



**Enterprise Computing Solutions - Education Services**

## **TRAINING OFFERING**

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Email: [training.ecs.fr@arrow.com](mailto:training.ecs.fr@arrow.com)  
Phone: 01 49 97 50 00



## 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:

- *Power 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	Yes	€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.