
Basic z/OS Tuning Using the Workload Manager

Duration: 5 Days Course Code: ES54G

Overview:

Do you need to know how to establish a practical performance management program for your z/OS system? This course is designed for new performance analysts to learn to work with the Workload Manager (WLM) in goal mode. Learn concepts of WLM and performance management in the z/OS system using the WLM.

Learn how to analyze Resource Monitoring Facility (RMF) reports and implement service definitions using the WLM Interactive System Productivity Facility (ISPF) application. The course uses z/OS hands-on lab exercises to reinforce the concepts and techniques discussed in lecture.

Hands-on labs This course includes hands-on lab exercises. Each student team, working on their own z/OS system, will configure RMF, analyze RMF reports to find bottlenecks, and utilize the WLM dialogs to create goals and classification rules in a service definition that manages a supplied z/OS workload.

Target Audience:

This is an intermediate course for z/OS system programmers, z/OS performance analysts, and z/OS performance administrators new to performance management for their z/OS system.

Objectives:

- Describe a performance and tuning methodology
 - Develop a systematic z/OS performance and tuning plan
 - Describe the factors which could affect the performance of an z/OS system
 - Use the WLM ISPF application
 - Describe the components of a service definition
 - Define workloads and service levels and classification rules
 - State which z/OS commands affect WLM operation
 - Identify the major WLM services for z/OS, including enclaves and application environments, and how they are used by DB2, WebSphere, and CICS
 - Analyze CPU performance when running in a shared LPAR environment
 - Utilize and monitor zIIP and zAAP specialty engines
 - Measure and tune z/OS DASD, processor storage, and coupling facility configurations
 - Explain the functions and facilities of RMF and SMF
 - Analyze performance bottlenecks using RMF
 - Use Workload License Charges (WLC), defined capacity and soft capping to manage software costs
 - Describe advanced z/OS environments that utilize Intelligent Resource Director (IRD), HiperDispatch, z/OSMF Workload Management, and I/O Priority Manager
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Prerequisites:

You should:

- Understand basic MVS and z/OS operation, such as job flow through JES, job scheduling paging, swapping, dispatching controls, and I/O scheduling
 - Have a basic knowledge of the purpose of the Workload Manager's function in managing system workloads
 - Be familiar with using TSO and ISPF to manage data sets and run batch jobs
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Content:

Day 1

- Welcome
- Unit 1 - Tuning methodology
- Unit 2 - Using SMF and RMF to monitor performance
- Lab 1 - Introduction to your system
- Lab 2 - Using RMF Monitor I and Monitor II

Day 2

- Unit 3 - Performance impacts when running in a shared LPAR environment
- Unit 4 - Basic system workload management (part 1)
- Lab 3 - Implementing a WLM environment on z/OS (part 1)

Day 3

- Unit 4 - Basic system workload management (part 2)
- Lab 3 - Implementing a WLM environment on z/OS (part 2)

Day 4

- Unit 5 - WLM commands, internals, and service
- Lab 4 - Using RMF Monitor III to solve performance problems

Day 5

- Unit 6 - z/OS DASD performance topics
- Unit 7 - Tuning processor storage
- Unit 8 - Miscellaneous performance topics

Further Information:

For More information, or to book your course, please call us on 0800/84.009

info@globalknowledge.be

www.globalknowledge.be