Basic z/OS Tuning Using the Workload Manager (WLM)

Dauer: 5 Tage  Kurscode: ES54D0DE

Kursbeschreibung:
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 both z/OS hands-on lab exercises and RMF case studies to reinforce the concepts and techniques discussed in lecture.

Zielgruppe:
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: ES54 is intended for individuals new to WLM and the z/OS performance area.

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

Voraussetzungen:
- 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
- z/OS Basisausbildung (ES10D3DE)
- z/OS Facilities (ES15D0DE)
- z/OS - Grundlagen für Systemprogrammierer - Praktikum (ES40D2DE)
### Schulungsinhalt:

<table>
<thead>
<tr>
<th>Tuning methodology</th>
<th>Basic system workload management</th>
<th>Additional Topics - Coupling Facility, Intelligent Resource Director (IRD), Global Resource Serialization (GRS), Workload License Charges (WLC), and Enterprise Workload Manager (EWLM)</th>
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</thead>
<tbody>
<tr>
<td>describe the basic terms in the process of tuning and system structure</td>
<td>use WLM dialog to create/modify service definitions</td>
<td>analyze RMF coupling facility reports through an understanding of how a CF operates in a parallel sysplex</td>
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<td>outline the tuning methodology, including the factors affecting performance and the individual steps in analyzing system performance</td>
<td>create service class goals and classification rules to manage a complex z/OS workload</td>
<td>understand the basic functionality, terminology and benefits of Intelligent Resource Director (IRD)</td>
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<td><strong>SMF and RMF</strong></td>
<td>WLM commands, internals and services</td>
<td>state how GRS operations can be tuned for optimal z/OS performance</td>
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<td>set up collection and utilize SMF data</td>
<td>understand the behavior and operation of WLM services, including enclaves, application environments, execution delay monitoring, and their use by DB2, WebSphere and CICS</td>
<td>utilize WLC, defined capacity, and the sub-capacity reporting tool to optimize software charges</td>
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<td>implement and analyze RMF measurements for Monitors I, II, and III</td>
<td>optimize the use of WLM-managed initiators</td>
<td>describe how WLM implements soft capping</td>
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<td>utilize the RMF Spreadsheet Reporter and RMF Performance Management</td>
<td>Measure and tune z/OS DASD and processor storage</td>
<td>understand the operation and usage of EWLM and its relationship to z/OS WLM</td>
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<td>CPU performance when running in a shared LPAR environment</td>
<td>understand DASD configurations in order to analyze RMF DASD reports</td>
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<td>utilize zSeries processor metrics and LPAR weights</td>
<td>interpret RMF paging and virtual storage reporting</td>
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<td>analyze RMF CPU and LPAR reports</td>
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<td>describe the functionality of zAAP processors</td>
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### Weitere Informationen:

Für weitere Informationen oder Buchung kontaktieren Sie uns bitte unter 0800 / 295 26 33

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