

MOC 55069 A PowerShell for SQL Server Administrators

Course Summary

Description

This two-day instructor-led course provides candidates with the knowledge and skills needed to use PowerShell for SQL Server administration. Students will learn how to manage day-to-day and scheduled maintenance tasks. The main focus will be administration of the database engine, but material & exercises on Analysis Services (SSAS) and Integration Services (SSIS) are also included.

Objectives

At the end of this course, students will be able to:

- Install and Configure SQL Server and all its components using PowerShell
- Manage day-to-day SQL Server Administration with PowerShell
- Maintain the SQL Server environment using PowerShell scripting and programming options

Topics

- Install and Configure SQL Server with PowerShell
- Administering SQL Servers with PowerShell
- Maintaining SQL Server with PowerShell

Audience

This course is intended for SQL Server administrators who work in a Windows network environment. At least one year of experience administering SQL Servers and using PowerShell is recommended.

Prerequisites

Before attending this course, students must have:

- Experience working on Windows desktops or servers
- Experience working in a Windows domain environment
- Experience Administering SQL Server Servers
- Fundamental experience with PowerShell or Course 10961B – Automating Administration with Windows PowerShell

Duration

Two days

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Course Outline

I. Install and Configure SQL Server with PowerShell

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

- A. Module Objectives
- B. Lesson 1: Install SQL Server
- C. Lesson 2: Configure Database Settings
- D. Lesson 3: Configure SQL Server Settings
- E. Lesson 4: Configure SQL Server Policy-Based Management
- F. Review

Lab: Configuring SQL Server with PowerShell

- Exercise 1: Install SQL Server
- Exercise 2: Configure Database Settings
- Exercise 3: Configure SQL Server Settings
- Exercise 4: Configure SQL Server Policy-Based Management

II. Administering SQL Servers with PowerShell

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

- A. Module Objectives
- B. Lesson 1: Managing Users and Roles
- C. Lesson 2: Managing Database Performance
- D. Lesson 3: Managing Database Availability
- E. Lesson 4: Managing SQL Server Features
- F. Review

Lab: Administering SQL Servers with PowerShell

- Exercise 1: Managing Users and Roles
- Exercise 2: Managing Database Performance
- Exercise 3: Managing Database Availability
- Exercise 4: Managing SQL Server Features

III. Maintaining SQL Server with PowerShell

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

- A. Module Objectives
- B. Managing Backups and Restores
- C. Maintaining Database Integrity and Performance
- D. Monitoring and Auditing
- E. Task Automation
- F. Generating Reports
- G. Review

Lab: Maintaining SQL Servers with PowerShell

- Exercise 1: Managing Backups and Restores
- Exercise 2: Maintaining Database Integrity and Performance
- Exercise 3: Monitoring and Auditing
- Exercise 4: Task Automation
- Exercise 5: Generating Reports