UAEnic
United Arab Emirates

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Agenda

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- Evolution of (.ae) Domain Names
- UAEnic Technical Operations
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- Arabic GCC IDN Test
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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.
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

<table>
<thead>
<tr>
<th>Domain</th>
<th>Count</th>
</tr>
</thead>
<tbody>
<tr>
<td>ae</td>
<td>43300</td>
</tr>
<tr>
<td>co.ae</td>
<td>3378</td>
</tr>
<tr>
<td>net.ae</td>
<td>101</td>
</tr>
<tr>
<td>org.ae</td>
<td>189</td>
</tr>
<tr>
<td>sch.ae</td>
<td>739</td>
</tr>
<tr>
<td>ac.ae</td>
<td>128</td>
</tr>
<tr>
<td>mil.ae</td>
<td>9</td>
</tr>
<tr>
<td>gov.ae</td>
<td>463</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>48307</strong></td>
</tr>
</tbody>
</table>
Evolution of .ae Domains

Year(s)


Quantity

Increase from last year
Domains

976 1760 1994 4879 5202 7876 4087 10376 11247
2736 4730 9609 14811 22687 26774 37150 48397 4879
UAEnic 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 UAEnic 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.
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
- Test project for Arabic DNS
- Maintaining Arabic test DNS servers
- Testing applications functionality for Arabic domains
Arabic Flow for (Emarat)

Completed zone with addresses

Etisalat college

DNS SERVER

Referrals to 2nd level DNS servers

UAEnic

DNS SERVER

Referrals to ccTLD servers

Ar-root.nic.ae

DNS SERVER

A records of

tn--mgbaam7.a8h

194.170.195.16

DNS SERVER

Caching

1 2 3 4 5 6 7 8

NS Records of etisalat college

xn--mgbaam7.a8h

194.170.195.16

NS Records of ccTLD

xn--mgbaam7.a8h

194.170.195.16

client
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