IBM PowerVM: Implementing Virtualization

Duration: 5 Days Course Code: AN30G

Overview:

Expand your knowledge of PowerVM features like basic and advanced configurations of the Virtual I/O Server and its client partitions, as well as various availability options.

As IBM Power continues to evolve, IT professionals must stay current with the latest innovations.

Our IBM PowerVM course is designed to provide a comprehensive understanding of processor virtualization concepts, Virtual I/O Server configurations, and virtual devices, including virtual Ethernet, virtual SCSI, and virtual Fibre Channel adapters.?

Through a combination of lectures and hands-on labs, the course provides the knowledge and skills needed to work effectively with IBM Power virtualization. Experienced instructors will guide you through basic and advanced configurations of the Virtual I/O Server and its client partitions, as well as various availability options.?
Expand your knowledge of the PowerVM features introduced in IBM Power Virtualization Fundamentals (AN11G).?This course has been updated to ERC 10.0.

Updated 21/09/2026

Target 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.

Objectives:

- **After this course, participants should 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 ?
- Configure virtual SCSI devices that are backed by physical volumes, logical volumes, optical media devices, and file-backed devices ?
- Create the Optical Media Repository, load a CD image, and use it to install a new AIX partition
- Describe how to configure virtual Fibre channel devices using NPIV technology
- Configure Ethernet link aggregation for load balancing and backup channel in the VIOS
- Configure Shared Ethernet adapter failover and load sharing
- Configure vNIC failover
- Perform Virtual I/O Server maintenance operations

Prerequisites:

You must have advanced system administration experience with 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)

Testing and Certification

Alternatively, you must have equivalent AIX and LPAR skills.

General TCP/IP knowledge is strongly recommended.

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).

Attending this course allows participants to gain an IBM Badge distributed by Credly.

This course also participates in the skills acquisition for preparing IBM AIX v7.3 Administrator Specialty certification **(Exam S2000-025: IBM AIX v7.3 Administrator Specialty).**

Number of questions: 45 - Number of questions to pass: 32 - Time allowed: 75 minutes

Follow-on-Courses:

- Mastering IBM AIX: Performance Management (AN51G)

Content:

Unit 1 - Virtual I/O Server Configuration

Exercise 1 - Virtual I/O Server Configuration?

Unit 2 - Virtual SCSI Configuration

Exercise 2 - Dual VIOS Virtual SCSI Configuration

Unit 3 - File-backed Storage Devices

Exercise 3 - Configuring File-backed Optical Devices and OMR (Optical Media Repository)

Unit 4 - Virtual Fibre Channel Storage Devices

Exercise 4 - Dual VIOS Virtual Fibre Channel Configuration

Unit 5 - Virtual Ethernet Networking

Exercise 5- Virtual Ethernet Networking Configuration

Unit 6 - Shared Ethernet Adapter Configurations

Exercise 6 - Dual VIOS Shared Ethernet Adapter Configurations

Unit 7 - Virtual Network Interface Controllers (vNICs) and vNIC Failover

Exercise 7 - Virtual Network Interface Controllers (vNICs) and vNIC Failover Configuration

Unit 8 - VIOS Maintenance

Exercise 8 - VIOS Maintenance Operations

Wrap up and Course evaluation

Additional Information:

Official course book provided to participants

Further Information:

For More information, or to book your course, please call us on 00 20 (0) 2 2269 1982 or 16142

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