Administering Microsoft Endpoint Configuration Manager (SCCM)

Duration: 5 days
Audience: Professionnel TI

Who is this training for?

Information technology professionals, primarily enterprise desktop administrators, responsible for deploying, managing, and maintaining computers, devices, and applications in medium to large organizations

Training objectives

- Explain the capabilities of Microsoft Endpoint
- Configuration Manager and Endpoint Manager (Intune) for desktop and mobile device management
- Analyze and act on data using queries and reports
- Design and prepare a management infrastructure that includes boundaries, boundary groups, and resource mining
- Deploy and administer the Configuration Manager client in an organizational environment
- Set up and manage hardware and software inventory and application usage measurement
- Determine and enforce content distribution strategies appropriate for deployments
- Deploy, manage, and monitor applications in an organizational context
- Manage software updates and integrate third-party updates into the management process
- Implement Endpoint Protection to ensure the security of managed environments
- Implement compliance policies and Assess the health of systems
- Deploy operating systems using Configuration Manager
- Administer and maintain a Configuration Manager site

Summary

This course provides the ability to use Microsoft Endpoint Configuration Manager to effectively manage network resources in an enterprise environment. You will learn how to perform day-to-day

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management tasks, including application deployment and management, client deployment, hardware and software inventory, operating system deployment, and update management. The course also covers Microsoft Endpoint Protection optimization, compliance management, and querying and reporting for environment analysis.

Course outline

Module 1: Managing Computers and Mobile Devices in the Enterprise

- Hardware and Software Inventory
- Managing Applications
- Deploying Operating Systems
- Managing Settings
- Managing Software Updates
- Troubleshooting Remote Clients
- Malware Protection Course
- Overview of Managing Systems Using Business Management Solutions
- Overview of Configuration Manager Architecture
- Overview of Tools Configuration Manager Administrative Policy
- Tools for Monitoring and Troubleshooting a Site Configuration Manager Lab: Exploring Configuration Manager Tools
- Searching the Configuration Manager Console
- Using Windows PowerShell with Configuration Manager
- Using Configuration Manager Service Manager to Manage Components
- Monitoring Site and Component Health
- Reviewing Log Files Using the Configuration Manager Trace

Module Tool 2: Analyzing Data Using Queries and Reports

- Introduction to Queries
- Configuring Microsoft SQL Server Reporting Services Lab: Creating and Running Queries

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- Creating Data Queries • Creating Sub-Selection Queries
- Creating Status Message Queries Lab: Configuring SSRS
- Configuring a Reporting Service Point
- Creating and Configuring Data Queries and Status Messages
- Configuring and Managing SSRS and the Reporting Service Point

Module 3: Preparing the Management Infrastructure

- Configuring Site Boundaries and Boundary Groups
- Configuring Resource Exploration
- Configuring User and Device Collections Lab: Configuring Boundaries and Exploring Resources
- Configuring Limits, Boundary Groups, and Fallback Relationships
- Configuring Active Directory Lab Exploration Methods: Configuring User and Device Collections
- Creating a Device Collection
- Creating a User Collection
- Configuring a Maintenance Window
- Organizing Resources

Module 4: Deploying and Managing Clients

- Client Overview Configuration Manager
- Deploying the Configuration Manager Client
- Configuring and Monitoring Client Status
- Managing Client Settings Lab: Deploying Client Software
- Preparing
- Client Deployment

Lab: Configure and Monitor Client Health

- Configure and Monitor Client Health

Lab: Manage Client Settings

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- Configure Client Settings

Module 5: Manage Inventory

- Overview of Inventory Collection
- Configure Hardware and Software Inventory
- Manage Inventory Collection
- Configure Software Usage Metric: Configuring and Managing Inventory Collection
- Configuring and Managing Hardware Inventory
- Managing Inventory Collection

Lab: Configuring Software Usage Measurement

- Configuring Software Usage Measurement

Module 6: Content Distribution and Management

- Preparing Infrastructure for Content Management
- Distributing and Managing Content on Distribution Points Lab: Content Distribution and Management
- Installing a New Distribution Point
- Managing Content Distribution

Module 7: Deploying and Managing Applications

- Application Management Overview
- Creating Applications
- Deploying Applications
- Application Management

Lab: Creating and Deploying Applications

- Creating Applications with Requirements
- Deploying Applications

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Lab: Managing Application Replacement and Deletion

- Managing Application Replacement and Removal
- Managing Application Replacement and Removal Replacing Applications
- Uninstalling an Application

Module 8: Maintaining Software Updates

- Software Update Process
- Preparing a Configuration Manager Site for Software Updates
- Managing Software Updates
- Configuring Automatic Deployment Rules
- Monitoring and Troubleshooting Software Updates

Lab: Configuring the Site for Software Updates

- Configuring and Synchronizing the Software Update Point Software Update

Lab: Deploying and Managing Software Updates

- Determining Compliance
- Deploying Updates
- Configuring Automatic Deployment Rules

Module 9: Implementing Endpoint Protection

- Overview of Endpoint Protection
- Configuring, Deploying, and Monitoring Policies

Lab: Implementing Endpoint Protection

- Configuring Point and Client Settings
- Deploying Policies

Monitoring Module 10: Compliance Management

- Overview of Compliance Settings

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- Configuring Compliance Settings
- Observing Results

Lab: Managing Compliance Settings

- Managing Configuration Items
- Observing Settings and Reporting
- Configuring the Patch

Module 11: Managing Operating System Deployment

- Deploying the Deployment
- Preparing a Site
- Deploying an Operating System
- Managing Windows as a Service

Lab: Site Preparation

- Role Management
- Software Package Management

Lab: Deploying Images

- Preparing the Image
- Creating a Task Sequence
- Deploying

Module 12: Managing and Maintaining a Site

- Configuring Role-Based Administration
- Configuring Remote Control Tools
- Maintenance Overview
- Backup and Recovery

Lab: Configuring Administration

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- Configuring Roles
- Configuring

Lab Users: Configuring Remote Control Tools

- Workstation Management Lab: Site Maintenance
- Configuring Tasks
- Backup and Recovery

Approach and methodology

Practical and structured approach combining focused theory and guided workshops. Participants gradually administer Microsoft Endpoint Configuration Manager (SCCM) through real-world exercises inspired by professional scenarios, promoting immediate application of learning. They learn how to deploy, configure, and manage desktops, updates, and applications while ensuring secure and compliant environments. Led by a Microsoft certified trainer, the training focuses on interactivity and the development of directly transferable technical skills to effectively administer devices in a professional context.

Prerequisites

- Basic networking skills, including protocols, topologies, hardware, tools, data routing, switching, and signaling
- Active Directory Domain Services principles and management basics
- Installing, configuring, and troubleshooting computers running Windows
- Basic concepts of public key infrastructure security
- Basic understanding of scripting and Windows PowerShell
- Basic understanding of Windows Server roles and services
- Basic understanding of configuration options for iOS, Android, and Windows Mobile platforms
- MD-100T00: Windows Client or equivalent content
- MD-101T00: Modern Desktop Management or equivalent content

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Recommendations

Basics of Windows and desktop administration Knowledge of application and system (OS) deployment concepts Notions of identity management (Active Directory / Entra ID) Understanding of device and update management principles Experience in IT administration (asset)

Certifications

There is no certification associated with this course.

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