

# IPv6 Support in Saudi Domain Names

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# Agenda

- About SaudiNIC
- What SaudiNIC has done to support IPv6
- What You need to do to start using IPv6?

# About SaudiNIC

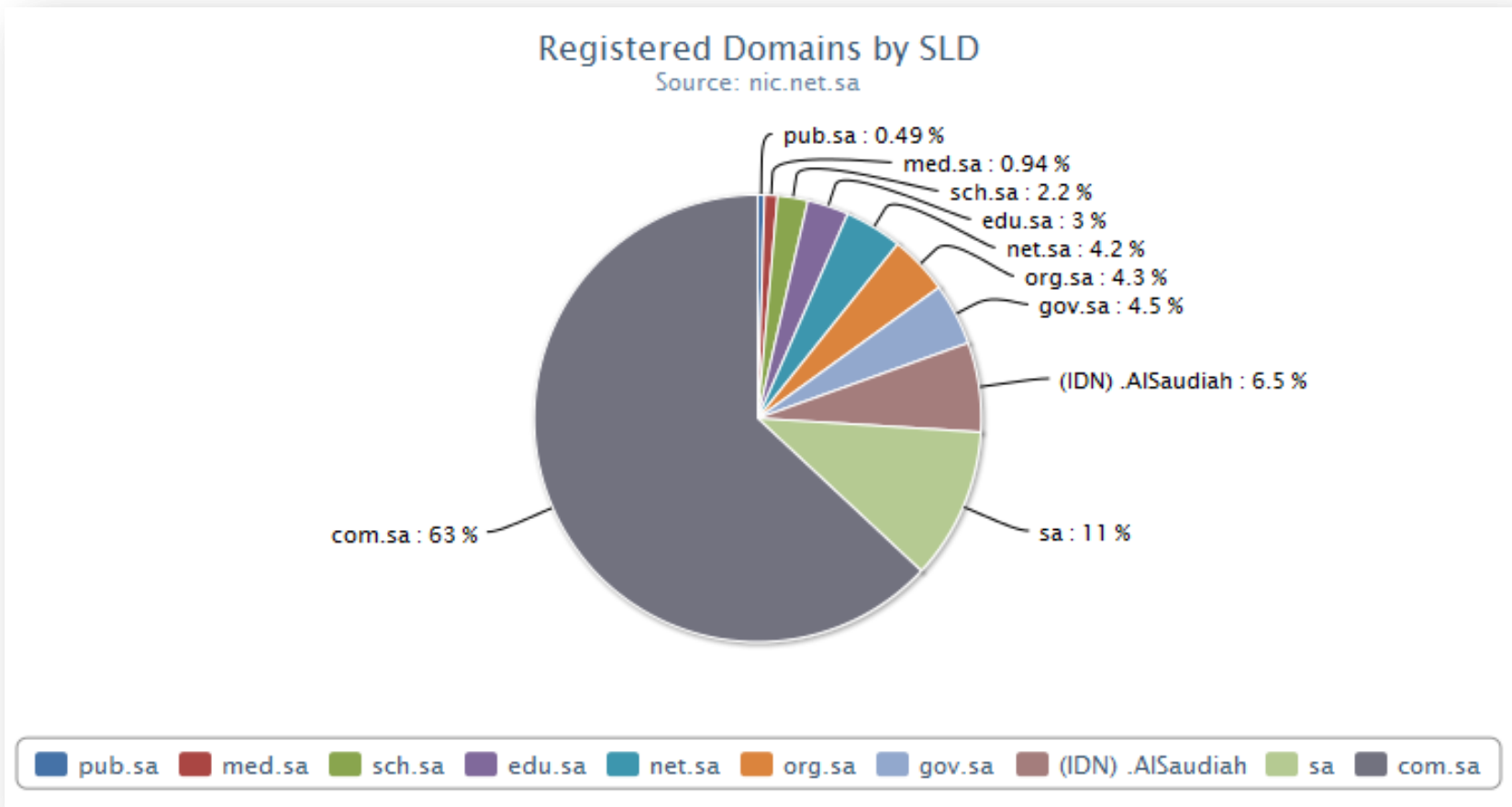
## About SaudiNIC

- **Administering** the domain name space under **(.sa)** since 1995 & under **(.السعودية)** since 2010.
- Operated by Communication and Information Technology Commission (**CITC**) governmental org.
- Coordinating with **regional** and **international** bodies in order to present the local community needs
- Leading the local community effort towards supporting **Arabic language** in DNS

# About SaudiNIC

## Statistics

- Number of registered domain ~ 28000 Domains



# About SaudiNIC

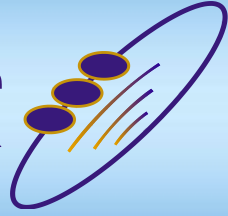
## Latest Achievements

- Full **IPv6 Support** (PI Block from RIPE) – Jan 2010
- Open registration of **Arabic** domain names under “السعودية” (سجل.السعودية) – May 2010
- Open registration of domain names **directly** under “.sa” (nic.sa) – Jan 2011
- Updated the “**Domain Name Regulations**” – Apr 2011
- Updated “**Procedures for Submitting an Objection to Saudi domain names**” (Dispute Resolution) – Apr 2011
- IDN Emails (رسيل.السعودية) – Nov 2011

# About SaudiNIC

## What's next

- Registry-Registrar model
- Introducing Fees
- DNSSEC



# What SaudiNIC has done to support IPv6

# What SaudiNIC has done to support IPv6 in Domain names



- 1. Name server support**
  - IPv6 support in the ccTLD servers
- 2. Registry support**
  - Frontend ,Backend, Tools and scripts
- 3. Infrastructure support**
  - Network devices, servers and services
- 4. Training and awareness**
  - Staff, Stakeholders

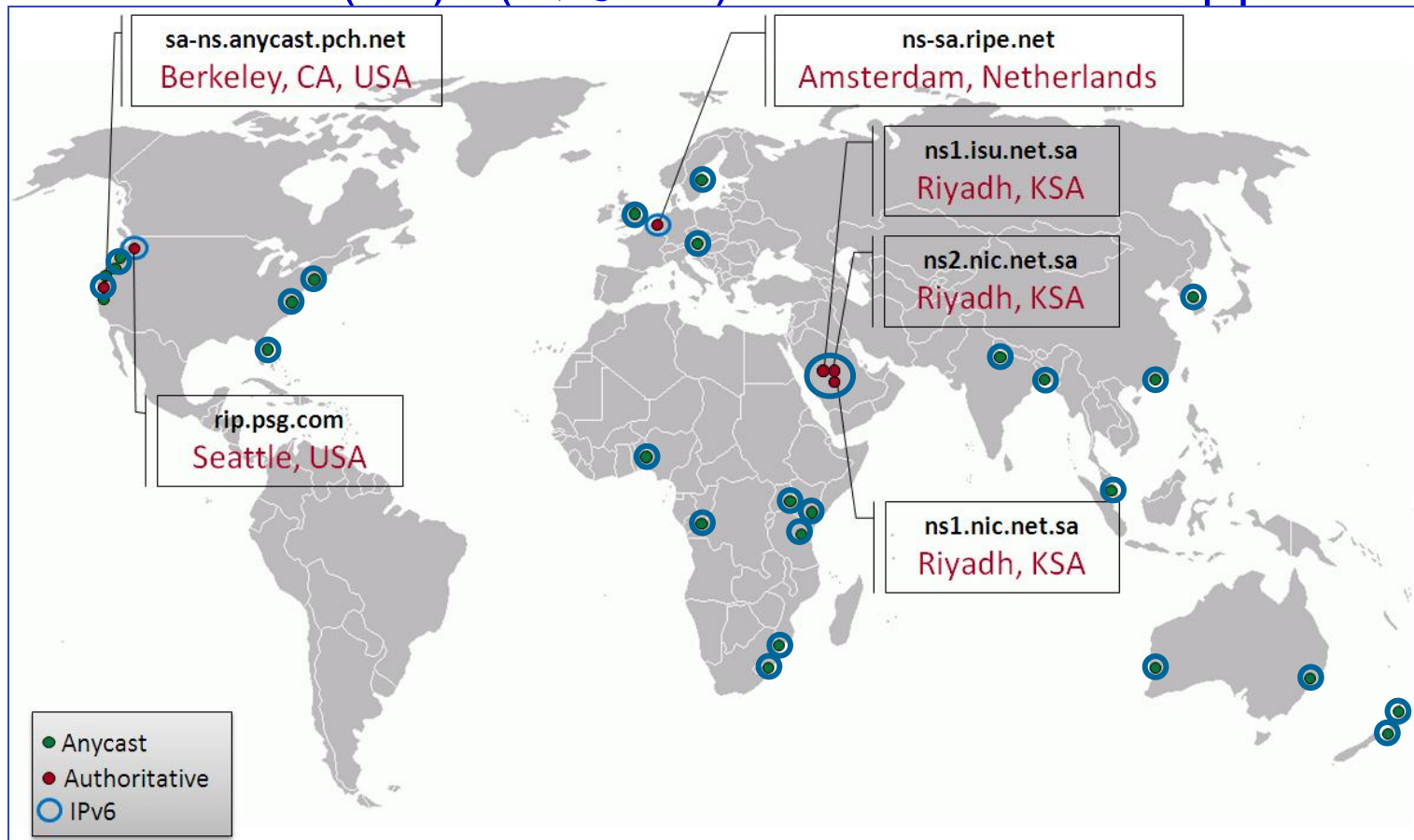


# What SaudiNIC has done...



## 1. Name server support





– All of our (.sa) & (السعودية) ccTLD servers support IPv6



# What SaudiNIC has done...



## 2. Registry support

-  – Frontend (e.g. Application form)
-  – Registry system
-  – Zone-file building (Glue records)
-  – Tools and scripts (e.g. Whois, DNS checker)


**Servers names**

Primary server

IP address

Secondary server




IP address



# What SaudiNIC has done...

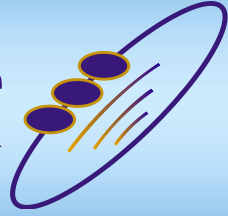


## 3. Infrastructure support

-  – Equipment and services are IPv6 ready
-  – All software are compliance with IPv6
-  – IPv6 Network
  - PI-IPv6 Block from RIPE
  - Native & Tunneled connections

## 4. Training and awareness

-  – Registry staff
-  – Stakeholders ... (this event 😊 )



# What You need to do to start using IPv6?

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## ■ Infrastructure support

- Get your **IPv6 block** (PI/PA) from your ISP/LIR
- Configure your **network nodes** and **servers** with IPv6 (e.g. Tunneling, Dual-stack, Translation)
- Configure you **services** (e.g. Web, Mail, DNS, Proxy)

## ■ DNS

- At least **one** of your name servers should be **reachable** from IPv6 point of view (Addressing & routing)
- Register **glue records** with the Registry if needed
- Configure **reverse delegation** (ip6.arpa) and register them with RIPE

## ■ Training and awareness

- Train and educate your **staff**

**Note: IPv4 & IPv6 are expected to co-exists for long time**



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**Thank you**