

Virtualization for SQL Server DBAs

David Klee

VMware vExpert 2013, MCITP, VCAP-DCD, VCP-Cloud
Founder and Chief Architect,
Heraflux Technologies – www.heraflux.com
dklee@heraflux.com

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

Course Description

VMware vExpert and SQL Server performance expert David Klee leads this full-day, hands-on introduction to enabling and managing a virtualized SQL Server environment. The focus of the course is to help those new to virtualization and/or infrastructure concepts to become familiar with the concept and purposes of virtualization and how it can benefit them as data professionals. Participants will gain exposure 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.

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, as time permits:

- Virtualization and Infrastructure Fundamentals
- Private Cloud Concepts
- The SQL Server Virtual Machine
- Security, Networking, Support, and Licensing
- High Availability and Disaster Recovery
- Performance of the Entire Stack
- Physical vs. Virtual Proof of Concept
- Common Issues and Remediation Techniques

Course Objectives

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

- Understand key virtualization and cloud 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:

- Basic familiarity with the core components of a server
- SQL Server installation and configuration
- Exposure to SQL 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, VMware vExpert 2013, is a SQL Server performance and virtualization expert. With over sixteen years of IT experience, David spends his days handling performance and HA/DR architecture of physical and virtualized mission critical SQL Servers as the Founder and Chief Architect for Heraflux Technologies. His areas of expertise are virtualization and performance, datacenter architecture, software engineering, security, and business process analysis. When not geeking out on database and infrastructure technologies, David enjoys anything with a motor and 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. The numerous events include the SQL PASS Summit, VMware Partner Exchange, numerous SQL Saturday events, VMware User Groups, SQL PASS virtual chapter webinars, and many SQL Server User Groups.