



Course 6417B: Updating your Applications Infrastructure Technology Skills to Windows Server 2008

Introduction

The course provides students with an understanding of Applications Infrastructure technologies in Windows Server 2008. This course is intended to allow individuals who already have experience with Applications Infrastructure technologies in Windows 2000 Server or Windows Server 2003 to upgrade their skills to Windows Server 2008.

Duration: 3 Days

At Course Completion

At the end of the course, students will be able to:

- Understand the responsibilities of an Oracle Database Administrator (DBA)
- Define and understand the Oracle architecture, components, functions, and processes
- Define and size the System Global Area (SGA) Cache
- Install the Oracle10g software
- Start up and shut down a database using Oracle Enterprise Manager
- Create and define the logical and physical structure of an Oracle10g database
- Define SQL Statement Processing
- Manage Undo Data and security
- Manage Data using Import, Export and SQL*Loader
- Configure Oracle Net Services

Who needs to attend

This course is intended for IT Professionals experienced on the technologies included in Windows Server 2000 and Windows Server 2003, and who hold an MCSE or MCSA certification and/or equivalent knowledge.

Prerequisites

Before attending this course, students must have one or more of the following:

- On-the-job experience in planning, implementing, managing, or supporting Microsoft Windows Server 2000 or 2003, including Active Directory and Network Infrastructure.



- Working knowledge of networking, for example, TCP/IP and Domain Name System (DNS).
- Designed a Microsoft Windows Server 2003 Active Directory and Network Infrastructure.
- Designed Security for a Microsoft Windows Server 2003 Network.
- Installed, Configured, and Administered Microsoft Windows 2000, Windows XP Professional, or Microsoft Vista.

Course Outline:

Module 1: Server Roles and Initial Configuration Tasks

This module introduces Application Server Roles, describing Application Server features in Windows Server and demonstrating initial configuration and Unix interoperability.

Lessons

- Application Server Roles
- Application Server Features
- Implement a Volume Licensing Strategy using KMS and MAK

Lab : Server Roles and Configuration Tasks

- Perform Initial Configuration Tasks
- Add Windows Features

After completing this module, students will be able to:

- Identify and install application server roles that are integrated with Windows Server 2008.
- Identify and install Windows application server features available with Windows Server 2008.
- Implement Windows Activation 2.0.

Module 2: Overview of IIS 7.0 Application Server

This module introduces IIS 7.0 modular architecture, in which more than 40 features can be independently installed. It also demonstrates new scripting interface features and distributed configuration files.

Lessons

- Review of IIS 6.0
- Review SMTP in Windows Server 2008
- Key Improvements in IIS 7.0
- IIS 7.0 Configuration System
- Adding the SMTP Feature

Lab : Introducing IIS 7.0

- Adding the Web Server Role and Additional Services
- Reviewing the IIS 7.0 Administration Interface
- Add an ASP.NET Application

After completing this module, students will be able to:

- Review key IIS 6.0 design elements.
- Install and configure the SMTP feature.
- Identify key improvements in IIS 7.0.
- Describe the new IIS 7.0 configuration system.

Module 3: Managing Web Applications with IIS 7.0

This module covers several aspects of server management in IIS 7.0. IIS can be configured using the IIS Manager graphical user interface or using several configuration files. It also explores the appcmd.exe command line utility as it is used for server administration.

Lessons

- Managing IIS 7.0
- Using Hierarchical Configuration Settings
- Delegating Configuration to Non-Administrator Users

Lab : Managing Web Applications with IIS 7.0

- Using IIS 7.0 Configuration Files to Control Delegation
- Extending the User Interface with Custom Features
- Controlling Delegation Using Locking
- Using IIS 7.0 to Configure SSL

After completing this module, students will be able to:

- Explain management approaches for IIS 7.0.
- Use the IIS 7.0 configuration system.
- Grant non-administrative users access to IIS 7.0 configuration settings.

Module 4: Troubleshooting Web Servers

This module describes and demonstrates IIS 7.0 features for troubleshooting, including Runtime Control and Status API, Automatic Failed Request Tracing, and Trace Events.

Lessons

- Troubleshooting IIS 7.0
- Using the Runtime Control and Status API
- Using Automatic Failed Request Tracing
- Adding Trace Events to Managed Modules

Lab : Troubleshooting Web Servers

- Tracing Failed Requests
- Using RSCA to View Executing Requests
- Using Managed APIs to Access RSCA Data
- Using Trace Events in ASPX Pages
- Adding Trace Events to Managed Modules

After completing this module, students will be able to:

- Use IIS 7.0 troubleshooting features to gather troubleshooting information.
- Use the Runtime Control and Status API.
- Use Automatic Failed Request Tracing.
- Add trace events to managed modules.

Module 5: Introduction to the Windows SharePoint Services 3.0 Platform

This module describes and demonstrates Windows SharePoint Service 3.0, including planning for implementation and performing a new installation.

Lessons

- Overview of Windows SharePoint Services
- Collaborative Technologies with WSS
- Planning the WSS 3.0 Environment
- Installing and Configuring WSS 3.0

Lab : Introduction to the Windows SharePoint Services 3.0 Platform

- Installing and Configuring the Central Administration Site
- Creating a Site Connection

After completing this module, students will be able to:

- Describe Windows SharePoint Services 3.0.
- Describe document collaboration with Windows SharePoint Services 3.0.
- Plan all components of a Windows SharePoint Services 3.0 Deployment.
- Install and Configure Windows SharePoint Services 3.0.

Module 6: Configuring and Managing Windows SharePoint Services 3.0

This module describes and demonstrates how to configure and manage Windows SharePoint Services 3.0, including creating and configuring sites and managing sites and servers.

Lessons

- Creating and Configuring Sites2
- Managing Windows SharePoint Services 3.0

Lab : Configuring and Managing Windows SharePoint Services 3.0

- Starting the Windows SharePoint Services Search Service



- Configuring Alternate Access Mappings
- Managing Site Settings
- Troubleshooting WSS 3.0 Server Performance Issues

After completing this module, students will be able to:

- Create and configure WSS 3.0 sites.
- Manage WSS 3.0 sites.

Module 7: Configuring Terminal Services

Terminal Services has been updated with Windows Server 2008, including changes to Terminal Services core. This module covers the new Terminal Services core functionality as well as Terminal Services Web Access and Terminal Services Licensing.

Lessons

- Terminal Services Overview
- Terminal Services Core Functionality
- Terminal Services Web Access
- Terminal Services Licensing

Lab : Exploring Terminal Services

- Installing Terminal Services
- Remote Desktop Connection
- Configure TS Web Access

After completing this module, students will be able to:

- Describe how the components of Terminal Services work together.
- Identify new Terminal Services core features.
- Use Terminal Services Web Access.
- Describe Terminal Services Licensing.

Module 8: Managing Terminal Services

With Windows Server 2008 Remote Programs are accessed remotely through Terminal Services. Terminal Services Gateway can be used to help secure access to Remote Programs. This module describes and demonstrates using Terminal Services management consoles and Event Viewer as well as using Terminal Services with Windows System Resource Manager to optimize performance.

Lessons

- Terminal Services RemoteApp Programs
- Terminal Services Gateway
- Managing Terminal Services

Lab : Managing Terminal Services

- Using Terminal Services RemoteApp Programs

- Configuring Terminal Services Gateway
- Managing TS Remote Programs
- Managing Terminal Server
- Optimizing Terminal Services Performance

After completing this module, students will be able to:

- Use and manage Terminal Services RemoteApp programs.
- Use and manage Terminal Services Gateway.
- Optimize and monitor Terminal Services.

Module 9: Configuring Storage

One of the tasks that you perform when administering a server is managing disks. You will need to understand the Microsoft Windows Server 2008 tools that are available to set up and manage disks and disk drives. This understanding also allows users to employ advanced features, such as creating a mounted drive and importing a foreign disk.

This module covers these tasks and describes how to use the tools to manage and set up disks.

Lessons

- Preparing Disks
- Managing Disk Properties
- Managing Mounted Drives
- Converting Disks
- Creating Volumes
- Creating Fault-Tolerant Volumes

Lab : Configuring Storage

- Configure partitions and file systems
- Configure Volumes

After completing this module, students will be able to:

- Initialize and partition a disk.
- View and update disk properties.
- Manage mounted drives.
- Convert a disk from basic to dynamic and from dynamic to basic.
- Create volumes on a disk.
- Create fault-tolerant volumes.