

Power Systems for AIX III: Advanced Administration and Problem Determination

Duration: 5 Days

Prerequisites:

You should have basic AIX System Administration skills. These skills include:

- Use of the Hardware Management Console (HMC) to activate a logical partition to run AIX and to access the AIX system console
- Install an AIX operating system from an already configured NIM server
- Implementation of AIX backup and recovery
- Manage additional software and base operating system updates
- Familiarity with management tools such as SMIT
- Understand how to manage file systems, logical volumes, and volume groups
- Mastery of the UNIX user interface, which include use of the vi editor, command execution, input and output redirection, and the use of utilities such as grep

These skills can be developed through experience or by formal training. The recommended training course to obtain these prerequisite skills is:

- Power Systems for AIX II: AIX Implementation and Administration (AN12G) and prerequisites
- If the student has AIX system administration skills, but is not familiar with the LPAR environment, those skills can be obtained by attending the following course:
- Power Systems for AIX I: LPAR Configuration and Planning (AN11G)

Course Description:

This course provides advanced AIX system administrator skills with a focus on availability and problem determination. It provides detailed knowledge of the ODM database where AIX maintains so much configuration information. It shows how to monitor for and deal with AIX problems. There is special focus on dealing with Logical Volume Manager problems, including procedures for replacing disks.

Target Audience:

This is an advanced course for AIX system administrators, system support, and contract support individuals with at least six months of experience in AIX.

Course Outlines:

- Perform system problem determination and reporting procedures that include analyzing error logs, creating memory dumps of the system, and providing needed data to the AIX Support personnel
- Examine and manipulate Object Data Manager databases
- Identify and resolve conflicts between the Logical Volume Manager (LVM) disk structures and the Object Data Manager (ODM)
- Complete a basic configuration of Network Installation Manager to provide network boot support for either system installation or booting to maintenance mode
- Identify various types of boot and disk failures and perform the matching recovery procedures
- Implement advanced methods such as alternate disk installation, multibos, and JFS2 snapshots to use a smaller maintenance window

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