



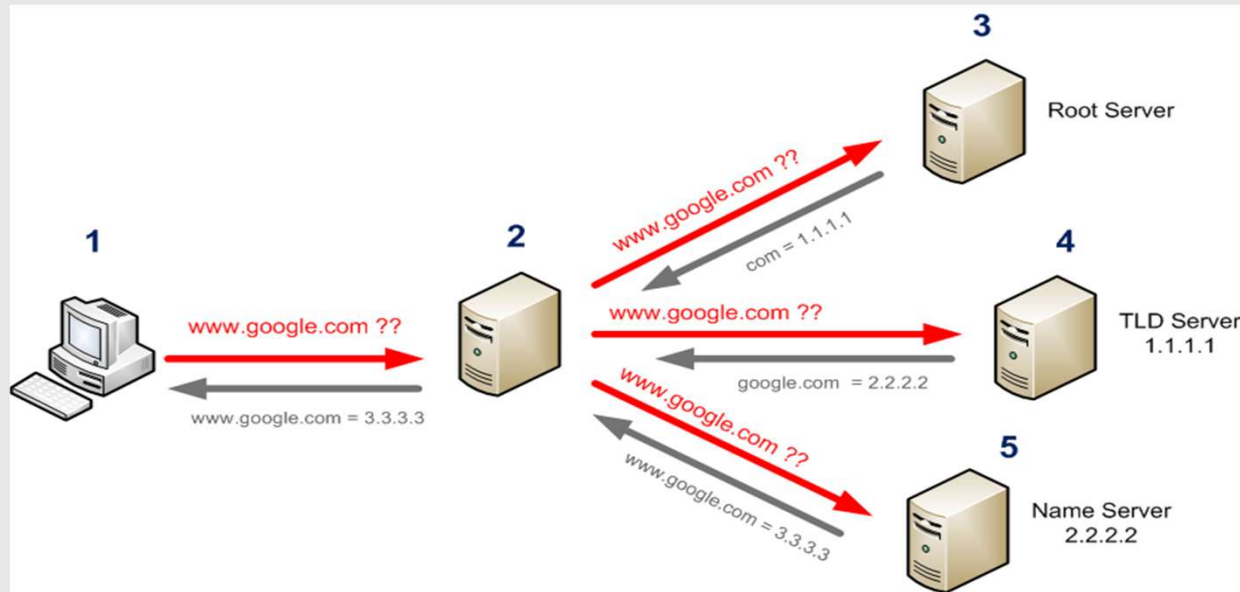
DNSSEC

Raising Awareness

Overview

- Significance of DNS to the everyday internet user
- Technical brief about DNSSEC
- Threats to DNS
- Do people know about DNSSEC ?
- Raising awareness in Egypt

DNS Significance



- You don't need to memorize IP addresses
- An automated phonebook for the internet
- Websites have meaningful names
- Used in everyday applications

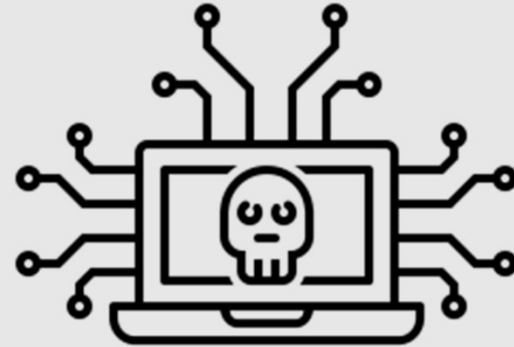
Technical brief about DNSSEC

- Extension protocol adding cryptographic protection to DNS records
- RRset (Resource Record Set)
- KSK (Key Signing Key)
- ZSK (Zone Signing Key)
- DNSKEY
- DS (Delegation Signer)



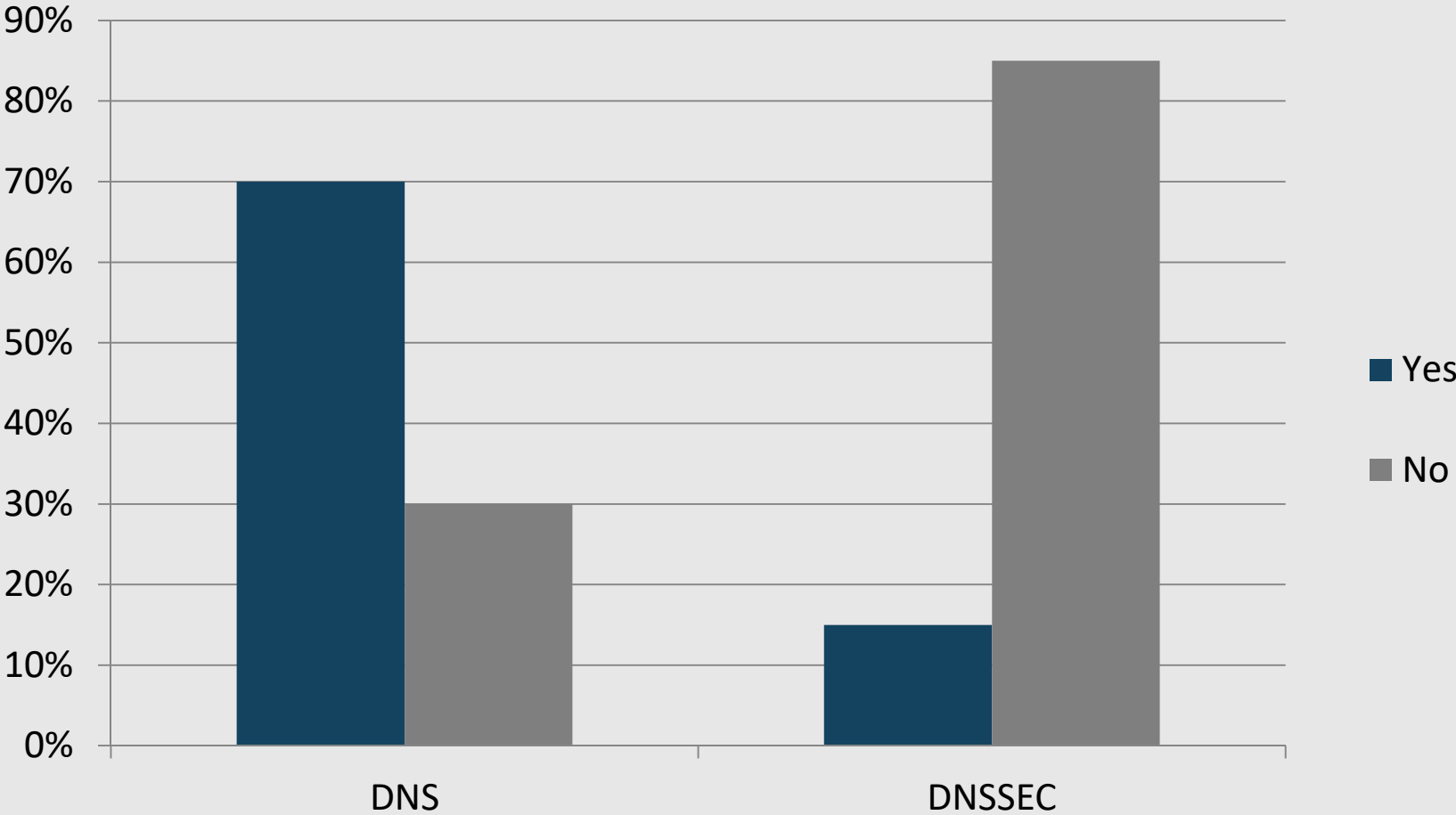
Threats to DNS

- DNS spoofing*
- DDoS attacks
- DNS hijacking*
- Pharming*
- DNS rebinding



* Mitigated by DNSSEC

Awareness Survey



Raising Awareness in Egypt

Methods:

- Emphasizing on the role of DNS in the internet
- Highlighting threats that internet users are subjected to
- Tying DNS to popular aspects of technology

Consequences:

- Prospering of domain name industry in Egypt
 - Starting Egyptian registrars
 - Offering job opportunities
- New minds available for development of DNSSEC
 - Deployment of DNSSEC on a greater scale
 - Creating new security measures

References

- <http://dyn.com/blog/dns-why-its-important-how-it-works/>
- <https://www.cloudflare.com/dns/dnssec/how-dnssec-works/>
- <http://www.internetsociety.org/articles/dnssec-doesn%E2%80%99t-mitigate-all-dns-threats>
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