MOC 10748 C Planning and Deploying System Center 2012 Configuration Manager

Course Summary

Description
Get detailed instruction and hands-on practice planning and deploying Microsoft System Center 2012 R2 Configuration Manager and its associated site systems. This three-day Microsoft Official course is designed for IT Professionals who are responsible for designing and deploying one or more System Center 2012 R2 Configuration Manager sites and all supporting systems, as well as configuring and managing endpoints in those systems. You will learn how to plan for the deployment of the central administration site, one or more primary sites and secondary sites, and all associated site systems. You will also learn how to migrate from System Center 2012 Configuration Manager to System Center 2012 R2 Configuration Manager. This course also helps candidates prepare for Exam 70-243, MCTS: Administering and Deploying System Center 2012 Configuration Manager. Both Configuration Manager courses, 10747D and 10748C, or the equivalent knowledge and skills will be necessary to prepare for the exam.

NOTE: Windows Intune is used as part of the lab for this course, which may not be available in all countries. Please confirm with your Microsoft training provider that this cloud service is available in your area. Training Providers: please reference the course setup guide for more details.

Objectives
At the end of this course, students will be able to:
- Describe the System Center 2012 R2 Configuration Manager infrastructure.
- Plan and deploy a stand-alone primary site.
- Plan and configure role-based administration.
- Plan and deploy a multiple site hierarchy.
- Replicate data and manage content in Configuration Manager.
- Plan resource discovery and client deployment.
- Configure Internet and cloud-based client management.
- Maintain and monitor System Center 2012 R2 Configuration Manager.
- Migrate to System Center 2012 R2 Configuration Manager.

Topics
- Overview of System Center 2012 R2 Configuration Manager
- Planning and Deploying a Stand-Alone Primary Site
- Planning and Configuring Role-Based Administration
- Planning and Deploying a Multiple-Site Hierarchy
- Replicating Data and Managing Content in Configuration Manager 2012
- Planning Resource Discovery and Client Deployment
- Configuring Internet and Cloud-Based Client Management
- Maintaining and Monitoring System Center 2012 Configuration Manager
- Migrating to System Center 2012 R2 Configuration Manager

Audience
This course is intended for Information Technology (IT) professionals who are responsible for designing and deploying one or more System Center 2012 R2 Configuration Manager sites and all supporting systems. They should have three to five years of experience in medium to large enterprise organizations, in a role in which they are supporting multiple desktop and server computers that run Windows-based operating systems.

This course is also for individuals who are interested in taking exam 70-243 TS: Administering and Deploying System Center 2012 Configuration Manager.
Both 10747D: Administering System Center 2012 Configuration Manager and 10748C: Planning and Deploying System Center 2012 Configuration Manager are necessary to prepare for this exam.

Due to the nature of this material, this document refers to numerous hardware and software products by their trade names. References to other companies and their products are for informational purposes only, and all trademarks are the properties of their respective companies. It is not the intent of ProTech Professional Technical Services, Inc. to use any of these names generically.
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Course Summary (cont’d)

Prerequisites

Before attending this course, students must have system administrator-level working knowledge of:

- Networking fundamentals, including TCP/IP and Domain Name System (DNS)
- Active Directory Domain Services (AD DS) principles and management
- Windows Server management including managing Windows Server 2008 R2 and Windows Server 2012
- Windows Client fundamentals
- Deployment, configuration, and troubleshooting for Windows-based personal computers
- Basic public key infrastructure (PKI) concepts
- Configuration Manager features and administrative tasks including:
  - Working with the System Center 2012 Configuration Manager or newer administrator console
  - Installing clients
  - Maintaining hardware and software inventory
  - Working with collections
  - Reporting
  - Deploying applications
  - Managing software updates
  - Deploying operating systems
  - Settings management

Students who attend this training can meet the prerequisites by obtaining equivalent knowledge and skills or by attending the following courses:

- Course 6419B: Configuring, Managing, and Maintaining Windows Server 2008–based Servers
- Course 20411C: Administering Windows Server 2012
- Course 20687C: Configuring Windows 8.1
  - Either:
    - Course 10747C: Administering System Center 2012 Configuration Manager
  - Both:
    - Course 6451B: Planning, Deploying, and Managing Microsoft System Center Configuration Manager 2007
    - Six months of hands-on experience with System Center 2012 Configuration Manager or newer

Duration

Three days
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Course Outline

I. Overview of System Center 2012 R2 Configuration Manager
This module explains the System Center 2012 R2 Configuration Manager infrastructure and the typical deployment scenarios
A. Introduction to System Center 2012 R2 Configuration Manager
B. Overview of the Configuration Manager Site System Roles
C. Overview of the Configuration Manager Optional Site System Roles
D. Overview of Configuration Manager Deployment Scenarios
E. Overview of the Configuration Manager Client

II. Planning and Deploying a Stand-Alone Primary Site
This module explains how to plan and deploy a stand-alone primary site.
A. Planning a Configuration Manager Stand-Alone Primary Site Deployment
B. Preparing to Deploy a Configuration Manager Primary Site
C. Installing a Configuration Manager Site Server
D. Performing Post-Setup Configuration Tasks
E. Tools for Monitoring and Troubleshooting a Configuration Manager Site

Lab: Planning and Configuring Role-Based Administration

Lab: Installing a Configuration Manager Primary Site
- Configuring the Prerequisites for Configuration Manager 2012 Deployment
- Extending the Active Directory Schema
- Installing a Configuration Manager 2012 Stand-Alone Primary Site

Lab: Performing Post-Setup Configuration Tasks
- Validating the Installation of the Primary Site
- Performing the Initial Configuration of the Primary Site

III. Planning and Configuring Role-Based Administration
This module explains how to plan and configure Configuration Manager administrative users and access.
A. Overview of Role-Based Administration
B. Identifying IT Roles in Your Organization
C. Configuring Role-Based Administration

IV. Planning and Deploying a Multiple-Site Hierarchy
This module explains how to plan and deploy a multiple site hierarchy including a central administration site, primary sites, and a secondary site.
A. Planning a Configuration Manager 2012 Multiple-Site Hierarchy
B. Deploying a Configuration Manager 2012 Site
C. Deploying the Central Administration Site
D. Deploying Primary Sites in a Hierarchy
E. Deploying Secondary Sites

Lab: Installing a Site Hierarchy
- Using Hierarchy Expansion to Install the Central Administration Site
- Validating the Installation
- Automating the Installation of a Primary Site

Lab: Installing a Secondary Site
- Configuring Prerequisites
- Installing a Secondary Site from a Primary Site
- Validating the Installation

V. Replicating Data and Managing Content in Configuration Manager 2012
This module explains how to plan, configure, and monitor data types, intersite communication, replication, and content.
A. Introduction to Data Types and Replication
B. Managing Replication
C. Planning Content Management

Lab: Configuring, Monitoring, and Troubleshooting Data Replication
- Verifying and Configuring Replication Settings
- Monitoring Replication
- Troubleshooting Replication

Lab: Configuring, Monitoring, and Troubleshooting Content Management
- Planning Content Distribution
- Implementing Distribution Points
- Implementing Content Prestaging
- Implementing BranchCache to Support Content Management

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VI. Planning Resource Discovery and Client Deployment
This module explains how to plan and use various methods to discover resources and deploy the Configuration Manager client.
A. Identifying Resources by Using Configuration Manager Discovery Methods
B. Client Deployment in Configuration Manager
C. Deploying Windows-Based Configuration Manager Clients
D. Managing Configuration Manager Clients
E. Monitoring Client Status in Configuration Manager
Lab: Implementing Configuration Manager Client Deployment
• Configuring Active Directory Discovery Methods
• Using Client Push to Install the Configuration Manager Client
• Using Group Policy to Install the Configuration Manager Client

VII. Configuring Internet and Cloud-Based Client Management
This module explains how to plan and configure Internet and cloud-based client management.
A. Managing Remote Clients by Using System Center 2012 R2 Configuration Manager
B. Managing Internet-Based Configuration Manager Clients
C. Configuring Cloud Services in System Center 2012 R2 Configuration Manager
Lab: Configuring PKI for Configuration Manager
• Creating Certificate Templates for Configuration Manager
• Deploying Certificates for Configuration Manager
Lab: Configuring Windows Intune Integration with System Center 2012 R2 Configuration Manager
• Signing Up for a Windows Intune Trial Account and Configuring Directory Synchronization
• Configuring the Windows Intune Connector Role

VIII. Maintaining and Monitoring System Center 2012 Configuration Manager
This module explains how to perform maintenance tasks and monitor the Configuration Manager site systems.
A. Overview of Configuration Manager 2012 Site Maintenance
B. Performing Backup and Recovery of a Configuration Manager Site
C. Monitoring Configuration Manager 2012 Site Systems
Lab: Maintaining System Center 2012 Configuration Manager
• Configuring Maintenance Tasks in Configuration Manager
• Configuring the Site Backup Task
• Recovering a Site from a Backup

IX. Migrating to System Center 2012 R2 Configuration Manager
This module explains how to perform migration tasks from Configuration Manager 2007 and upgrade Configuration Manager 2012 to Configuration Manager 2012 SP1 and then to System Center 2012 R2 Configuration Manager.
A. Overview of the Migration Process
B. Preparing Configuration Manager 2007 Sites for Migration
C. Configuring Migration Settings
D. Migrating Objects
E. Upgrading Configuration Manager 2012 to Configuration Manager 2012 SP1 and then to System Center 2012 R2 Configuration Manager
Lab: Migrating from System Center Configuration Manager 2007 to System Center 2012 Configuration Manager
• Configuring the Source Hierarchy
• Creating a Migration Job and Performing Migration
• Migrating a Secondary Site to a Distribution Point