

10974 - Deploying Windows Server

Duration: 3 days

Overview:

Get hands-on instruction and practice deploying 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 both physical and virtual environments. You will learn about different deployment methodologies and techniques, and work with lite-touch and zero-touch deployment options, as well as general imaging usage and configuration. You will also learn how to use Windows Deployment Services and how to work with solution accelerators, such as the Windows Assessment and Deployment Toolkit (Windows ADK), the Microsoft Assessment and Planning Toolkit (MAP), and the Microsoft Deployment Toolkit (MDT). These tools will help you increase your efficiency and reduce management overhead. The course will also cover essential components within your server infrastructure, such as upgrading and migrating Dynamic Host Configuration Protocol (DHCP), Domain Name System (DNS) and various Active Directory services, such as Active Directory Domain Services (AD DS), Active Directory Certificate Services (AD CS) and Active Directory Federation Services (AD FS). It will also cover options and considerations around virtualising those infrastructure workloads and options available for extending some of those workloads into Windows Azure.

Target Audience:

This course is intended for experienced IT Professionals who might have the following experience and background:

- IT professionals with real-world experience working in an enterprise environment where they are involved in physical and virtual server deployments and are looking to gain knowledge and training to streamline those tasks.
- IT professionals with real-

Module 1: Preparing to Deploy Windows Server 2012

Lessons

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

Lab 1: Planning to Implement Windows Server 2012

- Using the Microsoft Assessment and Planning Toolkit

Lab 2: Configuring and Managing Server Core

- Installing Server Core (optional)
- Configuring and Managing Server Core

Module 2: Deploying Windows Server 2012

Lessons

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

Lab 1: Deploying Windows Server with Answer Files

- Creating an Answer File
- Using the Answer File to Launch Deployment

Module 3: Using Windows Deployment Services

Lessons

- Overview of Windows Deployment Services
- Implementing Deployment with Windows Deployment Services
- Administering Windows Deployment Services

Lab 1: Using Windows Deployment Services

- Installing and Configuring Windows Deployment Services
- Creating Operating System Images with Windows Deployment Services
- Configuring Custom Computer Naming
- Deploying Images with Windows Deployment Services

Module 4: Implementing Microsoft Deployment Toolkit

Lessons

- Overview of MDT 2013
- Configuring Microsoft Deployment Toolkit
- Performing Lite-Touch Deployments
- Maintaining Images with MDT
- Performing Zero-Touch Deployments

Lab 1: Implementing Microsoft Deployment Toolkit

- Installing and Configuring MDT
- Creating and Customising a Task Sequence
- Configuring the Deployment Share
- Performing a Lite-Touch Deployment

Module 5: Planning to Virtualise Workloads

Lessons

- Overview of Microsoft Virtualisation
- Evaluating the Current Environment for Virtualisation
- Planning for Virtualisation

Lab 1: Planning to Virtualise Workloads

- Planning a Server Consolidation and Virtualisation Strategy
- Evaluating Virtualisation Candidates

Module 6: Upgrading and Migrating Networking Services

Lessons

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

Lab 1: Upgrading and Migrating Network Services

- Migrating the DHCP Server Role
- Migrating the DNS Server Role

Lab 2: Implementing IPAM

- Deploying and Configuring IPAM

Module 7: Upgrading and Migrating Server Roles

Lessons

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

Lab 1: Migrating File Services

- Preparing to Migrate to the File and Storage Services Role
- Migrating to the File and Storage Services Role

Lab 2: Preparing and Migrating a Web Server

- Preparing to Migrate a Web Server
- Migrating a Web Server

world experience working in a Windows Server 2008 environment and are preparing for a Windows Server 2012 deployment.

- IT professionals working in small to medium enterprises who manage server deployments.
- IT professionals who have skills in other areas, such as general system administration, and are looking for knowledge and skills for career development in Windows Server deployments.

Pre-requisites:

Before attending this course, students must have:

- Knowledge and real-world experience working day to day with computers running the Windows Server and Windows operating systems in an enterprise environment.
- Knowledge and experience with Active Directory services, such as AD DS, AD CS, and AD FS.
- Experience working with Windows Server 2012 or Windows Server 2012 R2.

At Course Completion:

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.
- Deploy Windows Server 2012 by using MDT.
- Plan to virtualise workloads in a Windows Server 2012 environment.
- 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.
- Migrate AD FS, AD RMS, AD CS to Windows Server 2012 and implement Windows Azure Active Directory.

Module 8: Upgrading and Migrating AD DS

Lessons

- Windows Server 2012 AD DS Upgrade and Migration Overview
- Upgrading Domain Controllers to Windows Server 2012
- Restructuring a Domain

Lab 1: Upgrading AD DS to Windows Server 2012

- Preparing the Forest for Upgrade
- Deploying a Windows Server 2012 Domain Controller
- Removing Legacy Domain Controllers

Module 9: Migrating Additional Active Directory-Related Roles and Services

Lessons

- Migrating AD CS
- Migrating AD FS
- Migrating AD RMS
- Overview of Windows Azure AD
- Implementing Windows Azure AD

Lab 1: Migrating AD CS

- Preparing to Migrate AD CS
- Migrating AD CS

Lab 2: Implementing Windows Azure AD

- Implementing Windows Azure AD for Office 365
- Implementing Windows Azure AD for a Cloud-Based Application