

What can possibly go wrong?

excessive IXFR updates and triggered BIND bug, with these settings:

```
zonefile-load: difference  
journal-content: changes
```

this is better - journal keeps track of all zone data:

```
zonefile-load: difference  
journal-content: all
```

and this is even better (no duplicate updates on Knot restart):

```
zonefile-load: difference-no-serial  
journal-content: all
```

still planning to open a bug with ISC on this...

Plan for UA zone signer

create new virtual Knot server (w/ntpd)

make this Knot server to be inline signer

copy KSK/ZSK keys over

watch the magic done by Knot
(ZSK rotation, RRSIG and NSEC3 update,
small IXFR to test BIND server)

watch journal and log files

Switchover, using intermediate transfer
servers to minimize config changes

Knot: the good, the odd, and the weird

Configuration: spaces matter, no tabs!

magic ACLs (notify and transfer)

Another bug was found and a patch was delivered in a day: "-1" value was broken

we used custom build of 3.3.3 release
(since then 3.3.4 includes the bugfix)

cool to be able to bump serial by knotc
zone-begin/zone-set/zone-commit

logs very readable, coming from BIND

Knot: the good, the odd, and the weird (2)

IXFR change sets are small (thanks to smart RRSIG rotation)

key repository: `keymgr ua list human`

After BIND key import, wrong key is rotated

Sometimes serial is advanced additionally due to zone re-signing

SOA email field is converted to lowercase

How to tell Knot is running the zone?

```
; dig +dnssec DNSKEY UA | grep -c RRSIG
```

Takeaways

Set small goals

Have a backup plan

Know how to reach developers

Don't be afraid to fail — but fix fast!

Ask industry experts then become one

and...

DON'T PANIC!

Contacts

Dmytro Kohmanyuk

dk@cctld.ua

dnsssec@hostmaster.ua

<https://hostmaster.ua/dnsssec>