## deSEC: Secure DNSSEC Hosting

**Continued Operations and Development** 

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DNSSEC validation rate

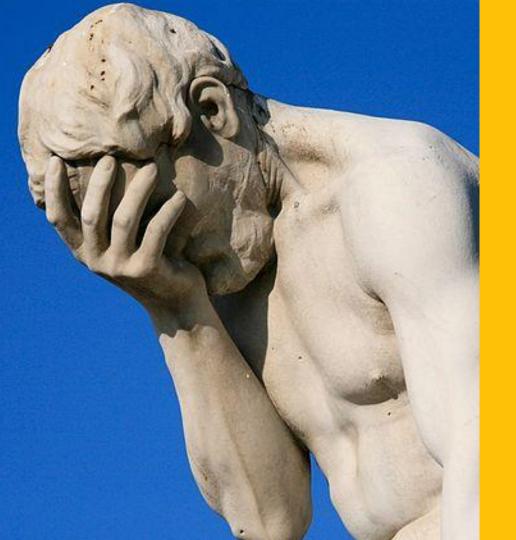
31% vs.

secure delegation rate

**7%** 

- Germany 70%
- Scandinavia 90%
- Russia 63%
- Saudi Arabia 99%





# DNSSEC is too hard

and we know it



# A free DNS hosting service, designed with security in mind.

deSEC is a **non-profit** doing the same thing as **Let's Encrypt, but for DNSSEC**.

- all automatic DNSSEC
- fancy API and GUI
- support for modern stuff (e.g. DANE)
- **dynDNS** service (under dedyn.io)



#### Status

→ Launched in April 2020

Now hosting **several 10,000 zones**; ~**4B q/mo** (annual growth ~3-4×)

- → Active community member
  - RIPE member, IETF contributor
  - protocol development (DNSSEC automation)
- → Costs
  - server operations
  - anycast networks
  - development
- Financially supported by RIPE
  Thanksi





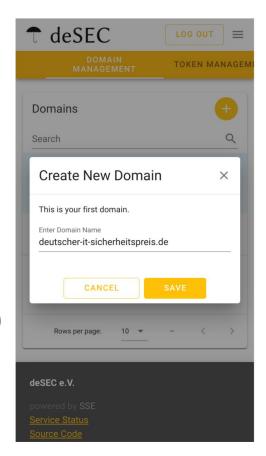
#### Using deSEC 101

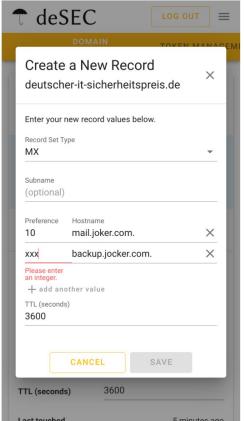
#### **GUI**

- Straightforward
- Reactive
- Field-level validation
- Mobile-friendly
- Zero external resources

#### REST API (<a href="https://desec.readthedocs.io/">https://desec.readthedocs.io/</a>)

- Helpful validation
- Transactional bulk actions
- Paging, API token scoping, ...







### How do we use Funding from RIPE CPF 2022?

- Server operations
  - Primary DNS servers, DNSSEC signing
  - Backup
- Anycast delivery network
  - Replication
  - DDoS mitigation
  - Monitoring
- Development
  - $\circ$  DoQ
  - API improvements (record-specific token authorization; transparent replication state)
  - Anti-abuse



# Thank you!

... also to our sponsors:





Questions?