

Overview PC Virtualization

Training

Let MindShare Bring “PC Virtualization” to Life for You

Virtualization is one of the most exciting areas in the PC industry today, generating significant revenue, and solving critical problems in the PC data centre. This class is to give an overview of what virtualization is, and what IT problems it solves, and also the IT problems that it does not solve. This class also gives an overview of how virtualization is implemented, without going into depth.

You Will Learn:

- What virtualization is, and the revenue generating uses for virtualization.
- The theory of virtualization, dating back to the IBM mainframes of the 60s and 70s, and how that mainframe technology is relevant to PC virtualization today.
- How Intel and AMD have enhanced their processors to help implement classical virtualization.
- How memory and I/O virtualization I achieved today.
- The major sources of overhead with the virtualization techniques in use today.
- How memory and I/O virtualization will change with the new hardware assists, to solve these problems.

Course Length: 1 Day

Who Should Attend?

This course is suitable for people with a general technical background who need an understanding of what virtualization is, how it works, and of some of the issues, but who do not need the deep technical details on how to implement or debug the functionality.

Course Contents:

- Introduction to virtualization, its history and uses
 - Explanation of what virtualization is, with a demonstration.
 - Explores how virtualization can be used.
 - Looks at current revenue generating uses, and offers predictions on where the growth is.
- Virtualization theory – classical “trap and emulate”. The history from IBM.
- Binary translation and paravirtualization.
- Intel VT and AMD-V.
- Hardware paging assists.
- Hardware I/O virtualization assists.
- Brief overview of some virtualization products.

Recommended Prerequisites:

None. Background knowledge of PC architecture will assist in understanding of the material.

Course Material:

MindShare will supply electronic versions of the presentation slides.



world-class technical training

Are your company's technical training needs being addressed in the most effective manner?

MindShare has over 25 years experience in conducting technical training on cutting-edge technologies. We understand the challenges companies have when searching for quality, effective training which reduces the students' time away from work and provides cost-effective alternatives. MindShare offers many flexible solutions to meet those needs. Our courses are taught by highly-skilled, enthusiastic, knowledgeable and experienced instructors. We bring life to knowledge through a wide variety of learning methods and delivery options.

training that fits your needs

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- Scalable cost training
- Customizable training options
- Reducing time away from work
- Just-in-time training
- Overview and advanced topic courses
- Training delivered effectively globally
- Training in a classroom, at your cubicle or home office
- Concurrently delivered multiple-site training

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- ☞ PCI Express 2.0®
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- ☞ AMD Opteron Processor Architecture
- ☞ Intel 64 and IA-32 Software Architecture
- ☞ Intel PC and Chipset Architecture
- ☞ PC Virtualization
- ☞ USB 2.0
- ☞ Wireless USB
- ☞ Serial ATA (SATA)
- ☞ Serial Attached SCSI (SAS)
- ☞ DDR2/DDR3 DRAM Technology
- ☞ PC BIOS Firmware
- ☞ High-Speed Design
- ☞ Windows Internals and Drivers
- ☞ Linux Fundamentals
- ... and many more.

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Public Training

Classroom Training

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Virtual Public Training

Virtual Classroom Training

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MindShare eLearning



Intro eLearning Modules



Comprehensive eLearning Modules

eLearning Module Training

MindShare is also an eLearning company. Our growing list of interactive eLearning modules include:

- **Intro to Virtualization Technology**
- **Intro to IO Virtualization**
- **Intro to PCI Express 2.0 Updates**
- **PCI Express 2.0**
- **USB 2.0**
- **AMD Opteron Processor Architecture**
- **Virtualization Technology**
- **...and more**

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MindShare Press

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