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## Masterclass Internet Information Services Management

**Duration: 4 Days**    **Course Code: AIISM**    **Delivery Method: Virtual Learning**

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### Overview:

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

About the course: During this intensive 4-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.

### Virtual Learning

This interactive training can be taken from any location, your office or home and is delivered by a trainer. This training does not have any delegates in the class with the instructor, since all delegates are virtually connected. Virtual delegates do not travel to this course, Global Knowledge will send you all the information needed before the start of the course and you can test the logins.

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### 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.

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### Objectives:

- During this intensive 4-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.
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### Prerequisites:

#### Attendees should meet the following prerequisites:

To attend this training you should have attended course MS 6427A or have equivalent knowledge from real-world experience.

The course is an intense workshop! During these 4 days we recommend a good cup of coffee – this course is really intense and in order not to miss a thing you **MUST** stay awake!

**Exercises:** This workshop is based on practical knowledge from tons of successful projects, many years of real-world experience, and no mercy for misconfigurations or insecure solutions! All exercises are based on Windows Server 2016 and 2019, Windows 10 and Kali Linux. Remember that the hybrid identity lab environment will stay online for an extra three weeks so you may practice even more after the training is completed!

### Testing and Certification

What is wonderful about our certification is that it is lifetime valid with no renewal fees – the technology changes, but fundamentals and attitude remain mostly the same.

Our Virtual Certificates, which entitle you to collect CPE Points, are issued via Accredible.

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## Content:

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 Directory

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. 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

5. IIS 10 and scripting

6. 3 rd 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

5. CPU Throttling: Sand-boxing Sites and Applications	Module 9: Configuring FTP Server on IIS 10	10. Application Request routing
6. Idle Worker Process Page-Out	1. Managing FTP Authentication	Module 13: IIS 10 Diagnostics
Module 4: Configuring Application Development Settings	2. Managing FTP Authorization	1. Auditing IIS 10 logs
1. ASP.NET Security Settings	3. Configuring FTP Logging	2. Enhanced Logging
2. ASP.NET Application Development Settings	4. Configuring FTP Logon Attempt Restrictions	3. Logging to Event Tracing for Windows
3. Configuring ASP.NET	5. Administering FTP Request Filtering	4. Common error messages and examples
4. Working with .Net Core	6. Configuring FTP User Isolation	5. Auditing communication problems and examples
Module 5: IIS 10 functionality extensions	Module 10: Managing IIS 10 from the command line	6. Troubleshooting authentication problems
1. Architecture Extensions a. CGI b. FastCGI c. ISAPI d. ASP	1. Tools overview	7. Troubleshooting authorization problem
2. Managing Extensions a. Security b. Delegation	2. Advanced management with PowerShell	
3. Functionality Extensions a. PHP b. WebDAV c. Media Services d. URL Rewrite	3. Tools for Running Administrative Tasks in IIS	
4. Performance Extensions a. Application WarmUp	4. Automating management with Appcmd	

## Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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