

# Windows Server 2008, Active Directory Configuration



*Expert Aaron Spurlock*

## Windows Server 2008, Active Directory Configuration Training 6 Sessions – 18 Hours of Interactive Training

Working with DNS, Configuring Zones, and setting up Domains is only the tip of the iceberg with this course featuring Aaron Spurlock. Learn to work with roles, transferring roles and creating migration strategies and implementations. Work with AD groups, and trust settings. Understand the purpose and implementation of Read Only Domain Controllers. Learn about using CA in Server 2008 and the newest features and rights management built into the Windows 2008 Server. This course will take you through the implementation, maintenance and management of your Active Directory and services to ensure your policies, certificates and access rights are setup to scale and transfer through your enterprise.

### Benefits

- Teaches you the proper setup and maintenance of Active Directory Services in Windows Server 2008
- Prepares you for implementation, and enterprise deployment of Group Policies and Certificates
- Work through possible scenarios of migration and Active Directory role transfers

### About The Author

**Aaron Spurlock** is an MCSE+, MCT, CNE and CNI. He has consulted and trained on networks and computing for the past 15 years with Lucent Technologies, Mastering Computers, Scientific-Atlanta and the Florida Marlins, among others. He currently owns Technovation Design in Ogden, Utah, specializing in Windows 2000 and NetWare 5 consulting as well as home and corporate automation technologies.

### Session 1

Section A: Course Overview  
· Understanding Microsoft Exams

- Objectives
- Prerequisites
- Understanding Active Directory

Directory  
· Active Directory in Server 2008

- Section B: Installing Active Directory
- Active Directory Options
  - Advanced Mode Installation
  - Adding Active Directory
  - Using dcpromo.exe
  - AD Interoperability
  - Upgrade Process
  - Preparing Active Directory
  - Forest Prep
  - Domain Prep
  - Completing AD Installation

- Section C: Server Core
- Server Core Installation and Management
  - Server Core DC
  - Configure IP Address
  - Configure DNS
  - Configure DCPROMO Script

- Section D: DNS
- Understanding DNS
  - DNS Server Settings
  - Managing DNS
  - DC DNS Properties
  - DNS Forwarding
  - Configuring DNS Forwarding
  - Conditional Forwarding

- Section E: DNS Zones
- DNS Zone Basics
  - Zone Types
  - Forward and Reverse Zones
  - Creating Forward Lookups
  - Creating Reverse Lookups
  - Stub Zones
  - Zone Settings
  - Configuring Zone Properties
  - Enabling Aging and Scavenging

- Section F: AD DNS Integration
- Zone Delegation
  - Zone Transfers
  - Configuring Zone Transfers
  - Active Directory Integration
  - Zone Replication
  - Zone Replication Scope

### Session 2

Section A: Domain Name Resolution

- WINS
- GlobalNames Zone
- Create New GlobalNames Zone

Section B: Active Directory Infrastructure

- Active Directory Infrastructure Review
- Operations Masters
- FSMO Roles
- Role Placement
- Transferring Roles
- Transferring Domain Roles
- Transferring Domain Naming Master
- Manage Schema Master

Section C: Active Directory Migration

- AD Functional Levels
- 2008 Domain Functionality
- Forest Functional Levels
- Raising Functionality
- Remove Active Directory
- Decommissioning Server 2003
- Raising Domain Functionality

Section D: Active Directory Sites

- Understanding Active Directory Sites
- Site Links
- Multiple Site Benefits
- Adding New AD Sites
- Creating Subnets
- Managing IP Site Links

Section E: Active Directory Replication

- Understanding Replication
- Configuring AD Replication

Section F: Global Catalog Server

- Global Catalogs
- Global Catalog Location
- Group Membership Caching
- Creating a Global Catalog
- Universal Group Caching
- User Principal Names
- Adding UPN Suffix

### Session 3

Section A: Active Directory Trusts

- Trust Concept
- Default Trusts
- Forest Trusts
- Establishing Forest Trusts
- Trust Direction
- Trust Settings
- Verifying Trust Configuration
- Other Trust Types
- Trust Security
- Configuring Trust Security

Section B: Read-Only Domain Controllers

- RODC Basics
- Installing an RODC
- Creating RODC Account
- Password Replication Policy
- Configuring Password Replication Policy
- RODC Security

Section C: Active Directory Accounts

- Types of Users
- User Account Management
- User Account Control
- Computer Accounts
- Managing Accounts
- Using UAC

Section D: Active Directory Groups

- Groups
- Group Types and Scope
- Domain Local Groups
- Global and Universal Groups
- Creating Domain Local Groups

Section E: Active Directory Delegation

- Understanding Delegation
- Delegating OU Management
- Managing Delegate Control
- Delegate Permission Properties

Section F: Automation

- Automating Active Directory
- Understanding DS Tools
- Script Object Add
- Script Object Modify
- More Automation Techniques
- Using CSVDE

Section G: Active Directory Templates

- Template Accounts
- Creating Template Accounts

# Windows Server 2008, Active Directory Configuration *continued*

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## Session 4

### Section A: Group Policy

- Implementing a Group Policy
- Applying Group Policies
- Configuring Group Policy
- Understanding Inheritance
- Tweaking Policy Application
- Modifying Inheritance
- Group Policy Loopback
- Creating GPOs
- Editing GPOs
- Verifying GPO Inheritance
- Enforcing a GPO

### Section B: Managing Group Policy

- Administrative Templates
- ADMX Central Store
- Configuring Administrative Templates
- Enabling Administrative Templates
- Managing ADMX Central Store

### Section C: Maintaining Group Policy

- Group Policy Highlights
- Starter Group Policies
- Creating a Starter GPO
- Administering Group Policy
- GPO Delegation

### Section D: Auditing

- Auditing with Group Policy
- Configuring GPO Auditing
- Auditing Directory Service Access
- Software Management Policies
- Software Lifecycle Maintenance
- Creating an MIS Package

### Section E: Account Policies

- Account Policy Components
- Configuring Default Account Policies
- Fine-Grained Security Policies
- Password Settings Objects
- Creating PSOs
- Applying PSOs

### Section F: Virtualization

- Server Virtualization
- Virtualized Roles
- Using Hyper-V
- Create New Virtual Machine

## Session 5

### Section A: Lightweight Directory Services

- Understanding LDS
- Working with AD LDS
- Installing AD LDS
- Create AD LDS Instance
- Connecting to AD LDS
- Upgrade ADAM to AD LDS

### Section B: Rights Management Services

- Understanding RMS
- How RMS Works
- Installing AD RMS
- AD RMS Service Account
- AD RMS Cluster Properties
- Managing AD RMS
- Extranet URLs
- AD RMS Trust Policies
- AD RMS Security Policies

### Section C: Federation Services

- WS-Federation
- Federation Components
- Web Applications
- Installing AD FS
- Managing AD FS

### Section D: Configuring AD FS

- Resource Partner
- Account Partner
- Configuring Resource Partner
- Account Group
- AD FS Applications
- Creating Account Partner
- Map Incoming Claim

### Section E: Certificate Services

- Public Key Certificates
- Stand-Alone CA
- Root CA
- Installing AD CA
- CA Types
- PKI Hierarchy

### Section F: Administering CAs

- Managing CA
- Certificate Templates
- CA Permissions
- Enrollment Agent

### Section G: Certificate Enrollment

- User Certificates
- Device Enrollment
- Auto Enroll
- Certification Authority
- Pending Requests

## Session 6

### Section A: Public Key Archival

- Key Archival
- Key Recovery
- Preparing Key Archival
- Recovering Private Keys

### Section B: Certification Revocation

- Certificate Authority
- Online Responder
- Revoking Certificates
- OCSP Certificates
- Configuring Online Responder

### Section C: AD Maintenance

- Performing Maintenance
- Defragmentation
- Defragmenting AD
- Database Maintenance
- Moving Files
- Moving AD Database

### Section D: Monitoring Performance

- AD Performance Monitoring
- Reliability Monitor
- Task Manager
- Resource Monitor
- Reliability and Performance Monitor
- Monitoring Network Activity
- Using Repadmin

### Section E: Diagnostic Tools

- Event Viewer
- Using Event Viewer
- Creating Event Tasks
- Subscriptions
- Event Viewer Custom Views
- Allocating Resources

### Section F: Backing Up

- Data Recovery Options
- Restoring Data
- Command-Line Backup
- WS Backup
- Backup Schedule
- Backup Once

### Section G: Active Directory Recovery

- Recovery Types
- Object Recovery
- AD Snapshots
- Re-creating Users
- Users and Computers
- Recover AD
- Change DSRM Password