

# Designing and Implementing a Server Infrastructure (20413)

- **Formato do curso:** Presencial
- **Com certificação:** Microsoft Certified Solutions Expert (MCSE)
- **Preço:** 1670€
- **Nível:** Avançado
- **Duração:** 35 horas

O formando fica com as competências de planificação, desenho e implementação física e lógica do Windows Server 2012. Este curso é o primeiro de uma serie de dois cursos com o objetivo de abordar os seguintes tópicos:

- Planificação e implementação de uma estratégia de instalação de servidores;
- Planificação de soluções DHCP, IPAM, VPN e DirectAccess;
- Planificação, desenho e implementação de uma infraestrutura Forest e Domain.

## Destinatários

- Profissionais de IT com as seguintes competências:
  - Planificação, desenho e implementação física e lógica do Windows Server 2012;
- Profissionais de IT com experiencia nos tópicos abordados no MCSA: Windows Server 2012.

## Pré-requisitos

- Conhecimentos de administração em ambientes empresariais de Windows Server 2008 ou Windows Server 2012;
- Conhecimentos de Redes de Computador: TCP/IP, UDP e DNS;
- Conhecimentos de Microsoft Active Directory Domain Services;
- Conhecimentos de Microsoft Hyper-V;
- MCSA: Windows Server 2012.

## Objectivos

No final da ação de formação os participantes deverão estar aptos a:

- Planificação Server Upgrade e Migração;
- Planificação e implementação de uma estratégia de instalação de servidores;

- Planificação e implementação de servidores utilizando a solução System Center 2012 R2 Virtual Machine Manager (VMM);
  - Design and maintain an IP configuration and address management solution;
  - Desenhar e implementar uma solução de name resolution;
  - Desenhar e implementar uma solução de AD DS forest e Domain infrastructure;
  - Desenhar e implementar uma solução de AD DS organizational unit (OU) infrastructure;
  - Desenhar e implementar uma solução de estratégia de Group Policy Object (GPO);
  - Desenhar e implementar uma solução da topologia física da AD DS;
  - Planificação e implementação de Storage e File Services;
  - Desenhar e implementar uma solução de Network Protection;
  - Desenhar e implementar uma solução de Remote Access Services.
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## Metodologia

Pode assistir a este curso de forma:

- Presencial
  - [Live Training](#)
  - [MOC On-demand](#)
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## Programa

### **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

### **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

### **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

### **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 Solution
  - Planning DHCP to Support Your Proposal
  - Planning an IPAM Deployment
  - Implementing DHCP and IPAM

### **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
- Lab : Designing and Implementing Name Resolution
  - Designing a Strategy for DNS Name Resolution
  - Designing a Strategy for DNS Server Placement
  - Designing DNS Zones and DNS Zone Replication
  - Implementing DNS

### **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 : Designing and Implementing an Active Directory Domain Services Forest Infrastructure
  - Designing an Active Directory Forest Infrastructure
  - Implementing Active Directory Forest Trusts
- Lab : Designing and Implementing an Active Directory Domain Infrastructure
  - Designing an Active Directory Domain Infrastructure
  - Implementing an Active Directory Domain Infrastructure

### **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

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

### **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
- 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

### **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
  - Planning a Storage Solution
  - Implementing iSCSI Storage
  - Configuring a Redundant Storage Space

### **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

## **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
- Lab : Designing and Implementing Network Access Services
  - Designing a Remote Access Strategy
  - Planning and Implementing a DirectAccess Solution
  - Planning and Implementing a VPN Solution
  - Implementing Web Application Proxy