Course : IBM PowerVM: Implementing Virtualization (AN30G)

Official IBM course

Practical course - 5d - 35h00 - Ref. IB3
Price : 4450 € E.T.

[Nouvelle édition]

With this course, you'll gain a complete understanding of the features of PowerVM editions on Power processor-based systems. You'll learn about the new features and benefits of virtualization, including processor virtualization, Virtual I/O Server (VIOS) and virtual peripherals, such as virtual Ethernet, virtual SCSI and virtual Fibre Channel adapters. Basic and advanced configurations of Virtual I/O Server (VIOS) and its clients are covered, including various availability options.

Teaching objectives

At the end of the training, the participant will be able to:

- List the reasons for implementing virtual I/O
- Describe virtual I/O devices
- Describe the function of the Virtual I/O Server (VIOS)
- Configure virtual SCSI devices backed up by physical volumes, logical volumes...
- Create the optical media repository, load a CD image and use it to install an AIX partition.
- Describe how to configure virtual Fibre Channel devices using NPIV technology
- Configure Ethernet link aggregation for load balancing and backup channel in VIOS
- Configure shared Ethernet adapter failover and load balancing
- Configuring vNIC failover
- Perform Virtual I/O Server maintenance operations

Intended audience

Administrateurs système, personnel de support technique et partenaires commerciaux responsables de la mise en œuvre des partitions logiques sur IBM Power Systems avec des serveurs AIX.

Prerequisites

Advanced system administration experience with AIX 6 or AIX 7. Knowledge of TCP/IP strongly recommended. Logical partition administration skills on Power Systems servers.

Practical details

Teaching methods

Animation de la formation en français. Support de cours officiel au format numérique et en anglais. Bonne compréhension de l'anglais à l'écrit.

Course schedule

(1) Module 1

- Introduction to partitioning.
- Processor virtualization.

Hands-on work

Overview of power system documentation. Processor virtualization configuration.

(2) Module 2

- Integrated virtual Ethernet.
- Virtual Ethernet adapter.
- Part 1: Virtual I/O Server and virtual peripherals.

Hands-on work

Integrated virtual Ethernet configuration. Virtual Ethernet adapter configuration. Topic 1: Configuration of Virtual I/O Server and client partitions.

(3) Module 3

- Part 2: Virtual I/O Server and virtual peripherals.
- Virtual network configurations with dual VIOS.

Hands-on work

Topic 2: Configuration of Virtual I/O Server and client partitions. Configuration of shared Ethernet adapter failover.

(4) Module 4

- Virtual SCSI configurations with dual VIOS.
- Virtualization of N_Port ID.
- Migration from physical to virtual storage.

Hands-on work
Configuration of two VIOS servers with MPIO in the client partition. Virtual Fibre Channel adapter configuration.

(5) Module 5

- HMC service management.
- Advanced maintenance of PowerVM systems.

Hands-on work
Manage service events. PowerVM system maintenance. Configuration of a file-backed virtual disk and virtual media repository (optional).

Dates and locations

REMOTE CLASS
2026 : 8 June, 30 Nov.

PARIS LA DÉFENSE
2026 : 8 June, 30 Nov.