



2017 Root Zone KSK Rollover

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Root KSK rollover milestones

Event	Date
Creation of KSK-2017	27 October 2016
Operationally Ready	2 February 2017
Out-of-DNS-band Publication	Now (and onward)
In-band Publication	11 July 2017 (onward)
Sign the root key set (the actual rollover)	11 October 2017 (onward)
Revoke KSK-2010	11 January 2018
Remove KSK-2010 from systems	Dates TBD, 2018

ICANN's automatic updates testbed

- ⦿ **On 13 March 2017, ICANN released a testbed to allow operators to test whether resolver configurations follow *Automated Updates***
 - ⦿ The goal is to test production resolvers with live test zones executing a KSK rollover in real time
 - ⦿ A full test lasts several weeks
 - ⦿ Joining the testbed involves:
 - ⦿ Configuring a trust anchor for a test zone such as *2017-03-05.automated-ksk-test.research.icann.org*
 - ⦿ Receiving periodic emails with instructions for what to do and what to watch for
 - ⦿ ***<https://automated-ksk-test.research.icann.org>***



ICANN's automatic updates testbed

Automated Trust Anchor Update Testbed

The root zone Key Signing Key (KSK) is changing, or rolling, on 11 October 2017. Operators of recursive resolvers with DNSSEC validation enabled will need to ensure that their systems are updated with the new root zone KSK configured as a trust anchor before that date. If a recursive resolver supports RFC 5011, "Automated Updates of DNS Security (DNSSEC) Trust Anchors", and this feature is properly configured, the new KSK should automatically be installed as a trust anchor and DNSSEC validation should continue without problems.

If a validating resolver's implementation or configuration of the RFC 5011 automated trust anchor update protocol is incorrect for any reason, then its configuration might not be properly updated during the root zone KSK roll and resolution would fail after 11 October 2017.

This testbed allows operators of validating resolvers to test their implementation and confirm its ability to properly follow a KSK roll and update its trust anchor configuration.

This test tool assumes that you understand [the upcoming KSK change](#), and at least some about [RFC 5011](#).

Purpose of This Testbed

The test system described here allows the operator of a validating recursive resolver to test its support for the RFC 5011 automated trust anchor update protocol and therefore its readiness for the root zone KSK roll. The test operates in real time and should not affect the resolver's normal operation. The testbed works by starting a KSK roll in a new zone each week. These test zones are not used for any other purpose. For example, the current zone name is **2017-03-12.automated-ksk-test.research.icann.org**. Because this zone is used only for the testbed and contains no names any user would ever resolve, it is safe to configure these tests on a production validating resolver. The result of the test will be either higher assurance that the server is working correctly, or tangible information about how the server may be misconfigured.

- ⦿ **Check out ICANN's main page for root KSK rollover information:**

<https://www.icann.org/kskroll>

- ⦿ Link to that page can be found on ICANN's main web page under "Quicklinks"





Thank You and Questions

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