20415: Deploying Windows 7 & Windows 8 Desktops Using Windows Server 2012 Deployment Tools

This super-advanced 5-day instructor-led course will teach you how to plan and implement an enterprise-scale Windows 7 and 8 desktop infrastructure. The emphasis of this course is on the planning, deployment, and operation of the backend data center server infrastructure that provides desktop services including Windows Server 2012 and Microsoft System Center 2012. You learn how to plan and deploy desktops using several technologies such as User State Migration Tool (USMT), Microsoft Deployment Toolkit (MDT), Virtual Desktop Infrastructure (VDI), and more. Additionally, the course describes how to protect Windows 7 and 8 desktops and monitor their health and performance.

AUDIENCE

The course is primarily intended for IT Professionals who upgrade, deploy, and manage the Windows 7 and Windows 8 desktop environments. These IT professionals typically work in complex computing environments of large to enterprise-sized organizations and may work with virtualized desktop environments, remote applications, and desktop automation. In addition, the secondary audience for this course includes IT professionals who want to take the 70-415: Implementing an Enterprise Desktop and Device Infrastructure exam as a stand-alone, or as part of the requirement for the MCSE: Desktop Infrastructure certification.

PREREQUISITES

At least two years of experience deploying and managing Windows server and client operating systems in an enterprise data center environment is required. Required, not suggested or optional. Successful completion of the following course is required:

» Installing and Configuring Windows Server 2012 (20410)

In addition, successful completion of one or more of the following courses is also required:

» Administering Windows Server 2012 (20411)
» Upgrading Your Skills to MCSA Windows Server 2012 (20417)
» Windows 7 Enterprise Desktop Support Technician (50331)
» Planning and Managing Windows 7 Desktop Deployments and Environments (6294)
» Configuring Windows 8 (20687)

WHAT YOU WILL LEARN

» Assess and determine desktop deployment options.
» Plan an image management strategy.
» Implement desktop security.
» Capture and manage a desktop operating system image.
» Plan and implement User State Migration.
» Plan and deploy desktops by using the Microsoft Deployment Toolkit.
» Plan and deploying desktops by using System Center 2012 Configuration Manager.
» Plan and implement a Remote Desktop Services infrastructure.
» Manage user state virtualization for enterprise desktops.
» Plan and implement an updates infrastructure to support enterprise desktops.
» Protect enterprise desktops from malware and data loss.
» Monitoring the performance and health of the desktop infrastructure.
Overview of the Enterprise Desktop Life Cycle
Planning and Implementing Encrypted
Planning User State Migration by Using USMT
Configuring and Managing Windows
Lab A: Planning and Implementing a Remote
Configuring a Session-Based
Planning an Updates Infrastructure for
Assessing Hardware and Infrastructure
Performance and Health Monitoring for the
Planning and Implementing BitLocker
Volume Activation Technologies for
Lab A: Planning and Implementing
Planning for the Lite Touch
Extending the Remote Desktop Services
Lab B: Migrating User State Using
Lab B: Building a Reference Image Using a
Module 4. Capturing and Managing a Desktop Operating System Image
This module describes how to use the Windows Assessment and Deployment Kit (ADK) and Windows Deployment Services (WDS) to create, capture, and manage a desktop operating system image.
» Overview of Windows ADK
» Managing the Windows Preinstallation Environment
» Building a Reference Image Using Windows SIM and Sysprep
» Capturing and Servicing a Reference Image
» Configuring and Managing Windows Deployment Services
» Lab A: Preparing the Imaging and Preinstallation Environment
» Lab B: Building a Reference Image Using Windows SIM and Sysprep
» Lab C: Capturing and Servicing a Reference Image
Module 5. Planning and Implementing User State Migration
This module describes how to use the User State Migration Tool (USMT) to migrate appropriate user data and settings to a new desktop operating system.
» Overview of User State Migration
» Planning User State Migration by Using USMT
» Lab A: Planning and Implementing User State Migration
» Lab B: Migrating User State Using Hard-Link Migration
Module 6. Planning and Deploying Desktops Using the Microsoft Deployment Toolkit
This module describes how to use the Microsoft Deployment Toolkit (MDT) 2012 to deploy Windows operating systems in lite touch installation scenarios.
» Planning for the Lite Touch Installation Environment
» Implementing MDT 2012 for Lite Touch Installation
» Integrating Windows Deployment Services with MDT
» Lab: Planning and Deploying Desktops Using the Microsoft Deployment Toolkit
Module 7. Planning and Deploying Desktops by Using System Center 2012 Configuration Manager
This module describes how to use System Center 2012 Configuration Manager to implement a zero touch installation for deploying enterprise desktops.
» Planning the Zero Touch Installation Environment
» Preparing the Site for Operating System Deployment
» Building a Reference Image Using a Configuration Manager Task Sequence
» Using MDT Task Sequences to Deploy Client Images
» Lab A: Preparing the Environment for Operating System Deployment
» Lab B: Using MDT and Configuration Manager to Perform a Zero-Touch Installation
Module 8. Planning and Implementing a Remote Desktop Services Infrastructure
This module describes how to plan and implement session virtualization deployment and a virtual desktop infrastructure (VDI) based upon Windows Server 2012 Remote Desktop Services.
» Overview of Remote Desktop Services
» Planning the Remote Desktop Services Environment
» Configuring a Virtual Desktop Infrastructure Deployment
» Configuring a Session-Based Desktop Deployment
» Extending the Remote Desktop Services Environment to the Internet
» Lab A: Planning and Implementing a Remote Desktop Services Infrastructure
» Lab B: Extending Internet Access to the RDS Infrastructure
Module 9. Managing User State Virtualization for Enterprise Desktops
This module describes how to plan and configure user state virtualization to provide a consistent desktop client experience.
» Overview of User State Virtualization
» Planning User State Virtualization
» Configuring Roaming Profiles, Folder Redirection, and Offline Files
» Implementing Microsoft User Experience Virtualization
» Lab: Deploying and Managing User State Virtualization
Module 10. Planning and Implementing an Updates Infrastructure to Support Enterprise Desktops
Students will be able to plan and implement an updates infrastructure to support both physical and virtual enterprise desktops.
» Planning an Updates Infrastructure for the Enterprise
» Implementing Configuration Manager 2012 to Support Software Updates
» Managing Updates for Virtual Machines and Images
» Using Windows Intune for Managing Software Updates
» Lab: Planning and Implementing an Updates Infrastructure
Module 11. Protecting Enterprise Desktops from Malware and Data Loss
This module describes how to use System Center technologies such as Endpoint protection and Data Protection Manager (DPM) to protect enterprise desktops from malware and data loss.
» Overview of System Center 2012 Endpoint Protection
» Configuring Endpoint Protection Client Settings and Monitoring Status
» Using Windows Intune Endpoint Protection
» Protecting Desktops by Using System Center 2012 Data Protection Manager
» Lab A: Implementing Client Endpoint Protection
» Lab B: Configuring Data Protection for Client Computer Data
Module 12. Monitoring the Performance and Health of the Desktop Infrastructure
This module describes how to identify and monitor relevant services and components to ensure the health and performance of the enterprise desktop infrastructure.
» Performance and Health Monitoring for the Desktop Infrastructure
» Monitoring the Virtual Desktop Infrastructure
» Lab: Monitoring the Performance and Health of the Desktop Infrastructure