ProTech Professional Technical Services, Inc.

Course Outline

MOC 20697-2C: Deploying and Managing Windows 10 Using Enterprise Services

Course Summary

Description

This course provides administrators with the knowledge and skills necessary to deploy and manage Windows 10 desktops, devices, and applications in an enterprise environment. Students will learn how to plan and implement Windows 10 deployments in large organizations. Students will also learn how to manage the Windows 10 installations after deployment to provide secure identity and data access by using technologies related to User Experience Virtualization (UE-V), Group Policy, Work Folders and Client Hyper-V. To support a variety of device and data management solutions, Microsoft Azure Active Directory (Azure AD), Microsoft Intune, Microsoft Store for Business and Office 365 are used for device management. These services are part of the Enterprise Mobility+ Security, which provides identity and access management, cloud-based device management, application and update management, and more secure data access to information stored both on the cloud and onsite within your corporate network.

Objectives

By the end of this course, students will be able to:

- Manage PCs and devices in an enterprise environment.
- Deploy Windows 10 enterprise desktops.
- Manage Windows 10 sign-in and identity.
- Manage user profiles and User Experience Virtualization.
- Manage desktop and application settings by using Group Policy.

- Manage devices in Office 365.
- Manage PCs and devices by using Intune.
- Configure and using Microsoft Store for Business.
- Deploy apps and manage information access by using Intune.
- Manage data access for Windows-based devices.
- Configure and manage Client Hyper-V.

Topics

- Managing PCs and devices in an enterprise environment
- Traditional Windows 10 deployment in the enterprise
- Managing Windows 10 sign-in and identity
- Managing user profiles and User State Virtualization
- Managing desktop and application settings by using Group Policy
- Managing devices in Office 365

- Managing PCs and devices by using Microsoft Intune
- Configuring and using Microsoft Store for Business
- Deploying apps and managing information access by using Intune
- Managing data access for Windows-based devices
- Configuring and managing Client Hyper-V

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Course Summary (cont.)

Audience

This course is intended for IT professionals who are interested in specializing in Windows 10 desktop and application deployments and in managing the cloud-based application and data service environments for medium-to-large enterprise organizations. These professionals typically work with networks that are configured as Windows Server domain-based environments with managed access to the internet and cloud services.

Prerequisite

Students should have at least two years of experience in the IT field and should already have the following technical knowledge:
- Networking fundamentals, including Transmission Control Protocol /Internet Protocol (TCP/IP), User Datagram Protocol (UDP), and Domain Name System (DNS)
- Microsoft Active Directory Domain Services (AD DS) and Azure AD principles
- Windows Server 2016 fundamentals
- The Windows client operating system essentials; for example, working knowledge of Windows 10 and/or Windows 8.1

Duration

Five Days

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I. **Managing PCs and devices in an enterprise environment**
This module explains the most current trends and information related to desktop and device management in the enterprise. It also provides an overview of on-premises management compared to cloud-based IT management and services including an overview of Microsoft Enterprise Mobility + Security solution.
A. Managing Windows 10 in the enterprise
B. Managing a mobile workforce and supporting devices
C. Overview of Enterprise Mobility + Security

Lab : Planning for Windows 10 and device management in the enterprise
- Selecting the appropriate products and technologies for device management

II. **Traditional Windows 10 deployment in the enterprise**
This module explains the various deployment scenarios for Windows 10 and the considerations to keep in mind while performing these deployments. It also explains how to deploy Windows 10 by using the Windows Assessment and Deployment Kit (WADK). This module also explains how to maintain Windows 10 by using DISM and Windows Configuration Designer. Additionally, it explains the different types of volume activation technologies and tools to manage activation.
A. Overview of Windows 10 enterprise deployment
B. Customizing enterprise deployments
C. Maintaining a Windows 10 installation
D. Volume license activation for Windows 10

Lab : Deploying Windows 10 by using Windows ADK tools

- Creating a custom answer file and installing Windows 10
- Creating and deploying a provisioning package
- Generalizing and capturing Windows 10
- Creating and updating an image

III. **Managing Windows 10 sign-in and identity**
This module defines identity and explains why identity is important in today's network and cloud environments. It also provides an overview of Azure AD and how to extend on-premises identity to the cloud.
A. Overview of enterprise identity
B. Overview of Azure AD Premium P2
C. Extending identity to the cloud

Lab : Extending on-premises AD DS to Azure AD
- Activating a trial Azure subscription and creating an Azure AD tenant
- Managing Azure AD groups
- Configuring and enabling directory synchronization
- Joining Windows 10 to Azure AD

IV. **Managing user profiles and User State Virtualization**
This module explains different types of user profiles in domain environment, how to manage user profiles and user state using tools such as the User State Migration Tool (USMT) and Microsoft User Experience Virtualization (UE-V).Lessons
A. Managing user profiles and user state
B. Configuring UE-V
C. Managing user state migration

Lab : Configuring user profiles and User State Virtualization
- Configuring roaming user profiles and Folder Redirection
- Implementing and using UE-V
- Enterprise data roaming (optional)

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Course Outline (cont.)

Lab : Migrating user state by using USMT
- Capturing user state on the source computer
- Restoring user state on the destination computer

V. *Managing desktop and application settings by using Group Policy*
This module explains how to manage Group Policy inheritance, administrative templates, and common enterprise desktop settings. This module also explains how to apply Group Policy Preferences using targeting and filtering.
A. Managing Group Policy Objects
B. Configuring enterprise desktops by using Group Policy policies
C. Overview of Group Policy preferences

Lab : Configuring Group Policy policies and Group Policy preferences
- Managing Windows 10 by using Group Policy
- Configuring and applying Group Policy preferences

VI. *Managing devices in Office 365*
In this module students will learn about Office 365 and its main features. The focus of this module is on device management by using mobile device management for Office 365.
A. Overview of Office 365
B. MDM for Office 365

Lab : Managing devices in Office 365 (part 1)
- Obtaining an Office 365 subscription and enabling MDM Working with DLP

Lab : Managing devices in Office 365 (part 2)
- Configuring and testing MDM in Office 365

VII. *Managing PCs and devices by using Microsoft Intune*
This module explains how to manage devices by using Intune and how to perform basic Intune administration. You will also learn how to work with device profiles, configure conditional access and manage software updates.
A. Overview of Intune
B. Managing devices by using Intune
C. Basic Intune administration
D. Working with Intune device profiles
E. Conditional access with Intune
F. Managing software updates

Lab : Implementing Intune
- Adding Intune users
- Delegating permissions and using the Azure portal
- Enrolling Windows 10 to Intune
- Using the Microsoft Intune portal

Lab : Managing devices with Intune
- Working with Intune device profiles
- Configuring conditional access
- Configuring software updates
- Implement conditional access with Intune.
- Manage software updates.

VIII. *Configuring and using Microsoft Store for Business*
This module explains how to implement Microsoft Store for Business and how to deploy apps from Microsoft Store for Business. It also provide an overview of Windows AutoPilot and explains how to use it for Windows 10 deployment
A. Using Microsoft Store for Business for app deployment
B. Deploying Windows 10 by using Windows AutoPilot

Lab : Deploying apps and Windows 10 by using Microsoft Store for Business
- Signing up for and managing Microsoft Store for Business
- Using Microsoft Store for Business for deploying apps

Course Outline *(rotated left margin)*

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- Configuring Windows 10 by using Windows AutoPilot

IX. *Deploying apps and managing information access by using Intune*
This module explains how to use Intune for app deployment and management. It also explains how to configure and use WIP.
   A. App management by using Intune
   B. App deployment and management
   C. Working with WIP
   Lab : Deploying apps and managing information access by using Intune
   - Deploying apps by using Intune
   - Configuring and using WIP

X. *Managing data access for Windows-based devices*
This module explains how to provide secure access to organizational data. Solutions discussed include Work Folders and RemoteApp programs. This module also explains how to configure and share data stored in Microsoft OneDrive for Business.
   A. Overview remote data access solutions
   B. Implementing Work Folders
   C. Implementing cloud data access
   D. Publishing and using RemoteApp programs
   Lab : Implementing and using Work Folders
   - Configuring and deploying Work Folders
   - Using Work Folders
   Lab : Managing data access by using OneDrive
   - Configuring and using OneDrive for Business
   Lab : Publishing and using RemoteApp programs
   - Publishing RemoteApp programs
   - Accessing published RemoteApp programs

XI. *Configuring and managing Client Hyper-V*
This module explains how to create virtual switches, virtual hard disks, and virtual machines by using Client Hyper-V.
   A. Installing and configuring Client Hyper-V
   B. Configuring virtual switches
   C. Creating and managing virtual hard disks
   D. Creating and managing VMs