Learn to plan, design, and deploy logical Windows Server 2012 R2 infrastructure.

In this course, you will gain the skills and knowledge needed to plan, design, and deploy a physical and logical Windows Server 2012 R2 infrastructure. You will develop the skills needed to provide an enterprise solution that supports manual and automated server installations in physical and virtual environments including the supporting file and storage services. You will also learn the skills necessary to provide enterprise networking solutions such as DHCP, IPAM, VPN, and DirectAccess. Discover how to design and implement a forest and domain infrastructure including multi domains/forest and branch office scenarios.

This course incorporates material from the Microsoft Official Course 20413 and will help you prepare for Exam 70-413: Designing and Implementing a Server Infrastructure.

Re redeem five SATVs for an individual On-Demand course plus digital Microsoft Official Courseware (dMOC). For more information on Microsoft SATVs click here.

What You'll Learn

- Plan server upgrade and migration
- Plan and implement a server deployment strategy
- Plan and deploy servers by using System Center 2012 R2 Virtual Machine Manager (VMM)
- Design a name resolution solution strategy
- Design and manage an IP configuration and address management solution
- Design and implement an Active Directory Domain Services (AD DS) forest and domain infrastructure
- Design and implement an AD DS organizational unit (OU) infrastructure
- Design and implement a Group Policy Object (GPO) strategy
- Implement a scalable remote access solution
- Design a network protection solution
• Implement a network protection solution

Who Needs to Attend
• IT professionals responsible for planning, designing, and deploying a physical and a logical Windows Server 2012 enterprise AD DS infrastructure including the network services necessary

Prerequisites
• Good understanding of Transmission Control Protocol/Internet Protocol (TCP/IP) fundamentals and networking concepts
MOD+DMOC: DESIGNING AND IMPLEMENTING A SERVER INFRASTRUCTURE (M20413)

Course Code: 4600

ON-DEMAND $1,095 USD 90 days

On-Demand Outline

1. Planning Server Upgrade and Migration
   - Upgrading and Migrating Considerations
   - Creating a Server Upgrade and Migration Plan
   - Planning for Virtualization

2. Planning and Implementing a Server Deployment Infrastructure
   - Selecting an Appropriate Server Imaging Strategy
   - Implementing an Automated Deployment Strategy

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

4. Designing and Maintaining an IP Configuration and Address Management Solution
   - Designing and Implementing DHCP
   - Planning and Implementing DHCP Scopes
   - Planning and Implementing an IP Address Management (IPAM) Provisioning Strategy

5. Designing and Implementing Name Resolution
   - Designing a Domain Name Service (DNS) Server Implementation Strategy
   - Designing the DNS Namespace
   - Designing and Implementing DNS Zones
   - Designing and Configuring DNS Zone Replication and Delegation
   - Optimizing DNS Servers
   - Designing DNS for High Availability and Security
6. Designing and Implementing an AD DS Forest and Domain Infrastructure
   • Designing an AD DS Forest
   • Designing and Implementing AD Forest Trusts
   • Designing and Implementing AD Domains
   • Designing DNS Namespaces in AD Environments
   • Designing AD Domain Trusts

7. Designing and Implementing an AD DS Organizational Unit (OU) Infrastructure
   • Planning the AD DS Administrative Tasks Delegation Model
   • Designing the OU Structure
   • Designing and Implementing an AD DS Group Strategy

8. Designing and Implementing a Group Policy Object (GPO) Strategy
   • Gathering the Information Required for a GPO Design
   • Designing and Implementing GPOs
   • Designing GPO Processing
   • Planning Group Policy Management

9. Designing and Implementing an AD DS Physical Topology
   • Designing and Implementing AD Sites
   • Designing AD Replication
   • Designing the Placement of Domain Controllers
   • Virtualization Considerations for Domain Controllers
   • Designing Highly Available Domain Controllers

10. Planning and Implementing Storage and File Services
    • Planning and Implementing iSCSI SANs
    • Planning and Implementing Storage Spaces
    • Optimizing File Services for Branch Offices

11. Designing and Implementing Network Protection
    • Overview of Network Security Design
    • Designing and Implementing a Windows Firewall Strategy
    • Designing and Implementing a NAP Infrastructure

12. Designing and Implementing Remote Access Services
    • Designing and Implementing DirectAccess
    • Planning and Implementing VPN
    • Planning and Implementing Web Application Proxy
    • Planning a Complex Remote Access Infrastructure

On-Demand Labs

Note: Labs in this course are based on Windows Server 2012 R2 and System Center 2012 R2.

Lab 1: Plan Server Upgrade and Migration
Lab 2: Plan and Implement a Server Deployment Infrastructure
- Plan an Automated Server Installation and Deployment Strategy
- Prepare the Windows Server 2012 R2 Image
- Deploy Windows Server 2012 R2

Lab 3: Planning and Deploying Virtual Machines by Using Virtual Machine Manager
- Planning Microsoft System Center 2012 R2 Virtual Machine Manager Components
- Planning Virtual Machine and Service Templates
- Implementing Virtual Machine Manager Components

Lab 4: Design and Maintain an IP Configuration and IP Address Management Solution
- Plan DHCP to Support Your Proposed Scheme
- Plan an IPAM Deployment
- Implement DHCP and IPAM

Lab 5: Design and Implement Name Resolution
- Design a DNS Name Resolution Strategy
- Plan a DNS Server Placement Strategy
- Plan DNS Zones and DNS Zone Replication
- Implement DNS

Lab 6: Design and Implement an AD DS Forest Infrastructure
Lab 7: Design and Implement an AD Domain Infrastructure
Lab 8: Design and Implement an AD DS OU Infrastructure and AD DS Delegation Model
- Design an OU Infrastructure
- Implement the OU Design
- Design and Implement an AD DS Permissions Model

Lab 9: Designing and Implementing GPO Strategy
Lab 10: Design and Implement an AD DS Physical Topology
- Design AD DS Sites and AD DS Replication
- Plan the Placement of Domain Controllers
- Implement AD DS Sites and Domain Controller

Lab 11: Plan and Implement Storage
- Plan a Storage Solution
- Implement iSCI Storage
- Configure a Redundant Storage Space

Lab 12: Design and Implement Network Protection
- Design a Windows Firewall Solution
- Implement a Windows Firewall Solution
- Design a Network Access Protection (NAP) Solution
- Implement NAP with IPsec Enforcement

Lab 13: Design and Implement Network Access Services
• Designing a Remote Access Strategy
• Plan and Implement a DirectAccess Solution
• Plan and Implement a VPN Solution
• Implement Web Application Proxy

Visit us at www.globalknowledge.com or call us at 1-866-716-6688.

Date created: 3/1/2020 12:58:02 AM
Copyright © 2020 Global Knowledge Training LLC. All Rights Reserved.