

Root KSK rollover

operator actions and measuring the impact

Operator actions

- At the risk of repeating what he/she just said:
 - Already deployed Unbound 1.6.1 on all resolvers, which includes the new root trust anchor
 - Will check trust anchor repositories on resolvers on K-day (July 11, 2017)
- Inform operators in our constituency (R&E) through newsletter and blogpost

Measuring the KSK rollover



picture from academia.dk

Canary in the virtual coalmine

- Goals:
 - **Track operational impact** of the root KSK rollover, act as a warning signal that validating resolvers are failing to validate with the new key
 - **Measure validation during the KSK rollover** from a global perspective **to learn from this type of event**

Methodology

- Use four perspectives:
 - RIPE Atlas
 - Luminati
 - APNIC DNSSEC measurement
 - Traffic to root name servers
- Establish baseline before K-day (July 11, 2017)
- Measure validation from all four perspectives on a daily basis, more frequently if feasible/desirable

Take action

- If the **canary** starts to sing, or keels over and **dies**: an **operator** of a validating resolver may be in **trouble!**
- **Notify** (large?) **operators** that they need to take action

Feedback welcome

- Plan is to start fourth week of April assessing what to collect and how
- Your input is more than welcome. Do you think this is a good idea? Do you have suggestions?
- Coming soon(-ish): **rootcanary.org**