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 PowerDNS

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PowerDNS 

AN UPDATE ON THE ROOT KSK ROLL

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Senior PowerDNS Engineer
September 7, 2018

POWERDNS 
AN **OX** COMPANY

- 1997 – First DNSSEC RFCs
- 2005 – RFC 4034 and 4035
- 2010 – Root zone signed with KSK-2010

PROMISES...

“Each RZ KSK will be scheduled to be rolled over through a key ceremony as required, or after 5 years of operation.”

– ICANN, somewhen

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- March and April 2013 – Community and public consultation
- 2014, 2015, 2016 – Planning time
- June 2016 – Plans published
- October 27th 2016 – KSK-2017 generated
- February 3rd 2017 – Added to PowerDNS Recursor
- June 11th 2017 – KSK-2017 added to the root
- October 11th 2017 – Planned “production date”

[dns-operations] Root KSK roll delayed

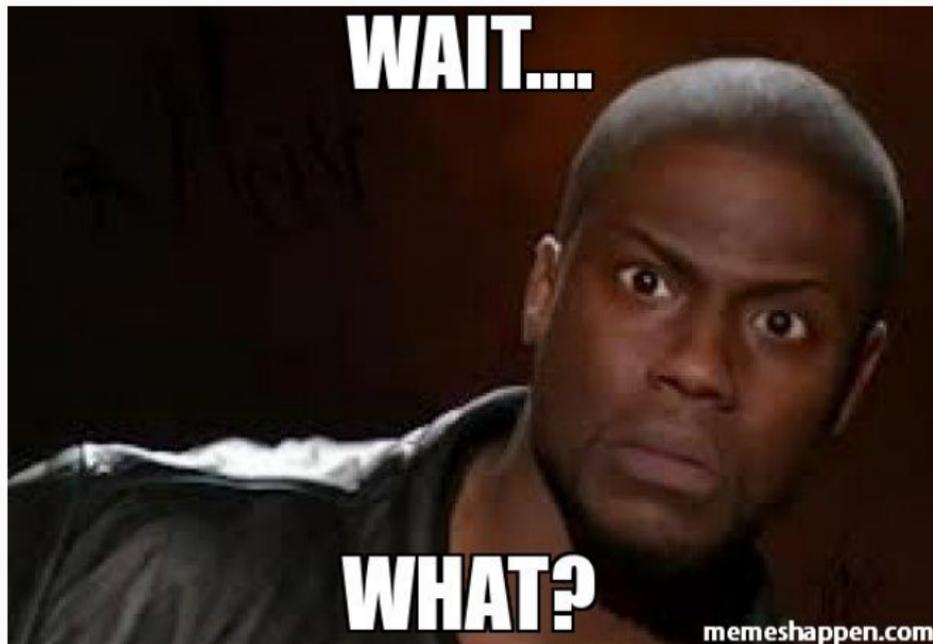
Matt Larson [matt.larson at icann.org](mailto:matt.larson@icann.org)

Thu Sep 28 18:26:57 UTC 2017

[dns-operations] Root KSK roll delayed

Matt Larson matt.larson@icann.org

Thu Sep 28 18:26:57 UTC 2017



WHAT HAPPENED?

- Around 7 percent of resolvers *only* had KSK-2010
- RFC 8145 “Trust Anchor Signalling” (April 2017)
- Didn’t show the whole story

- October 2017 - January 2018 – Discussions
- January 2018 – Consensus that the roll should take place
- March - April 2018 – Public consultation

Roll announced for October 11th 2018

Root KSK Rollover Update (or, We're really doing it this time)

Matt Larson

VP of Research, Office of the CTO, ICANN

OARC 28 Workshop, San Juan, Puerto Rico

8-9 March 2018

ICANN faces critical choice as security experts warn against key rollover

Kevin Murphy, August 23, 2018, 06:17:47 (UTC), Domain Tech

Members of ICANN's top security body have advised the organization to further delay plans to change the domain name system's top cryptographic key.

Five dissenting members of the influential, 22-member Security and Stability Advisory Committee said they believe "the risks of rolling in accordance with the current schedule are larger than the risks of postponing".

NOW WHAT?

- No one knows!
- September 15th 2018 – ICANN will announce decision

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- September 15th 2018 – ICANN will announce decision



THANKS!



<https://www.icann.org/resources/pages/ksk-rollover>