

5 Days

20412: Configuring Advanced Windows Server 2012 Services

This 5-days Microsoft 20412D Configuring Advanced Windows Server 2012 Services Training course, Part 3 in the series of 3 courses for MCSA, that provides the cutting-edge knowledge of configuring the Advanced Windows Server 2012, including the Windows Server 2012 R2.

The course focuses on advanced configuration services on Windows Server 2012, such as the Active Directory Federation Services (AD FS), Active Directory Domain Services (AD DS), Active Directory Rights Management Services (AD RMS), Failover Clustering, Network Load Balancing, business continuity and disaster recovery services.

Note: Labs are based on Windows Server 2012 R2 and Windows 8.1.

Note: The MCSA: Windows Server 2012 certification requires participants to clear all three exams, namely 20410, 20411, & 20412.

Course Details

Course Outline

Module 1: Implementing Advanced Network Services

This module will explain how to configure advanced features for Dynamic Host Configuration Protocol (DHCP) & Domain Name System (DNS), and configure IP Address Management (IPAM).

Lessons

- Implementing IPAM
- Configuring Advanced DNS Settings
- Configuring Advanced DHCP Features
- Managing IP Address Spaces with IPAM

Module 2: Implementing Advanced File Services

This module will explain how to configure file services to meet advanced business requirements.

Lessons

- Optimizing Storage Usage
- Configuring iSCSI Storage
- Configuring BranchCache

Module 3: Implementing Dynamic Access Control

This module will explain how to configure Dynamic Access Control (DAC) to manage and audit access to shared files.

Lessons

- DAC Overview
- Implementing DAC Components
- Implementing Access Denied Assistance
- Implementing DAC for Access Control
- Implementing and Managing Work Folders

Module 4: Implementing Distributed Active Directory Domain Services Deployments

This module will explain how to plan and implement an Active Directory Domain Services (AD DS) deployment that includes multiple domains and forests.

Lessons

- Distributed AD DS Deployments Overview
- Configuring AD DS Trusts
- Deploying a Distributed AD DS Environment

Module 5: Implementing Active Directory Domain Services Sites and Replication

This module will explain how to plan and implement an AD DS deployment that includes multiple locations.

Lessons

- AD DS Replication Overview
- Configuring AD DS Sites
- Configuring and Monitoring AD DS Replication

Module 6: Implementing AD CS

This module will explain how to implement an Active Directory Certificate Services (AD CS) deployment.

Lessons

- PKI Overview
- Using Certificates in a Business Environment
- Implementing Certificate Distribution and Revocation
- Managing Certificate Recovery
- Deploying CAs
- Deploying and Managing Certificate Templates

Module 7: Implementing Active Directory Rights Management Services

This module will explain how to implement an AD RMS deployment.

Lessons

- AD RMS Overview

- Configuring External Access to AD RMS
- Configuring AD RMS Content Protection
- Deploying and Managing an AD RMS Infrastructure

Module 8: Implementing and Administering AD FS

This module will explain how to deploy Active Directory Federation Services (AD FS).

Lessons

- Overview of AD FS
- Extending AD FS to External Clients
- Implementing AD FS for a Single Organization
- Deploying AD FS
- Deploying AD FS in a Business-to-Business Federation Scenario

Module 9: Implementing Network Load Balancing

This module will explain how to provide high availability and load balancing for web-based applications by implementing Network Load Balancing (NLB).

Lessons

- Overview of NLB
- Planning an NLB Implementation
- Configuring an NLB Cluster

Module 10: Implementing Failover Clustering

This module will explain how to provide high availability for network services and applications by implementing failover clustering.

Lessons

- Overview of Failover Clustering
- Configuring Highly Available Applications and Services on a Failover Cluster
- Implementing a Failover Cluster
- Implementing a Multi-Site Failover Cluster
- Maintaining a Failover Cluster

Module 11: Implementing Failover Clustering with Hyper-V

This module will explain how to deploy and manage Hyper-V virtual machines in a failover cluster.

Lessons

- Overview of Integrating Hyper-V with Failover Clustering
- Implementing Hyper-V Virtual Machine Movement
- Implementing Hyper-V Virtual Machines on Failover Clusters

Module 12: Implementing Business Continuity and Disaster Recovery

This module will explain how to implement a backup and disaster recovery solution based on business and technical requirements.

Lessons

- Data Protection Overview
- Implementing Windows Server Backup
- Implementing Server and Data Recovery

Who Should Attend

This Advanced Windows Server 2012 Configuring course is intended for (IT) professionals who carry relevant knowledge and experience working with Windows operating systems and aspire to acquire the skills necessary to configure a Windows Server 2012 or R2 server in an existing Windows server environment.

Typically, candidates who are interested in attending this course include:

- IT professionals who have experience in other non-Microsoft technologies.
- Windows Server administrators
- IT professionals who wish to take the Microsoft Certified Solutions Expert (MCSE) exams in DataCenter, Messaging, Collaboration and Communications.

Pre Requisite

This course requires that student meet the following prerequisites, including that they have:

- An awareness and knowledge of security best practices.
- Basic knowledge of networking fundamentals.
- Basic knowledge of AD DS concepts.
- An understanding of server hardware.
- Experience working with Windows client operating systems, such as Windows 7 or Windows 8.

Exams

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