Designing and Implementing a Server Infrastructure

Duración: 5 Días      Código del Curso: M20413

Temario:
Get hands-on instruction and practice planning, designing and deploying a physical and logical Windows Server 2012 R2 enterprise infrastructure in this 5-day Microsoft Official course. This course is part one in a series of two courses that provides the skills and knowledge necessary to design and implement a Windows Server 2012 R2 infrastructure in an enterprise environment. The two courses collectively cover designing, planning, deploying, securing, monitoring, automating, and virtualizing an enterprise server infrastructure. This course covers the knowledge and skills needed to provide an enterprise solution that supports manual and automated server installations in a physical and virtual environment 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. You will also learn the skills necessary to design and implement a forest and domain infrastructure including multi domains/forest and branch office scenarios. This course maps directly to and is the preferred choice for hands-on preparation for Microsoft Certified Solutions Expert (MCSE): Exam 413: Designing and Implementing and Server Infrastructure, which is the fourth of five exams required for MCSE: Server Infrastructure certification.

Dirigido a:
This course is intended for IT professionals who are responsible for planning, designing, and deploying a physical and a logical Windows Server 2012 enterprise Active Directory Domain Services (AD DS) infrastructure including the network services necessary. They have experience of previous Windows Server operating systems and possess Windows Server 2012 certification Microsoft Certified Solutions Associate (MCSA) or equivalent skills. The course is also intended for IT professionals who are looking to take the exam 70-413: Designing and Implementing a Server Infrastructure, as a stand-alone, or as part of the requirement for the Microsoft Certified Solutions Expert (MCSE): Server Infrastructure Certification.

Objetivos:
- Plan server upgrade and migration.
- Design and implement a Group Policy Object (GPO) strategy.
- Plan and implement a server deployment strategy.
- Design and implement an AD DS organizational unit (OU) infrastructure.
- Plan and deploy servers by using System Center 2012 R2 Virtual Machine Manager (VMM).
- Design and implement an AD DS physical topology.
- Design and implement a forest and domain infrastructure.
- Design and maintain an IP configuration and address management solution.
- Design and implement network protection.
- Design and implement name resolution.
- Design and implement remote access services.
- Design and implement storage and file services.

Prerequisitos:
- Candidates for this course have good Windows client and server operating system knowledge and basic AD DS and networking experience in an enterprise/small business (SMB) environment together with application configuration experience.
- In addition to their professional experience, students who attend this training should already have the following technical knowledge:
  - A good understanding of Transmission Control Protocol/Internet Protocol (TCP/IP) fundamentals and networking concepts.
  - A good working knowledge of both Windows Server 2012 R2 and Active Directory Domain Services (AD DS). For example, domain user accounts, domain vs. local user accounts, user profiles, and group membership.
  - A good understanding of both scripts and batch files.
  - A solid understanding of security concepts, such as authentication and authorization.
  - Familiarity with Windows Server 2012 R2 and Active Directory Domain Services.
with deployment, packaging, and imaging tools. Ability to work in a team/virtual team. Ability to produce good documentation and have the appropriate communication skills to create proposals and make budget recommendations. Knowledge equivalent to Windows 2012 R2 MCSA.

- Students who attend this training can meet the prerequisites by attending the following courses, or obtaining equivalent knowledge and skills:
  - 20410D: Installing and Configuring Windows Server 2012
  - 20411D: Administering Windows Server 2012
  - 20412D: Configuring Advanced Windows Server 2012 Services
  - 20417D: Upgrading Your Skills to MCSA Windows Server 2012
Contenido:

Module 1: Planning Server Upgrade and Migration
- Considerations for Upgrades and Migrations
- Creating a Server Upgrade and Migration Plan
- Planning for Virtualization

Lab: Planning a Server Upgrade and Migration
- Planning a Strategy for Server Upgrade and Migration
- Evaluating Candidates for Server Virtualization

Module 2: Planning and Implementing a Server Deployment Strategy
- Selecting an Appropriate Server Deployment Strategy
- Implementing an Automated Deployment Strategy

Lab: Planning and Implementing a Server Deployment Infrastructure
- Planning an Automated Server Installation and Deployment Strategy
- Preparing the Windows Server 2012 R2 Image
- Deploying Windows Server 2012 R2

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

Lab: 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

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

Lab: Designing and Maintaining an IP Configuration and IP Address Management

Module 5: Designing DNS Zones and Implementing DNS Replication
- Designing a Strategy for DNS Name Resolution
- Designing a Strategy for DNS Server Placement
- Designing DNS Zones and DNS Zone Replication
- Implementing DNS

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

Lab: Planning and Implementing an Active Directory Domain Services Forest and Domain Infrastructure
- Designing an Active Directory Forest Infrastructure
- Implementing Active Directory Forest 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

Lab: Designing and Implementing an Active Directory OU Infrastructure and Delegation Model
- Designing an Organizational Unit Infrastructure
- Implementing the OU Design
- Designing and Implementing an Active Directory Permissions Model

Module 8: Designing and Implementing a

Lab: Designing and Implementing an Active Directory Domain Services Physical Topology
- Designing Active Directory Sites and Replication
- Planning the Placement of Domain Controllers and Active Directory Replication
- Implementing Active Directory Sites and 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

Lab: Planning and Implementing Storage and File Services
- Planning a Storage Solution
- Implementing iSCSI Storage
- Configuring a Redundant Storage Space

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

Lab: Designing and Implementing Network Protection
- Designing a Windows Firewall Solution
- Implementing a Windows Firewall Solution
- Designing a NAP Solution
- Implementing NAP with IPsec Enforcement

Module 12: Designing and Implementing Remote Access Services
- Planning and Implementing DirectAccess
- Planning and Implementing a DirectAccess Solution
- Planning and Implementing Network Access Services
- Planning and Implementing a VPN Solution
- Implementing Web Application Proxy

Lab: Designing and Implementing Network Access Services
- Designing a Remote Access Strategy
- Planning and Implementing a Remote Access Strategy
Solution
- Planning DHCP to Support Your Proposal
- Planning an IPAM Deployment
- Implementing DHCP and 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

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

Lab: Designing and Implementing a Group Policy Object Strategy
- Designing a GPO Strategy
- Implementing the GPO Design

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

Más información:
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