

Windows Server 2008 Active Directory, Group Policy and Security Design

Duration: 50 Hours | Price: INR 7000 **SAVE NOW! INR 6000** Until December 1, 2011

Students Will Learn

- Installing and Configuring DNS
- Optimizing Replication in Active Directory
- Network Security with IPSec
- Creating a Group Policy
- Filtering Group Policy with WMI
- Upgrading and Installing Active Directory
- Installing Additional Active Directory Roles
- Using AD Certificate Services
- Restricting Users and Computers with GPO
- Deploying Software with GPO

Course Description: Active Directory provides a single administration point for sign-on, policies and authentication control. This hands on course provides experience configuring Active Directory and essential network security components such as AD Certificate Services, IPSec and virtual private networking (VPN). Students will install Active Directory Domain Services (ADDS), integrate DNS for Active Directory and Internet name resolution, implement AD security for DNS, and configure logical AD components, such as forests, trees, domains and organizational units (OUs). Upgrading and migrating the ADDS structure within or between forests, troubleshooting, backup and restore methods and additional maintenance tools will be explored. Attendees will investigate additional Active Directory roles and services. With ADDS installed, we will monitor and maintain sites and replication to assure up-to-date information.

An administrator needs to control the user environment, so students will look at the architecture, scope, inheritance, replication and troubleshooting in group policy before learning to restrict and enable users with login scripts, rights, desktop policies and software deployment and control. We'll also look at further controlling computers through security policies, loopback processing, and templates. Attendees will delegate administration of the configuration policies, control application and inheritance and explore tools to refine the user experience. Comprehensive labs and exercises give the students real experience installing and configuring Active Directory while securing the network.

Course Prerequisites: Completion of Windows Server 2008 Administration course or equivalent knowledge.

Windows Server 2008 Active Directory, Group Policy and Security Design Course Overview

Domain Name Service (DNS)

- DNS Server Role Introduction
- DNS Architecture
- Creating and Managing DNS Zones
- DNS Zone Transfers
- Dynamic DNS
- Integration with Active Directory

AD Sites and Replication

- Creating and Managing AD Sites
- Site Topology
- DFS Replication Overview
- SYSVOL Replication
- Replication Monitoring and Troubleshooting

Active Directory Schema

- Defining the Active Directory Schema
- Administering the Active Directory Schema
- Schema Modification
- Object Classes and Attributes
- Deactivating Schema Objects

GPO User Configuration

- Logon Scripts
- Folder Redirection
- User Rights
- Desktop Restrictions
- Application Limitations
- Deploying User Software with .msi Files

GPO Computer Configuration

- Assigning Applications to the Desktop
- Security Settings
- Policy Refresh Interval
- Loopback Processing

GPO Administration

- Refreshing the Policy Manually
- Delegating GPO Administration
- Group Policy Management Console (GPMC)
- Combining Policies
- Disabling GPOs
- Block Inheritance
- Enforcement

Active Directory Domain Services

- Active Directory DNS Naming Strategy
- DNS AD-Integrated Zones
- Active Directory Architecture
- Scripting AD Object Configuration
- AD Trust Relationships
- Read-Only Domain Controller (RODC) Configuration

AD Maintenance and Monitoring

- Server 2008 Monitoring Tools
- Flexible Single Master of Operations (FSMO) Roles
- Backing Up the AD Database
- Restore Methods
- Troubleshooting AD and Group Policy
- Cleaning Up AD with NTDSUTIL
- Global Catalog Servers

Group Policy Objects (GPO)

- Group Policy Overview
- Centralized Configuration
- Domain and Local Policies
- Policy Scope
- Policy Inheritance
- Security Configuration Wizard (SCW)
- GPO Replication
- Converting Legacy Policies
- Troubleshooting Conflicts and Inheritance

GPO Security

- Reducing Attack Surface through GPO
- Creating Security Policies
- Using Custom Templates
- Fine-Grained Password Policies
- Software Restrictions

Group Policy Management Console

- Analyzing Resultant Set of Policy (RSOP)
- Group Policy Modeling
- Importing Policies
- Backup and Restore GPOs
- Starter GPOs

Group Policy Software Deployment

- Assigning Software to Users or Computers
- Publishing Applications to Users
- Upgrading and Removing Applications
- Customizing Distributed Software

Remote Access

- Virtual Private Network (VPN) Configuration
- VPN and Authentication Protocols
- Remote Access Policies
- Network Policy Server (NPS)
- Configuring a RADIUS Server
- Troubleshooting

Active Directory certificate Services

- Public Key Infrastructure (PKI)
- Installing and Configuring Internet Information Server (IIS) 7.5
- Installing ASP.NET
- Installing Active Directory Certificate Services
- Web-Based Certificate Request
- Granting and Revoking Certificates
- Publishing the Certificate Revocation List
- PKI Applications and Uses
- Certificate Authorities

Student Testimonials

"Excellent trainer. He was very thorough with his explanations throughout the course. The diagrams were also very helpful. Hands on training has always benefited my educational experience. I would highly recommend this class. I also appreciated working in a team environment to have complementary skills and partner input."

– **GOPI SRIRAM**

"Great course. Fast paced learning covered exactly what I needed."

– **JAYA**

"Labs were very effective in demonstrating objectives."

– **ALOKH**

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