

# POWER SYSTEMS FOR AIX - VIRTUALIZATION I: IMPLEMENTING VIRTUALIZATION

Course Code: 9189

IBM Course Code: AN301

This course provides an overview of the PowerVM edition's features on POWER6 and POWER7 processor-based systems. It explains the new features and benefits of virtualization including processor virtualization, Integrated Virtual Ethernet, Virtual I/O Server, and virtual devices, such as virtual Ethernet, virtual SCSI, and virtual Fibre Channel adapters. Basic and advanced configurations of the Virtual I/O Server and its clients are discussed including various availability options.

Expand your knowledge about PowerVM features that were introduced in Power Systems for AIX I: LPAR Configuration and Planning (AN110) / Power Systems for AIX I: LPAR Configuration and Planning (ILO) (AX110).

## What You'll Learn

- Discuss the advantages or value of PowerVM edition's features
- Define micro-partitioning and shared processor LPARs
- Discuss the benefits of simultaneous multithreading
- Discuss and configure the Integrated Virtual Ethernet (IVE)
- Install and configure the Virtual I/O Server
- Configure virtual network devices, such as virtual Ethernet and shared Ethernet adapters
- Configure virtual SCSI and virtual Fibre Channel storage adapters
- Configure virtual SCSI target devices on a virtual SCSI adapter
- Define file-backed storage pools and file-backed virtual optical devices
- Identify single points of failure in virtualized environments
- Configure multiple VIO servers for high availability
- Configure advanced virtual networking options
- Configure the shared Ethernet adapter failover feature
- Configure advanced virtual SCSI options
- Configure MPIO in a VIO server's client partition
- Manage the service events, configure call home, add, exchange FRUs, and discuss FSP failover

- Perform PowerVM (VIOS) Maintenance

## Who Needs to Attend

This advanced course is appropriate for System Administrators, Technical Support Personnel, and Business Partners responsible for implementing LPARs on IBM Power Systems with AIX servers.

## Prerequisites

You should have advanced system administration experience with AIX 5.3 or later. This prerequisite may be met by attending one of the following courses:

- Power Systems for AIX II: AIX Implementation and Administration (AN120) or Power Systems for AIX II: AIX Implementation and Administration (ILO) (AX120)
- or you must have equivalent AIX and LPAR skills.

General TCP/IP knowledge is strongly recommended. This prerequisite may be met by attending TCPIP for AIX Administrators (AN210).

You are also expected to have logical partition administration skills on POWER6 or (later generations) of processor-based systems, which can be obtained by attending Power Systems for AIX I: LPAR Configuration and Planning (AN110).



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CLASSROOM LIVE

\$4,750 USD

5 Day

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## Virtual Classroom Live Outline

1. Introduction to Partitioning
2. Processor Virtualization
3. Integrated Virtual Ethernet
4. Virtual Ethernet
- 5a. Virtual I/O Server and Virtual Devices
- 5b. Virtual I/O Server and Virtual Devices
6. Virtual Network Configurations with Dual VIOS
7. Virtual SCSI Configurations with Dual VIOS
8. N\_Port ID Virtualization
9. Migration from Physical to Virtual Storage
10. HMC Service Management.
11. PowerVM Advanced Systems Maintenance

## Virtual Classroom Live Labs

Lab 1: Power System Documentation Overview

Lab 2: Processor Virtualization Configuration

Lab 3: Integrated Virtual Ethernet Configuration

Lab 4: Virtual Ethernet Adapter Configuration

Lab 5a: Virtual I/O Server and Client Partition Configuration

Lab 5b: Virtual I/O Server and Client Partition Configuration

Lab 6: Shared Ethernet Adapter Failover Setup

Lab 7: Dual VIO Servers Configuration with MPIO in the Client Partition

Lab 8. Virtual Fibre Channel Adapter Configuration

Lab 9: Manage Service Events

Lab 10: PowerVM System Maintenance

Lab 11: (Optional) File-backed Virtual Disk and Virtual Media Repository Configuration

Sep 15 - 19, 2025 | 9:30 AM - 5:30 PM EST

Oct 27 - 31, 2025 | 9:30 AM - 5:30 PM EST

Dec 1 - 5, 2025 | 9:30 AM - 5:30 PM EST



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PRIVATE GROUP TRAINING

5 Day

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