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ENUM Push Nameservers

8 September 2008



ENUM Push Nameservers

Agenda

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- ENUM
- Nameserver Design
- Customers

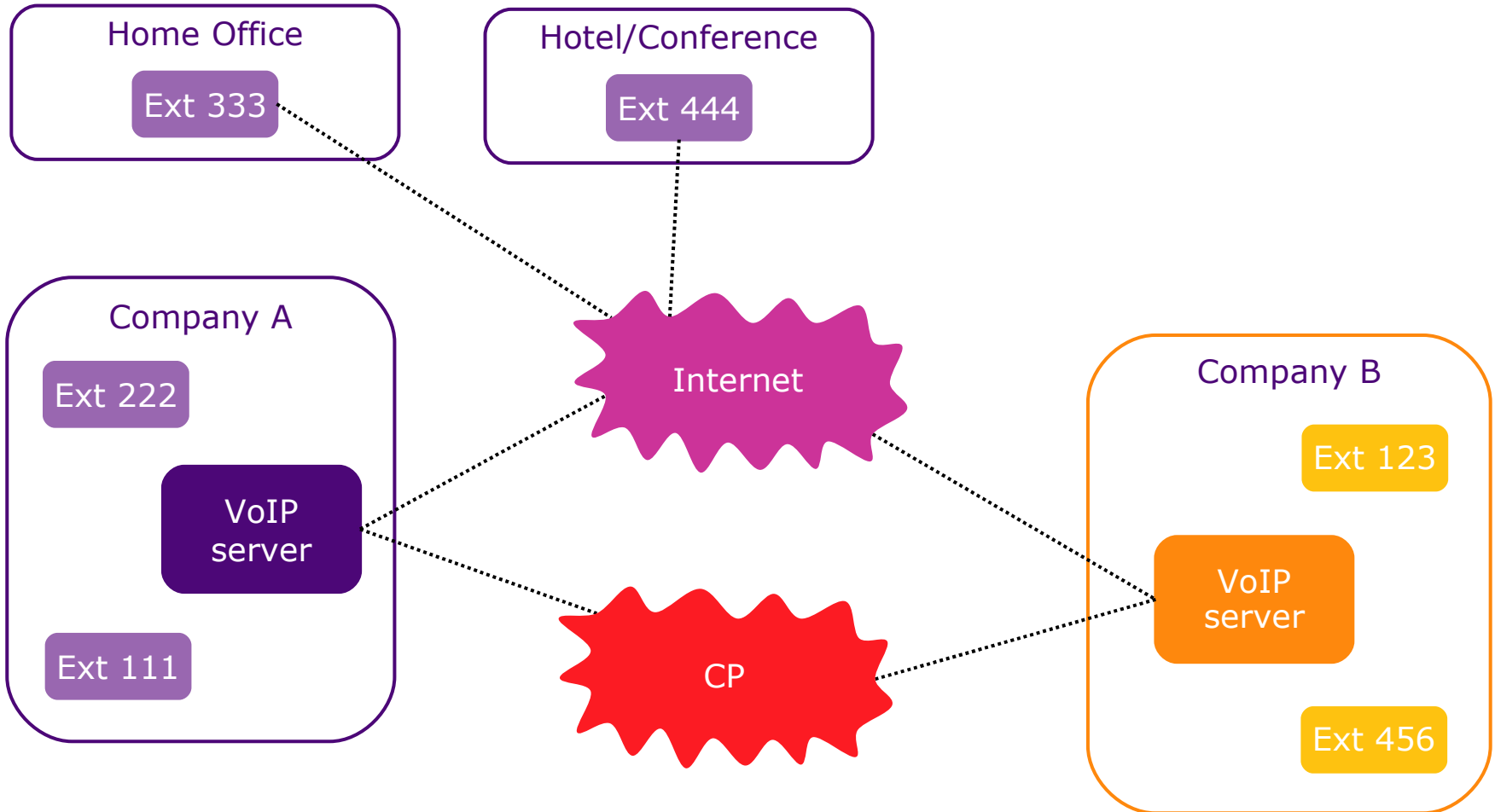
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End-to-end VoIP



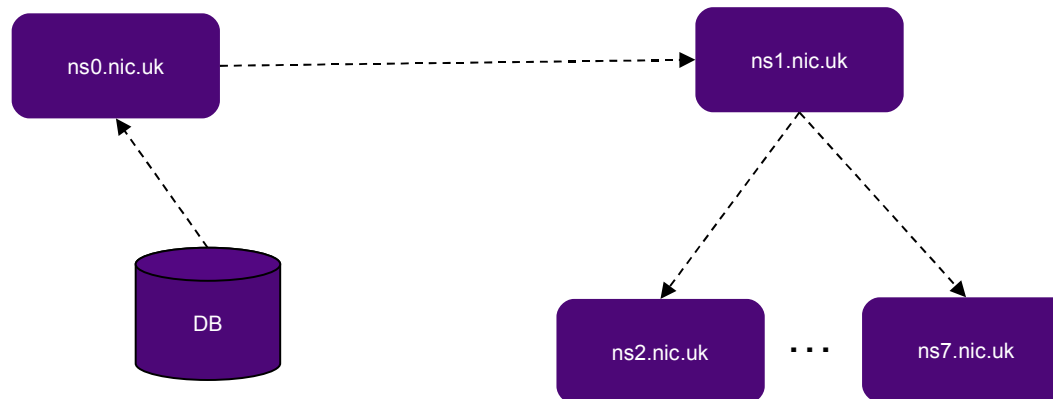
ENUM Delegation

DNS for VoIP

- Telephone numbers
 - 01865 332211 \Rightarrow 1.1.2.2.3.3.5.6.8.1.4.4.e164.arpa
- Machine-readable RRsets
- Nominet authoritative for 4.4.e164.arpa
- Registrars responsible for NAPTR RRsets

ENUM Nameservers

- ns[1-7].nic.uk
 - Publicly accessible
 - Third-party hosted
 - Nominet-controlled
- Dynamically updated

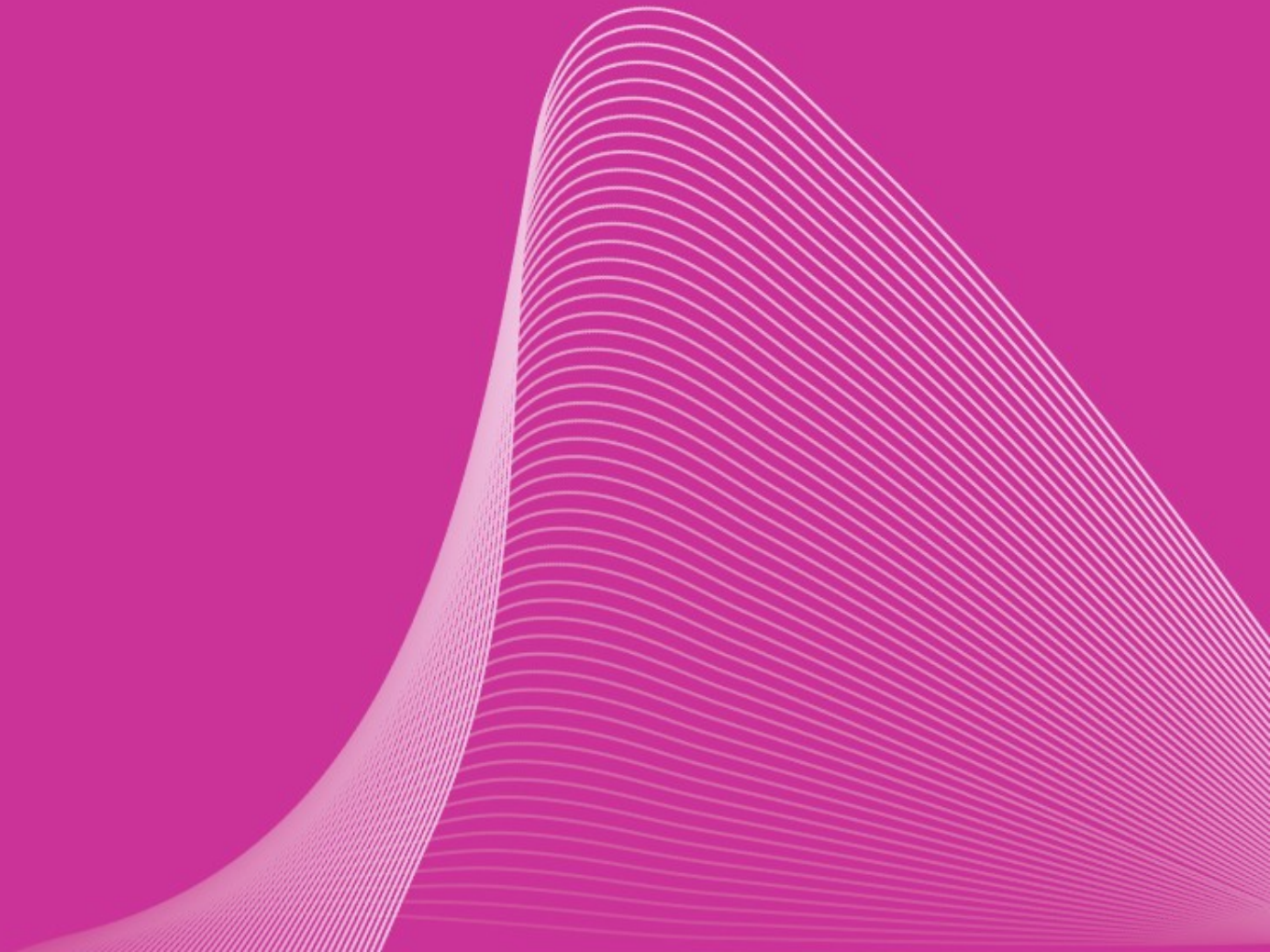


Push nameservers

- Private
 - Customer networks only
 - Locally anycast
- Faster response
- Guaranteed latency
- Resilience

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Nameserver Design

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Push NS Hardware

Commodity Boxes

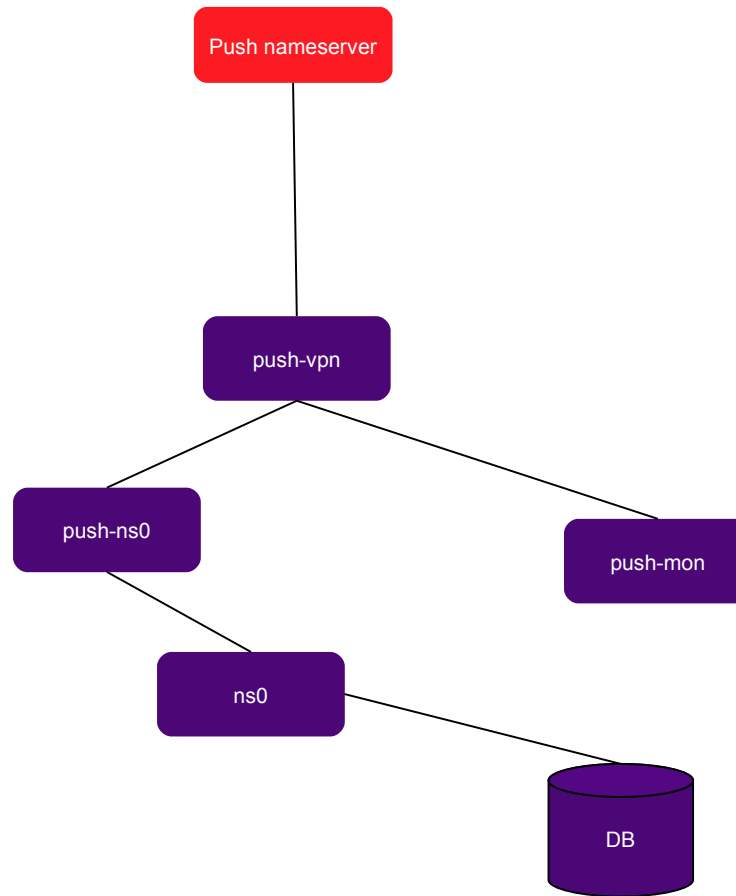
- HP DL365
 - 8GB RAM
 - Mirrored disks
 - Redundant PSU
- Centos 5
- BIND 9.5

Push NS Interfaces

Three Interfaces

- Management interface
 - Local configuration
 - Status reporting
 - NS statistics
- Local Anycast
 - Of public NS
 - Advertised via IGP
- VPN interface
 - Remote monitoring
 - Zone file updates

Push NS connection

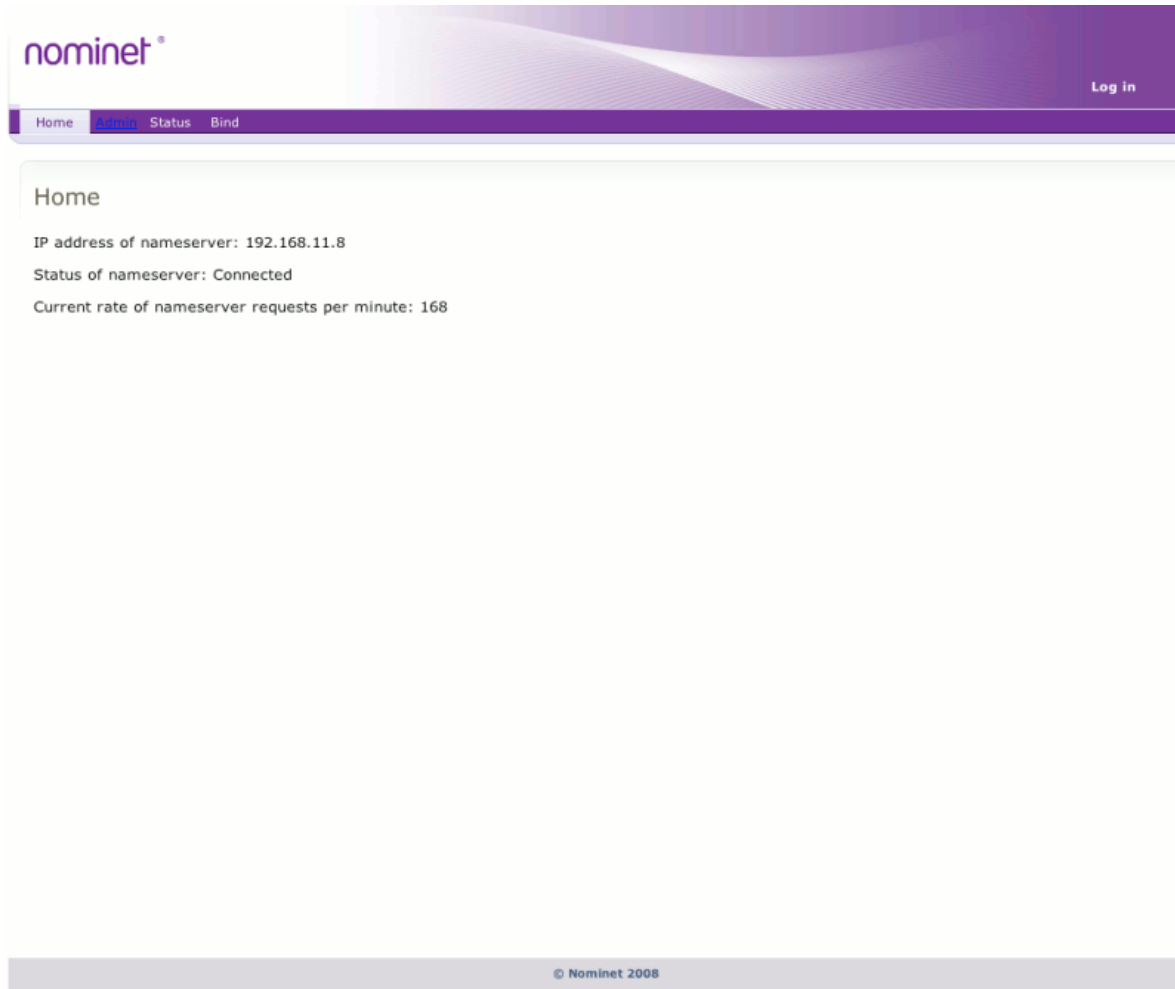


Customer GUI

Local management

- Password protection
- Network configuration
- Status
- BIND statistics

Customer GUI screenshot



Provisioning system

Automated installation & maintenance

- Kickstart
- Puppet
 - Centralised management
 - Now used for all our servers

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Customer experience

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Who?

To be decided

- Data protection issues

Support

What you get

- Initial set-up
 - Handholding
- Out-of-hours
- Replace on failure

How much?

To be decided

- Cost recovery basis

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Questions?

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