

Windows 2008 System Administration

Duration: 40 Hours | Price: INR 6000 **SAVE NOW! INR 5000 Until December 1, 2011**

Students Will Learn

- Windows Server and Windows 7 Installation
- Powershell Administration
- Terminal Services and Remote Desktop
- User and Group Configuration
- Permissions and Security
- Active Directory Architecture and Installation
- Clustering and Server Virtualization
- System Backup and Update Management
- IPv4 and IPv6 Network Addressing

Course Description: This course provides hands on experience installing and configuring Windows Server 2008. Students will perform full and core CD-based standard installation, deploy an image, configure and tune the server and assign roles and services. Attendees will practice local and remote administration of security, network, data and hardware in hands on labs. After installing an Active Directory domain controller, students will create and assign users, groups, permissions, rights, policies and profiles.

Attendees will configure and troubleshoot the TCP/IP network, create custom consoles and Powershell scripts, and implement a backup strategy. Also covered are many aspects of local security, such as group policy objects (GPO), Encrypting File System (EFS), rights and permissions, Firewall, and Network Level Authentication. Students will learn to use enterprise tools such as Distributed File System (DFS) and File System Resource Manager (FSRM) to facilitate clustering and virtualization. Comprehensive labs and exercises give the students real experience deploying, managing and troubleshooting the Windows 2008 infrastructure.

Course Prerequisites: Understanding of Windows Vista or Windows 7, Aero interface and control panel applets.

Follow-up Course: Windows Server 2008 Active Directory and Security Design.

Windows 2008 System Administration Course Overview

Overview of Windows Server 2008

- Windows Architecture
- Windows Server 2008 Editions
- Server Roles
- Disk Management
- Powershell
- Terminal Services
- Virtualization
- Patch and Update Management
- Tuning System Performance
- Remote Assistance
- Backup and Recovery
- Licensing and Activation
- System Center
- Active Directory

Windows Management

- Server Manager
- Remote Server Admin Tools (RSAT)
- Event Viewer
- Event Subscription
- Performance Monitor
- Performance and Reliability Monitor
- Performance Logs and Alerts
- Windows Hardware Error Architecture (WHEA)
- Tuning System Performance
- Windows System Resource Manager (WSRM)
- Windows Remote Management (WinRM)
- Shutdown Event Tracker

Installing Windows

- Hardware Requirements
- DVD Installation
- Windows 2008 Core Installation
- Upgrading Existing Operating Systems

Configuring Windows

- Initial Configuration Tasks (ICT)
- Command Line Server Core Configuration
- Configuring the Network
- Selecting and Installing Device Drivers
- Configuring Printers

Administering Users and Groups

- Creating Local Users and Groups
- Creating Domain Users and Groups
- Local and Domain Groups
- Setting User Rights
- User Profiles
- Setting the Accounts Policy
- Upgraded Security Accounts Manager (SAM) Database
- User Account Control (UAC)
- Administrator Approval Mode (AAM)

Networking

- TCP/IP version 4 (IPv4)
- IPv4 Addressing
- TCP/IP version 6 (IPv6)
- Dynamic Host Configuration Protocol (DHCP)
- Understanding Workgroups and Domains
- TCP/IP Diagnostic Tools
- Windows Firewall
- Network Troubleshooting

Dynamic Host Configuration Protocol

- DHCP Lease Process
- Troubleshooting DHCP Clients
- Authorizing a DHCP Server in Active Directory
- Scopes
- Reservations
- DHCP Options

Security Features

- Multiple Local GPOs (MLGPOs)
- Encrypting File System
- NTFS Permissions
- User Rights

Microsoft Management Console 3.0

- Snap-Ins
- Standard Consoles
- Customizing Consoles
- Task Pads

Powershell

- Cmdlets
- Scripting
- Variables
- Creating Users, Groups and OUs
- Manipulating Objects

Virtualization

- Planning and Design
- Hyper-V
- Hardware Requirements
- Virtual Server
- Consolidating Resources
- Isolating Services
- Licensing Requirements

Clustering

- High Availability
- Cluster Models
- Planning
- Failover
- Network Load Balancing (NLB)

File Server Resource Manager (FSRM)

- Configuring Quotas
- File Screening
- Reporting

Group Policy

- Implementing Security
- Desktop Configuration
- Distributing Applications
- Domain and Local Policies
- Group Policy Management Console (GPMC)

Active Directory Domain Services

- ADDS Architecture
- Domains, Trees and Forests
- Organizational Units (OU)
- Read-Only Domain Controller (RODC)
- Flexible Single Master of Operation (FSMO) Roles
- Global Catalog
- Schema
- Domain Controller Installation
- DNS Requirements
- Configuring Active Directory
- Delegating Authority
- Ad Replication

Permissions

- NTFS File and Folder Permissions
- Permission Inheritance
- Effective Permissions
- Shared Folder Permissions
- Administrative Shares

Distributed File System (DFS)

- DFS Replication
- Domain-based DFS
- Namespace Root
- Access-based Enumeration
- Diagnostic Reports
- Replication Groups

Terminal Services

- Terminal Services Architecture
- Remote Desktop
- Remote Applications
- TS Web Access
- Mapping Local Resources
- Terminal Server Licensing
- TS Gateway Server
- TS Session Broker
- Remote Desktop Client
- Network Level Authentication

System Recovery and Restoration

- Server Backup and Restore
- Volume Shadow Copy Service
- System State Data
- Automated System Recovery (ASR)
- Recovery Console

Remote Assistance

- Requesting Remote Assistance
- Enabling Remote Assistance Offer
- Sending an Invitation File
- Responding to an Assistance Request

Student Testimonials

"Great class. I learned a lot of valuable admin tools to run my network more efficiently and effectively."

– **JENIFER**

"Very good class. The instructor was excellent ... his knowledge really shown through with his real life examples."

– **POORNIMA**



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