

Deploying Windows Desktops and Enterprise Applications (M20695)

This five-day training course describes how to assess operating system and application deployment options, determine the most appropriate deployment strategy, and then implement a deployment solution for Windows devices and apps that meet your environment's needs.

Objective

After completing this course, students will be able to:

- Assess the network environment to support operating system and application deployment tasks.
- Identify the most appropriate operating system deployment strategy based upon organizational requirements.
- Assess application compatibility issues and identify mitigation solutions to ensure that applications function successfully after an operating system deployment.
- Describe and configure strategies to migrate user state during operating system deployments.
- Determine the most appropriate image management strategy to support operating system and application deployments.
- Describe and use the tools provided in the Windows ADK to prepare for and support automated deployment strategies.
- Identify solutions to support PXE-initiated and multicast solutions when performing operating system deployment tasks.
- Configure an operating system deployment strategy by using the MDT.
- Configure an operating system deployment strategy using Configuration Manager.
- Integrate the MDT with Configuration Manager to support operating system deployment procedures.
- Implement volume license activation and configuration settings for client computers.
- Customize and deploy Microsoft Office 2016 to an enterprise network environment, and describe how to use the Windows ICD.

Details

Duration: 5 Days

Who is this course for

Before attending this course, students must have:

- System administrator-level working knowledge of:
 - Networking fundamentals, including common networking protocols, topologies, hardware, media, routing, switching, and addressing.
 - Microsoft Active Directory Domain Services (AD DS) principles and fundamentals of AD DS management.
 - Installation, configuration, and troubleshooting for Windows-based personal computers.
 - Basic concepts of Public Key Infrastructure (PKI) security.
 - Basic understanding of scripting and Windows PowerShell syntax.
 - Basic understanding of Windows Server roles and services.

Desired:

- Basic understanding of the management tasks that you can perform by using Configuration Manager.

Course Content

Module 1: Assessing the network environment for supporting operating system and application deployment.

This module examines how you can create a deployment strategy by using life-cycle information, deployment tools and technologies, and licensing and activation information. It also explains how to plan and effectively perform preparation tasks for deploying Windows 10 client operating systems. Lessons

- Overview of the enterprise desktop life cycle
- Assessing readiness for a desktop deployment by using Configuration Manager
- Assessing deployment readiness by using MAP

Lab: Assessing the network environment for supporting operating system and application deployment

- Collecting hardware and application inventory by using Configuration Manager
- Using MAP to determine infrastructure readiness

After completing this module, students will be able to:

- Describe the enterprise desktop life cycle.
- Assess an environment's readiness for a desktop deployment by using Configuration Manager.
- Assess an environment's deployment readiness by using MAP.

Module 2: Determining operating system deployment strategies This module describes the tools and strategies that are available to help you perform a successful operating system deployment. It also explains how to identify the most appropriate operating system deployment strategy for your environment, based on organisational requirements. Lessons

- Understanding tools and strategies you can use for operating system deployment
- Using the High Touch with Retail Media deployment strategy
- Using the High Touch with a Standard Image deployment strategy
- Using a lite touch deployment strategy
- Using a zero touch deployment strategy
- Alternative deployment strategies for Windows desktops

Lab: Determining operating system deployment strategies

- Identifying operating system deployment strategies for a small network
- Identifying operating system deployment strategies for a medium-sized network
- Identifying operating system deployment strategies for an enterprise network
- Installing the Windows ADK

After completing this module, students will be able to:

- Describe the tools and strategies that are available for an effective operating system deployment
- Deploy operating systems by using the High Touch with Retail Media strategy.
- Deploy operating systems by using the High Touch with a Standard Image strategy.
- Deploy operating systems by using the lite touch strategy.
- Deploy operating systems by using the zero touch strategy.
- Describe alternative deployment strategies for Windows desktops.

Module 3: Assessing application compatibility This module describes the process for addressing common application compatibility issues that you might experience during a new operating system deployment. The module also explains how to use the ACT to help inventory, analyse, and mitigate application compatibility issues. Lessons

- Diagnosing application compatibility issues

