

# 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 have IPv6?

# About SaudiNIC

## About SaudiNIC



- **Administering** the domain name space under **(.sa)** since 1995 & under **(.السعودية)** since 2010.
- Coordinating with **regional** and **international** community to present local needs
- Leading the local community effort towards supporting **Arabic language** in DNS

# 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
- Currently working on Registry–Registrar (EPP) and DNSSEC

# About SaudiNIC

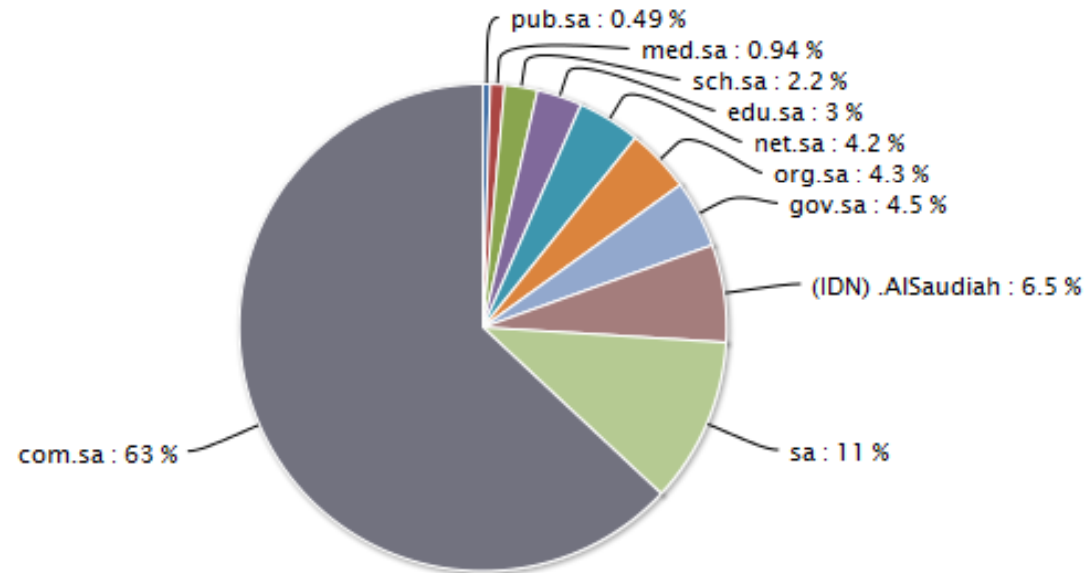
## Statistics



- Number of registered domain 35140+ Domains

Registered Domains by SLD

Source: nic.net.sa



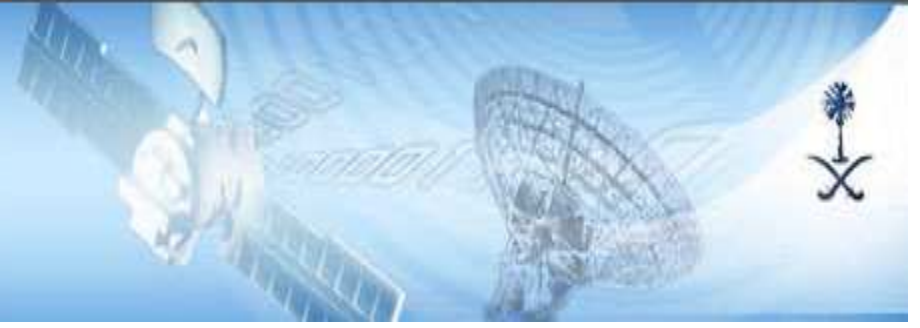
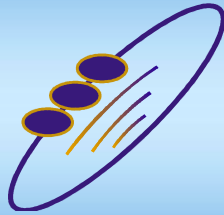
# About SaudiNIC

## Statistics



- **~20%** of the registered NS(s) are IPv6 enabled.
- **~10%** of current registered domains have NS(s) with IPv6.
- Only **~1%** of registered domains is IPv6 enabled.

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Communications and Information Technology Commission



## 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...



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





## What You need to do to have IPv6?

# What You need to do to have IPv6?



## ■ 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 your **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

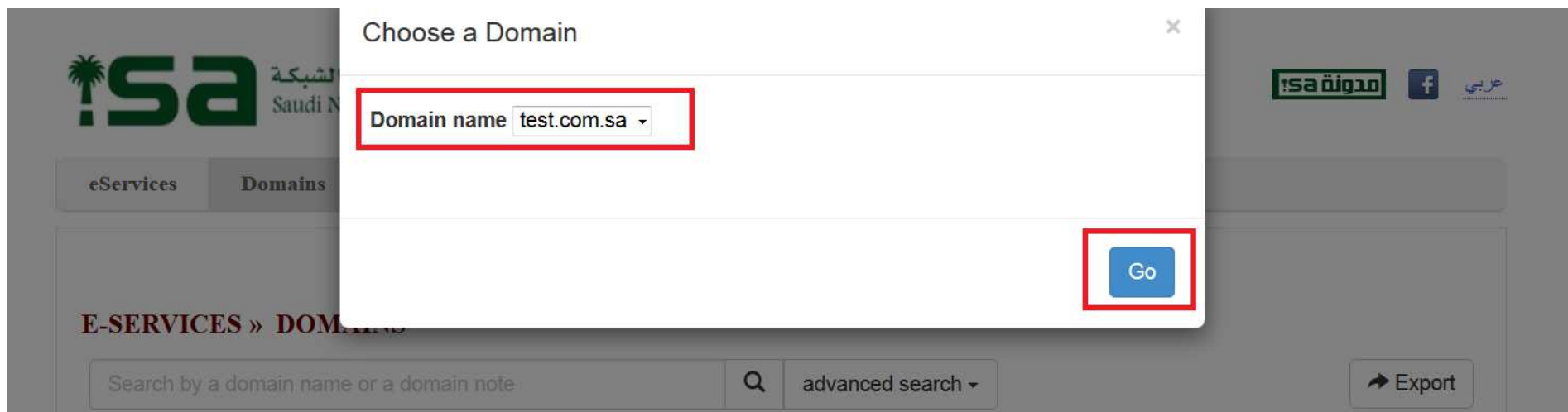
# What You need to do to have IPv6?

## Register glue records with the Registry



Domain Names	My Account	Other Services	My Tickets	Help
<a href="#">Register</a>	<a href="#">Update My Profile</a>	<a href="#">Generate auth key</a>	<a href="#">New</a>	<a href="#">FAQ</a>
<a href="#">Modify</a>	<a href="#">Change My Password</a>	<a href="#">Nominating Admin</a>	<a href="#">Follow Up</a>	<a href="#">User Guide</a>
<a href="#">Delete</a>	<a href="#">Change My Secret Question</a>	<a href="#">Fetch a Domain</a>		
<a href="#">Manage Variants</a>	<a href="#">Change My Email</a>	<a href="#">Object on a domain</a>		
		<a href="#">Domain Transfer (relinquish to others)</a>		
		<a href="#">Updating registrant identity</a>		

# What You need to do to have IPv6? Register glue records with the Registry



Choose a Domain

Domain name test.com.sa ▾

Go

# What You need to do to have IPv6? Register glue records with the Registry




address

**Servers names**

Primary server

IP address

Secondary server



## Domain Names

Register  
Modify  
Delete

## My Account

Update My Profile  
Change My Password  
Change My Secret Question

## Other Services

Generate auth key  
Nominating Admin  
Fetch a Domain

## My Tickets

New  
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## Help

FAQ  
User Guide



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**Thank you**