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Power Systems for AIX - Virtualization I: Implementing Virtualization

CODE:	DURÉE:	PRIX H.T.:
AN30G	40 Hours (5 Jours)	€3,990.00

Description

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)*.

This course provides lectures and hands on labs in a face-to-face classroom setting. The course is also offered in a live virtual classroom environment (ILO - Instructor Led Online) with hands-on labs Power *Systems for AIX - Virtualization I: Implementing Virtualization (ILO) (AX301)*.

If you are enrolling in a Self Paced Virtual Classroom or Web Based Training course, before you enroll, please review the **Self-Paced Virtual Classes and Web-Based Training Classes** on our Terms and Conditions page, as well as the system requirements, to ensure that your system meets the minimum requirements for this course.
http://www.ibm.com/training/terms

Objectifs

- 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

Audience

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.

Training Development

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Prérequis

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:

- P*ower Systems for AIX II: AIX Implementation and Administration (AN120)* **or** *Power Systems for AIX II: AIX Implementation and Administration (ILO) (AX120)*
- *AIX Jumpstart for UNIX Professionals (AN140)* **or** *AIX Jumpstart for UNIX Professionals (ILO) (AX140)*
- **or** you must have equivalent AIX and LPAR skills.

General TCP/IP knowledge is strongly recommended. This prerequisite may be met by attending *AIX 5L TCP/IP I: Configuration (AU070)* **or** *TCPIP for AIX Administrators (AN210) / TCPIP for AIX Administrators (ILO) (AX210)*.
You 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 (AN110)* **or** *Power Systems for AIX I: LPAR Configuration and Planning (ILO) (AX110)*.

Programme

Day 1

- Unit 1: Introduction to partitioning
- Exercise 1: Power System documentation overview
- Unit 2: Processor virtualization
- Exercise 2: Processor virtualization configuration

Day 2

- Unit 3: Integrated Virtual Ethernet
- Exercise 3: Integrated Virtual Ethernet configuration
- Unit 4: Virtual Ethernet
- Exercise 4: Virtual Ethernet Adapter configuration
- Unit 5 - Topic 1: Virtual I/O Server and virtual devices
- Exercise 5 - Topic 1: Virtual I/O Server and client partition configuration

Day 3

- Unit 5 - Topic 2: Virtual I/O Server and virtual devices
- Exercise 5 - Topic 2: Virtual I/O Server and client partition configuration
- Unit 6: Virtual network configurations with dual VIOS
- Exercise 6: Shared Ethernet adapter failover setup

Day 4

- Unit 7: Virtual SCSI configurations with dual VIOS
- Exercise 7: Dual VIO servers configuration with MPIO in the client partition
- Unit 8: N_Port ID Virtualization
- Exercise 8. Virtual Fibre Channel adapter configuration
- Unit 9: Migration from Physical to Virtual Storage

Day 5

- Unit 10: HMC Service Management.
- Exercise 9: Manage Service Events
- Unit 11: PowerVM advanced systems maintenance
- Exercise 10: PowerVM system maintenance
- Exercise 11: (Optional) file-backed virtual disk and virtual media repository configuration

Options

Cours magistral avec travaux pratiques sur IBM Power Systems.

Dates de session

Date	Lieu	Time Zone	Langue	Type	Garanti	PRIX H.T.
13 May 2024	Virtual Classroom	CEDT	English	Instructor Led Online		€3,990.00
18 Nov 2024	Virtual Classroom	CET	English	Instructor Led Online		€3,990.00
02 Sep 2024	Virtual Classroom	CEDT	English	Instructor Led Online		€3,990.00

Informations Complémentaires

Cette formation est également disponible sous forme de formation sur site. Veuillez nous contacter pour en savoir plus.