

Microsoft SCCM

Course Guide

System Center Configuration Manager is a comprehensive management platform that enables you to more easily and efficiently manage your IT environment, including your server infrastructure and client devices.



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Microsoft SCCM Course Objectives

The System Center Configuration Manager builds the knowledge & capacity for meeting the networking challenges of enterprise.

Design and plan System Center Configuration Manager infrastructure

Plan System Center Configuration Manager hierarchy and site system roles

- Pre-installation requirements, examining the current computing environment, CAS, primary and secondary sites, branch cache, designing and recommending System Center Configuration Manager server architecture, extending the Active Directory schema (DNS service records, WINS), managed providers, discovery methods, and planning migration

Plan and configure security

- PKI or self-signed certificates, HTTP or HTTPS implementation, NAP, FEP, and planning role-based security

Define the Business Continuity Plan (BCP)

- Disaster recovery and site maintenance

Manage operating system deployment (OSD)

Configure the OSD environment

- Configuring WDS, configuring PXE, configuring the VM build environment, and integrating with MDT

Build and capture an image

- Updating base images, task sequences

Deploy an image

- New (bare metal) and upgrade images, VHD deployment

Manage images

- Drivers, servicing

Deploy applications and software updates

Create an application

- Defining deployment types, deploying applications to RDSH, MSI, and App-V, and converting a package

Deploy an application

User device affinity, compliance settings, Software Center, and task sequences

Monitor application deployment

- Resolving issues, managing application distribution points, distribution point groups, Content Library, SQL

Server Reporting Services (SSRS), log files, and In Console Monitoring

Manage the software library and application catalog

- Web portal configuration, work schedule, and definition of primary machines for users

Create and monitor software updates

- Automatic Deployment Rules (ADR), SSRS, creating update groups, creating deployment packages, log files, and In Console Monitoring

Configure FEP clients by using System Center Configuration Manager

- Creating and managing policy by using Configuration Manager, configuring definitions within the client policy, exporting from Configuration Manager, choosing which template to use, and select exclusions

Manage compliance settings

Build a Configuration Item (CI)

- Creating a CI, importing a CI, setting CI versioning, and remediation rules

Create and monitor a baseline

- Importing a configuration pack, building a custom baseline, SSRS, log files, In Console Monitoring, deploying a baseline

Manage sites

Manage collections

- Setting maintenance windows, defining rules for collections (collection membership, query-based collections), collection-specific settings

Monitor site health

- SSRS, log files, In Console Monitoring, Toolkit
 - Configure software updates
- Sync schedule, catalogs, products, WSUS, and superseded updates

Manage site communications

- Configuring bandwidth settings for a site address, configuring senders, secondary sites (file-based replication, SQL replication paths), resolving DP connections

Manage boundary groups

- Creating boundary groups, using boundary groups in more than one DP, client roaming, Internet-based clients

Manage role-based security

- Security scopes, custom roles, cloned security roles and permissions

Manage clients

Deploy clients

- GPO, WSUS, logon scripts, manual, client push, OSD task sequence, monitoring client health

Manage mobile devices

- Enrolling mobile devices, Exchange Connector, AMT enrollment point (out-of-band management), and wiping mobile devices

Manage client agent settings

- Desired configuration settings, mobile device client agent, NAP client agent, configuring power management, configuring remote control agent, hardware inventory agent, software inventory agent, software metering agent, advertised programs agent, computer agent

Manage inventory

Manage hardware inventory

- Configuring MOF, export and import settings, enabling or disabling WMI classes, extending hardware inventory to other client assets, WMI or registry reporting

Manage software inventory

- Standardized vendor name, list of tracked inventory, report inventory data, asset intelligence, software metering (enable or disable rules, report software metering results)

Monitor inventory data flow

- Client-to-site, site-to-site

Manage reports and queries

Build queries

- Console queries, WQL, sub-selects

Create reports

- Cloning and modifying reports, creating custom reports, import and export reports

Manage SSRS

- Configuring security, configuring caching, configuring subscriptions

Practical Approach

A real-time example will be given throughout the lectures, starting from design, analysis, implementation and maintenance of network.