



Course 556: Internet Information Server (IIS) Foundations (3 days)

Who should attend...

In this intense hands-on course, students will learn to install, configure and secure Microsoft Internet Information Server (IIS) 6.0 running on Windows Server 2003.

The course provides Web Administrators, Web Developers, Security Administrators, System Administrators, and Managers with the skills necessary to rapidly come up to speed on how Internet Information Server can be effectively and securely used on corporate networks and to interact with Internet users.

Suggested Prerequisites...

- Experience with Windows Server 2003 Management
- Ability to read/write basic HTML

Course Outline...

Chapter 1: Installing Internet Information Server 6.0

Web Client and Server Fundamentals

What's New in Internet Information Server 6.0

Internet Information Server Installation options

Workshop: Performing an installing of Internet Information Server 6.0

Using Internet Services Manager (ISM)

Creating and Managing Virtual Web Servers

Binding Virtual Servers to specific IP Addresses, Ports and Host Headers

Configuring and Examine Web Service Logs

Workshop: Using Internet Services Manager to Manage IIS

Chapter 2: Controlling and Securing Web Site Access

Authentication Methods: Anonymous, Basic, Digest and Integrated Windows

Relationship between IIS, the Operating System, and the Active Directory

Web Server to File System Security Relationship

Controlling File Server Inherited and Explicit Permission

Workshop: Establishing IIS to Operating System Security

Restricting Access to IIS via Host and IP addresses

Defending Internet Information Server using Firewall Components

Workshop: Restricting Network Access to Internet Information Server



Chapter 3: Securing Web Servers with Cryptography

Cryptography Fundamentals: Symmetric & Asymmetric Encryption and Hashing

Using Secure Sockets Layer (SSL) and Transport Layer Security (TLS)

Leveraging Certificate Authorities (CA) and Public Key Infrastructure (PKI)

Configuring IIS to use SSL & TLS Server Certificates

Workshop: Requesting a Digital Certificate from a CA and enable SSL/TLS

Requesting and using Client Certificates for Authentication

Workshop: Using Client Certificates to authentication users to web services

Chapter 4: Processing Data on a Web Server

Understanding and enabling technologies for Server-Side processing

Examining risks of CGI, ASP, Server Side Includes, and other server-side scripting

Understanding Web Vulnerabilities: Cross-Site Scripting (XSS) & Processing User Input

Configuring Worker Processes and application pooling

Workshop: Implement server side processing

Running Active Components on Web Servers

Connecting Databases to Web Servers

Understanding and defending against SQL Injection

Workshop: Connecting to a back-end database using Server-side scripting

Chapter 5: Metabase Configuration and Management

Using the IIS 6.0 Resource Kit

Accessing and making changes to the Metabase using Metabase Explorer

Making changes directly to the Metabase XML files

Workshop: Tuning IIS in the metabase

Backup and Restoring the metabase

Transferring IIS Configuration between servers

Workshop: Backup and Restore the Metabase

Bonus/Optional Chapter 6 (based on time): Additional IIS Services

Using SMTP Services

Sending E-mail from server side processes

Securing SMTP Services

Workshop: Configuring SMTP Services

Using FTP Services

Establishing FTP Accounts: Local, Domain and external accounts

Securing FTP Services

Optional Workshop: Configuring Access via FTP

Additional/Custom Topics are available...

P lease contact your ROI representative to discuss course tailoring!!!