

Forget Mission Impossible—This is Mission Critical: High Availability for SQL Server 2008 and 2012

June 18-20, 2012 • 9:00 AM – 5:00 PM
100 Trade Center • Office 775 • Woburn, MA 01801



COURSE DESCRIPTION

Whether your business hours are 9 to 5 or 24x7x365, your systems need to be up when you need them. How you get to the availability you need is a combination of people, process, and technology. At the end of the course, you will have real-world knowledge based on actual implementations, not just theory, that you can go back and use immediately.

This three-day course with Microsoft MVP and high availability guru Allan Hirt will dive into the new features and enhancements within SQL Server 2012 (as well as 2008), including the enhanced multi-site failover clusters and AlwaysOn availability groups. Windows 8 Server and Server Core will also be discussed as they relate to highly available SQL Server deployments.

WHO SHOULD ATTEND?

This course is perfect for SQL Server DBAs eager to get an early understanding of SQL Server 2012 and what it means for creating and maintaining mission-critical database systems. All those interested in SQL Server high availability and the changes within SQL Server 2012 are encouraged to attend, although at least one year of DBA experience is suggested. Some basic experience with Windows and hardware, as they relate to the database, is also recommended.



Instructor: Allan Hirt

Allan Hirt is a Microsoft MVP and founder of SQLHA, a solutions-based high availability consulting firm, whose clients include JPMorgan Chase and Timberland. He is the author of Pro SQL Server 2008 Failover Clustering.

**VIEW THE FULL COURSE OUTLINE
ON THE FOLLOWING PAGE**

REGISTRATION

\$1500.00*

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920 Main Street, Woburn, MA

Applebee's

2 Elm Street, Woburn, MA

COURSE OUTLINE

Forget Mission Impossible—This is Mission Critical: High Availability for SQL Server 2008 and 2012

Day 1

- ▶ **Mission Critical Basics:** Ensuring that your SQL Server databases are reliable, available, and highly performing takes much more than just technology or a single feature in SQL Server. Your overall strategy should encompass people and processes, both of which will be covered.
- ▶ **Windows Deployment for SQL Server:** One of the challenges that many DBAs face is ensuring that the underlying Windows builds are done correctly. Topics such as deploying SQL Server 2012 on Windows Server Core will be covered, as well as the Windows portion of failover clustering from a SQL Server perspective. Windows 8 Server will also be covered in some capacity.
- ▶ **SQL Server Failover Clustering:** Besides understanding the Windows portion of clustering, it is essential to know the SQL Server component as well. Learn how to plan, deploy, and administer clustered instances of SQL Server, including multi-site clusters using SQL Server 2012.

Day 2

- ▶ **SQL Server Failover Clustering:** Continued from Day 1
- ▶ **Database Mirroring, Log Shipping, and Replication:** These three features have been in SQL Server for quite some time and are remain valid options for part of your overall SQL Server availability strategy. Each feature will be explored, and you will learn the most important aspects for planning, deployment, and administration, including the best scenarios for when to use them.
- ▶ **AlwaysOn Availability Groups:** A key new feature of SQL Server 2012 is AlwaysOn availability groups. Learn how to implement and administer this new feature, which is built upon a foundation of Windows failover clustering as well as database mirroring.

Day 3

- ▶ **Backup and Restore:** Arguably the most important aspect of any availability strategy is implementing a solid backup and restore design. This step will be discussed in detail.
- ▶ **Day-to-Day Administration to Enhance Uptime:** Keeping servers, instances, and databases running is more than deploying one of the features covered in this course. There is routine maintenance to consider, as well as periodic patching/upgrading that must occur. Not only are there tasks, but you also need to keep on top of things by monitoring to see when things are a problem—or will be a problem. The top things that you must do to remain up will be covered.
- ▶ **Solution Design:** Last but certainly not least: It isn't enough to simply understand the technologies individually. You need to bring all of the requirements—both technical and non-technical, platform and administration—together and design the right solution for your deployment. You will learn how to approach this challenge and balance the different requirements and factors to produce an actionable plan, not just something that will live in a document.