

Power Systems for AIX – Virtualization II: Advanced PowerVM and Performance

Kód kurzu: AN31G

Students in this course will learn how to implement advanced IBM PowerVM features, such as Active Memory Expansion, shared dedicated processors and multiple shared processor pools. Students will also be exposed to new availability and performance management features such as Simplified Remote Restart, Hybrid Network Virtualization and enhanced VIOS administration using the HMC. Additionally, students will learn skills to implement, measure, analyze and tune PowerVM virtualization features for optimal performance on IBM Power servers. This course focuses on two main areas. First, the features that relate to the performance of IBM Power servers, AIX, VIOS and the special monitoring, configuring, and tuning needs of logical partitions (LPARs). This course does not cover application monitoring and tuning. Second, the course will explore advanced features for availability and managing and monitoring virtualization and PowerVM virtualized workloads on IBM Power. Students will also learn AIX performance analysis and tuning tools that help an administrator take advantage of shared processors and other virtualization features of the IBM Power servers. Hands-on lab exercises reinforce each lecture and give the students practical experience.

Pobočka	Dní	Katalógová cena	ITB
Praha	5	67 000 Kč	0
Brno	5	67 000 Kč	0
Bratislava	5	2 730 €	0

Všetky ceny sú uvedené bez DPH.

Termíny kurzu

Dátum	Dní	Cena kurzu	Typ výučby	Jazyk výučby	Lokalita
16.06.2025	5	67 000 Kč	Prezenčný	CZ/SK	Praha - TD Synnex Academy
16.06.2025	5	67 000 Kč	Online	CZ/SK	Partner online live
16.06.2025	5	2 730 €	Online	CZ/SK	GOPAS Bratislava online
08.12.2025	5	67 000 Kč	Online	CZ/SK	Partner online live
08.12.2025	5	67 000 Kč	Prezenčný	CZ/SK	Praha - TD Synnex Academy
08.12.2025	5	2 630 €	Online	CZ/SK	GOPAS Bratislava online
08.12.2025	5	2 730 €	Online	CZ/SK	GOPAS Bratislava online

Všetky ceny sú uvedené bez DPH.

Pre koho je kurz určený

This advanced course is for anyone responsible for implementing and managing virtualization features on a System p server including:

- AIX technical support individuals
- System administrators
- Systems engineers
- System Architects

Čo Vás naučíme

Describe the effect of the POWER6 virtualization features on performance and monitoring, such as:

- Simultaneous Multithreading (SMT)
- Micro-Partitioning
- Multiple Shared Processor Pools (MSPP)
- Shared dedicated capacity
- Active Memory Sharing (AMS) and other virtualization features

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Interpret the outputs of AIX 6.1 performance monitoring and tuning tools used to view the impact of SMT, Micro-Partitioning, additional shared processor pool activations and device virtualization. The tools include:

- vmstat
- iostat
- sar
- topas
- trace
- curt
- mpstat
- lparstat
- smtctl

List various sources of information and support related to AIX 6.1 performance tools, system sizing, system tuning, and AIX 6.1 enhancements and new features

Perform a Live Partition Mobility between two different POWER6 servers

Describe the New features available with the Virtual I/O Server version 2.1 and version 2.2 such as:

- N_port ID Virtualization
- Heterogeneous Multi-threading
- Virtual Tape devices
- Active Memory sharing

Describe and implement the Active Memory Sharing feature

Požadované vstupné znalosti

You should have taken:

- *Power Systems for AIX I: LPAR Planning and Configuration (AN11)*
- **or**
- *(AX11)*
- **or**
- *Power Systems for AIX - Virtualization I: Implementing Virtualization (AN30)*
- **or**
- *(AX30)*
- **or**
- have equivalent LPAR skills

Študijné materiály

Průručka ku kurzu firmy Gopas podľa programu kurzu.

- Unit 1: PowerVM features review
- Exercise 1: Introduction to the lab environment
- Unit 2: Shared processors and virtual processor tuning
- Exercise 2: Shared processors and virtual processor tuning
- Unit 3: Configuring multiple shared processor pools and donating dedicated processors
- Exercise 3: Configuring multiple shared processor pools and donating dedicated processors
- Unit 4: Active Memory Sharing
- Exercise 4: Active Memory Sharing
- Exercise 4: Active Memory Sharing (continued)
- Unit 5: Active Memory Expansion
- Exercise 5: Active Memory Expansion

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- Unit 6: I/O device virtualization performance and tuning
- Unit 6: I/O device virtualization performance and tuning (continued)
- Exercise 6: I/O device virtualization performance and tuning
- Unit 7: Live Partition Mobility
- Exercise 7: Live Partition Mobility
- Unit 8: Suspend and resume
- Exercise 8: Suspend and resume
- Unit 9: Virtualization management tools
- Wrap up/Evaluations

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