Power Systems for AIX - Virtualization I: Implementing Virtualization

AN30G

Delivery Type: Classroom

Duration: 5 days

Overview

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

You are also given additional details about PowerVM features that were introduced in Power Systems for AIX I: LPAR Configuration and Planning (AN11GB)

Pre-Requisites

You must have advanced system administration experience with AIX V5.3 or AIX 6 by attending one of the following courses:

- ✓ Power Systems for AIX II: Implementation and Administration (AN12GB)
- ✓ Power Systems for AIX III: Advanced Administration and Problem Determination (AN15GB)
- ✓ AIX Jumpstart for UNIX Professionals (AW180)

Alternatively, you must have equivalent AIX and LPAR skills.

General TCP/IP knowledge is strongly recommended. This prerequisite can be met by attending TCP/IP for AIX Administrators (AN21GB).

You are also expected to have logical partition administration skills on POWER6 processor-based systems by attending Power Systems for AIX I: LPAR Configuration and Planning (AN11GB).

Objectives

- ✓ Discuss the advantages or value of PowerVM edition's features
- ✓ Define micro-partitioning and shared processor LPARs
- ✓ Discuss the benefits of simultaneous multithreading
- ✓ Explain and configure the Integrated Virtual Ethernet (IVE)
- ✓ Install and configure the Virtual I/O Server
- ✓ Configure virtual devices, such as virtual Ethernet, shared Ethernet, and virtual SCSI disks
- ✓ Define file-backed storage pools and file-backed virtual optical devices
- ✓ Identify single points of failure in virtualized

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environments

- ✓ Configure multiple VIO servers for high availability
- ✓ Set up advanced virtual networking options
- ✓ Configure the shared Ethernet adapter failover feature
- ✓ Set up 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

Target Audience

This advanced course is intended for system administrators, technical support personnel, and business partners responsible for implementing LPARs on IBM system p servers.

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