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IIS Web Hosting Training

3 days (21 hours)

Overview

IIS Web Hosting is the native web hosting platform for Microsoft Windows Server. This solution enables you to deploy and manage web sites, applications and services thanks to centralized configuration and advanced functionalities. IIS runs ASP.NET, PHP or static applications, with advanced security, optimization and automation options.

Our IIS Web Hosting training course will enable you to master the configuration, deployment and securing of applications on Windows Server. You'll learn how to manage Application Pools, configure SSL bindings and certificates, optimize performance, set up caching and monitoring, and automate with PowerShell and Web Deploy.

You'll be able to deploy ASP.NET and PHP applications, integrate IIS into multi-environment architectures, and ensure maintenance and high availability of web services. The course covers security and performance best practices, as well as integration with DevOps tools and reverse proxies.

Like all our training courses, this one is based on the latest stable version of [IIS 10.0 v1809](#).

Objectives

- Understand IIS architecture and components
- Install and configure IIS on Windows Server
- Manage Application Pools and security
- Deploy ASP.NET and PHP web applications
- Optimize performance and set up monitoring
- Automate administration and deployments

Target audience

- Windows system administrators
- .NET developers
- Web integrators
- IT managers

Prerequisites

- Basic knowledge of Windows Server
- Notions of networks and HTTP/HTTPS protocols
- Experience in system administration recommended

IIS Web Hosting training program

Introduction to IIS and its environment

- Introduction to IIS and its role in web hosting on Windows Server
- Client-server architectures and HTTP/HTTPS protocols
- Installing IIS via Server Manager and PowerShell
- Managing IIS roles and functionalities
- Key components: Worker Processes, Application Pools, Sites
- Workshop: Complete IIS installation and configuration of a first website

Configuring sites and applications

- Creating and managing websites and virtual applications
- Setting bindings (ports, IP, host names)
- Virtual and physical directories
- SSL/TLS certificate management for HTTPS
- Setting HTTP headers and compression
- Workshop: Putting a site online with a self-signed SSL certificate

Application pool management

- Role of Application Pools in IIS
- Pipeline modes: Classic vs. Integrated
- Identities and isolation levels
- Resource management and automatic recycling
- Debugging and diagnosing applications
- Workshop: Dedicated Application Pool and deployment of a .NET application

Security and authentication

- Authentication options: Anonymous, Windows, Basic, Digest, Forms
- Authorization by IP and domain
- Request filtering and URL restrictions

- Force HTTPS and manage redirects
- Active Directory integration for access control
- Workshop: Secure site with Windows authentication and IP restrictions

Performance management and optimization

- Enabling and configuring server-side caching
- Static and dynamic compression
- Optimizing Worker Process parameters
- Monitoring via IIS Manager and PerfMon
- Bandwidth and connection limits
- Workshop: Caching rules to improve response time

Monitoring and logging

- IIS log configuration and formats
- Log analysis for error diagnosis
- Using Failed Request Tracing
- Integration with Event Viewer and external tools
- Key metrics and HTTP codes to monitor
- Workshop: Log analysis to identify the causes of 500/404 errors

Deploying applications on IIS

- Deploying ASP.NET, PHP and static applications
- Automating uploads with Web Deploy
- Visual Studio integration for deployment
- Management of dependencies and environment variables
- DEV / TEST / PROD configurations
- Workshop: Automated deployment of an ASP.NET application via Web Deploy

Integration and advanced administration

- IIS reverse proxy and load balancer (ARR)
- URL rewriting with URL Rewrite
- Remote administration via PowerShell and IIS Remote Management
- Interop with third-party reverse proxies
- Good backup and restore practices
- Workshop: Reverse proxy with URL Rewrite

Maintenance and best practices

- Backup strategies and DRP
- Security updates and patches
- Documentation and standardization of configurations
- Regular performance and availability checks

- Adopting DevOps practices with IIS
- Workshop: IIS maintenance and supervision plan

Companies concerned

This course is aimed at both individuals and companies, large or small, wishing to train their teams in a new advanced IT technology, or to acquire specific business knowledge or modern methods.

Positioning on entry to training

Positioning at the start of training complies with Qualiopi quality criteria. As soon as registration is finalized, the learner receives a self-assessment questionnaire which enables us to assess his or her estimated level of proficiency in different types of technology, as well as his or her expectations and personal objectives for the forthcoming training course, within the limits imposed by the selected format. This questionnaire also enables us to anticipate any connection or security difficulties within the company (intra-company or virtual classroom) which could be problematic for the follow-up and smooth running of the training session.

Teaching methods

Practical training: 60% hands-on, 40% theory. Training material distributed in digital format to all participants.

Organization

The course alternates theoretical input from the trainer, supported by examples, with brainstorming sessions and group work.

Validation

At the end of the session, a multiple-choice questionnaire verifies the correct acquisition of skills.

Certification

A certificate will be awarded to each trainee who has completed the entire course.