Microsoft Certified Solutions Expert [MCSE] Server Infrastructure Microsoft Certified Solutions Associate [MCSA]

This course is developed for IT professionals who need to design, plan, implement, manage and support Microsoft Windows 2008 and 2012 networks or who plan to take the related MCSE and MCSA exams. The training will be given by Senior System/Network engineers with several years of field experience.

Course Outline

- Network & Operating System Essentials
- Installing and Configuring Windows Server 2012
- Administering Windows Server 2012
- Designing and Implementing Server Infrastructure
- Configuring Windows Server 2012 Services
 - Active Directory Domain Services
 - DNS, DHCP, IIS 8.0, VPN
- Configuring File Server
 - File Server Resource Manager
 - Configuring Shared Resources
- Implementing Microsoft Virtualization Technologies
 - Server Virtualization using Hyper-V
- Configuring Advanced Storage Solutions
 - iSCSI Target and Initiator
 - Storage Spaces and Storage Pools and RAID
- Implementing Security Restrictions
 - Group Policies
 - Group Policy Preferences

MCSE Windows Server 2012 Server Infrastructure

Course Curriculum

Networking Essentials

- Networking concepts, History of Server OS
- Introduction to Windows Server 2008 & 2012
- Features of Windows Server 2012
- Installation of Windows Server 2012
- Introduction and Creation of Users Accounts
- Conversion of GUI to Server Core
- Conversion of Server Core to GUI

Active Directory - Domain Services

- IP Addressing
- Logical Topologies, Peer to Peer & Domain Models
- Introduction to Directory Services
- Evolution of Directory Services LDAP Protocol
- Features of Active Directory
- Installing Active Directory Domain Controller

Member Servers, Clients, User Configuration

- Configuring Member Servers and Clients.
- Creating Users in AD-DS
- User Logon policies
- Password policies
- Account Lockout policies
- User properties

Permissions/Access Control Lists

- File Systems
- Security and Sharing Permissions Folders & Files
- Access Based Enumeration

Profiles and File Server Resource Manager [FSRM]

- Types of Profiles Local & Roaming
- Home Folder
- Configuring Quotas using FSRM
- Implementing File Screening using FSRM
- Configuring Storage Reports Management.
- Introduction to Distributed File System
- Creating Organisational Unit
- Delegating Control to a User

Logical Structure of AD - DS

- Configuring ADC
- Tree Structure Child Domain
- Forest Structure

FSMO Roles of AD - DS

- Roles of AD DS
- Transferring of Roles
- Seizing of Roles

Group Policy / System Policies

- User and Computer Policies
- Scope of Policies OU, Domain, Sites
- Group Policy Modeling (RSOP)
- Software Deployment
- Scripts, Folder Redirection
- Group Policy Preferences
- Auditing

Active Directory Trusts

- Introduction to Trust Relationship
- Categories, Directions & Types of Trusts
- Functional Levels
- Authentication Protocols
- Configuring Forest Trusts between 2012 Forests
- Active Directory Recyclebin

Physical Structure of AD-DS

- Introduction to Read Only Domain Controller
- Sites and Global Catalog
- Replication between the Domain Controllers
- AD-DS Partitions

Dynamic Host Configuration Protocol (DHCP)

- Introduction and Configuration of DHCP Server
- DHCP Client Configuration
- Reservations
- DHCP Backup
- Configuring DHCP Failover

Domain Name System (DNS)

- Internet Basics, Host Files
- DNS Naming Hierarchy
- Lookup Zones Forward and Reverse Lookup Zones
- Types of Zones Primary, Secondary and Stub Zone
- Resource Records, Integration with AD-DS, SRV Records
- Forwarders, Dynamic Updates

Internet Information Services (IIS)

- IIS 8.0 ConfigurationHosting Websites, Virtual Directories
- Hosting websites, winder Director
- Redirecting Web Sites
- Backup and Restoring Sites
- FTP sites

Windows Deployment Services

- Introduction and Configuration of WDS Server
- Attended and Unattended Installation

Microsoft Hyper-V

- Installation of Hyper-V
- Configuring Virtual Machine
- Configuring Virtual Networks
- Configuring Virtual Hard disks
- Configuring Hyper-V Replica

Remote Access Service

- Remote Access Server Configuration
- NAT and VPN PPTP
- Remote Desktop Services
 - Remote Administration Mode

Storage Technologies

Failover Clustering

Advanced Topics

Configuring Failover on

Hyper-V Virtual Mechines

Windows Server Backup

Configuring NLB cluster Overview of NAP

Configuring iSCSI Target and Initiator

Configuring Mirror Volume (RAID - 1)

Configuring Parity Volume (RAID – 5)

Overview of AD-FS, LDS, RMS, CS

Upgrading Windows Server 2008 to 2012

www.zoomgroup.com

Introdution to Storage spaces and Storage Pools
Configuring Simple Volume (RAID – 0)