

Agenda	
<ul> <li>Updates to DNS in Windows 2003</li> <li>DNS Stub Zones</li> <li>Conditional forwarding</li> <li>Security extensions</li> <li>Managing DNS Client with GP</li> <li>DNS Islands</li> <li>DNS and Application Partitions</li> <li>What are Application Partitions</li> <li>How was DNS handled in Windows 2000?</li> <li>How does DNS fit into Application Partitions?</li> </ul>	
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## DNS Stub Zones



- So what's the problem?
  - Delegations are static
  - Once assigned they need to be manually updated
  - Can easily become stale
  - What's a stub zone?

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- Basically it is like a dynamic delegation
- Periodically the stub zone server will query the target zone Name Server's
- Stub zone gets updated
- "Load balancing" between target Name Server's























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![](_page_7_Figure_2.jpeg)

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## **Application Partitions (II)** Leverage existing infrastructure • Use same Site definitions and parameters Use same replication model Same security and access control model • Access to objects is controlled by ACL's Application Partitions are created in the same way as Domain • partitions: A crossRef object is created in cn=partitions,cn=configuration,dc=forestRootDomain It is of type DomainDNS However there is no NetBIOS name association

## Creating Application Partitions Application Partitions are created by:

- Ntdsutil
- Dcpromo
- Dnscmd
- LDAP / ADSI API's
- Requires:
  - Enterprise Admin credentials
  - Access to the Domain Naming Master
- Default Application Partitions:
  - DNS ForestDNSZones and DomainDNSZones

![](_page_9_Figure_1.jpeg)

![](_page_9_Figure_2.jpeg)

![](_page_10_Figure_1.jpeg)

![](_page_10_Figure_2.jpeg)

![](_page_11_Figure_1.jpeg)

![](_page_11_Figure_2.jpeg)

![](_page_12_Figure_1.jpeg)

![](_page_12_Figure_2.jpeg)

![](_page_13_Figure_1.jpeg)

![](_page_13_Picture_2.jpeg)

![](_page_14_Picture_1.jpeg)