



Course 20413C

Designing and Implementing a Server Infrastructure

Course Length : 40 Hours
Professional Series : 5 Days
Academic Series : 6 Weeks

Module 1:

Planning Server Upgrade and Migration

- Considerations for Upgrades and Migrations
- Creating a Server Upgrade and Migration Plan
- Planning for Virtualization

Module 2:

Planning and Implementing a Server Deployment Strategy

- Selecting an Appropriate Server Deployment Strategy
- Implementing an Automated Deployment Strategy

Module 3:

Planning and Deploying Servers Using Virtual Machine Manager

- System Center 2012 R2 Virtual Machine Manager Overview
- Implementing a Virtual Machine Manager Library and Profiles
- Planning and Deploying Virtual Machine Manager Services

Module 4:

Designing and Maintaining an IP Configuration and Address Management Solution

- Designing DHCP Servers
- Planning DHCP Scopes
- Designing an IPAM Provisioning Strategy
- Managing Servers and Address Spaces by Using IPAM

Module 5:

Designing and Implementing Name Resolution

- Designing a DNS Server Implementation Strategy
- Designing the DNS Namespace
- Designing DNS Zones
- Designing DNS Zone Replication and Delegation
- Optimizing DNS Servers
- Designing DNS for High Availability and Security

Module 6:

Designing and Implementing an Active Directory Domain Services Forest and Domain Infrastructure

- Designing an Active Directory Forest
- Designing and Implementing Active Directory Forest Trusts
- Designing Active Directory Integration with Windows Azure Active Directory
- Designing and Implementing Active Directory Domains

- Designing DNS Namespaces in Active Directory Environments
- Designing Active Directory Domain Trusts

Module 7:

Designing and Implementing an AD DS Organizational Unit Infrastructure

- Planning the Active Directory Administrative Tasks Delegation Model
- Designing an OU Structure
- Designing and Implementing an AD DS Group Strategy

Module 8:

Designing and Implementing a Group Policy Object Strategy

- Collecting the Information Required for a GPO Design
- Designing and Implementing GPOs
- Designing GPO Processing
- Planning Group Policy Management

Module 9:

Designing and Implementing an AD DS Physical Topology

- Designing and Implementing Active Directory Sites
- Designing Active Directory Replication
- Designing the Placement of Domain Controllers
- Virtualization Considerations for Domain Controllers
- Designing Highly Available Domain Controllers

Module 10:

Planning and Implementing Storage and File Services

- Planning and Implementing iSCSI SANs
- Planning and Implementing Storage Spaces
- Optimizing File Services for Branch Offices

Module 11:

Designing and Implementing Network Protection

- Overview of Network Security Design
- Designing and Implementing a Windows Firewall Strategy
- Designing and Implementing a NAP Infrastructure

Module 12:

Designing and Implementing Remote Access Services

- Planning and Implementing DirectAccess
- Planning and Implementing VPN
- Planning and Implementing Web Application Proxy
- Planning a Complex Remote Access Infrastructure

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