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## 20415 Implementing a Desktop Infrastructure

**Course Duration:** 5 days

**Overview:** This course provides guidance on planning and deploying desktops by using several technologies such as User State Migration Tool (USMT), Microsoft Deployment Toolkit (MDT), Virtual Desktop Infrastructure (VDI), and more.

### Outline:

#### Lesson 1 - Assessing and Determining Desktop Deployment Options

Overview of the Enterprise Desktop Life Cycle  
Assessing Hardware and Infrastructure Readiness for a Desktop Deployment  
Overview of Enterprise Desktop Deployment Methods  
Volume Activation Technologies for Enterprise Desktops  
Lab : Assessing and Determining Desktop Deployment Options

#### Lesson 2 - Planning An Image Management Strategy

Overview of Windows Image Formats  
Overview of Image Management  
Lab : Planning an Image Management Strategy

#### Lesson 3 - Implementing Desktop Security

Implementing a Centralized Desktop Security Solution  
Planning and Implementing BitLocker  
Planning and Implementing Encrypted File System  
Lab : Configuring Desktop Security  
Lab : Configuring File Encryption Using EFS

#### Lesson 4 - Capturing and Managing 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 : Preparing the Imaging and Preinstallation Environment  
Lab : Building a Reference Image Using Windows SIM and Sysprep  
Lab : Capturing and Servicing a Reference Image  
Lab : Configuring and Managing Windows Deployment Services

#### Lesson 5 - Planning and Implementing User State Migration

Overview of User State Migration  
Planning User State Migration by Using USMT  
Migrating User State by Using USMT



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Lab : Planning and Implementing User State Migration  
Lab : Migrating User State Using Hard-Link Migration

### **Lesson 6 - Planning and Deploying Desktops Using the Microsoft Deployment Toolkit**

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

### **Lesson 7 - Planning and Deploying Desktops by Using System Center 2012 Configuration Manager**

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 : Preparing the Environment for Operating System Deployment  
Lab : Using MDT and Configuration Manager to Perform a Zero-Touch Installation

### **Lesson 8 - Planning and Implementing a Remote Desktop Services Infrastructure**

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 : Planning and Implementing a Remote Desktop Services Infrastructure  
Lab : Extending Internet Access to the RDS Infrastructure

### **Lesson 9 - Managing User State Virtualization For Enterprise Desktops**

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

### **Lesson 10 - Planning and Implementing an Updates Infrastructure to Support 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

### **Lesson 11 - Protecting 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



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Lab : Implementing Client Endpoint Protection  
Lab : Configuring Data Protection for Client Computer Data

**Lesson 12 - Monitoring the Performance and Health of the 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