



Nic Argentina



SECRETARÍA
LEGAL Y TÉCNICA
PRESIDENCIA DE LA NACIÓN

Dirección Nacional del Registro de Dominios de Internet

Secretaría Legal y Técnica

Presidencia de la Nación

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NIC ARGENTINA

A bit of history.....

Nic Argentina was created in 1987 by the Argentinean Chancellery under the Computerization Project framework that developed the first network communication in the country.

Along with the implementation of an internationalized Domain Name in 1998, we established a regulatory framework for the domain name registry.

The National Domain Name Registry was created in 2011 to manage the ccTLD.AR .

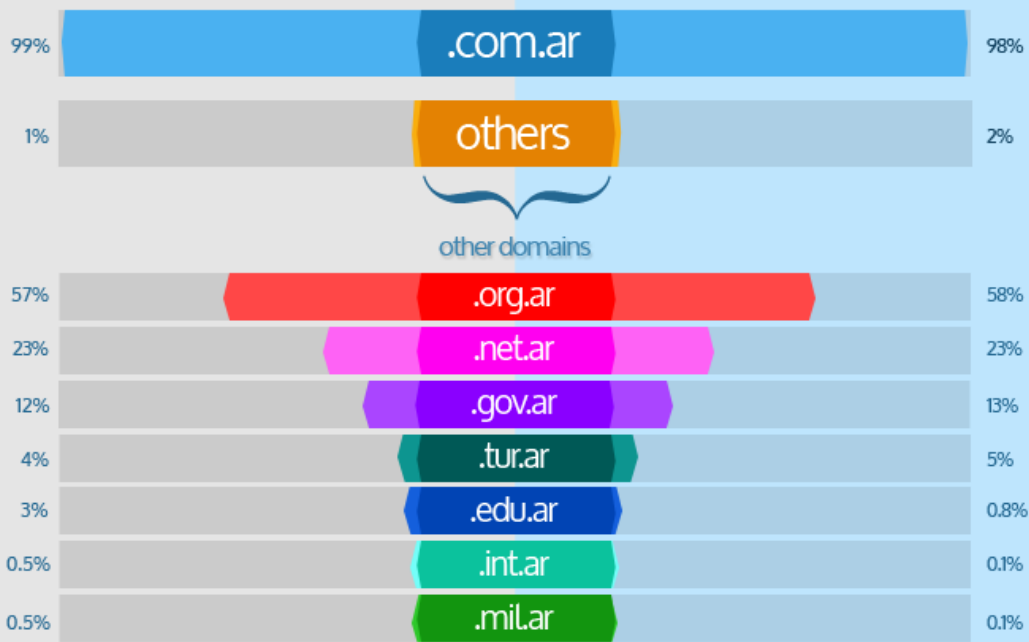
In August of 2011, we took the technical control of DNS and implemented a new platform for user interaction.



2012

2013

Domains



2.367.647



44.523

TOTAL
2.412.170



Domains / Population



To this day, there are over 2.412,170 '.ar' domains, the largest domain/population ratio in the entire LAC region.

Transfer Plan for migration

- Analysis of the original platform and management of ccTLD
- Application Reengineering - Analysis Design Development and Implementation including comprehensive update of the platform, Backoffice, frontend, Database and DNS mitigation single point of failure.
- Self management of a new ASN and IPv4-v6 block with BPG implementation.
- Layered security design and implementation of perimeter security.
- Datacenter Migration

Migration Process

- Launch of the new infrastructure.
- Start line of the new application in test mode.
- Performance testing the solution set HARD + SOFT

Day D

- Shutdown the old application
- Data Migration
- IP Change NIC.ar
- Turning on the new application and start of use by end users.
- DNS Master Migration

Management of the current operation

- 20,000 daily users accessing the server farm Front End
- Access tripled per second the previous system to the new platform
- We stabilized on 2 full ZONES publications per day, advancing to an automated 8 posts daily complete
- The DNS zones uploaded to the Master are immediately replicated on 5 DNS defined in IANA taking 3 in Argentina and 2 Outside the country through networks enycast representing more than 40 servers distributed around the world taking this action a major positive impact on possible DDoS attack
- Updated Bind to 9.4.11.xx with Ratelimit to improve safety.
- We are working to diversify the DNS platform to reduce the impact of a potential bug on the platform.

Expectations and Future

- Construction of a network of National and Regional Anycast.
- Implementation of domain name registration IPV6, currently have the first 100% native IPV6 registration in Argentina www.ipv6.ar.
- Collaboration and empowerment of knowledge and resources among regional ccTLD or between continents.

Thanks

