

DNS64 Recursive Cache www
 Risk IOT Root .sa Saudi 2030
 Records 5G Vision Security DNS STC
 TIL DNS QPS TLS URL 2020
 Delegation Mail DNSSEC Sub Domain Risk FQDN plan
 Who is .COM IPv6 Hostname
 Data Authoritative DDOS IPv4
 Top Level Domains
 .قيو عسلا

IPSD
 ادارة تصميم امن الشبكة



تنظيم
 الاتصالات
 وتكنولوجيا المعلومات

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Agenda

Overview

STC leap (2020)

Recursive DNS

STC recursive DNS revamp

Authoritative DNS

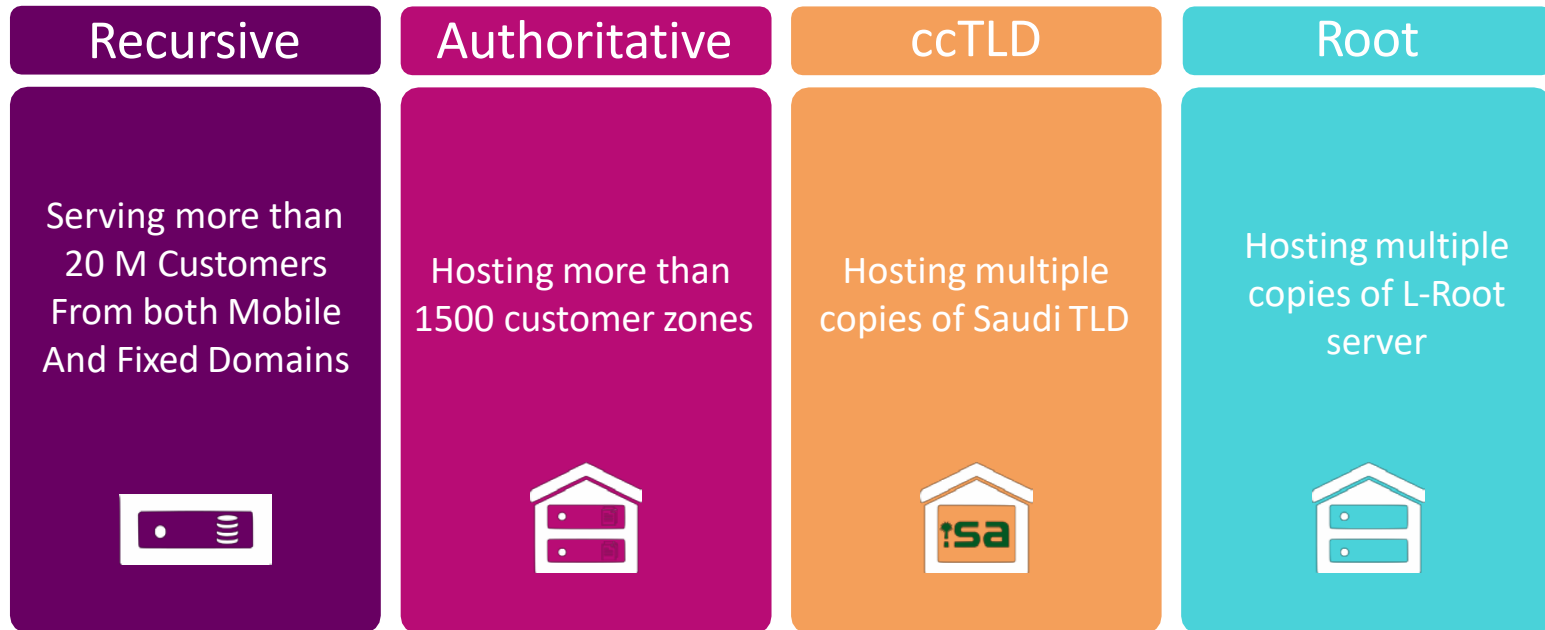
STC Authoritative DNS Modernization

STC Initiatives and Future plans

Our initiatives journey and Future Plans

Overview - Cont

STC infrastructure contains multiple DNS types



STC Recursive DNS Revamp

STC enrich its customer experience by evolving its Recursive DNS infrastructure

Recursive

Serving more than
20 M Customers
From both Mobile
And Fixed Domains



Security



- Anti SPAM
- Anti Malware
- DDOS Mitigation
- DNSSEC Validation

Capacity



- Four active sites
- More than 3 M QPS

Availability



- Three levels of Redundancy
 - Anycast
-

STC Authoritative DNS Modernization

Security is the driver for Authoritative modernization

Authoritative

Hosting more than
1500 customer zones



Security



- DNSSEC
- Tsig
- DDOS Mitigation

Availability



- Two levels of Redundancy
 - Higher performance
-

STC Initiatives and Future Plans



Root

Contribute in global Root server Availability by hosting instances of the Root server

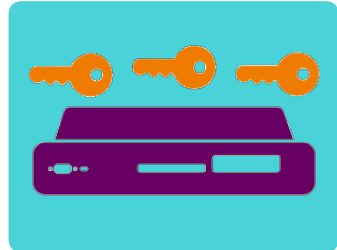
Saudi TLD

STC Hosted multiple copies of Saudi TLD to contribute in ccTLD availability and enhance STC customer experience

Future Plans



Security



HSM



Thank you
