HP Education Services

10747 - Administering System Center 2012 Configuration Manager

This course describes how to configure and manage a System Center 2012 R2 Configuration Manager site and its associated site systems. The course focuses on day-to-day management tasks for System Center 2012 R2 Configuration Manager.

Audience

This course is intended for IT Professionals who are responsible for configuring and managing endpoints in one or more System Center 2012 R2 Configuration Manager sites and all supporting systems. They have one to three years of experience managing and maintaining client computers, devices, and servers in medium to large enterprise organizations. Administrators may have previous Configuration Manager experience, or be new to the product.

Secondarily, this course is also intended for individuals who are interested in taking exam 70-243 TS: Microsoft System Center 2012 Configuration Manager, Configuring. Both Configuration Manager courses, 10747 and 10748, or the equivalent knowledge and skills are necessary to prepare for the exam.

Prerequisites

Before attending this course, students must have System administrator–level working knowledge of:
- Installation, configuration, and troubleshooting for Windows-based personal computers.
- Windows client management including endpoint security fundamentals.
- Networking fundamentals, including TCP/IP and Domain Name System (DNS).
- Windows Server administration concepts including Active Directory and group policy principles and management.
- Basic concepts of Public Key Infrastructure (PKI) security.
- Familiarity with Windows Intune
- Desired: Basic understanding of Windows Server roles and services
- Desired: Basic understanding of Microsoft SQL Server Reporting Services.

Students who attend this training can meet the prerequisites by attending the following courses, or by obtaining equivalent knowledge and skills:
- Course 6292: Configuring Windows 7
- Course 20687: Configuring Windows 8
- Course 6419: Configuring, Managing and Maintaining Windows Server 2008-Based Servers
- Course 20411: Administering Windows Server 2012

Course title:	10747 - Administering System Center 2012 Configuration Manager
HP product number:	H3K87S
Category/Subcategory:	Microsoft
Course length:	5 days
Delivery language:	English

Course objectives

After completing this course, students will be able to:
- Describe the System Center 2012 R2 Configuration Manager feature set and manage and troubleshoot sites by using the Configuration Manager Console and associated toolset.
- Configure boundaries and boundary groups, configure discovery methods, manage user and device collections, and implement role-based administration.
- Describe the client deployment process, configure client deployment methods, configure the client agent settings, and monitor client status.
- Describe the inventory collection process, configure and manage hardware and software inventory, monitor inventory data flow, and use Asset Intelligence and Software Metering.
- Analyze data by creating queries and running reports.
- Create, deploy, and manage software packages and programs.
- Create and deploy applications by using the System Center 2012 R2 Configuration Manager application model.
- Configure multiple deployment types.
- Deploy and manage software updates.
- Integrate and implement Endpoint Protection by using System Center 2012 R2 Configuration Manager.
- Deploy operating systems by using the Configuration Manager infrastructure.
- Manage configuration items, baselines, and profiles to assess and configure settings for devices.
- Manage mobile devices by using System Center 2012 R2 Configuration Manager.
- Configure Wake On LAN, Power Management policies, and Remote Control.

Why education services from HP?

- Recognized as an IDC MarketScape leader for IT education (IDC MarketScape: Worldwide IT Education and Training 2012 Vendor Analysis, doc #232870, February 2012)
- Unmatched technical expertise and support for HP products and technologies
- Comprehensive curriculum of job-specific training leading to vendor certification
- Training you need, when and where you need it with our Remotely Assisted Instructional Learning (RAIL)
- More than 30 years of Education Consulting
- Global training with more than 90 training locations worldwide
- Award winning virtual classrooms and virtual labs for a real hands-on experience

Detailed course outline

Module 1: Overview of System Center 2012 R2 Configuration Manager
In this module, you will learn about the basic features of System Center 2012 R2 Configuration Manager, the various types of sites, and the site system roles that you can deploy. System Center 2012 R2 Configuration Manager takes advantage of a redesign of several features in previous versions of Configuration Manager. This module covers the enhancements and modifications made to the Configuration Manager console. You will explore the interface of the Configuration Manager console and learn how to navigate it to locate and use important features. Additionally, you will review the tools that are available for monitoring and troubleshooting Configuration Manager.

Module 2: Discovering and Organizing Resources
In this module, you will learn about boundaries and boundary groups that help create logical network locations that contain discovered computers based upon IP addresses or Active Directory sites. You can use these boundary configurations for client site assignment and for helping clients find content from associated site systems. You also will learn about the discovery processes that you can use to identify computers, users, and the network infrastructure within your network environment. You then will learn about collections that support logical groupings of resources. You use these groupings for management tasks such as targeting software updates, managing applications, or deploying compliance settings to resources.

Module 3: Managing the Configuration Manager Client Agent
This module explains the supported operating systems and devices, the software requirements, and the different methods for installing the client software. After installing the client software, you can configure the client settings to perform routine management tasks.

This module describes some of the default and custom client settings that you can configure. The module also describes how to monitor the operations and client health of the Configuration Manager client agent software by using alerts and the client health evaluator.

Module 4: Managing Inventory and Software Metering
This module covers collecting hardware and software details to provide a foundation that you can use with many other advanced features, such as application deployment.

Module 5: Querying and Reporting Data
This module describes queries and the methods to create and run them. Additionally, you may want to run reports about your environment. To be able to run Configuration Manager reports, you have to install a reporting services point, which this module details.

Module 6: Managing Software Distribution and Deployment by Using Packages and Programs
This module is the first of many that focus on software deployment. This module describes how to manage software by using packages and programs, while subsequent modules cover the application-management model.

Module 7: Creating and Deploying Applications
In this module, you will learn about the application model and the basics for creating, deploying, and managing applications with Configuration Manager. You will also learn how to use Configuration Manager Software Center and Configuration Manager Application Catalog to install available applications.

Module 8: Deploying Additional Application Types
In this module, you will learn about managing deployments on unconventional applications. This module describes how to install Windows Store apps and virtualized applications.

Module 9: Deploying and Managing Software Updates
This module covers using the software updates feature in Configuration Manager so you can implement an end-to-end process for managing the complex task of identifying, deploying, and monitoring software updates to your Configuration Manager clients.

Module 10: Implementing Endpoint Protection by Using System Center 2012 R2 Configuration Manager

System Center 2012 R2 Configuration Manager provides a number of security-related features that you can use to help protect client computers from malware threats and configure specific Windows Firewall settings for clients. Based on System Center 2012 Endpoint Protection functionality, Endpoint Protection in Configuration Manager 2012 supports the deployment, management, and monitoring of antimalware policies and Windows Firewall settings on client computers.

Module 11: Managing Operating Systems Deployment

You can use the operating system deployment feature in System Center 2012 R2 Configuration Manager to create hard drive images that you can deploy to unmanaged computers and those that Configure Manager manages. There are several scenarios in which you can deploy operating systems by using Configuration Manager, including when you are working with new systems or when you are upgrading existing ones. Operating system deployment uses both Configuration Manager and Windows components to manage and deliver operating system images. You can configure settings on a reference computer prior to capturing an image of its hard drive or by using task sequences that Configuration Manager creates after you deploy the image to a target system.

Module 12: Managing Compliance Settings and Profiles

One of the more difficult tasks that information technology (IT) administrators face is to ensure that all the systems in their organization use, and retain, an optimal configuration at all times. IT administrators and team members must have confidence that the systems' configurations are correct, regardless of whether they are monitoring changes to servers or documenting compliance requirements. The compliance settings feature can play a key role in documenting existing configurations, in quickly discovering systems that have undesired configuration changes, and in automatically remediating some undesired configurations.
This module will detail the compliance settings feature, and how you can use it to manage your systems.

Module 13: Mobile Device Management Using System Center 2012 R2 Configuration Manager

Increasingly, users are using mobile devices not only to retrieve their email messages and synchronize calendar appointments, but also to work on files and documents outside of the office. Additionally, more and more users are utilizing important line-of-business (LOB) applications that enable them to be productive whenever and wherever work calls.

These users often use mobile devices for tasks that they might previously have performed only on desktop computers. Therefore, many organizations are considering the management of mobile devices in ways that they previously reserved for desktop computers. In this module, you will learn about performing mobile device management by using the Microsoft Exchange Server connector for Microsoft System Center 2012 R2 Configuration Manager. You will also learn how you can integrate Windows Intune with Configuration Manager for mobile device management.

Module 14: Configuring Wake On LAN, Power Management and Remote Control

Managing client computers remotely is an integral part of managing a network efficiently and is a key feature in System Center 2012 R2 Configuration Manager. Typically, it is not feasible, logistically or financially, to travel to a client workstation to perform minor repairs or assist with software issues. Additionally, you may not always want to have computers running before you deploy software applications or updates. To help reduce energy costs and environmental impact, you may want to monitor and implement corporate-wide power management policies that you can use to control the state of client computers. There also may be situations in which you need to reconfigure BIOS settings on remote computers, or turn on or off remote computers. System Center 2012 R2 Configuration Manager supports various types of remote-management tasks by using Wake On LAN, power-management policies, Remote Control, and out of band management features.

For more information

To locate contact information and to learn more about education services, please visit our web site at **http://www.hp.com.au/education .**