M55344A : Identity with Windows Server

Course Outline

Module 1: Installing and Configuring Domain Controllers

- **Overview**:
    - Features of AD DS.
    - Installing domain controllers (DCs).
    - Considerations for deploying DCs.
- **Lab**: Deploying and administering AD DS.
    - Deploying AD DS and domain controllers.
    - Administering AD DS.
- **After Completion**:
    - Understand AD DS components and roles.
    - Deploy and manage domain controllers.

Module 2: Managing Objects in AD DS

- **Overview**:
    - Managing user accounts, groups, and computer objects.
    - Using Windows PowerShell for AD DS administration.
    - Implementing and managing Organizational Units (OUs).
- **Lab**:
    - Managing and configuring AD DS objects.
    - Delegating administration with PowerShell.
- **After Completion**:
    - Manage accounts, groups, and objects in AD DS.
    - Use PowerShell effectively for administration tasks.

Module 3: Advanced AD DS Infrastructure Management

- **Overview**:
    - Planning and implementing multiple domains and forests.
    - Configuring AD DS trusts.
- **Lab**: Domain and trust management in AD DS.
    - Implementing forest trusts and child domains.
- **After Completion**:
    - Plan advanced AD DS deployments.
    - Deploy distributed AD DS environments and configure trusts.

Module 4: Implementing and Administering AD DS Sites and Replication

- **Overview**:
    - Planning and implementing multi-location AD DS deployments.

- o Configuring and monitoring AD DS replication.
- **Lab**:
    - o Configuring sites and subnets.
    - o Monitoring and troubleshooting replication.
- **After Completion**:
    - o Optimize authentication and replication traffic.
    - o Monitor and troubleshoot AD DS replication.

Module 5: Implementing Group Policy

- **Overview**:
    - o Group Policy (GPO) framework and infrastructure.
    - o Implementing and administering GPOs.
    - o Troubleshooting GPO application.
- **Lab**:
    - o Configuring GPOs and managing their scope.
    - o Troubleshooting GPO application issues.
- **After Completion**:
    - o Implement and manage GPOs effectively.

Module 6: Managing User Settings with Group Policy

- **Overview**:
    - o Configuring administrative templates, Folder Redirection, and scripts.
    - o Group Policy preferences.
- **Lab**: Managing user settings with GPOs.
    - o Implementing administrative templates and preferences.
- **After Completion**:
    - o Configure Folder Redirection and other settings via Group Policy.

Module 7: Securing Active Directory Domain Services

- **Overview**:
    - o Securing domain controllers, accounts, and passwords.
    - o Implementing audit authentication and managed service accounts.
- **Lab**:
    - o Implementing security policies and configuring RODCs.
    - o Managing service accounts.
- **After Completion**:
    - o Secure AD DS components and manage accounts securely.

Module 8: Deploying and Managing Active Directory Certificate Services (AD CS)

- **Overview**:
    - o Deploying and managing Certificate Authorities (CAs).
    - o Troubleshooting and maintaining CAs.

- **Lab**: Deploying and configuring a two-tier CA hierarchy.
  - o Deploying offline root and subordinate CAs.
- **After Completion**:
  - o Deploy and manage CAs and troubleshoot certificate issues.

Module 9: Deploying and Managing Certificates

- **Overview**:
  - o Managing certificate templates, revocation, and recovery.
  - o Implementing smart cards in business environments.
- **Lab**: Deploying and using certificates.
- **After Completion**:
  - o Deploy and manage certificates in AD DS environments.

Module 10: Implementing and Administering Active Directory Federation Services (AD FS)

- **Overview**:
  - o Planning and deploying AD FS for single and partner organizations.
  - o Configuring Web Application Proxy.
- **Lab**: Implementing AD FS.
  - o Configuring AD FS for internal and federated applications.
- **After Completion**:
  - o Deploy and configure AD FS and enable single sign-on (SSO).

Module 11: Implementing and Administering Active Directory Rights Management Services (AD RMS)

- **Overview**:
  - o Deploying and managing AD RMS infrastructure.
  - o Configuring AD RMS content protection.
- **Lab**: Implementing AD RMS.
  - o Configuring templates and using AD RMS on clients.
- **After Completion**:
  - o Deploy and manage AD RMS for content protection.

Module 12: Implementing AD DS Synchronization with Microsoft Azure AD

- **Overview**:
  - o Directory synchronization between Azure AD and on-premises AD DS.
- **Lab**: Configuring directory synchronization.
  - o Preparing for and managing Azure AD Connect.
- **After Completion**:
  - o Plan and configure directory synchronization.

Module 13: Monitoring, Managing, and Recovering AD DS

- **Overview**:
  - o Monitoring AD DS and managing the database.
  - o Implementing backup and recovery options.
- **Lab**: Recovering objects in AD DS.
  - o Backing up and restoring AD DS.
- **After Completion**:
  - o Monitor and maintain high availability for AD DS.