

# 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

## **PARTICIPANTS**

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.

## **TRAINER QUALIFICATIONS**

The experts who lead the training courses are specialists in the subjects covered. They are approved by the publisher and certified for the course. They have also been validated by our teaching teams in terms of both professional knowledge and teaching skills for each course they teach. They have at least three to ten years of experience in their field and hold or have held positions of responsibility in companies.

## 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.

## ASSESSMENT TERMS

Assessment of targeted skills prior to training.

Assessment by the participant, at the end of the training course, of the skills acquired during the training course.

Validation by the trainer of the participant's learning outcomes, specifying the tools used: multiple-choice questions, role-playing exercises, etc.

At the end of each training course, ITTCERT provides participants with a course evaluation questionnaire, which is then analysed by our teaching teams. Participants also complete an official evaluation of the publisher.

An attendance sheet for each half-day of attendance is provided at the end of the training course, along with a certificate of completion if the participant has attended the entire session.

## TEACHING AIDS AND TECHNICAL RESOURCES

The teaching resources used are the publisher's official materials and practical exercises.

## TERMS AND DEADLINES

Registration must be completed 24 hours before the start of the training course.

## ACCESSIBILITY FOR PEOPLE WITH DISABILITIES

Do you have specific accessibility requirements? Contact Ms FOSSE, disability advisor, at the following address: psh-accueil@orsys.fr so that we can assess your request and its feasibility.

## 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.