



# DNSSEC DEPLOYMENT CHALLENGES

.masr IDN ccTLD (مصر)

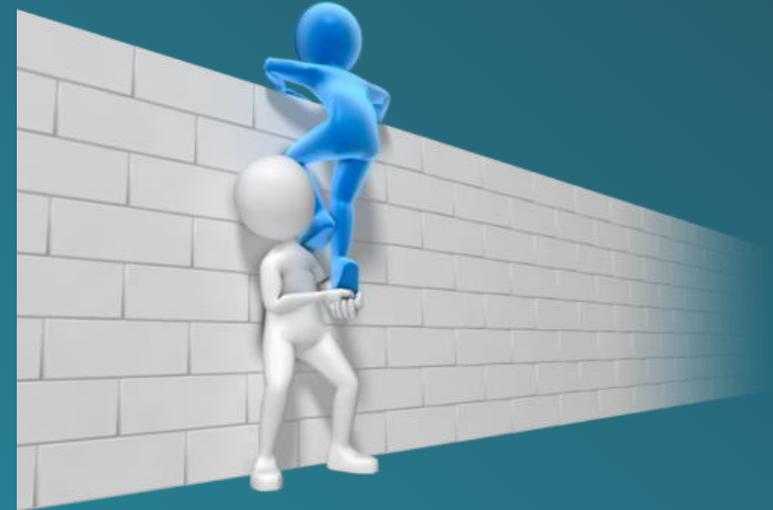
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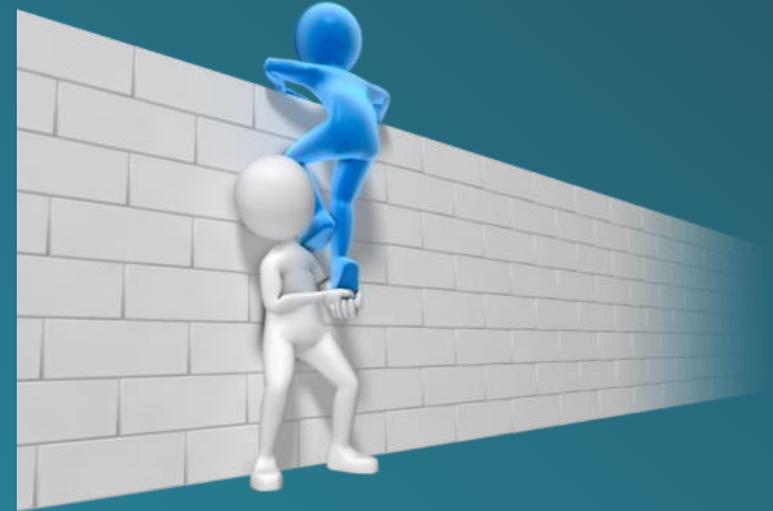
# CHALLENGES BEFORE DEPLOYMENT

- ❑ What is DNSSEC !!
- ❑ How DNSSEC works !!
- ❑ From Where should we start deploying DNSSEC !!
- ❑ Keys attributes that should be used for signing !!
- ❑ Do we have to do changes to registry system before DNSSEC deployment !!



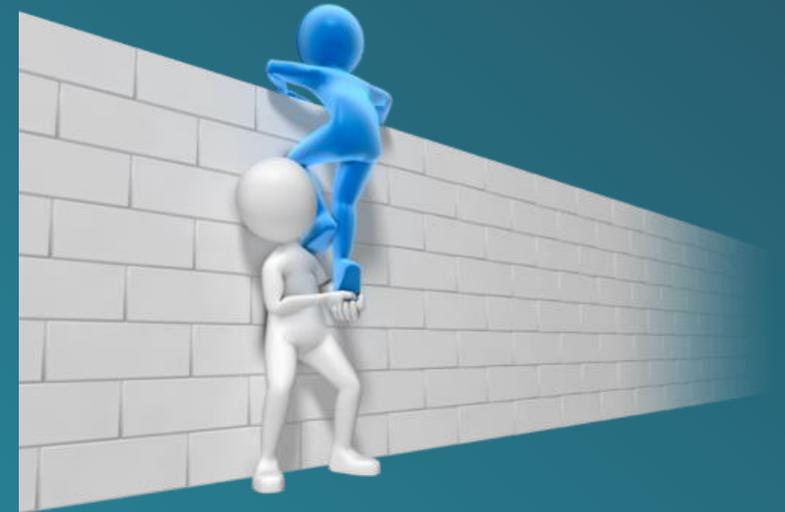
# CHALLENGES AFTER DEPLOYMENT

- ❑ What is next after deployment
- ❑ How to keep our domains active all the time
- ❑ Domain re-signing automation
- ❑ How often do we have to roll keys
- ❑ How to spread the word of DNSSEC to Our Registrars

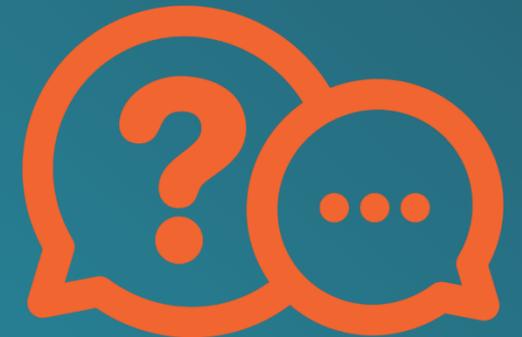


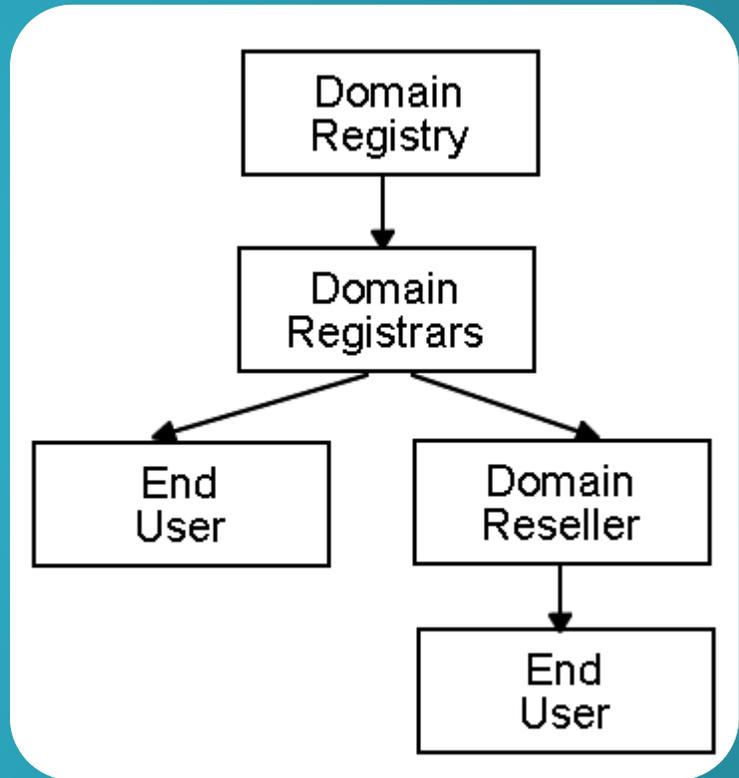
# CHALLENGES AFTER DEPLOYMENT

- ❑ One of .masr DNS servers does not respond to TCP queries.
- ❑ Response size exceeded 1500 if using both KSK and ZSK for signing
- ❑ ISP DNSSEC validation off



The name server failed to answer queries sent over TCP. This is probably due to the name server not correctly set up or due to misconfigured filtering in a firewall. It is a rather common misconception that DNS does not need TCP unless they provide zone transfers - perhaps the name server administrator is not aware that TCP usually is a requirement.





# CHALLENGES AS A REGISTRAR

- ❑ Hard.
- ❑ System is stable so why we have to change
  - ❖ More time required to resolve domain name
  - ❖ Domains with invalid signatures will be blocked.
  - ❖ We have many attacks and we can mitigate it
  - ❖ Registrants do not have an idea about DNSSEC
  - ❖ No enough staff to monitor & troubleshoot DNSSEC



