

(10974B) – Deploying and Migrating Windows Servers

OBJECTIVE

Get hands-on instruction and practice deploying and migrating roles and services with Windows Server 2012 and Windows Server 2012 R2 in this three-day Microsoft Official Course. In this course, you will learn how to plan for and deploy your Windows Server infrastructure in physical, virtual, and cloud environments. You will learn about different deployment methodologies and techniques, as well as general imaging usage and configuration. You will also learn how to use Windows Deployment Services (WDS) and how to work with deployment tools such as the Windows Assessment and Deployment Toolkit (Windows ADK), the Microsoft Assessment and Planning Toolkit (MAP), and the Microsoft Deployment Toolkit (MDT). You will also learn how to plan for virtualizing server workloads and considerations around technologies available for networking and storage, as well as considerations for specific applications such as SQL, Exchange, and other application workloads.

This course also focuses on migrating essential components within your server infrastructure to Windows server 2012 and Windows Server 2012 R2. It covers the migration of core infrastructure technologies such as migrating Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS), and Active Directory Domain Services (AD DS). This course also describes in detail the migration of File and Web servers, Hyper-V, Windows Update services (WSUS), and Active Directory Certificate Services (AD CS). It also covers consideration options available for extending some of your workloads into Microsoft Azure to allow for on- and off-premise as well as hybrid deployment scenarios.

The detailed hands-on labs, and in-depth content and learning provides you the knowledge and skills to deploy and migrate your Windows Server infrastructure and its constituent components with minimal overhead and cost for one-off or large scale deployments.

COURSE TOPICS

Module 1: Preparing to Deploy Windows Server 2012

- Planning a Windows Server 2012 Implementation
- Installing Windows Server 2012
- Configuring and Managing Servers Remotely
- Implementing a Volume Licensing Strategy

Module 2: Deploying Windows Server 2012

- Selecting a Suitable Deployment Method
- The Windows Assessment and Deployment Toolkit
- Overview of Image Files in the Deployment Process
- Working with Unattended Answer Files

Module 3: Implementing Lite-Touch Deployments

- Overview of MDT 2013
- Implementing Windows Deployment Services to Support Lite-Touch Deployments
- Configuring Microsoft Deployment Toolkit
- Performing Lite-Touch Deployments

Module 4: Planning to Virtualize Workloads

- Planning Server Virtualization Deployments
- Implementing Server Virtualization by Using Hyper-V
- Designing Virtual Machines

Module 5: Upgrading and Migrating Networking Services

- Migrating the DHCP Server Role
- Migrating the DNS Server Role
- Implementing IPAM

Module 6: Upgrading and Migrating Server Roles

- Upgrading and Migrating File Servers
- Migrating Web and Application Servers

Module 7: Upgrading and Migrating AD DS

- Overview of Windows Server 2012 AD DS Upgrade and Migration
- Upgrading Domain Controllers to Windows Server 2012
- Restructuring an Active Directory Domain
- Migrating Active Directory Certificate Services

Module 8: Migrating to Microsoft Azure

- Extending Virtualization to the Cloud Environment
- Overview of Azure Active Directory
- Implementing Azure Active Directory

After completing this course, students will be able to:

- Prepare to deploy Windows Server 2012.
- Describe the various methods of deploying Windows Server 2012.
- Deploy Windows Server 2012 by using Windows Deployment Services and MDT.
- Plan to virtualize workloads in a Windows Server 2012 environment.
- Upgrade and migrate core networking services to Windows Server 2012.
- Migrate file services and Web and application servers to Windows Server 2012.
- Upgrade and migrate AD DS to Windows Server 2012.
- Implement Microsoft Azure Active Directory (Microsoft Azure AD).

PREREQUISITES

Before attending this course, students must have:

- Knowledge and real-world experience working day to day with Windows Servers in an enterprise environment.
- Knowledge and experience with core infrastructure technologies such as DNS, DHCP, and AD DS.
- Knowledge and experience with virtualization technologies such as Hyper-V.
- Knowledge and experience with AD CS, WSUS, File, and Web servers. (This is beneficial but is not essential.)
- Some experience working with Windows Server 2012 or Windows Server 2012 R2. (This is beneficial but is not essential.)

TRAINING APPROACH

This course includes lectures, course notes, exercises and hands-on practice.

COURSE DURATION

12 Hours (in 2 days)

CERTIFICATION COMPLETION

A certificate of completion is provided for all trainees attending the course