Scaling Up the Registry Operations

APTLD Non-Technical Training – Dubai

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WHO IS AUSREGISTRY?

AusRegistry
• Registry Operator for the .au ccTLD since July 2002
• Operates .au Domain Name Servers (DNS)
• Consultation to industry and government
• Website: www.ausregistry.com.au

AusRegistry International
• Consults globally on ccTLD operations
• Registry Operator for the Australian ENUM Trial
• Registry Operator for the REC Registry
• Website: www.ausregistryint.com
SALABILITY

“… a desirable property of a system, a network or a process, which indicates its ability to either handle growing amounts of work in a graceful manner, or to be readily enlarged…”

Wikipedia
WHY BE SCALABLE?

- Registry Operators must take into consideration:
  - Growth
  - Policy
  - The Future

- Will you be able to meet your SLAs and the expectations of your stakeholders…
SCALABILITY – GROWTH

• Growth:
  • Increased registrations
  • Cheaper pricing
  • Increased population
  • Stronger economy
SCALABILITY – POLICY

• Policy:
  • Less restrictive eligibility criteria
  • Namespace opened up
    E.g. the ability to register domains in the second level
  • New names introduced
SCALABILITY – THE FUTURE

• The Future:
  • New domain names (IDNs)
  • New technologies
  • Better infrastructure therefore accessibility to the internet
  • Internet savvy generation

Adrian Kinderis – AusRegistry International
Scaling Up The Registry Operations
TECHNICAL CONSIDERATIONS

• Scale Up:
  • More power from bigger servers
  • Puts a lot of very critical eggs in one basket

OR…

• Scale Out:
  • Increased power from clustering
  • Highly available
TECHNICAL CONSIDERATIONS

• Capacity planning:
  • Current trends
  • Modelling
  • ‘What if?’ scenarios

• If changes are required:
  • What is the time frame to deploy?
  • What is the cost of deployment?
  • Ensuring minimum disruption to stakeholders…
TECHNICAL CONSIDERATIONS

- Personnel:
  - Qualified technicians
  - Specialised fields
  - Key person redundancy
  - Security and background checks
  - Time to hire
  - Training
SERVICE CONSIDERATIONS

• Increased requirements:
  • Technical and Administrative support

• Stakeholder education

• Marketing

• Stakeholder involvement:
  • Reviews
  • Consultation process

• Time…
OPERATIONAL CONSIDERATIONS

- Financial:
  - Cost vs. benefit
  - Requirements

- Legal:
  - Agreements, including SLAs

- Recruitment

- Documentation:
  - Manuals
  - Job descriptions