IBM PowerVM II: Advanced Management and Performance

Kód kurzu: AN31G

Students in this course will learn how to implement advanced IBM PowerVM features, such as Active Memory Expansion, shared dedicated processors and multiple shared processor pools. Students will also be exposed to new availability and performance management features such as Simplified Remote Restart, Hybrid Network Virtualization and enhanced VIOS administration using the HMC. Additionally, students will learn skills to implement, measure, analyze and tune PowerVM virtualization features for optimal performance on IBM Power servers. This course focuses on two main areas. First, the features that relate to the performance of IBM Power servers, AIX, VIOS and the special monitoring, configuring, and tuning needs of logical partitions (LPARs). This course does not cover application monitoring and tuning. Second, the course will explore advanced features for availability and managing and monitoring virtualization and PowerVM virtualized workloads on IBM Power. Students will also learn AIX performance analysis and tuning tools that help an administrator take advantage of shared processors and other virtualization features of the IBM Power servers. Hands-on lab exercises reinforce each lecture and give the students practical experience.

Who is the course for

This course is for anyone responsible for the system administrative duties implementing and managing virtualization features on a IBM System server.

The audience for this training includes the following:

- AIX technical support individuals
- System administrators
- Systems engineers
- System architects

What we teach you

- Describe the effect of the IBM PowerVM virtualization features on performance and monitoring, such as: Simultaneous multithreading (SMT), shared processors, virtual processors, multiple shared processor pools (MSPP), shared dedicated capacity and Active Memory Expansion (AME).
- Interpret the outputs of AIX performance monitoring and tuning tools used to view the impact of features such as SMT, shared processors, additional shared processor pool activations, and device virtualization.
- Describe the advanced features for availability, managing and monitoring virtualization and PowerVM virtualized workloads on IBM Power.
- Configure and monitor Active Memory Expansion
- Configure the Simplified Remote Restart feature
- Understand the Hybrid Network Virtualization feature for SR-IOV
- Understand advanced options for managing VIOS with the HMC.
- Describe the different virtualization management tools that can be used to manage and monitor an IBM Power virtualized environment.

Required skills

The LPAR prerequisite skills can be met by attending one of the following classes or you can have equivalent LPAR skills:

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

Teaching methods

- Professional explanation with practical samples and examples

Teaching materials

IBM guide book for this course

Course Outline

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Day 1
- Welcome
- Unit 1: PowerVM features review
- Exercise 1: Introduction to the lab environment
- Unit 2: Shared processors and virtual processor tuning
- Exercise 2: Shared processors and virtual processor tuning

Day 2
- Unit 3: Multiple shared processor pools and donating dedicated processors
- Exercise 3: Multiple shared processor pools and donating dedicated processors
- Unit 4: Simplified Remote Restart
- Exercise 4: Simplified Remote Restart

Day 3
- Unit 5: Active Memory Expansion
- Exercise 5: Active Memory Expansion
- Unit 6: Virtual storage performance

Day 4
- Exercise 6: Virtual storage performance
- Unit 7: Virtual network performance
- Exercise 7: Virtual network performance

Day 5
- Unit 8: Virtual I/O Server Management with HMC
- Exercise 8: Virtual I/O Server Management with HMC
- Unit 9: Virtualization monitoring and performance management tools
- Exercise 9: Using Virtualization monitoring and performance management tools

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