

## Power Systems for AIX III: Advanced Administration and Problem Determination

**Duración: 5 Días    Código del Curso: AN15G**

### Temario:

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. Several techniques for minimizing the system maintenance window are covered. While the course includes some AIX 7.2 enhancements, most of the material is applicable to prior releases of AIX.

Learning Journeys or Training Paths that reference this course: **IBM Power AIXPower AIX AdministratorPower AIX Administrators: Operating systemsAIX Users and System Administration**

### Dirigido a:

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

### Objetivos:

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

### Prerequisitos:

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)

## Contenido:

### Day 1

- Welcome
- Unit 1: Advanced AIX administration overview
- Exercise 1: Problem diagnostic information
- Unit 2: The Object Data Manager
- Exercise 2: The Object Data Manager
- (optional) Exercise 2: Object Data Manager, Part 3
- Unit 3: Error monitoring

### Day 2

- Exercise 3: Error monitoring
- Unit 4: Network Installation Manager basics
- Exercise 4: Basic Network Installation Manager configuration
- Unit 5: System initialization: Accessing a boot image
- Exercise 5: System initialization: Accessing a boot image

### Day 3

- Unit 6: System initialization: rc.boot and inittab
- Exercise 6: System initialization: rc.boot and inittab
- Unit 7: LVM metadata and related problems
- Exercise 7: LVM metadata and related problems
- (optional) Exercise 7: LVM metadata and related problems, Part 6
- Unit 8: Disk management procedures, Topic 1
- Exercise 8: Disk management procedures, Part 1

### Day 4

- Unit 8: Disk management procedures, Topic 2
- Exercise 8: Disk management procedures, Parts 2 and 3
- Unit 9: Install and cloning techniques, Topic 1
- Exercise 9: Install and cloning techniques, Part 1
- Unit 9: Install and cloning techniques, Topic 2
- Exercise 9: Install and cloning techniques, Part 2
- Unit 10: Advanced backup techniques, Topic 1
- Exercise 10: Advanced backup techniques, Part 1
- (Optional) Exercise 10: Advanced backup techniques, Part 2
- Unit 10: Advanced backup techniques, Topic 2
- Exercise 10: Advanced backup techniques, Parts 3 and 4

### Day 5

- Unit 10: Advanced backup techniques, Topic 3
- Unit 11: Diagnostics
- Exercise 11: Diagnostics
- Unit 12: The AIX system dump facility
- Exercise 12: The AIX system dump facility
- Wrap up / Evaluations

## Más información:

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

[info.cursos@globalknowledge.es](mailto:info.cursos@globalknowledge.es)

[www.globalknowledge.com/es-es/](http://www.globalknowledge.com/es-es/)

Global Knowledge Network Spain, C/ Retama 7, 6ª planta, 28045 Madrid