



**IMECAF México, S.C.**  
Instituto Mexicano de Contabilidad,  
Administración y Finanzas

Nombre del Curso

## WINDOWS SERVER - SERVICIOS AVANZADOS

### Objetivo

El curso de Windows Server Pro: Advanced Services es el nivel final para la culminación de la certificación MCSA y simula una red de más de cuarenta servidores en siete ubicaciones. Las simulaciones de laboratorio avanzadas en este curso permitirá al estudiante la práctica de tareas complejas que se espera lleve a cabo en los servidores de una empresa mediana. Este curso prepara para la certificación Microsoft 70-412.

### Dirigido A

Este curso de Servicios Avanzados de Windows Server va dirigido a toda persona interesada en obtener la certificación Microsoft 70-412, así como cualquier miembro del área de sistemas o redes de alguna empresa que quiera aprender a administrar de forma avanzada este sistema operativo.

### Temario

## Temario del Curso de Windows Server Advanced Services

- I. **ACTIVE DIRECTORY INFRASTRUCTURE**
  - a. **Multi-Domain Forests**
    - i. Multi-Domain Forests (10:37)
    - ii. Upgrading Multi-Domain Forests (10:01)
    - iii. Adding a New Child Domain (7:35)
    - iv. Adding Server 2012 Domain Controllers Facts
    - v. Domain and Forest Functional Level Facts
    - vi. Functional Level Management Facts
    - vii. Raise Functional Levels
    - viii. Raise the Domain and/or Forest Levels
    - ix. Practice Questions - Section 1.1 (5 questions)
  - b. **Cross-Forest Trusts**
    - i. Cross-Forest Trusts (6:26)
    - ii. Preparation for a Cross-Forest Trust (1:29)
    - iii. Preparing for a Cross-Forest Trust (7:40)

- iv. Creating a Cross-Forest Trust (11:56)
- v. Trust Facts
- vi. Cross-Forest Trust Facts
- vii. Create a Forest Root Trust
- viii. Design Trusts
- ix. Practice Questions - Section 1.2 (9 questions)

c.

#### **External, Shortcut and Realm Trusts**

- i. External, Shortcut and Realm Trusts (5:00)
- ii. Creating a Shortcut Trust (2:23)
- iii. External, Shortcut and Realm Trust Facts
- iv. Create a Shortcut Trust
- v. Practice Questions - Section 1.3 (4 questions)

d.

#### **Sites Overview**

- i. Overview of Sites (7:54)
- ii. Creating Sites, Subnets, and Site Links (12:47)
- iii. Site Facts
- iv. Manage Sites and Subnets
- v. Practice Questions - Section 1.4 (3 questions)

e.

#### **Managing Sites**

- i. Site Management (17:10)
- ii. Managing Sites (10:01)
- iii. Site Management Facts
- iv. Practice Questions - Section 1.5 (10 questions)

f.

#### **Managing Replication**

- i. Active Directory Replication (12:46)
- ii. Monitoring and Managing Replication (12:51)
- iii. Site Replication Facts
- iv. Site Replication Configuration Facts
- v. Bridged Site Cost Facts
- vi. SYSVOL Replication Facts
- vii. Configure Intrasite Replication
- viii. Configure Intersite Replication
- ix. Practice Questions - Section 1.6 (15 questions)

g.

#### **Read-Only Domain Controllers (RODCs)**

- i. Read-Only Domain Controllers (9:11)
- ii. Pre-Staging RODC Accounts (6:53)
- iii. Joining an RODC to the Domain (4:57)
- iv. RODC Facts
- v. RODC Requirements Facts
- vi. RODC Installation Facts
- vii. Create RODC Accounts
- viii. Practice Questions - Section 1.7 (5 questions)

h.

#### **RODC Management**

- i. RODC Management (9:52)
- ii. Managing RODCs (6:01)
- iii. RODC Management Facts
- iv. Password Replication Policy Facts
- v. Edit the Password Replication Policy
- vi. Practice Questions - Section 1.8 (6 questions)

## II.

### FILE AND STORAGE SOLUTIONS

#### a.

##### Network File System (NFS)

- i. NFS Overview (1:53)
- ii. Configuring an NFS Data Store (12:10)
- iii. NFS Facts
- iv. Configure an NFS Share
- v. Practice Questions - Section 2.1 (4 questions)

#### b.

##### BranchCache

- i. BranchCache Overview (5:34)
- ii. Configure BranchCache (6:11)
- iii. BranchCache Facts
- iv. BranchCache Configuration Facts
- v. Practice Questions - Section 2.2 (10 questions)

#### c.

##### Dynamic Access Control (DAC)

- i. DAC Overview (10:22)
- ii. Configuring File Classification Infrastructure (FCI) using FSRM (11:30)
- iii. Implementing DAC Policies (19:59)
- iv. DAC Facts
- v. DAC Implementation Facts
- vi. Configure File Classification Infrastructure
- vii. Practice Questions - Section 2.3 (4 questions)

#### d.

##### DAC Management

- i. DAC Management (5:01)
- ii. Implementing Policy Changes and Staging (6:40)
- iii. Performing Access-denied Remediation (5:09)
- iv. DAC Management Facts
- v. Practice Questions - Section 2.4 (3 questions)

#### e.

##### Advanced Storage

- i. iSCSI and Internet Storage Name Server (iSNS) (2:35)
- ii. Configuring an iSCSI Target (2:23)
- iii. Configuring the iSCSI Initiator (4:19)
- iv. Configuring iSNS (3:11)
- v. iSCSI Facts
- vi. iSNS Facts
- vii. Configure an iSCSI Target
- viii. Configure the iSCSI Initiator
- ix. Practice Questions - Section 2.5 (8 questions)

#### f.

##### Storage Optimization

- i. Storage Optimization (4:33)
- ii. Optimizing Storage (12:33)
- iii. Storage Tiers (12:51)
- iv. Storage Spaces Facts
- v. Storage Optimization Facts
- vi. Practice Questions - Section 2.6 (8 questions)

## III.

## DISASTER RECOVERY

a.

### Windows Server Backup

- i. Windows Server Backup (3:16)
- ii. Configuring Windows Server Backup for Local Backup (2:33)
- iii. Windows Server Local Backup Facts
- iv. Configuring Windows Server Backup for Online Backup (6:27)
- v. Windows Server Online Backup Facts
- vi. Back Up a Server
- vii. Practice Questions - Section 3.1 (13 questions)

b.

### Restore from Backup

- i. Restore from Backup (1:38)
- ii. Recovering User Data (3:42)
- iii. Performing a Bare Metal Recovery (BMR) (3:30)
- iv. Restore from Backups Facts
- v. Practice Questions - Section 3.2 (3 questions)

c.

### Volume Shadow Copies

- i. Volume Shadow Copies (2:25)
- ii. Configuring VSS (3:21)
- iii. Managing VSS Settings with VSSAdmin (2:07)
- iv. Volume Shadow Copy Facts
- v. Enable Shadow Copies
- vi. Restore Previous Version 1
- vii. Restore Previous Version 2
- viii. Practice Questions - Section 3.3 (11 questions)

d.

### Boot Configuration Data (BCD) Store

- i. BCD Store Overview (1:27)
- ii. Configuring the BCD Store (7:55)
- iii. System Recovery Facts
- iv. Advanced Boot Options
- v. Practice Questions - Section 3.4 (4 questions)

IV.

## ADVANCED DHCP

a.

### DHCP Overview

- i. DHCP Overview (1:42)
- ii. Installing and Authorizing a DHCP Server (1:49)
- iii. DHCP Installation and Authorization Facts
- iv. Practice Questions - Section 4.1 (5 questions)

b.

### DHCP Scopes

- i. DHCP Scopes (7:33)
- ii. Configuring IPv4 Scopes (14:22)
- iii. DHCP Scope Facts
- iv. DHCP Options Facts
- v. DHCP Policies Facts
- vi. DHCP Superscope Facts
- vii. Create a Superscope

viii. Practice Questions - Section 4.2 (11 questions)

c.

#### **DHCP and IPv6**

- i. IPv6 Overview (3:59)
- ii. Implementing IPv6 (1:39)
- iii. IPv6 Facts
- iv. IPv6 Address Assignment Facts
- v. DHCPv6 Facts
- vi. Configure an IPv6 Scope
- vii. Practice Questions - Section 4.3 (9 questions)

d.

#### **DHCP High Availability**

- i. DHCP High Availability (4:59)
- ii. DHCP Split Scopes (4:11)
- iii. Configure a Split Scope
- iv. DHCP Failover (6:18)
- v. Configure DHCP Failover 1
- vi. Configure DHCP Failover 2
- vii. DHCP Name Protection (1:35)
- viii. DHCP High Availability Facts
- ix. Practice Questions - Section 4.4 (3 questions)

e.

#### **IPAM Overview**

- i. IPAM Basics (4:38)
- ii. Configuring IPAM Manually or Using GPO (9:56)
- iii. IPAM on Server 2012 R2 (11:01)
- iv. IPAM Facts
- v. Practice Questions - Section 4.5 (7 questions)

f.

#### **IPAM Configuration**

- i. IPAM Configuration (3:59)
- ii. Managing IP Blocks and Ranges (15:01)
- iii. IPAM Configuration Facts
- iv. Practice Questions - Section 4.6 (7 questions)

g.

#### **IPAM Management**

- i. IPAM Management (0:50)
- ii. Delegating IPAM Administration (2:41)
- iii. IPAM Administration Delegation Facts
- iv. Practice Questions - Section 4.7 (2 questions)

V.

### **ADVANCED DNS**

a.

#### **DNS Security**

- i. DNS Security (12:50)
- ii. Configuring DNSSEC (10:21)
- iii. Configuring DNS Socket Pooling (2:20)
- iv. Configuring Cache Locking (1:19)
- v. DNS Security Facts
- vi. Practice Questions - Section 5.1 (10 questions)

b.

## **Advanced DNS Settings**

- i. Configuring Advanced DNS Settings (4:33)
- ii. Using DNS Zone Statistics (2:46)
- iii. Advanced DNS Settings Facts
- iv. Configure DNS Advanced Settings
- v. Practice Questions - Section 5.2 (8 questions)

c.

## **GlobalNames Zones**

- i. GlobalNames Zones (2:03)
- ii. Creating a GlobalNames Zone (2:38)
- iii. GlobalNames Zone Facts
- iv. Configure a GlobalNames Zone
- v. Practice Questions - Section 5.3 (5 questions)

VI.

## **HYPER-V**

a.

### **Virtual Machine Management**

- i. Migrate Virtual Machines from Other Platforms (1:15)
- ii. Virtual Machine Management (2:30)
- iii. Managing Virtual Machines (7:10)
- iv. Virtual Machine Migration Facts
- v. Virtual Domain Controller Cloning Facts
- vi. Practice Questions - Section 6.1 (12 questions)

b.

### **Hyper-V High Availability**

- i. Hyper-V Replicas (1:38)
- ii. Configuring Hyper-V Replicas and VMs (12:30)
- iii. Hyper-V Replication Facts
- iv. Hyper-V Replica Configuration Facts
- v. Hyper-V Replication Failover Facts
- vi. Configure Hyper-V Replicas
- vii. Practice Questions - Section 6.2 (6 questions)

VII.

## **HIGH AVAILABILITY**

a.

### **Network Load Balancing**

- i. Network Load Balancing Overview (3:53)
- ii. Configuring NLB Prerequisites and Installing NLB Nodes (7:30)
- iii. Network Load Balancing Facts
- iv. Network Load Balancing Configuration Facts
- v. Practice Questions - Section 7.1 (4 questions)

b.

### **Network Load Balancing Management**

- i. Network Load Balancing Management (5:19)
- ii. Managing Network Load Balancing (4:45)
- iii. Network Load Balancing Management Facts
- iv. Configure an NLB Cluster 1
- v. Configure an NLB Cluster 2
- vi. Practice Questions - Section 7.2 (12 questions)

c.

## **Failover Clustering**

- i. Failover Clustering Overview (10:51)
  - ii. Creating a Failover Cluster (4:44)
  - iii. Configuring Cluster Storage (2:25)
  - iv. Failover Clusters on Server 2012 R2 (19:59)
  - v. Configuring Failover Clusters on Server 2012 R2 (4:30)
  - vi. Configuring Guest Clusters (17:02)
  - vii. Deploying a No Name Cluster (5:47)
  - viii. Failover Cluster Facts
  - ix. Failover Cluster Configuration Facts
  - x. Create a Failover Cluster
  - xi. Configure Cluster Quorum Settings
  - xii. Add Storage to a Cluster
  - xiii. Practice Questions - Section 7.3 (15 questions)
- d.

### **Failover Cluster Management**

- i. Failover Cluster Configuration (9:00)
  - ii. Implementing Cluster-Aware Updating (2:52)
  - iii. Restoring Single-node or Cluster Configuration (1:19)
  - iv. Failover Cluster Management
  - v. Multi-Site Failover Facts
  - vi. Cluster-Aware Update Facts
  - vii. Practice Questions - Section 7.4 (4 questions)
- e.

### **Failover Clustered Role Management**

- i. Configuring Failover and Preference Settings (6:10)
  - ii. Clustered Role Management Facts
  - iii. Add a Failover Cluster Role
  - iv. Configure Failover and Preference Settings
  - v. Practice Questions - Section 7.5 (8 questions)
- f.

### **Failover Cluster with Hyper-V**

- i. Virtual Machine Monitoring and Migrations (4:37)
- ii. Configuring Virtual Machine Monitoring (3:06)
- iii. Migrating Virtual Machines (11:35)
- iv. Hyper-V Failover Facts
- v. Migrate Virtual Machine Storage
- vi. Migrate a Virtual Machine
- vii. Practice Questions - Section 7.6 (6 questions)

VIII.

## **ACTIVE DIRECTORY CERTIFICATE SERVICES**

a.

### **Active Directory Certificate Services Overview**

- i. Overview of Certificates (11:21)
- ii. Overview of Certificate Services (9:17)
- iii. Installing an Enterprise AD CS (5:42)
- iv. Certificate Facts
- v. AD CS Facts
- vi. AD CS Installation Facts
- vii. Practice Questions - Section 8.1 (7 questions)

b.

### **Certificate Management**

- i. Managing Certificates (3:22)

- ii. Certificate Management Facts
- iii. Manage Certificates
- iv. Practice Questions - Section 8.2 (12 questions)

c.

#### **Certificate Revocation**

- i. Certificate Revocation (5:07)
- ii. Configuring a CRL Distribution Point (2:29)
- iii. Configuring an Online Responder (3:36)
- iv. Certificate Revocation Facts
- v. Online Responder Facts
- vi. Manage Certificate Revocation
- vii. Practice Questions - Section 8.3 (6 questions)

d.

#### **Certificate Templates**

- i. Certificate Templates (4:24)
- ii. Using Certificate Templates (9:40)
- iii. Certificate Templates Facts
- iv. Certificate Template Settings Facts
- v. Modify Certificate Templates 1
- vi. Modify Certificate Templates 2
- vii. Practice Questions - Section 8.4 (6 questions)

e.

#### **Certificate Autoenrollment**

- i. Certificate Autoenrollment (0:49)
- ii. Configuring Certificate Autoenrollment (2:49)
- iii. Certificate Autoenrollments Facts
- iv. Configure Templates for Autoenrollment
- v. Enable Autoenrollment for the Domain
- vi. Create Certificates for Smart Cards
- vii. Require Smart Cards for Logon
- viii. Practice Questions - Section 8.5 (5 questions)

f.

#### **Key Archival and Recovery**

- i. Key Archival and Recovery (3:03)
- ii. Creating and Managing Key Recovery Agents (3:49)
- iii. Configuring a CA for Key Archival (4:47)
- iv. Recovering a Key (3:49)
- v. Key Archival and Recovery Facts
- vi. Practice Questions - Section 8.6 (7 questions)

g.

#### **Certificate Authority (CA) Management**

- i. Managing the CA (3:50)
- ii. Configuring Security Roles on the CA (2:02)
- iii. Limiting Security Roles on the CA (3:28)
- iv. Configuring Administrative Role Separation (1:36)
- v. CA Management Facts
- vi. Practice Questions - Section 8.7 (6 questions)

h.

#### **CA Backup and Recovery**

- i. CA Backup and Recovery (0:51)
- ii. CA Backup and Recovery (2:26)
- iii. CA Backup and Recovery Facts
- iv. Practice Questions - Section 8.8 (8 questions)

IX.



## ACTIVE DIRECTORY RIGHTS MANAGEMENT SERVICES (AD RMS)

a.

### AD RMS Overview

- i. AD RMS Overview (5:49) 9.1.2 AD RMS Facts
- ii. Practice Questions - Section 9.1 (3 questions)
- iii. AD RMS Installation
- iv. AD RMS Installation (4:06) 9.2.2 Installing AD RMS (10:59)
- v. Configuring AD RMS Backup and Recovery (6:40)
- vi. Configuring the AD RMS Service Connection Point (SCP) (2:27)
- vii. AD RMS Installation Facts
- viii. Practice Questions - Section 9.2 (9 questions)

b.

### AD RMS Client Deployments

- i. Managing AD RMS Client Deployments (10:02)
- ii. AD RMS Client Deployments Facts
- iii. Practice Questions - Section 9.3 (7 questions)

c.

### AD RMS Templates

- i. AD RMS Templates (1:52)
- ii. Using AD RMS Templates (15:12)
- iii. AD RMS Templates Facts
- iv. AD RMS Certificate Facts
- v. Configure a Distributed Rights Policy Template
- vi. Configure a User Exclusion
- vii. Practice Questions - Section 9.4 (4 questions)

X.

## ACTIVE DIRECTORY FEDERATION SERVICES (AD FS)

a.

### AD FS Overview

- i. AD FS Overview (4:04)
- ii. AD FS Facts
- iii. AD FS Terminology Facts
- iv. Practice Questions - Section 10.1 (3 questions)

b.

### AD FS Certificates

- i. AD FS Certificates (1:33)
- ii. Managing AD FS Certificates (11:35)
- iii. AD FS Certificates Facts
- iv. Practice Questions - Section 10.2 (3 questions)

c.

### Resource Partner

- i. Resource Partner (5:08)
- ii. Configuring the Resource Partner (20:38)
- iii. AD FS Installation Facts
- iv. Resource Partner Facts
- v. Resource Partner Configuration Facts
- vi. Configuring Multi-factor Authentication (5:48)
- vii. Configuring Workplace Join (19:15)
- viii. Multi-factor Authentication Facts
- ix. Practice Questions - Section 10.3 (7 questions)

d.

## Accounts Partner

- i. Configuring the Accounts Partner (8:21)
  - ii. Accounts Partner Facts
  - iii. Accounts Partner Configuration Facts
  - iv. Practice Questions - Section 10.4 (6 questions)
- e.

## AD FS Proxies

- i. AD FS Proxies (1:48)
  - ii. Configuring AD FS Proxies (9:00)
  - iii. AD FS Proxy Facts
  - iv. Practice Questions - Section 10.5 (5 questions)
- f.

## AD FS and Cloud Services

- i. AD FS and Cloud Services (1:25)
  - ii. AD FS and Cloud Services Facts
  - iii. Practice Questions - Section 10.6 (5 questions)
- g.

## AD FS and AD RMS

- i. AD FS and AD RMS (2:49)
- ii. Configuring Trusted User Domains (2:51)
- iii. Configure a Trusted User Domain
- iv. Configuring Trusted Publishing Domains (3:17)
- v. Configure a Trusted Publishing Domain
- vi. Managing Federated Identity Support (4:10)
- vii. AD FS and AD RMS Facts
- viii. Practice Questions - Section 10.7 (5 questions)

### Fechas

No definidas aún

### Duración

40 HRS.

### Inversión

\$3,999.00 M. N. más IVA

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