



Video 3

Pre-Installation Preparation

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Where we're going



- **Hardware Requirements**
- **Creating infrastructure.**
 - Physical Disk configuration
 - DNS Setup
 - AD Installation (Dcpromo)
 - Domain Registration
- **Requirements for AD and older Exchange orgs**
- **AD Schema changes**
- **Readiness Scan**
- **Editions and CAL types**
- **Wrap-up**

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Requirements



- **Hardware minimums:**
 - A 64-bit processor - AMD or Intel (EM64T, not Itanium)
 - 2gb of RAM plus 5mb per mailbox (200 users, 3gb RAM) -- more!
 - 1.2gb of free space for installation location and 200mb free on system drive
- **Software:**
 - Windows 2003 SP1 on a domain controller (schema master & global catalog)
 - Windows 2003 x64 with SP1 or R2
 - .Net Framework 2.0
 - MMC 3.0 (comes with R2)
 - PowerShell 1.0
 - Internet Information Server (without SMTP or NNTP)
- **File System: All locations with NTFS**

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Planning Disks – Part 1



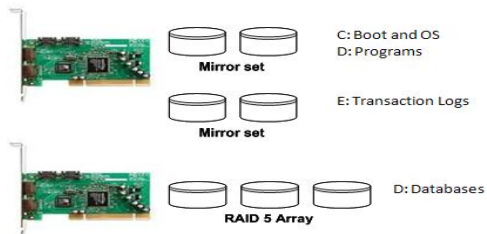
Preparing the disk subsystem

- **Best Practices**

- Hardware RAID solutions
- Spindles, not size, but less critical than with earlier versions of Exchange
- Separate Exchange databases from the operating system
- If possible separate out transaction logs from databases

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Planning Disks – Part 2



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DNS Setup



- **Setting up the name resolution environment**

- External and internal name resolution
 - .com vs .local
- Installing DNS on your future DC
- Configuring local adapters
- Forward lookup zones
- Reverse Lookup zones
- External DNS configuration

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Active Directory



- **Building your domain**

- Running dcpromo
- Confirming Active Directory creation
- Making DNS AD-integrated
- Checking schema master & global catalog roles
- Creating users

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Domain Registration



- **Public Namespaces and Registration**

- Registering an external domain name
- Setting DNS settings
 - A-records - map names to IP Addresses
 - MX-records - make mail for a domain go to a specific named host

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AD Requirements



- **Check for these things:**

- Make sure domain functionality level is Windows 2000 native or higher
- Running Exchange 2007 on a domain controller

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AD Schema Changes



- **Preparing the Schema for Exchange 2007**
 - Setup /PrepareLegacyExchangePermissions if legacy Exchange exists
 - If there are Windows 2000 DCs, use setup /DomainController servername
 - /PrepareSchema
 - /PrepareAD *
 - /PrepareDomain

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Readiness Check



- **Using the Exchange Best Practices Analyzer**
 - Download the latest ExBPA from the Microsoft Exchange Downloads site.
 - Run a Readiness Check to determine whether you've missed anything
 - Use any actionable data to fix problems

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Editions



- **Basic Differences between the two editions**

Feature	Standard	Enterprise
Storage Groups	Up to 5	Up to 50
Databases	Up to 5	Up to 50
Database Limit	16 Terabytes	16 Terabytes
Clustering	Local Continuous Replication	Advanced Clustering

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CAL Types



- **Standard CAL**
 - Standard mailbox access
 - Outlook Web Access
 - Mobile access (Exchange Active Sync)
- **Enterprise CAL (is an add-on)**
 - Unified Messaging
 - Managed Folders
 - Advanced Journaling
 - ForeFront anti-virus security

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Wrap-up



- **Where we've been:**
 - Going over hardware requirements and disk recommendations
 - Setting up DNS
 - Installing Active Directory
 - Registering a domain
 - Updating the Active Directory Schema
 - Running the Readiness Check
 - Examining Editions and CALs

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