Maximizing WebSphere V7 Performance on z/OS

Overview:

This course is designed to analyze the WebSphere V6.0 for z/OS performance. The goal is to tune WebSphere V6.0 for z/OS and its environment on z/OS for maximum performance. Benchmark tools are used to simulate a J2EE transaction workload against WebSphere for z/OS, and then performance tools are used to monitor performance data on these transactions. Each student group has their own z/OS system where they start with an untuned application server environment. In the lab exercises, they will apply tuning changes, and then perform measurement runs. The result will be taken and transferred to a table for performance comparisons. The class discusses tuning of important subsystems (for example UNIX System Services, IBM HTTP server for z/OS, the Java JVM), as well as the WebSphere infrastructure and some J2EE application performance tuning.

Target Audience:

This advanced course is for experienced z/OS and OS/390 systems programmers who are responsible for implementing and customizing the WebSphere V6.0 for z/OS on z/OS and OS/390, as well as IT professionals responsible for the deployment of EJB and Web applications. The students must have basic knowledge in measurement and analysis of performance data provided by z/OS and OS/390, such as SMF, RMF and TCP/IP.

Objectives:

- After completing this course, you should be able to:
  - Understand the SMF records created by HTTP server and the HTTP protocol
  - Simulate workload in a WebSphere for z/OS environment, and install and use tools for performance measurement
  - Establish a methodology for making performance measurement runs
  - Investigate the current hardware resources and understand how to minimize the WebSphere for z/OS storage demand
  - Explain the importance of WLM for WebSphere for z/OS performance
  - Describe the resource areas for monitoring
  - Use SMF and RMF for tuning decisions
  - Investigate HTTP and WebSphere for z/OS performance
  - Describe the default UNIX thresholds that can be changed
  - Tune the HFS and LE environment
  - Trace performance problems to check WLM applications
  - List tools available to monitor the application running in the JVM
  - Use Tivoli Performance Viewer to monitor real-time performance of WebSphere for z/OS J2EE applications
  - Understand how parallel sysplex and WebSphere for z/OS clusters provides scalability and availability, cloning and data sharing for WebSphere for z/OS
Prerequisites:
The students should have attended WebSphere for z/OS Version 6 Implementation (ES681AGB) (or have equivalent knowledge) before attending OZ851AGB

Content:
- Unit 1. Overview
- Unit 2. Workload Simulation
- Unit 3. Z/OS Base
- Unit 4. External Monitoring Overview
- Unit 5. Z/OS UNIX Basic Settings for WAS
- Unit 6. Monitoring WAS
- Unit 7. IBM HTTP Server and WAS
- Unit 8. HTTP Session Tracking
- Unit 9. JAVA Technology on z/OS
- Unit 10. WebSphere Application Server tuning
- Unit 11. E-business Topology
- Unit 12. System checkup for WAS

Further Information:
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