Power Systems for AIX IV: Performance Management

Duración: 5 Días Código del Curso: AN51G

Temario:

Develop the skills to measure, analyze, and tune common performance issues on IBM POWER systems running AIX6.
Learn about performance management concepts and techniques and how to use of basic AIX tools to monitor, analyze, and tune an AIX6 system. The course covers how virtualization technologies such as the PowerVM environment and workload partitions affect AIX performance management. Monitoring and analyzing tools discussed in this course include vmstat, iostat, sar, tprof, svmon, filemon, netstat, lvmstat, and topas. Tuning tools include schedo, vmo, ioo, no, and nfso.
The course also covers how to use Performance Problem Reporting (PerfPMR) to capture a variety of performance data for later analysis.
Each lecture is reinforced with extensive hands-on lab exercises which provide practical experience.
The materials include AIX 7.1 enhancements and the exercises are executed on a POWER8 lab environment.

Learning Journeys or Training Paths that reference this course: AIX Security, Network Administration, and Performance

Dirigido a:

This course is for: AIX technical support personnel Performance benchmarking personnel AIX system administrators

Objetivos:

- Define performance terminology
- Describe the methodology for tuning a system
- Identify the set of basic AIX tools to monitor, analyze, and tune a system
- Use AIX tools to determine common bottlenecks in the Central Processing Unit (CPU), Virtual Memory Manager (VMM), Logical Volume Manager (LVM), internal disk Input/Output (I/O), and network subsystems
- Use AIX tools to demonstrate techniques to tune the subsystems

Prerequisitos:

You are expected to have basic AIX system administration skills. These skills can be obtained by attending the following courses:

- AIX Jumpstart for UNIX professionals (AN14G) or
- Power Systems for AIX II: Implementation and Administration (AN12G)

It is very helpful to have a strong background in TCP/IP networking to support the network performance portion of the course. These skills can be built or reinforced by attending:

- TCP/IP for AIX Administrators (AN21G)

It is also very helpful to have a strong background in PowerVM (particularly micro partitioning and the role of the Virtual I/O Server). These skills can be built or reinforced by attending:

- Power Systems for AIX - Virtualization I: Implementing Virtualization (AN30G)

Contenido:

Day 1

- Unit 1 - Performance analysis and tuning overview
- Exercise 1 - Working with tunable files Unit 2 - Data collection
- Exercise 2 - Data collection
- Unit 3 - Monitoring, analyzing, and tuning CPU usage
- Exercise 3 - Monitoring, analyzing, and tuning CPU usage (parts 1 and 2)

Day 2

- Exercise 3 - Monitoring, analyzing, and tuning CPU usage (parts 3, 4 and 5)
- Unit 4 - Virtual memory performance monitoring and tuning Exercise 4 - Virtual memory performance monitoring and tuning Student’s choice optional exercise from exercise 3 or exercise 4

Day 3

- Unit 5 - Physical and logical volume performance
- Exercise 5 - Physical and logical volume performance
- Unit 6 - File system performance monitoring and tuning (topic 1)
- Exercise 6 - File system performance monitoring and tuning (parts 1, 2, and 3)

Day 4

- Unit 6 - File system performance monitoring and tuning (topic 2)
- Exercise 6 - File system performance monitoring and tuning (part 4) Unit 7 - Network performance
- Exercise 7 - Network performance
- Student's choice optional exercise from exercises 3, 4, or 6

Day 5

- Unit 8 - NFS performance
- Exercise 8 - NFS performance tuning
- Unit 9 - Performance management methodology Exercise 9 - Summary exercise
- Student's choice optional exercises from exercises 3, 4, 6, or 7

Más información:

Para más información o para reservar tu plaza llámanos al (34) 91 425 06 60

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