

KOENIG SOLUTIONS • COURSE OUTLINE

10972-B: Administering the Web Server (IIS) Role of Windows Server

Learn to install, configure, secure, monitor and scale websites and applications on the IIS 8.5 web server role.

13

MODULES

37

TOPICS

25

HANDS-ON LABS

COURSE OVERVIEW

This course covers installing Internet Information Services and configuring the default website, including DNS records, virtual directories and application pools. It continues with creating additional websites with unique bindings, configuring common features and web application support, and securing sites through authentication, authorization and SSL certificates, including the Centralized Certificate Store. It then addresses remote administration, FTP site implementation, monitoring IIS logs and performance counters, and backing up and restoring IIS. The course concludes with building load-balanced web farms using ARR, shared folders, DFS-R and shared IIS configurations.

WHO THIS COURSE IS FOR

Web Administrators

System Administrators

IT Professionals

Network Administrators

Web Server Operators

LEARNING OBJECTIVES

- Install Internet Information Services and describe its architecture
- Configure the default website, DNS records and virtual directories
- Create and manage application pools and recycling settings
- Create additional websites using unique bindings
- Configure common features and web application support
- Configure authentication, authorization and URL authorization rules
- Implement SSL certificates and the Centralized Certificate Store
- Configure remote administration, FTP sites and web farms

13 Modules, 37 Topics

01

Lab

Understanding and Installing Internet Information Services

In this module, you will learn about the infrastructure prerequisites for using Microsoft Internet Information Services (IIS) 8.5. Students will also learn about the high-level architecture of IIS, and will learn to perform a basic installation and configuration of IIS.

TOPICS

Understanding a Web Server infrastructure · Installing Internet Information Services

02

Lab

Lab

Configuring The Default Website

In this module students will learn to plan and implement network requirements for a public website. Students will configure Domain Name Service (DNS) records to support access to both internal and public websites, and create virtual directories and application folders for additional website content.

TOPICS

- Examining the Default Website Using IIS Manager
- Examining the Default IIS File Structure
- Configuring DNS Records for a Website
- Creating Folders, Virtual Directories, and Applications

03

Lab

Lab

Configuring and Managing Application Pools

In this module students will learn the benefits to the application pool architecture. Students will create and configure application pools to support additional applications and configure application pool recycle settings. Students will perform recycle events and examine the event logs for recycle events.

TOPICS

Defining the Application Pool Architecture · Creating and Managing Application Pools · Configuring Application Pool Recycling

04

Lab

Lab

Creating Additional Websites

In this module students will learn how to examine and create new websites using unique bindings to avoid naming conflicts. Students will examine existing sites to determine and resolve binding conflicts then create new websites by using unique bindings.

TOPICS

- Understanding Configurations for Multiple Websites
- Configuring Website Bindings
- Creating and Starting Websites

05

Lab

Lab

Configuring Website and Web Application Support

In this module students will learn to support additional application requirements including common configuration settings, platform support from the built-in web server, and include additional application support by using the Web Platform Installer.

TOPICS

Configuring Common Features · Configuring Support for Web Applications

06

Lab

Lab

Securing Websites and Applications

In this module students will learn to secure internal and public websites for users and groups by using the built-in Windows and Basic authentication. Students will configure file system permissions for specific users and groups and secure a website using URL Authorization Rules.

TOPICS

- Understanding IIS Authentication and Authorization
- Configuring Authentication and Authorization
- Configuring URL Authorization Rules

07

Lab

Lab

Securing Website Data Transmission

In this module students will protect customer data using websites configured for SSL. Students will install and configure PKI certificates on a web server, create secured bindings, and verify that a website data transmissions are secured.

TOPICS

Understanding Certificates and SSL · Creating and Managing Web Server Certificates · Configuring HTTPS Bindings

08**Lab**

Managing Certificates in the Centralized Certificate Store

In this module students will install and configure the IIS 8.5 Central Certificate Store to enable centralized and improved certificate management, Students will configure a website to use a secured binding with the Central Certificate Store.

TOPICS

- Understanding the Centralized Certificate Store
- Installing and Configuring the Centralized Certificate Store

09**Lab****Lab****Lab**

Configuring Remote Administration

In this module students will configure secured remote management of web servers and websites. Create and configure permissions for site level administrators and developers, and verify web server and website management.

TOPICS

- Installing and Configuring the Management Service
- Connecting to Remote Web Servers and Websites
- Delegating Management Permissions

10**Lab**

Implementing FTP

In this module students will learn configure a secured FTP site for users to store and retrieve files. Student will configure authentication, authorization and the FTP storage location. Students will retrieve and files using the native Windows FTP command.

TOPICS

Planning for FTP · Implementing an FTP site · Uploading and Downloading by Using FTP

11**Lab****Lab**

Monitoring IIS

In this module students will learn to monitor IIS log files and performance counters using Log Parser and PerfMon. Students will identify common issues related to performance and attacks recorded in the log files.

TOPICS

Monitoring IIS Logs · Analyzing Performance Counters

12

Lab

Backing Up and Restoring IIS

In this module students will learn to backup and recover from a website or web server failure. Students will learn the importance of using high available techniques to avoid the recovery process.

TOPICS

- Understanding IIS Backup and Recovery Components
- Backing Up and Recovering a Website

13

Lab

Lab

Lab

Lab

Building Load-Balanced Web Farms

In this module students will learn to increase reliability and performance of website by creating a web farm. Students will improve the management and update capabilities of the websites by using shared content in both a network share and DFS-R. Student will improve web server and website management by using Shared Configurations.

TOPICS

- Understanding Load-Balancing Mechanisms
- Building a Load-Balanced Web Farm by Using ARR
- Sharing Content in a Web Farm by Using Shared Folders
- Sharing Content in a Web Farm by Using DFS-R
- Sharing IIS Configurations in a Web Farm

HANDS-ON LABS

Practise What You Learn

#	MODULE	ACTIVITY
01	Understanding and Installing Internet Information Services	Installing Internet Information Services
02	Configuring The Default Website	■ Configuring the Default Website for Public Access ■ Creating Virtual Directories and Applications
03	Configuring and Managing Application Pools	■ Configuring and Managing Application Pools ■ Configuring Application Pool Recycling
04	Creating Additional Websites	■ Examining Existing Websites for Binding Conflicts ■ Creating New Websites
05	Configuring Website and Web Application Support	■ Configuring Common Features ■ Configuring Support for Web Applications

#	MODULE	ACTIVITY
06	Securing Websites and Applications	■ Configuring Authentication and Access ■ Configuring URL Authorization Rules
07	Securing Website Data Transmission	■ Creating and Managing Web Server Certificates ■ Adding a Certificate to a Website
08	Managing Certificates in the Centralized Certificate Store	Installing and Configuring the Centralized Certificate Store
09	Configuring Remote Administration	■ Installing and Configuring the Management Service ■ Connecting to Remote Web Servers and Websites ■ Delegating Management Permissions
10	Implementing FTP	Installing and Configuring an FTP Site
11	Monitoring IIS	■ Monitoring IIS Logs ■ Analyzing Performance Counters
12	Backing Up and Restoring IIS	Backing Up and Recovering Configuration History
13	Building Load-Balanced Web Farms	■ Building a Load-Balanced Web Farm by Using ARR ■ Sharing Content in a Web Farm by Using Shared Folders ■ Sharing Web Farm Content by Using DFS-R ■ Sharing IIS Configurations in a Web Farm

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Delivery by certified instructors and subject matter experts
- Hands-on exercises throughout the course
- Course completion certificate from Koenig

ABOUT KOENIG

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

FLEXIBLE DELIVERY

Learn the Way That Suits You

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Live Online Classes (ILO)

Fly-Me-A-Trainer (FMAT)

Flexi (Self-Paced)

1-on-1 Training

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