Domain Name Registration System

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
BUY vs. BUILD

“...programming today is a race between software engineers striving to build bigger and better idiot-proof programs, and the Universe is trying to produce bigger and better idiots. So far, the Universe is winning…”

Rick Cook
BUILD – CONSIDERATIONS

• Starting from scratch, why re-invent the wheel?
  • Time to deploy
  • Cost
  • Available resources
  • Available infrastructure
  • Experience / expertise
  • Service levels
  • End user experience
  • The unknown
BUILD – CONSIDERATIONS

- Many factors need to be taken into account:
  - Accountability and sovereignty
  - Size of Registry
  - Size of population
  - Enhancing local skill base
  - Building local infrastructure
BUY – CONSIDERATIONS

• Outsourcing may save money, improve quality, or free company resources for other activities

• To outsource all or parts?
  • It’s a critical resource
  • Value for money
  • Sovereignty, security & control
  • Service levels
  • Maintenance options
  • Experience
OUTSOURCING APPROACH

• If outsourcing is the chosen option:
  • Competitive tender
  • Detailed research

• Both options will require:
  • Technical expertise in the evaluation process
  • Time
  • Money
  • Legals

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OUTSOURCING APPROACH

• Risks:
  • Not clearly defining goals and objectives before starting the process
  • Not casting the net widely enough and thus missing good vendors
  • Contingency planning for major disruptions at the service provider

• Benefits:
  • Financial savings
  • Ability to focus resources and attention on core business initiatives
  • Technical burdens are lowered

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BUY – WHO IS OUT THERE?

- AusRegistry International
  - www.ausregistryinternational.com
- i-dns.net
  - www.i-dns.net
- Afilias
  - www.afilias.info
- VeriSign
  - www.verisign.com
- NeuLevel
  - www.neulevel.biz
OPEN SOURCE

Internet Connectivity

Operating System

Linux/UNIX

WHOIS

Database

MySQL & PostgreSQL
(2 largest open source Databases)

EPP & SRS open source systems are available

HTML, PHP, Java, Perl

C/C++, Perl, Java, PHP

Toolkit Interface

Web-Based Interface

Registry Protocol Server

WHOIS Daemon

Port 43

Web-Based Interface

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OPEN SOURCE

• Open Source
  • Still requires customisation
  • Still requires upgrades
  • Not everything is free – connectivity and equipment
  • Who’s to blame when things go wrong?

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CONCLUSION

• Nothing is without risk

• What is right for the current state of the ccTLD:
  • Social factors
  • Economic climate
  • Technical resources

• It’s been done before!

“…good design can't fix broken business models…”

Jeffrey Veen

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