

Managing Modern Desktops

SECOND EDITION

Exam Ref MD-101

Andrew Bettany



Exam Ref MD-101 Managing Modern Desktops

Second Edition

Andrew Bettany Andrew Warren

Exam Ref MD-101 Managing Modern Desktops

Table of Contents

Cover

Title Page

Copyright Page

Contents at a glance

Contents

Acknowledgments

About the authors

Introduction

Organization of this book

Microsoft certifications

Errata, updates, & book support

Stay in touch

Chapter 1 Deploy and upgrade operating systems

Skill 1.1: Plan a Windows 10 deployment

Assess infrastructure readiness

Evaluate and select an appropriate deployment option

Plan upgrade and downgrade paths

Plan app compatibility

Plan for user state

Skill 1.2: Plan and implement Windows 10 by using Windows Autopilot

Choose method based on requirements



Create, validate, and assign deployment profiles

Extract device hardware information

Import device hardware information to cloud service

Deploy Windows 10

Troubleshoot deployment

Skill 1.3: Plan and implement Windows 10 using MDT

Choose configuration options based on requirements

Create and manage images

Manage application and driver deployment

Create and use task sequences

Deploy images

Monitor and troubleshoot deployment

Skill 1.4: Manage accounts, VPN connections, and certificates on

Windows 10

Secure privileged accounts on Windows 10

Configure VPN client

Configure and manage certificates on client devices

Chapter summary

Thought experiment

Scenario 1

Scenario 2

Scenario 3

Scenario 4

Thought experiment answers

Scenario 1

Scenario 2

Scenario 3

Scenario 4

Chapter 2 Manage policies and profiles



Skill 2.1: Implement compliance policies for devices

Plan device compliance policies

Implement device compliance policies

Manage device compliance policies

Skill 2.2: Configure device profiles

Plan device profiles

Implement device profiles

Manage device profiles

Skill 2.3: Manage user profiles

Configure user profiles

Configure sync settings

Implement Folder Redirection

Implement OneDrive Known Folder Move

Configure Enterprise State Roaming in Azure AD

Chapter summary

Thought experiment

Scenario 1

Scenario 2

Scenario 3

Thought experiment answers

Scenario 1

Scenario 2

Scenario 3

Chapter 3 Manage and protect devices

Skill 3.1: Implement and manage device, application, and threat protection

Implement and manage Microsoft Defender Credential Guard

Implement and manage Microsoft Defender Exploit Guard

Implement and manage Microsoft Defender Application Guard

Implement Microsoft Defender for Endpoint



Integrate Microsoft Defender Application Control

Manage Microsoft Defender Antivirus

Protect devices using Endpoint Security

Manage enterprise-level disk encryption

Implement and manage security baselines in Microsoft Intune

Skill 3.2: Manage Microsoft Intune devices

Configure enrollment settings in Microsoft Intune

Configure Microsoft Intune automatic and bulk enrollment

Enroll Windows devices

Enroll non-Windows devices

Review device inventory

Skill 3.3: Monitor devices

Monitor device inventory reports using Endpoint Manager admin center Monitor devices using Azure Monitor, Desktop Analytics, and Endpoint Analytics

Skill 3.4: Manage updates

Plan for Windows Updates

Deploy Windows updates using Microsoft Intune

Configure Windows 10 delivery optimization

Monitor Windows 10 Updates

Chapter summary

Thought experiment

Scenario 1

Scenario 2

Scenario 3

Scenario 4

Thought experiment answers

Scenario 1

Scenario 2



Scenario 3

Scenario 4

Chapter 4 Manage apps and data

Skill 4.1: Deploy and update applications

Deploy apps by using Intune and assign apps to groups

Deploy apps by using Microsoft Store for Business

Enable sideloading of apps into images

Use Windows Configuration Designer to deploy apps

Configure and implement assigned access or public devices

Deploy Microsoft 365 Apps

Gather Microsoft 365 Apps readiness data

Skill 4.2: Implement Mobile Application Management

Plan and Implement App Protection policies

Plan and implement App Configuration policies

Secure data in Microsoft 365

Chapter summary

Thought experiment

Scenario 1

Scenario 2

Thought experiment answers

Scenario 1

Scenario 2

Index

