



Duration: 5 days

Masterclass:

Internet
Information
Services
Management

CQURE

Warsaw New York Dubai Zug

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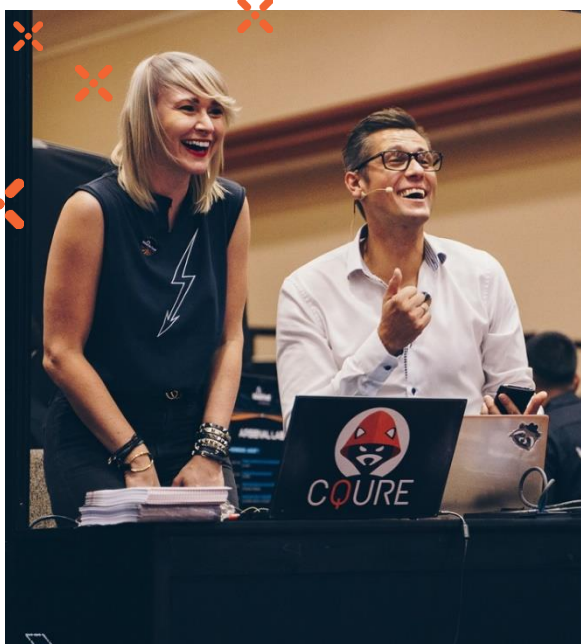
www.cquire.pl
www.cquireacademy.com





Paula Januszkiewicz is a world-renowned cybersecurity Expert, a founder of CQURE and CQURE Academy, and Microsoft Regional Director and MVP.

CQURE Academy focuses on cybersecurity training program consisting of over high-quality 20 technical workshops and seminars and providing certification to specialists. Additionally, in October 2016 CQURE has successfully launched online and subscription-based training. **CQURE Experts** speak at international events and engage in multiple cybersecurity projects – they bring their knowledge and experience to trainings. CQURE Academy also involves R&D – that is why CQURE Team is recognizable in the cybersecurity field.



About the course

Internet Information Services is a solution that can be delivered in a couple of hours as well as in 3 weeks – we practiced both options! IIS is a never-ending subject that requires a deep-dive if you consider using it for web farm administration or if you want to become familiar with IIS behavior in particular situations. During this intensive 5-day training students will be introduced to the process of configuring advanced IIS features, configuring security settings, performing advanced troubleshooting and monitoring. You will learn everything you need to maintain and provide availability to business Web Application platform.



Paula says: „You will not find better course on IIS! Once CQURE team delivered IIS course for our Customer for 3 weeks – can you imagine that this was not enough? IIS is such a great and enormous platform! Everybody uses it but we are not quite sure how it works. I am really excited to explain all details – always.”

Target audience

Enterprise administrators, web administrators, infrastructure architects, security professionals, systems engineers, network administrators, IT professionals, security consultants and other people responsible for implementing network and perimeter security.

Prerequisites

To attend this training, you should have Windows Server Management and basic Web Server technologies experience.

Materials

Author's unique tools, over 150 pages of exercises and presentations slides with notes.

Agenda

Module 1: Introducing, installing and configuring IIS 10 on Windows Server 2019

1. Introducing Internet Information Services 10
 - a. Administration tools
 - b. Architecture overview
 - c. Configuration System overview
2. Comparing previous versions of IIS
3. Installing the Web Server (IIS) role in Windows Server 2019
 - a. Discussing the deployment scenarios
 - b. Using Server Manager
 - c. Using Unattended Setup
 - d. Using Command Line
 - e. Troubleshooting installation
4. Post-installation administration tasks
 - a. HTTP Features
 - b. Security Settings
 - c. Logging

Module 2: Administering Web Sites

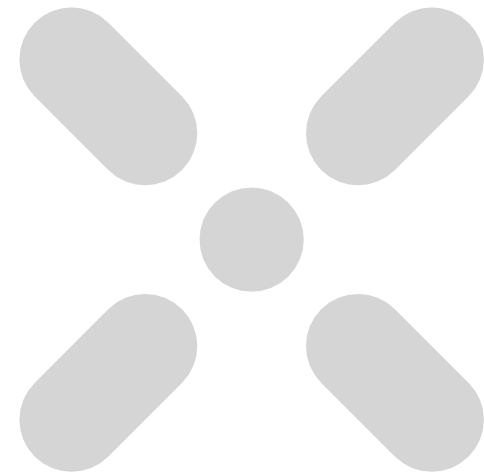
1. Creating a Web Site, Application, Virtual DirectoryV
2. Managing Security settings for Web Sites
3. Administering Web Site logging
4. Configuring Failed Request Tracing
5. Managing Virtual Directories and remote content
6. Configuring Authentication Types
7. Configuring Bindings

Module 3: Administering Applications and Application Pools

1. Managing Application Pools and Applications
2. Global Application Initializations
3. Managing Application Pool Identity
4. Managing Worker Processes and requests
5. CPU Throttling: Sand-boxing Sites and Applications
6. Idle Worker Process Page-Out

Module 4: Configuring Application Development Settings

1. ASP.NET Security Settings
2. ASP.NET Application Development Settings
3. Configuring ASP.NET
4. Working with .Net Core



Module 5: IIS 10 functionality extensions

1. Architecture Extensions
 - a. CGI
 - b. FastCGI
 - c. ISAPI
 - d. ASP
2. Managing Extensions
 - a. Security
 - b. Delegation
3. Functionality Extensions
 - a. PHP
 - b. WebDAV
 - c. Media Services
 - d. URL Rewrite
4. Performance Extensions
 - a. Application WarmUp
5. Security Extensions
 - a. URLScan / URLRewrite
 - b. Dynamic IP Restrictions
6. Administrative extensions

Module 6: Managing IIS 10 Modules

1. Adding IIS 10 Modules
2. Administering IIS 10 Modules

Module 7: Securing the IIS 10 platform and web environment

1. Configuring security settings on Windows Server 2019
2. Centralized SSL Certificate Support
3. Secure Web Site settings
4. Configuring authentication and authorization
5. Restricting Web Site access
6. Secure Web Server implementation scenario

Module 8: IIS 10 Remote Management

1. Enabling and configuring remote administration
2. Enabling and configuring delegated administration
3. Enabling and configuring feature delegation
4. Managing application Host.config and Web.config access levels
5. Security considerations for remote management

Module 9: Configuring FTP Server on IIS 10

1. Managing FTP Authentication
2. Managing FTP Authorization
3. Configuring FTP Logging
4. Configuring FTP Logon Attempt Restrictions
5. Administering FTP Request Filtering
6. Configuring FTP User Isolation

Module 10: Managing IIS 10 from the command line

1. Tools overview
2. Advanced management with PowerShell
3. Tools for Running Administrative Tasks in IIS
4. Automating management with Appcmd
5. IIS 10 and scripting
6. 3rd party management tools

Module 11: Tuning IIS 10 health and performance

1. Performance monitoring techniques
2. Monitoring IIS 10 under attack
3. Optimizing IIS 10 settings for better performance
4. Implementation scenarios analysis
5. Dynamic site activation
6. Idle Worker Process Page-out
7. HTTP/2

Module 12: Administering Web Server Availability with Web Farms

1. Shared Configuration
2. Advanced Network Load Balancing settings and configuration
3. Building the Web Farm
4. Managing the Web Farm
5. Automating tasks in multiple server IIS 10 environment
6. Policy based management
7. Server Name Indication (SNI) – SSL Scalability
8. Backing Up an IIS Web Site
9. Restoring an IIS Web site
10. Application Request routing

Module 13: IIS 10 Diagnostics

1. Auditing IIS 10 logs
2. Enhanced Logging
3. Logging to Event Tracing for Windows
4. Common error messages and examples
5. Auditing communication problems and examples
6. Troubleshooting authentication problems
7. Troubleshooting authorization problems
8. Managing and understanding problems with configuration