55069-A: PowerShell for SQL Server Administrators

Course outline

Module 1: Install and Configure SQL Server with PowerShell

This module explains how to setup SQL Server components using PowerShell.

Lessons

- Module Objectives
- Lesson 1: Install SQL Server
- Lesson 2: Configure Database Settings
- Lesson 3: Configure SQL Server Settings
- Lesson 4: Configure SQL Server Policy-Based Management
- Review

Lab : Configuring SQL Server with PowerShell

After completing this module, students will be able to:

- Install SQL Server
- Add/Remove components to an existing instance (SSRS, SSIS, SSAS, etc.)
- Configure SQL Server and Database Settings
- Configure SQL Server Policy-Based Management

Module 2: Administering SQL Servers with PowerShell

This module explains how to perform day-to-day administrative tasks on SQL Server Servers using PowerShell.

Lessons

- Module Objectives
- Lesson 1: Managing Users and Roles
- Lesson 2: Managing Database Performance
- Lesson 3: Managing Database Availability
- Lesson 4: Managing SQL Server Features
- Review

Lab : Administering SQL Servers with PowerShell

After completing this module, students will be able to:

- Manage Users and Roles
- Manage Database Performance
- Manage Database Availability with Clustering & AlwaysOn Availability Groups
- Manage Integration Services and Analysis Services

Module 3: Maintaining SQL Server with PowerShell

This module explains how to perform maintenance tasks on SQL Servers using PowerShell.

Lessons

- Module Objectives
- Managing Backups and Restores
- Maintaining Database Integrity and Performance
- Monitoring and Auditing
- Task Automation
- Generating Reports
- Review

Lab : Maintaining SQL Servers with PowerShell

After completing this module, students will be able to:

- Manage SQL Server Backups and Restores
- Maintain Database Integrity and Performance
- Monitor and Audit changes to a SQL Server
- Task Automation on SQL Server
- Generate SQL Server Reports