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SCCM CB Training

3 days (21 hours)

Overview

SCCM Current Branch, now known as Microsoft Configuration Manager, enables you to effectively manage, secure, and maintain Windows workstations within an IT environment. Our SCCM CB training will enable you to master the essential functions of device management, application deployment, and update management in an enterprise environment. You will learn how to set up a Configuration Manager infrastructure, organize resources using collections, configure network restrictions, and manage clients from the centralized console. The training will provide you with the methods needed to create and distribute applications, manage dependencies, control the user experience in Software Center, and deploy patches using WSUS and automatic deployment rules. Upon completion of the training, you will be able to deploy an operating system, monitor workstation compliance, use monitoring tools, and automate administrative tasks with PowerShell.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Understand the architecture and components of Microsoft Configuration Manager
- Administer resources, clients, and device collections
- Create and deploy applications with discovery rules and dependencies
- Configure the software update management cycle with WSUS
- Implement operating system deployment and monitor compliance
- Using monitoring and PowerShell commands for day-to-day administration

Target Audience

- Systems and network administrators
- Desktop administrators
- Microsoft infrastructure engineers

- Level 2 and Level 3 Support Technicians

Prerequisites

- Knowledge of administering Windows Server and Windows environments
- Proficiency in the fundamentals of Active Directory, DNS, and IP networks
- Experience installing software and providing desktop support
- Basic knowledge of PowerShell scripting

Technical Requirements

- Computer running Windows 10 or Windows 11, with at least 8 GB of RAM
- Access to a lab environment including Windows Server 2022 and Microsoft Configuration Manager Current Branch
- Virtual machine or remote access to Windows 10 or Windows 11 client computers
- Stable internet connection and access to the Configuration Manager console

SCCM CB Training Course Outline

[Day 1 - Morning]

Architecture and Introduction to Configuration Manager

- Positioning of SCCM Current Branch and the transition to Microsoft Configuration Manager
- Site architecture, server roles, database, and SMS Provider
- Console Organization, Workspaces, and Security Templates
- Hierarchy principles, primary site, management point, and distribution point
- Planning boundaries, boundary groups, and network flows
- Hands-on Workshop: Exploring the Console and Identifying Roles in a Demo SCCM CB Infrastructure

[Day 1 - Afternoon] **Discovery,**

clients, and collections

- Methods for discovering users, groups, and devices
- Installation, approval, and configuration of the Configuration Manager client
- Hardware and software inventories, assessment cycles, and data reporting
- Creating direct, query-based, and inclusion-based collections

- Client settings administration and policy targeting
- Hands-on Workshop: Creating a Pilot Collection Using a Query and Targeting a Client Configuration

[Day 2 - Morning]

Application management and deployment

- Differences Between Applications, Packages, and Programs
- Creating applications with deployment types and content sources
- Configuring detection methods, requirements, and dependencies
- Distributing content to distribution points
- Available and Required Deployments, Scheduling, and User Experience in Software Center
- Hands-on Workshop: Create, Distribute, and Deploy an Application with a Detection Rule to a Pilot Collection

[Day 2 - Afternoon]

Software Update Management

- Patch management architecture with Software Update Point and WSUS
- Synchronization of products, classifications, and update catalogs
- Update groups, deployment packages, and content distribution
- Manual Deployment, Deadlines, Maintenance Windows, and Reboot Policies
- Automating Patch Management with Automatic Deployment Rules
- Hands-on Workshop: Design an Automatic Deployment Rule for a Pilot Group and Set Its Schedule

[Day 3 - Morning]

Operating System Deployment

- Principles of operating system deployment and migration scenarios
- Management of images, drivers, packages, and boot media
- Designing a task sequence for installing and customizing a workstation
- Adding Applications, Updates, and Configurations After Installation
- Best Practices for Thin Images, Validation, and Pilot Deployments
- Hands-on Workshop: Building a Windows Deployment Task Sequence That Includes Drivers, Applications, and Patches

[Day 3 - Afternoon]

Security, Monitoring, and Automation

- Microsoft Defender Management, Antimalware Policies, and Signature Updates
- Compliance Concepts, Configuration Settings, and Baselines
- Deployment tracking, compliance statuses, alerts, and dashboards
- Troubleshooting incidents using client logs and monitoring views
- Introduction to Automated Administration with Configuration Manager PowerShell Cmdlets
- Hands-on workshop: Analyzing a deployment failure, generating a compliance check, and running an administrative PowerShell command

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams on new, advanced IT technology or to acquire specific business knowledge or modern methods.

Pre-training Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency level across various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.