20412: Configuring Advanced Windows Server[®] 2012 Services

Duration: 5 Days

Method: Instructor-Led Training (ILT) | Live Online Training

Course Description

This course focuses on advanced configuration of services necessary to deploy, manage and maintain a Windows Server 2012 infrastructure. Participants will learn to configure services such as advanced networking services, Active Directory[®] Domain Services (AD DS), Active Directory Rights Management Services (AD RMS), Active Directory Federation Services (AD FS), Network Load Balancing, Failover Clustering, business continuity and disaster recovery services. They will also learn how to configure access and information provisioning and protection technologies such as Dynamic Access Control (DAC), and Web Application Proxy integration with AD FS and Workplace Join. **NOTE:** This course is part **three** in a series of three courses that provides the skills and knowledge necessary to implement a core Windows Server 2012 infrastructure in an existing enterprise environment.

Target Audience

This course is intended for:

• Experienced Windows Server Administrators who have real-world experience working in a Windows Server 2008 or Windows Server 2012 enterprise environment.

Prerequisites

To attend this course, candidates must have experience working daily with Windows Server 2008 or Windows Server 2012 servers in an Enterprise environment **OR** completed the following courses:

- 20410: Installing and Configuring Windows Server 2012
- 20411: Administering Windows Server 2012

Course Objectives

Upon successful completion of this course, attendees will be able to:

- Configure advanced features for Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), and configure IP Address Management (IPAM) with Windows Server 2012.
- Configure and manage iSCSI, BranchCache and FSRM.





Course Objectives Continued

- Configure DAC to manage and audit access to shared files.
- Plan and implement an AD DS deployment that includes multiple domains and forests.
- Plan and implement an AD DS deployment that includes locations.
- Implement and configure an Active Directory Certificate Services (AD CS) deployment.
- Implement an AD RMS deployment.
- Implement an AD FS deployment.
- Provide high availability and load balancing for web-based applications by implementing Network Load Balancing (NLB).
- Implement and validate high availability and load balancing for web-based applications by implementing NLB.
- Provide high availability for network services and applications by implementing failover clustering.
- Implement a failover cluster and configure and validate a highly available network service.
- Deploy and manage Hyper-V[®] virtual machines in a failover cluster.
- Implement a backup and disaster recovery solution based on business and technical requirements.

Course Topics

Module 1: Implementing Advanced Network Services

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

Module 2: Implementing Advanced File Services

- Configuring iSCSI Storage
- Configuring BranchCache
- Optimizing Storage Usage

Module 3: Implementing Dynamic Access Control (DAC)

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



Module 4: Implementing Distributed Active Directory Domain Services (AD DS) Deployments

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

Module 5: Implementing AD DS Sites and Replication

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





Course Topics *Continued* Module 6: Implementing AD CS

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

Module 7: Implementing Active Directory Rights Management (AD RMS) Services

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

Module 8: Implementing and Administering AD FS

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

Module 9: Implementing Network Load Balancing

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

Module 10: Implementing Failover Clustering

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

Module 11: Implementing Failover Clustering with Hyper-V

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

Module 12: Implementing Business Continuity and Disaster Recovery

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

LABS INCLUDED



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