

# Power Systems for AIX I: LPAR Configuration and Planning

Course code: AN11G

Learn the skills needed to become an effective administrator on IBM's POWER6-based systems that support Logical Partitioning (LPAR). Learn about the features of PowerVM Editions (Advanced POWER Virtualization - APV) and how to configure and manage LPARs running AIX V6.1 using the Hardware Management Console (HMC).

## Who is the course for

This is an intermediate course for architects, system integrators, security administrators, network administrators, software engineers, technical support individuals, and IBM Business Partners who implement LPARs on IBM Power Systems p.

## What we teach you

Describe important concepts associated with managing POWER6 processor-based systems, such as Logical partitioning (LPAR), dynamic partitioning, virtual devices, virtual processors, virtual consoles, virtual Local Area Network (VLAN), and shared processors

Describe the features of the PowerVM Editions.

Use the System Planning Tool to plan an LPAR configuration

Describe the functions of the HMC Configure and manage the HMC, including users and permissions, software, startup and shutdown, remote access features, network configuration, security features, HMC backup and restore options, and the HMC reload procedure

Describe the rules associated with allocating resources, including dedicated processors, processing units for Micro-Partitions, memory, physical I/O for AIX and Linux partitions

Configure and manage LPARs using the HMC Graphical User Interface (GUI) and HMC commands

Interpret physical and AIX location codes and relate to the key hardware components

Power on and power off the POWER6 system

Use the HMC to back up and restore partition data

## Required skills

This course does not require any logical partitioning experience.

General TCP/IP knowledge is strongly recommended. This prerequisite may be met by attending:

- *AIX Basics (AU131)*
- **or**
- *(AT131)*

## Course outline

### Day 1

- Unit 1: Introduction to partitioning
- Exercise 1
- Unit 2: Hardware system overview
- Exercise 2
- Unit 3: Hardware Management Console

### Day 2

- Unit 3: Hardware Management Console (cont.)
- Exercise 3

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- Unit 4: System Planning Tool
- Exercise 4
- Unit 5: HMC and managed system maintenance
- Exercise 5
- Unit 6: System power management
- Exercise 6
- Unit 7: Planning and configuring logical partitions

## Day 3

- Unit 7: Planning and configuring logical partitions (cont.)
- Exercise 7
- Unit 8: Partition operations
- Exercise 8
- Unit 9: Dynamic resource allocation
- Exercise 9

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