

SQL Server Virtualization for VM Admins

David Klee

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Length:	1 Day
Language:	English
Audience(s):	System Administrators, Storage Administrators
Level:	200-300 (Intermediate)
Technologies:	VMware vSphere, Microsoft Hyper-V, SQL Server

Course Description

Microsoft MVP and VMware vExpert David Klee leads this full-day introduction to enabling and managing a virtualized SQL Server environment. The focus of the course is to help those infrastructure systems professionals who manage a business-critical virtual SQL Server environment understand the impact of SQL Server on their environments and how to better architect the platform to maximize availability and performance. Participants will gain exposure to the impact of virtualized SQL Server to all layers of virtualization underneath SQL Server, from storage to hypervisor to the SQL Server instance, and will learn how to construct the entire stack with a strong emphasis on SQL Server performance. High availability, disaster recovery, multi-tenancy, and performance tuning topics will all be explored during the session.

Intended Audience

The intended audience of this course is information workers (both business and IT-centric) involved with architecting a virtualization strategy for SQL Server, or managing business-critical SQL Servers that have already been virtualized.

Course Topics

The following topics will be addressed during the course:

- What is SQL Server?
- The SQL Server Virtual Machine
- Networking, Support, and Licensing
- High Availability and Disaster Recovery
- Performance Investigation and Tuning of the Entire Stack

Course Objectives

Upon completion of this course, attendees will be able to:

- Understand key SQL Server architecture and engine concepts
- Determine the optimal infrastructure configuration for best performance
- Construct a SQL Server virtual machine template with best practices for agility and performance
- Understand how and what stack metrics to benchmark and baseline to ensure proper objective performance measurement

- Identify and remediate common virtualized SQL Server performance killers
- Understand proper virtualized capacity management techniques for long term management

Prerequisites

Attendees with the following experiences will benefit the most from this course:

- Familiarity with the components of a virtual infrastructure stack, such as storage, physical servers, networking and interconnects, and VM construction
- Exposure to server performance metric measurement and identification

A working set of the screens and configuration settings referenced in the session, together with the reference slides and documentation, will be provided to attendees, for strategic reference in working with virtualized SQL Server in their own environments.

Please contact David with any questions: dklee@heraflux.com.



David Klee is a Microsoft MVP and VMware vExpert with over seventeen years of IT experience. David spends his days handling performance and HA/DR architecture of mission-critical SQL Servers as the Founder of Heraflux Technologies. His areas of expertise are virtualization and performance, datacenter architecture, and risk mitigation through high availability and disaster recovery. When he is not geeking out on technologies, David is an aspiring amateur photographer. You can read his blog at davidklee.net, and reach him on Twitter at [@kleegeek](https://twitter.com/kleegeek).

David speaks at a number of national and regional technology related events, including the PASS Summit, VMware Partner Exchange, IT/Dev Connections, SQL Saturday events, SQL Cruise, PASS virtual chapter webinars, and many SQL Server User Groups.