

Systems Center Configuration Manager 2007

by Infront Consulting Group

Course: SCCM 2007 Operating System Deployment



Target Market: SMS 2003 & SCCM Administrators

Scheduled Dates: June 16-20, 2008 - Atlanta, GA
August 4-8, 2008 - New York, NY
August 25-29, 2008 – Toronto, Ontario
September 22-26, 2008 - Portland, OR

Number of Days: 5

Description:

This course will prepare attendees to plan, design and implement a variety of operating system deployment scenarios using the Operating System Distribution features of System Center Configuration Manager 2007. Course lectures will focus on guiding participants through the deployment scenarios available using SCCM and OSD, and understand the steps involved with building a deployment infrastructure around these technologies, using custom task sequences, zero touch deployment and additional functionality extensions for OSD in Microsoft deployments.

Pre-Requisites:

Students should have a base knowledge of SCCM and basic scripting knowledge would be an asset.

Attendees will have the opportunity to complete a variety of operating system deployment scenarios in extensive hands-on exercises.

This class consists of the following session:

- Session 1: Introduction / Overview**
- Session 2: Planning baselines for OS distribution**
- Session 3: Planning for OSD in SCCM sites**
- Session 4: Building and capturing a reference system image**
- Session 5: Distributing an Operating System to SCCM clients**
- Session 6: Customizing OSD task sequences**
- Session 7: Zero-touch OS deployment**
- Session 8: Preparing for bare metal deployments**
- Session 9: Working with Windows PE and WIM utilities**

Module 1 - Intro

- OS distribution challenges
- Changes to OS distribution for Vista
- Windows PE
- Key functions of Windows PE
- Replace dos network boot disks
- Provide platform for bootable scenarios such as imaging, security response

Intro to OSD

- OSD Benefits and Features
- History of OSD
- Changes to OSD in SCCM 07
- Review

Module 2 - Planning baselines for OS distribution

- Overview of OSD process
- Supported configurations and usage scenarios
- Client refresh
- Client upgrade
- Deploying new clients
- Planning for 32 bit and 64 bit clients
- Planning for user state migration
- Creating reference systems
- Preparing SCCM environment for OSD
- Determining build requirements
- Building software package repository
- Building driver repository
- Customizing the OSD boot image
- Planning for baseline and distributed applications
- Fat or skinny images?
- Planning for fat vs. skinny images
- Identifying target collections and assessing user application requirements

Module 3 - Planning for OSD in SCCM sites

- Changes required to SCCM
- Distributing advanced client
- Distributing pre-requisites
- Planning to distribute the OSD boot image to distribution points
- Impact of local and remote distribution points
- Planning for remote and roaming clients
- Planning to deploy State Migration Point systems
- Distributing OS images using multiple SCCM sites
- Planning for site replication

Module 4 - Building and capturing a reference system image

- Preparing to capture reference systems
- Building and customizing Windows PE
- Create a customized Windows PE image
- Installing network and mass storage drivers into a customized Windows PE
- Creating new Windows PE boot media

- Create a customized OSD boot image
- Creating the OSD Image Capture CD
- Preparing the reference system for imaging
- Capturing image of reference system

Module 5 - Distributing an Operating System to SCCM clients

- Preparing to distribute an image using SCCM
- Planning Operating System packages
- Preparing SCCM clients for OS distribution
- Increase client cache size
- Intro to task sequences
- Identifying target collections
- Creating target collections
- Create a task sequence
- Advertise and execute a task sequence on a target system

Module 6 - Customizing OSD task sequences

- Distributing drivers and applications using task sequences
- Installing drivers
- Differences between 32-bit and 64-bit drivers
- Installing 64-bit drivers
- Differences between signed and unsigned drivers
- Installing applications
- Customizing workstation baseline settings
- Creating custom tasks

Module 7 – Zero-touch OS deployment

- Customizing settings for individual target systems
- Creating computer associations
- Identifying systems for computer associations
- Importing computer associations from file
- Importing a single computer
- Specifying customized settings
- Creating advertisements for OS distribution

Module 8 - Preparing for bare metal deployments

- Preparing for PXE deployment
- Installing a Windows Deployment server
- Creating computer association
- Assign to a collection
- Advertise a task sequence to a bare metal client
- Using PXE deployment

Module 9 - Working with Windows PE and WIM utilities

- Customizing PE
- Working with WIM images