# DNSSEC in UA: Zero to Live in Six Months 

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## Test zone UA.UA

- Key generated November 8th, 2011, during Fourth IPv6 Workshop in Kiev
- Zone UA.UA signed, keys published in DLV (dlv.isc.org)
- UA zone updated: DS record for ua.ua
- Test web site (use Firefox plugin and dnssec-trigger to verify)


## Zone UA Key Generation Ceremony

- Held on December 2nd, 2011 (UA anniversary), UAdom conference
- Scripted, rehearsed, recorded
- Key parameters:

RSASHA512 (algorithm 10)
KSK bits: 2048
ZSK bits: 1024

## DNSSEC Testbed Environment

Copy of production environment: - BIND 9.8 (then latest release)

- some shell and Makefile magic - FreeBSD with jails
- rsync over ssh
- several sleepless nights


## Public server with cloned UA

 (signed with test key)- Anycast server: ho1.ua.ua 195.47.253.17 2001:67c:258::17
- Test trust anchor (and KSK):
ua. IN DS 29019102
68B5F97978F45398C9C0382161701EA3AB4A882011DCAA4F5188800D D58FE2AD
- Not a production zone, use as your own risk (all delegated NS records are the same)


## Public resolver - enabled DNSSEC validation

- Announced February 7th, 2012 at Fifth IPv6 Workshop in Kiev
- Code name "Lighthouse"
- Ih.cctld.ua
194.44.71.71

2001:7f8:55:7::71

- Used test authoritative server (anycast)


## Live Deployment

- Met Steve Crocker March 14th, 2012
- KSK in UA - March 27th
- UA DS in DLV - March 28th
- DS in Root Zone - April 13th (Friday)
- DS delegations in UA - 6 total:
- ua.ua netassist.ua rovno.ua nic.ua; chernovtsy.ua cv.ua (May 2012)


## DNSSEC traffic, ho1.ns.ua anycast (0.2\%)



# C.C.T.L.D 

## Questions?

www.hostmaster.ua/dnssec info@hostmaster.ua

