Power Systems for AIX - Virtualization I: Implementing Virtualization

Duration: 5 Days **Course Code: AN30G** **Delivery Method: Company Event**

Overview:

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.
Students are also given additional details about PowerVM features that were introduced in Power Systems for AIX I: LPAR Configuration and Planning (AN11G).

Company Events

These events can be delivered exclusively for your company at our locations or yours, specifically for your delegates and your needs. The Company Events can be tailored or standard course deliveries.

Target Audience:

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

Objectives:

- After completing this course, you should be able to:
- · 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

Prerequisites:

• AIX Jumpstart for UNIX Professionals (AN14G)• Power Systems for AIX III: Advanced Administration and Problem Determination (AN15G)• Power Systems for AIX II: Implementation and Administration (AN12G)Students must have advanced system administration experience with AIX 6 or AIX 7. This prerequisite can be met by attending one of the following courses:

Alternatively, students 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 (AN21G).

Students are also expected to have logical partition administration skills on POWER6 or POWER7 processor-based systems, which can be obtained by attending Power Systems for AIX I: LPAR Configuration and Planning (AN11).

Content:

- Introduction to partitioning
- Processor virtualization
- Integrated Virtual Ethernet
- Virtual Ethernet
- Virtual I/O Server and virtual devices
- Virtual network configuration with dual VIOS
- Virtual SCSI configurations with dual VIOS
- N_Port ID virtualization
- Migration from physical to virtual storage
- HMC Service Management
- PowerVM advanced systems maintenance

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

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