

## Course 10969B:

# Active Directory Services with Windows Server

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### Course Details

### Course Outline

#### Module 1: Overview of Access and Information Protection

This module provides an overview of multiple Access and Information Protection (AIP) technologies and services what are available with Windows Server 2012 and Windows Server 2012 R2 from a business perspective and maps business problems to technical solutions. It also includes coverage of Forefront Identify Manager (FIM).

#### Lessons

- Introduction to Access and Information Protection Solutions in Business
- Overview of AIP Solutions in Windows Server 2012
- Overview of FIM 2010 R2

#### Lab : Choosing an Appropriate Access and Information Protection Management Solution

- Analyze the Lab Scenario and Identify Business Requirements
- Propose a Solution

After completing this module students will be able to:

- Describe Access and Information Protection solutions in business.
- Describe Access and Information Protection solutions in Windows Server 2012 and Windows Server 2012 R2.
- Describe Microsoft Forefront Identity Manager (FIM) 2010 R2.

#### Module 2: Advanced Deployment and Administration of AD DS

This module explains how to deploy AD DS remotely and describes the virtualization safeguards, cloning abilities and extending AD DS to the cloud.

#### Lessons

- Deploying AD DS
- Deploying and Cloning Virtual Domain Controllers
- Deploying Domain Controllers in Windows Azure
- Administering AD DS

#### Lab : Deploying and Administering AD DS

- Deploying AD DS
- Deploying Domain Controllers by Performing Domain Controller Cloning
- Administering AD DS

After completing this module, students will be able to:

- Describe and perform various deployment techniques for AD DS.
- Describe virtual domain controller deployment considerations.
- Explain how new technologies in Windows Server 2012 and Windows Server 2012 R2 support virtual domain controllers.
- Describe Domain Controller cloning.
- Implement AD DS using the tools provided in Windows Server 2012 and Windows Server 2012 R2.

#### Module 3: Securing AD DS

This module describes the threats to domain controllers and what methods can be used to secure the AD DS and its domain controllers.

#### Lessons

- Securing Domain Controllers
- Implementing Account Security
- Implementing Audit Authentication

#### Lab : Securing AD DS

- Implementing Security Policies for Accounts, Passwords, and Administrative Groups
- Deploying and Configuring an RODC

After completing this module, students will be able to:

- Understand the importance of securing domain controllers.
- Describe the benefit of read-only domain controllers (RODCs).
- Explain and implement password and account lockout policies.
- Implement audit authentication.

#### Module 4: Implementing and Administering AD DS Sites and Replication

This module explains how AD DS replicates information between domain controllers within a single site and throughout multiple sites. This module also explains how to create multiple sites and how to monitor replication to help optimize AD DS replication and authentication traffic.

##### Lessons

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

##### Lab : Implementing AD DS Sites and Replication

- Creating Subnets and Sites
- Deploying an Additional Domain Controller
- Configuring AD DS Replication
- Troubleshooting AD DS Replication

After completing this module, students will be able to:

- Describe AD DS replication.
- Configure AD DS sites.
- Configure and monitor AD DS replication.

#### Module 5: Implementing Group Policy

This module describes Group Policy, how it works, and how best to implement it within your organization.

#### Lessons

- Introducing Group Policy
- Implementing and Administering GPOs
- Group Policy Scope and Group Policy Processing
- Troubleshooting the Application of GPOs

#### Lab : Implementing and Troubleshooting a Group Policy Infrastructure Creating

- and Configuring GPOs
- Managing GPO Scope
- Verifying GPO Application
- Managing GPOs
- Troubleshooting GPOs

After completing this module, students will be able to:

- Describe Group Policy.
- Implement and administer GPOs.
- Describe Group Policy scope and Group Policy processing.
- Troubleshoot the application of GPOs.

#### Module 6: Managing User Settings with Group Policy

This module describes how to use GPO Administrative Templates, Folder Redirection, and Group Policy features to configure users' computer settings.

#### Lessons

- Implementing Administrative Templates
- Configuring Folder Redirection and Scripts
- Configuring Group Policy Preferences

#### Lab : Managing User Desktops with Group Policy Implementing

- Settings by Using Group Policy Preferences Configuring
- Folder Redirection

After completing this module, students will be able to:

- Implement Administrative Templates.
- Configure Folder Redirection and scripts.
- Configure Group Policy preferences.

#### Module 7: Deploying and Managing AD CS

This module explain how to deploy and manage Certificate Authorities (CAs) with Active Directory Certificate Services (AD CS)

Lessons

- Deploying CAs
- Administering CAs
- Troubleshooting, Maintaining, and Monitoring CAs

Lab : Deploying and Configuring a Two-Tier CA Hierarchy

- Deploying an Offline Root CA
- Deploying an Enterprise Subordinate CA

After completing this module, students will be able to:

- Deploy Certificate Authorities.
- Administer Certificate Authorities.
- Troubleshoot, maintain, and monitor Certificate Authorities.

#### Module 8: Deploying and Managing Certificates

This module describes certificate usage in business environments and explains how to deploy and manage certificates, configure certificate templates and manage enrolment process. This module also covers the deployment and management of smart cards.

Lessons

- Using Certificates in a Business Environment
- Deploying and Managing Certificate Templates
- Managing Certificates Deployment, Revocation, and Recovery
- Implementing and Managing Smart Cards

Lab : Deploying and Using Certificates

- Configuring Certificate Templates
- Enrolling and using certificates
- Configuring and Implementing Key Recovery

After completing this module, students will be able to:

- Use certificates in business environments.
- Deploy and manage certificate templates.
- Manage certificates deployment, revocation and recovery.
- Implement and manage smart cards.

Module 9: Implementing and Administering AD RMS

This module introduces Active Directory Rights Management Services (AD RMS). It also describes how to deploy AD RMS, how to configure content protection, and how to make AD RMS-protected documents available to external users.

Lessons

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

Lab : Implementing an AD RMS Infrastructure Install

- and Configure AD RMS
- Configure AD RMS Templates
- Verifying AD RMS on Clients
- Configure AD RMS Monitoring and Reporting



After completing this module, students will be able to:

- Describe AD RMS.
- Explain how to deploy and manage an AD RMS infrastructure.
- Explain how to configure AD RMS content protection.
- Explain how to configure external access to AD RMS.

#### Module 10: Implementing and Administering AD FS

This module explains AD FS, and then provides details on how to configure AD FS in both a single organization scenario and in a partner organization scenario. This module also describes the Web Application Proxy feature in Windows Server 2012 R2 that functions as an AD FS proxy and reverse proxy for web-based applications.

#### Lessons

- 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

#### Lab : Implementing AD FS

- Installing and Configuring AD FS
- Configure an Internal Application for AD FS
- Configuring AD FS for a Federated Business Partner
- Configuring Web Application Proxy

After completing this module, students will be able to:

- Describe AD FS.
- Explain how to configure the AD FS prerequisites, and deploy AD FS services.
- Describe how to implement AD FS for a single organization.
- Deploy AD FS in a business-to-business federation scenario.
- Deploy the Web Application Proxy.



## Module 11: Implementing Secure Shared File Access

This module explains how to use Dynamic Access Control (DAC), Work Folders, Work place Join and how to plan and implement these technologies.

### Lessons

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

### Lab : Implementing Secure File Access

- Preparing for DAC Deployment
- Implementing DAC
- Validating and Remediating DAC
- Implementing Work Folders

After completing this module, students will be able to:

- Describe DAC.
- Implement DAC components.
- Implement DAC for access control.
- Implement access-denied assistance.
- Implement and manage Work Folders.
- Implement Workplace Join.

## Module 12: Monitoring, Managing, and Recovering AD DS

This module explains how to use tools that help monitor performance in real time, and how to record performance over time to spot potential problems by observing performance trends. This module also explains how to optimize and protect your directory service and related identity and access solutions so that if a service does fail, you can restart it as quickly as possible.

Lessons

- Monitoring AD DS
- Managing the AD DS Database
- AD DS Backup and Recovery Options for AD DS and Other Identity and Access Solutions

Lab : Monitoring AD DS

- Monitoring AD DS with Performance Monitor

Lab : Recovering Objects in AD DS

- Backing Up and Restoring AD DS
- Recovering Objects in AD DS

After completing this module, students will be able to:

- Monitor AD DS.
- Manage the AD DS database.
- Recover objects from the AD DS database.

Module 13: Implementing Windows Azure Active Directory

This module explains the concepts and technologies in Windows Azure Active Directory and how to implement and integrate it within your organization

Lessons

- Overview of Windows Azure AD
- Managing Windows Azure AD Accounts

Lab : Implementing Windows Azure AD Implementing

- Windows Azure AD for Office 365
- Implementing Windows Azure AD for a Cloud-Based Application

After completing this module, students will be able to:

- Describe Windows Azure AD.
- Administer Azure AD.

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