Windows 2008 R2 Server Administration

Learn how to:

- Understand the different version of Windows 2008 R2
- Install Active Directory on Windows 2008 R2 Servers
- Configure and troubleshoot TCP/IPv4 and v6
- Configure and troubleshoot Servers
- Connect Windows clients to networks
- Create and manage user accounts
- Manage access to resources by using groups
- Provide secure access to networked resources
- Monitor and optimize Windows 2008 R2 performance
- Implement disaster protection and security auditing
- Install and configure Remote Desktop Services
- Understand hot to deploy Windows clients across a network

Pre-requisites:

This course assumes delegates have knowledge of implementing Windows XP, Window Vista or Windows 7 in a Network business environment. These skills can be obtained from our desktop support courses.

Duration:

3 days

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Course Details:

Windows 2008 R2 Server Overview
What is Windows Server 2008
The Windows 2008 R2 Family
Server 2008 R2: Hardware requirements
Server 2008 R2 - Feature Comparison
Overview - PowerShell
Overview - Server Core
Overview - Hyper-V
Windows Server 2008 R2 Interoperability

Installation and Deployment
Pre-Installation Tasks
Installation Troubleshooting
Unattended Installation Overview
Installing / Upgrading to Windows 2008 R2
Preparing for Installation
Installing Windows 2008 R2 Server
Identifying Setup Errors

Overview of Active Directory
What is Active Directory?
Introducing Trees and Forests
Active Directory Physical Structure
Installing Active Directory on Windows 2008 R2 Servers
Troubleshooting the Installation of Active Directory

Introduction to TCP/IP
The History of TCP/IP
Overview TCP/IP V4
IP Addressing
Configuring IPv6 TCP/IP
Overview of IPv6
Coexistence with IPv4
Transitioning from IPv4 to IPv6
Configuring a New IPv6 Network and Client

Configuring and Troubleshooting DNS
Installing the DNS Server Role
Configuring the DNS Server Role
Configuring a DNS Infrastructure
Troubleshooting DNS

The Server Manager
What is the Server Manager Utility?
Accessing Server Manager
Adding/Removing Roles
Adding/Removing Features

Creating and Managing User Accounts
Introduction to User Accounts
Guidelines for New User Accounts
Creating Local User Accounts
Creating and Configuring User Accounts
Setting Properties for Domain User Accounts
Customizing User Settings with User Profiles
Best Practices

Managing Resource Access by Using Groups
Introduction to Windows 2008
Groups
Implementing Groups in a Workgroup
Implementing Groups in a Domain
Best Practices

Monitoring and Optimizing Performance
Monitoring Event Logs
Using Task Manager to Monitor System Resources
Using System Monitor to Monitor System Performance
Using System Alerts
Identify counters to monitor
Optimizing Performance
Resolving Performance Bottlenecks
Performance Logging

NTFS Security and Permissions
NTFS Permissions
Setting NTFS permissions on files and folders
Sharing Resources
Setting Share Level Security Permissions
Combining NTFS and Share Level Permissions

BitLocker Volume Encryption
What is BitLocker?
Disk Partitioning for BitLocker
Trusted Platform Module (TPM)
BitLocker Operational Modes
Installing and Configuring BitLocker

Implementing Security Auditing
Overview – Auditing Windows Server 2008 R2
Configuring Auditing
Viewing/Examing Audi Logs

Implementing Disaster Protection
Introduction to Disaster Protection
Implementing Fault Tolerance by Using RAID
Backing Up and Restoring Data
Using Disaster Recovery Tools

Implementing Disk Management
Basic V Dynamic Storage
New Disk Management Features
Spanned, Striped, Mirrored & RAID 5 Volumes
Configuring Disk Quotas
Overview – Virtual Hard Disks
Configuring Virtual Hard Disks

Printing
Windows Printing
Print Management
Printer Options
Printer Pooling
Opening a Print Queue
Creating a Printer Filter
Web Print Management
Printer Permissions

Remote Administration Using Remote Desktop
Introduction to Remote Administration
Remote Administration Options
Windows 2008 R2 Administrative Tools
Windows 2008 R2 Remote Desktop for Administration
Remote Desktop Licensing
Remote Desktop Core Functionality
Overview - RemoteApp
Overview - Desktop Gateway
Overview -Remote Desktop Web Access
Overview -Remote Desktop Session Broker

Deploying Clients Over the Network
Overivew - What is WDS?
Installing and Configuring WDS
Deploying Windows 7 Clients Using WDS