

UAEnic United Arab Emirates

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What is UAEnic?



- ❖ UAE Network Information Center (UAEnic)
- ❖ The (.ae) Domain Name Registry – ccTLD of the UAE since 1995
- ❖ Local Internet Registry (LIR)
- ❖ 1.7.9.e164.arpa maintainer
- ❖ IDN's Arabic Root technical implementer

Objectives

- ❖ Give the UAE an extensive global presence in the cyber world.
- ❖ Treat all eligible applicants equally on a first come, first served basis.
- ❖ Promote the use of Internet in UAE for economical, educational and cultural development.

UAEnic Time Lines

1994

- ❖ UAE University was delegated by IANA to run (.ae) Domain Name Space.

1995

- ❖ **UAEnic** was re-delegated to run (.ae) Domain Name Space with mutual agreement with UAE University.
- ❖ **UAEnic** was an authorized LIR by RIPE NCC

2001

- ❖ **UAEnic** was allocated IPv6 Addresses. (first in the region).

2002

- ❖ Developed Domain Name Dispute Resolution Policy 3 & 10 years registration contract
- ❖ Was authorized by ITU to run ENUM (+971) Registry (among the first in the world)

2004

- ❖ Hosting of “F” Root Name Server in Dubai

2005

- ❖ Hosting of “K” Root Name Server in Abu Dhabi 50 years registration contract

2007

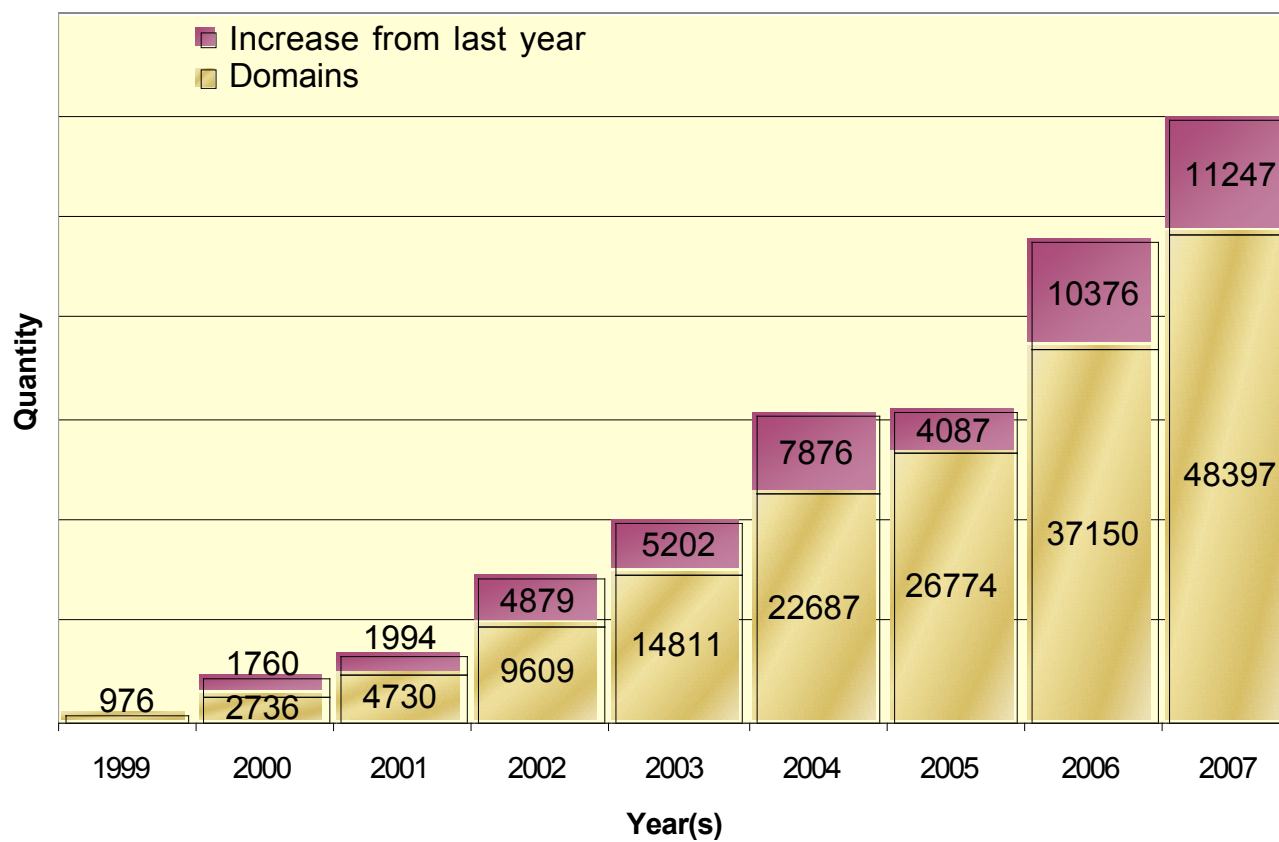
- ❖ Discussions with TRA about the future of .ae

Domain Statistics

Breakdown of .ae Domains

ae	43300
co.ae	3378
net.ae	101
org.ae	189
sch.ae	739
ac.ae	128
mil.ae	9
gov.ae	463
Total	48307

Evolution of .ae Domains



UAEEnic Technical Operations

- ❖ Maintain DNS services and BCPs
- ❖ Maintain WHOIS services
- ❖ .ae Country Code Top Level Domain (ccTLD) for UAE
- ❖ Sub .ae DNS Zones
- ❖ ENUM Delegation (Trial)
- ❖ Arabic Root (Trial)
- ❖ Arabic DNS Delegation (Trial)
- ❖ DNS IPv6 (Trial)
- ❖ Maintain the UAEEnic website and parking page
- ❖ 24x7x365 monitoring & support
- ❖ Secure with hardening (application & OS) and firewalls

Domain Name System (DNS)

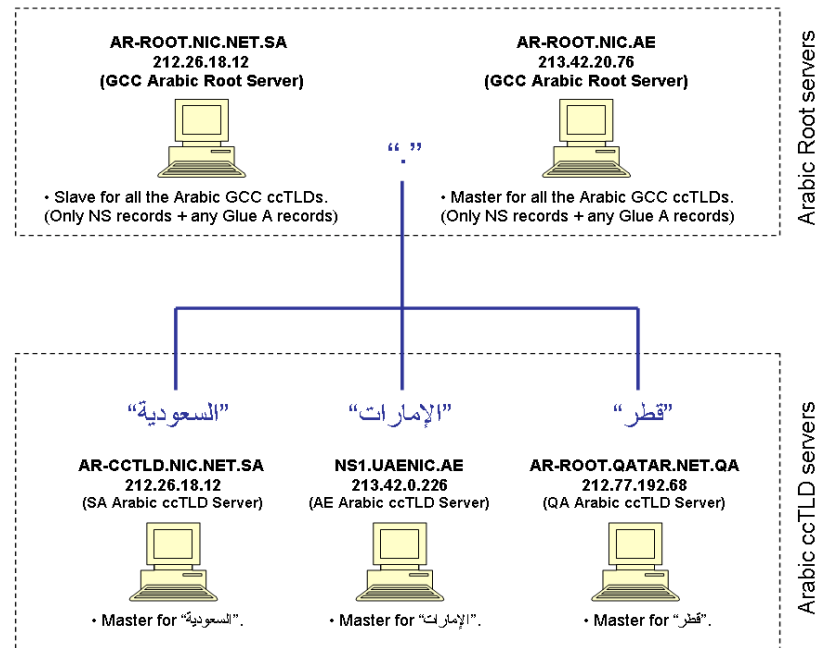
- ❖ UAEnic name servers host .AE Country Code Top Level Domain (ccTLD).
- ❖ The UAEnic name server contain pointers to the authoritative name servers.
- ❖ DNS servers consists servers distributed in different data centers.
- ❖ External secondary DNS servers outside UAE for .AE TLD in (RIPE, APNIC and ISC).
- ❖ UAEnic DNS servers are highly available based on Any Cast technology in different AS numbers.

Domain Name System Architecture

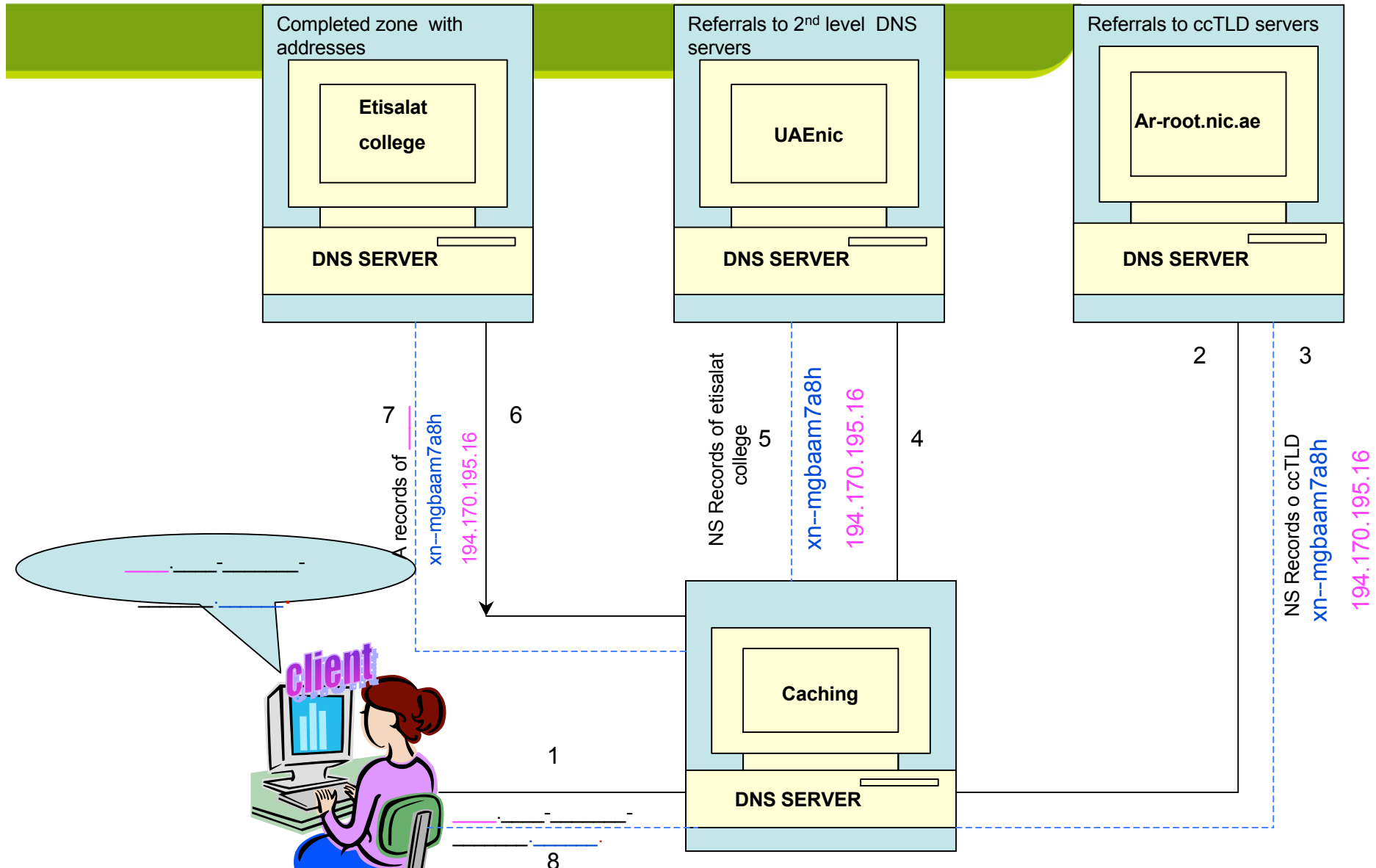
- ❖ Utilizing different AS numbers for serving .ae
- ❖ Using AnyCAST for high availability and redundancy
- ❖ Security measures taken for protecting service (OS and application hardening, TSIG, ACL, etc)
- ❖ Service provided from various data centers

Arabic IDN DNS

- ❖ Test project for Arabic DNS
- ❖ Maintaining Arabic test DNS servers
- ❖ Testing applications functionality for Arabic domains



Arabic Flow for _____ (Emarat)



Additional Services

WHOIS

- ❖ .ae WHOIS server based on RIPE implementation application
- ❖ mySQL based backend

Parking Service

- ❖ Domain parking page for non delegated domains
- ❖ Utilizing Apache as web server application

Thanks