

It's not the syllabus or the slides, it's the trainer experience!

Windows Internals

5 days 40 hours

Abstract

Understanding the internal mechanisms and operations of the Windows family of operating systems is important to any programmer that write code running on windows. Deep insight on how the operating system works will enable a professional programmer to create more efficient and performed applications and services. This course, based on the Windows Internal book series and Microsoft MSDN documentation on Device Driver and OS advanced services, introduces using presentations, demos and practical labs what is under the hood of the Windows operating system. Course covers Windows 10 and Windows server 2016 too.

Workshop Targets

- Give experienced programmers deep insight into the Windows operating system internals.

Target Audience

- Experienced programmers.
- The course is programming language agnostic.

Prerequisites

- Extensive programming experience writing code running on Windows.

Topics

- Introduction to the Windows family of Operating systems
- System Architecture
- System startup and shutdown
- Kernel base services
- The Object manager and system objects
- Processes, threads and the scheduler
- Security manager and security mechanisms
- I/O manager and I/O services
- Memory manager and memory management and services
- Storage management, File system and the Cache manager
- Networking architecture
- WinRT and Universal applications architecture and services
- Tools and Utilities
- Instrumentation and performance measurement services and tools
- Hypervisors and the Azure

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