IBM zEnterprise: Unified Resource Manager Workload and Performance Management

Duration: 3 Days      Course Code: ESA2G

Overview:
IBM zEnterprise: Unified Resource Manager Workload and Performance Management (ESA20), is a continuation of IBM zEnterprise System: Using zManager to Provision Virtual Servers (ESA10) focused on Unified Resource Manager's workload and performance management features. The lecture material will cover topics such as: zEnterprise workload resource groups Unified Resource Manager workload and performance management Guest platform management providers (GPMP) Application Resource Measurement (ARM) zEnterprise and z/OS WLM cooperation zEnterprise hardware virtualization Virtual server processor management Creating workload objects Virtual server processor management Setting up processor management for PowerVM Hypervisors and virtual servers Enabling GPMP support for a virtual server Installing and configuring GPMP on AIX and z/OS Enabling ARM for WebSphere Application Server (WAS) on AIX, IBM HTTP Server on AIX and DB2 on z/OS Mapping Platform Performance Manager service classes to z/OS WLM service classes Monitoring performance via Unified Resource Manager reports

Target Audience:
This intermediate course is for technical individuals directly involved in the support of designing, creating, managing and monitoring workloads that will be running on zBX technology. This could include technical personnel in Capacity and Performance Management teams, operators/system programmers that monitor workload performance and are involved in debugging performance problems.

Objectives:
- Describe what workload resource groups or workloads mean within the zEnterprise environment
- Describe what performance management capabilities Unified Resource Manager provides
- Describe the role Guest Platform Management Provider and Application Resource Measurement technologies play in the zEnterprise environment
- Explain how zEnterprise technologies cooperate with z/OS Workload Manager (WLM)
- Describe Unified Resource Manager performance functions
- Enable processor management for select hypervisor types and adjust processor assignments to benefit from processor management
- Enable GPMP support for virtual servers
- Install, configure and manage GPMP on AIX and z/OS
- Enable ARM for WebSphere Application Server (WAS) on AIX, IBM HTTP Server on AIX and DB2 on z/OS
- Map Platform Performance Manager service classes to z/OS WLM service classes
- Know what performance data each report provides
- Know how to get to and use each performance report for performance analysis

Prerequisites:
It is strongly recommended that you take:
- IBM zEnterprise System: Using zManager to Provision Virtual Servers (ESA10) before attending IBM zEnterprise: Unified Resource Manager Workload and Performance Management
While IBM zEnterprise System: Using zManager to Provision Virtual Servers (ESA10) is geared more towards technical personnel that will create and manage virtual servers using Unified Resource Manager, it is a good introduction to the zBX environment and Unified Resource Manager concepts.

You could potentially cross many different IT profession skill sets, such as, mainframe system administrators, system programmers, distributed system administrators, and so on. While good working knowledge and experience in the following fields isn't required, it would be beneficial:

- System z architecture
- PowerVM, Power Systems
- z/OS, Workload Manager (WLM)
- Performance management

Content:

Unit 1: IBM zEnterprise: Unified Resource Manager Workload and Performance Management
- Topic 1: Unified Resource Manager workload and performance concepts
- Topic 2: Implementing Unified Resource Manager performance functions
- Topic 3: Performance monitoring using Unified Resource Manager reports

Lab exercises:
- Exercise 1: Investigating the lab z/OS environment
- Exercise 2: Investigating the virtual server options
- Exercise 3: Creating a Unified Resource Manager workload
- Exercise 4: Investigating Unified Resource Manager workload reports
- Exercise 5: Clean up

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931
info@globalknowledge.co.uk
www.globalknowledge.co.uk

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK