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

Modality: Virtual Classroom

Duration: 5 Days

SATV Value: 5

About this course:

There are numerous Internet Information Services tools and products that require in-depth knowledge and technical expertise to handle. That's exactly what this course is all about. With this course we aim at teaching students a wide range of related pre-requisite courses so students are able to find best possible solutions in terms of web servers. Students enrolled in the Microsoft SQL Server training program will get a chance to learn directly from certified professionals from the field who are capable of managing the biggest of problems. The vast variety of applications and its knowledge helps students become experts in managing SharePoint and Exchange, both of which are IIS products. With the assistance of the knowledge learnt in this course, students can easily prepare and appear for their Microsoft 70-410 certification exam.

Course Objectives:

After completing this course, students will be able to:

- Install IIS

- Configure the default web site

- Configure and manage application pools

- Create additional web sites

- Configure web sites and application support

- Secure web sites and applications

- Secure web site data transmission

- Manage certificates in the Centralized Certificate Store

- Configure remote administration

- Implement FTP

- Monitor IIS

- Backup and restore IIS

- Build load-balanced web farms

Audience:

This course is intended for IT Professionals already experienced in general Windows Server and Windows Client administration. No prior experience with any version of Internet Information Services is assumed.

Prerequisites:

In addition to their professional experience, students who attend this training should already have the following technical knowledge:

- Experience with Windows networking technologies and implementation.

- Experience with Windows Server administration, maintenance, and troubleshooting.

- Experience with Windows Client administration, maintenance, and troubleshooting.

Course Outline:

Module 1: Overview and Installing Internet Information Services
In this module students will learn about the network infrastructure planning and common concerns with implementing a web server. Students will perform an installation of IIS and verify the working web server by testing the default created website.

Lessons

- Understanding a Web Server infrastructure
- Installing Internet Information Services

Lab : Installing Internet Information Services

- Performa default installation of Internet Information Services
- Verify and test the installationof adefault installation of Internet Information Services
- Describe the network infrastructure requirements for IIS.
- Explain the communication process between a web server and a browser.
- Perform a default installation of Internet Information Services.
- Verify and configure the Windows Firewall for use with IIS.
- Test a website by using a browser.

Module 2: Configuring The Default Website
In this module students will learn to plan and implement network requirements for a public website. Students will configure DNS records to support access to internal and public websites and create

virtual directories and application folders for additional website content.

Lessons

- Examining the Default Website using IIS Manager
- Examining the Default IIS File Structure
- Configuring DNS records for a website
- Creating virtual directories and Applications

Lab : Configuring the Default website for public access

- Configure DNS records for both the internal and public website access
- Verify and test the internal and public website access using the DNS FQDN

Lab : Creating Virtual Directories and Applications

- Create additional content location in the current website
- Describe the default IIS folder structure to support a website.
- Create a web page for site testing and verification.
- Install additional required Role services to support a web application.
- Plan the network and DNS records for internal and public website access.
- Configure DNS records for an internal and public website.
- Create normal folders, virtual directories and applications in a website for additional content.
- Verify the new working website and content.

Module 3: 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.

Lessons

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

Lab : Configuring and Managing Application Pools

- Create and configure additional application pools

Lab : Configuring Application Pool Recycling

- Configure application pool recycle settings
- Perform recycling of an application pool and examine event logs for recycle events
- Describe the benefits of the application pool architecture.
- Configure application pools to support applications.
- Configure application pool recycle settings.
- Perform and examine application pool recycling.

- Examine event logs for recycle events.

Module 4: 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.

Lessons

- Understanding multiple websites on a single server
- Examining and configuring the website bindings
- Creating New Websites

Lab : Examining the existing websites and bindings for conflicts

- Examine several websites and determine if binding conflicts exist

Lab : Creating new websites

- Create new websites with unique bindings
- Describe the purpose to website common settings and bindings
- Examine existing websites for binding conflicts
- Create new websites by using unique port bindings
- Create new websites by using unique virtual IP addresses
- Create new websites by using hostname bindings.

Module 5: 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.

Lessons

- Configuring Common features
- Adding support for web applications

Lab : Configuring Common Features

- Configure and test common configuration settings

Lab : Adding support for web applications

- Install and configure additional application support
- Identify the IIS configuration files.
- Configure common website and application settings.
- Install and configure built-in application platform support.
- Install and configure additional application support using the Web Platform Installer.

Module 6: 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.

Lessons

- Defining Access Control for Web Servers, Sites and Applications
- Configuring Authentication and permissions
- Enabling URL Authorization Rules

Lab : Configuring Authentication and permissions

- Install and configure the authentication mechanisms required to support both internal and public websites
- Configure file system permissions and application pool permissions

Lab : Enabling URL Authorization Rules

- Secure a website for users and groups using URL Authorization Rules
- Describe the authentication mechanisms to secure internal and public websites.
- Describe the process of assigning file system permissions for users and groups.
- Install and configure Windows and Basic authentication.
- Configure the file system permissions for a website.
- Configure website security using URL Authorization Rules.

Module 7: Securing Data Transmissions with SSL

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.

Lessons

- Understanding Certificates and SSL
- Creating certificates for a web server
- Adding a certificate to a website

Lab : Creating and installing a self-signed certificate

- Create a self-signed certificate to secure a website

Lab : Adding a certificate to a website

- Create a HTTPS binding to secure a website
- Describe the PKI infrastructure for securing IIS with certificates
- Explain the process of obtaining and installing certificates for internal and public websites.
- Install and configure a certificate to secure a website.

Module 8: Using the Central 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.

Lessons

- Understanding the Central Certificate Store
- Installing and configuring the Central Certificate Store

Lab : Installing and Configuring the Central Certificate Store

- Configure the environment to store certificates for CCS
- Describe the architecture of the Central Certificate Store
- Plan for certificate storage
- Install and configure CCS
- Secure a website using a certificate in CCS

Module 9: 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.

Lessons

- Installing and Configuring the Management Service
- Connecting to remote web servers and websites
- Delegating Management Access

Lab : Installing and Configuring the Management Service

- Install and configure the management service

Lab : Connecting to remote web servers and web