AN30G

Power Systems for AIX - PowerVM I Implementing Virtualization

Durata: 5 gg

Descrizione

This course provides an overview of the PowerVM edition's features on POWER6, POWER7, and POWER8 processor-based systems. It explains the new features and benefits of virtualization including processor virtualization, 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 (AN11G).

This course provides lectures and hands on labs in an instructor lead course environment, either in a face-to-face classroom or in a live virtual classroom environment (ILO - Instructor Led Online).

Objectives: •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

A chi è rivolto?

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.

Prerequisiti

You must have advanced system administration experience with AIX 6 or AIX 7. This prerequisite can be met by attending one of the following courses:

   •Power Systems for AIX II: Implementation and Administration (AN12G)

   •Power Systems for AIX III: Advanced Administration and Problem Determination (AN15G)

   •AIX Jumpstart for UNIX Professionals (AN14G)

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 (AN21G).

You are also expected to have logical partition administration skills on Power Systems servers, which can be obtained by attending Power Systems for AIX I: LPAR Configuration and Planning (AN11G).

Contenuti
- Unit 1: Introduction to partitioning
- Exercise 1: Power Systems documentation overview
- Unit 2: HMC V8 enhancements
- Exercise 2: HMC enhanced interface
- Unit 3: Processor virtualization
- Exercise 3: Processor virtualization configuration
- Unit 4: Virtual Ethernet
- Exercise 4: Virtual Ethernet adapter configuration
- Unit 5: Virtual I/O Server and Shared Ethernet Adapter
- Exercise 5: Virtual I/O Server configuration
- Unit 6: Virtual SCSI devices
- Exercise 6: Client partition configuration
- Unit 7: Virtual network configuration with dual VIOS
- Exercise 7: SEA failover setup
- Unit 8: Virtual SCSI configurations with dual VIOS
- Exercise 8: Dual VIO server configuration with MPIO in the client partition
- Unit 9: Virtual Fibre Channel devices
- Exercise 9: Virtual Fibre Channel adapter configuration
- Unit 10: HMC Service Management
- Exercise 10: Manage service events
- Unit 11: PowerVM advanced systems maintenance
- Exercise 11: PowerVM system maintenance
- Exercise 12: (Optional) File-backed virtual SCSI devices