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 via 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.

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.
Note: Basic z/OS Tuning Using the Workload Manager (ES54GB) is intended for individuals new to WLM and the z/OS performance area.

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)

Prerequisites:

You should:

- Understand basic MVS / z/OS operation, such as job flow through JES, job scheduling paging, swapping, dispatching controls, 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

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
- Unit 4 - Basic system workload management (Part 1)
- Lab 3 - Implementing a WLM environment on z/OS (Part 1)
- Lab 3 - Implementing a WLM environment on z/OS (Part 2)
- Lab 4 - Using RMF Monitor III to solve performance problems
- Unit 7 - Tuning processor storage
- Unit 8 - Miscellaneous performance topics

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

Day 2

- Unit 3 - Performance impact when running in a shared LPAR environment

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Day 3

- Unit 4 - Basic system workload management (Part 2)

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- Lab 3 - Implementing a WLM environment on z/OS (Part 2)

Day 4

- Unit 5 - WLM commands, internals, and service

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Day 5

- Unit 6 - z/OS performance topic

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Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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