

Windows Enterprise Client – Boot and Logon Optimization



Workshop

Target Audience:

This workshop is intended for IT professionals who wish to:

- *Gain exposure to performance benchmarking using the Windows Performance & Analysis Toolkit (XPerf)*
- *Understand the importance of boot and logon performance early in the SOE design lifecycle*
- *Optimize the start-up and logon process to ensure best possible user experience*
- *Get hands-on practice using WPT for analysis of boot and logon issues*

Overview

The Windows Enterprise Client – Boot and Logon Optimization Workshop (level 300) provides participants with a practical approach for performance benchmarking during Standard Operating Environment (SOE) design, and how to use related skills to optimize the user experience for production Windows clients.

In the first portion of the workshop, students will learn how to optimize boot and logon times during SOE development using a number of tools, primarily the Windows Performance Toolkit (WPT). The impact of various workloads and software components (drivers, services, user profiles and Group Policies) is discussed, and strategies to measure impact are covered in detail. The second part of the course builds on these strategies, and describes a methodology to identify delays that might be impacting your production environment.

The workshop includes a number of hands-on labs to provide students with practical exposure to the tools and reinforce key concepts. Real-world examples of issues observed by Microsoft Support and Premier Field Engineering are included to help illustrate the techniques involved.

Pre-requisites:

This workshop utilizes a soft-copy workbook, and includes supplementary 'take-home' materials, so students should bring:

- A USB storage device, such as a Memory Stick. Minimum size 1GB

Syllabus

This workshop runs for 2 full days. Students should anticipate consistent start and end times for each day.

Early departure on either day is not recommended.

Module 1: Introduction:

This module outlines the background and objectives for the course.

Module 2: User Experience Optimization and Benchmarking:

A detailed explanation of Event Tracing for Windows (ETW) and the Windows Performance Toolkit (WPT). Preparing for, collecting, viewing and analysing WPT traces is discussed, and the application of these techniques to the benchmarking process is covered.

Module 3: Reactive Analysis and Troubleshooting:

Deep analysis of WPT traces is covered in this module. Each Windows boot phase is examined in detail, including potential issues, activities within each boot phase, and possible approaches for investigation. Advanced techniques for reviewing more complex issues are also discussed.

Module 4: Settings and Infrastructure:

The impact of network and Active Directory infrastructure and settings (such as Group Policy, user profiles and user data) is discussed in this module.

Module 5: Real World Scenarios:

Using the skills and techniques gained during the Workshop, students work through a number of 'unassisted' labs covering actual issues encountered in the field and by Microsoft support.

Each lab is subsequently discussed as a class to ensure that students are comfortable identifying key issues.