a production zone, use as your own risk (but all delegated NS records are the same)



Public Validating Resolver

- Announced February 7th, 2012 at Fifth IPv6 Workshop in Kyiv
- Code named “Lighthouse” -- lh.cctld.ua
 - 194.44.71.71 and 2001:7f8:55:7::71
- Can be used by anybody - validates UA signed clone



Live Deployment

- Planned at ICANN meeting (witness Steve Crocker on March 14th, 2012)
- KSK in UA - March 27th
- DS in Root Zone - April 13th (Friday)
- DS delegations in UA - only 6 so far
 - ua.ua netassist.ua rovno.ua nic.ua; chernovtsy.ua cv.ua

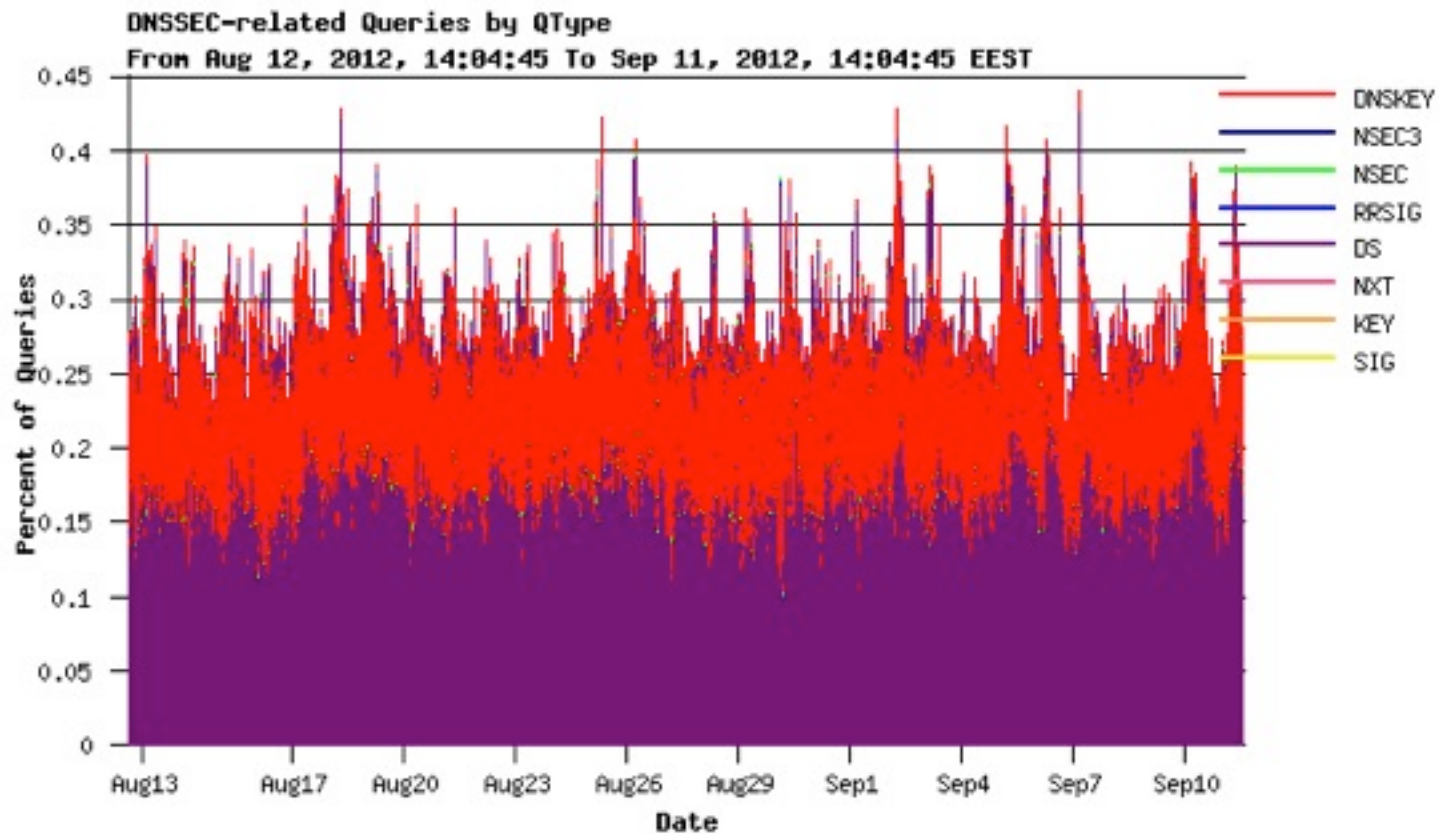


Key rollover schedule

- KSK, made in Ukraine, December 2nd, 2011
- Old ZSK schedule - key made weekly, every Wednesday, key lifetime: 10 days (until Saturday)
- Zone signed every hour, every day
- New ZSK schedule: generated 10th of every month, key lifetime: 40 days
- Change effective June 10th 2012



Some statistics





Questions?

www.hostmaster.ua/dnssec

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