

## Windows Server<sup>®</sup> 2003 Active Directory<sup>®</sup>: Hands-On - 5 Days

*Course 596 Overview*

- You Will Learn How To**
- Organise and maintain a Windows Server 2003 Active Directory (AD) enterprise
  - Build a precise and purpose-oriented Organisational Unit (OU) structure
  - Construct an efficient replication topology for your network and site layout
  - Delegate administration and optimise group policy deployment
  - Deploy an appropriate DNS architecture and namespace
  - Restructure domains and forests without interrupting your business operation

**Course Benefits** The Active Directory has become a corporate standard in providing a unified architecture for single sign-on, identity management and desktop configuration. In this comprehensive hands-on course, you learn the essential skills needed to design, implement and support an Active Directory enterprise. You gain the skills to configure the DNS architecture and build site replication topology.

**Who Should Attend** Anyone who needs to organise and maintain a Windows Server 2003 infrastructure as an enterprise business solution. Course 595, "Windows Server 2003 Comprehensive Introduction", or equivalent knowledge is assumed.

**Hands-On Training** Throughout this course, you gain practical experience in building, organising and managing the Active Directory. Extensive hands-on exercises, models and case studies include:

- Restructuring and merging domains and forests
- Building the AD-integrated DNS namespace
- Creating site links for optimal replication
- Setting up an infrastructure for delegation
- Backing up the AD and restoring authoritatively
- Deploying applications automatically
- Optimising inter/intra site multimaster replication
- Preparing the AD for Microsoft Exchange
- Migrating users, groups and security between forests

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Course 596 Outline

## Windows Server 2003 Overview

- Benefits of the Active Directory
- Analysing interoperability requirements

## Defining the Active Directory

### Designing the infrastructure

- Defining an optimal naming strategy for forests, domains, OUs and sites
- Building the forest root domain
- Exploiting Kerberos trust relationships
- Integrating the branch offices with the AD

### Analysing Directory Service components

- Active Directory Application Mode (ADAM)
- Identity Integration Feature Pack (IIFP)
- Active Directory Federation Services (ADFS)

## Maintaining the Infrastructure

### Determining directory partitions

- Identifying forest schema implications
- Configuring application data partitions
- Establishing Global Catalogue fault-tolerance

### Configuring domain controllers

- Enabling universal group caching
- Raising domain and forest functional levels
- Dispatching Flexible Single Master Operations (FSMO) roles effectively
- Renaming domain controllers and domains
- Backing up and restoring the AD

## Constructing the Replication Topology

### Investigating Multimaster replication

- Evaluating Update Sequence Numbers
- Configuring sites, subnets, connection objects and bridgehead servers
- Linking and bridging sites efficiently
- Solving attribute collision issues

### Replication topology maximisation

- Eliminating the single point of failure
- Taming and predicting the Knowledge Consistency Checker (KCC)
- Defining optimal logical site masks
- Determining site-link costs and periodicities
- Comparing the inter/intra site transport protocols

## Automating the Administration

### Securing AD objects

- Leveraging multilevel inheritance
- Adjusting object visibility

### Creating administrative roles

- Distributing administrative power
- Developing the delegation hierarchy

### Configuring workstations and servers with Group Policies

- Fine tuning with filtering, loopback control, overriding and blocking inheritance
- Defining documentation templates

### Installing and maintaining applications/OS

- Implementing application deployment
- Ensuring application compatibility
- Comparing system installation techniques

## Building an Efficient DNS Structure

### Selecting the appropriate architecture

- Merging DNS into your existing namespace
- Constructing AD-integrated DNS
- Choosing DNS replication scopes
- Identifying NetBIOS requirements

### Configuring and maintaining DNS servers

- Connecting DNS to the Internet
- Integrating DNS and DHCP
- Conditional forwarding and stub zones

## Restructuring the Active Directory

### Preparing for the new architecture

- Intra vs. inter forest migrations
- Pruning and grafting domains
- Designing a solid recovery plan
- Adapting accounts with SID-History

### Performing the migration

- Leveraging the Active Directory Migration Tool (ADMT)
- Installing a Password Export Server (PES)
- Translating security during migration
- Troubleshooting failed migrations

### Integrating with other platforms

- Extending the schema for Exchange
- Implementing Microsoft Identity Management for UNIX