

SQLskills Immersion Event

IE0: Accidental/Junior DBA

Module 0: Overview



Daily Course Format – Mon, Tue, Wed, and Th

- **Class runs for EIGHT half days**

- Monday, September 14 through Thursday, September 17, 2020
- **AND**, Monday, September 21 through Thursday, September 24, 2020

- **Each day**

- Lecture 1: 90 minutes from 12noon until 1:30pm ET
 - Please use “CHAT” for questions **during** the lecture
- Open Q&A 1: 30 minutes from 1:30pm until 2:00pm ET
 - Will address unanswered questions from chat
- Mandatory break: 30 minutes from 2:00pm ET until 2:30pm ET
 - Everyone needs a bit of a break!
- Lecture 2: 90 minutes from 2:30pm until 4:00pm ET
 - Please use “CHAT” for questions **during** the lecture
- Open Q&A 1: up to 60 minutes from 4:00pm until 5:00pm ET
 - Will address unanswered questions from chat
 - Can open up for “open mic” questions

Time Conversions

9:00am PT
= Noon ET
= 5:00pm UTC
Use this to see the
exact time in YOUR
time zone:

[IEO](#)

Course Resources, Pluralsight Access, and Alumni

- Paul (paul@sqlskills.com) will send you an email for a FREE 30-day access to ALL SQLskills online training classes on Pluralsight
 - No strings attached, no credit-card required
 - If you don't receive it, send mail to Paul
- **Course resources will be sent upon course completion**
- **We may want to update a slide or two, add some notes/resources based on questions and discussions, and process the recordings**
 - Please do not distribute; this is for course attendees only
 - Full details / access information will be sent upon course completion
- **Email us: Training@SQLskills.com if you have any problems finding or accessing any of your course materials**
- **And, now that you've attended one of our courses; you can ALWAYS register using the 'alumnus' discount (without quotes); we hope to see you again!**



PLURALSIGHT

Course Resources

- **Course content (this slide deck)**
 - One “two-slides per side” PDF for optimal printing (save some trees!)
 - One “full slide” PDF for optimal viewing and/or online note-taking
- **Demos**
 - All instructor-led demo scripts
 - All reference scripts
- **Reference links and additional resources**
- **Online recordings for these sessions**

**Please do not redistribute: These resources are for attendees only.
Please respect our IP and time in creating these resources
and do not share/forward.**



Recommendation: Leverage Great Products!



- Even with as much training as we will provide, you can't know everything
- SQL Server is powerful, complex, and has lots of different potential issues let third party software help!
- SQLskills partners with SentryOne because we really feel they've made the best suite of SQL Server products available
- **LEARN MORE:** Join Andy Yun, Principal Solutions Engineer from SentryOne on Friday, September 25, at 11:00am PT
 - ❑ **Going Beyond Just Monitoring With SentryOne**
 - ❑ <https://global.gotomeeting.com/join/347894741>
 - ❑ Attendees of the GoToMeeting will EACH receive:
 - ❑ SQL Sentry Premium subscription license (6 months)
 - ❑ Raffle for additional SentryOne gift pack
 - ❑ Plus, get your questions answered!
 - ❑ Email Andy (*no later than September 24 at 11am PT*) your specific monitoring questions
 - ❑ **MailTo: ayun@sentryone.com**

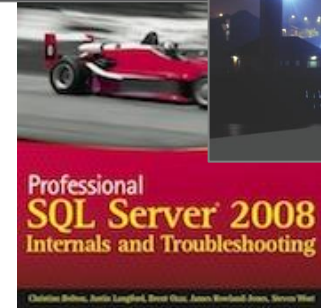
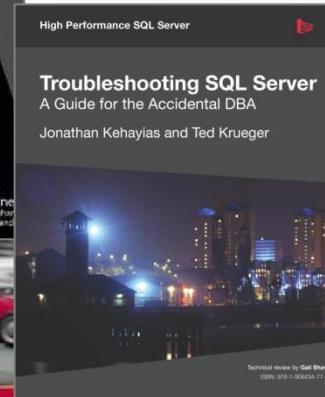
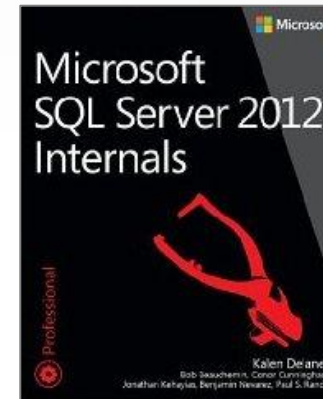


[SQL Server Monitoring](#)

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- Contributing Author: *SQL Server 2008 Internals and Troubleshooting, Microsoft SQL Server 2012 Internals*
- Microsoft Certified Master: SQL Server 2008
- SQL Server MVP since October 2008
- Author of Using Extended Events whitepaper on MSDN
- Developed Extended Events Manager SSMS Addin for SQL Server 2008 Open Source project on Codeplex
- Member of the Tampa SQL Server User Group and PASS



Author/Instructor:

Erin Stellato



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- Principal Consultant, [SQLskills.com](https://www.sqlskills.com)
 - Email: Erin@SQLskills.com
 - Blog: <https://www.sqlskills.com/blogs/Erin>
 - Twitter: @ErinStellato
- Data Platform MVP since January 2012
- PASS volunteer since 2010
- 12 years working for software vendors, helping to support customer implementations in a variety of ways
- 13 years as a SQL Server professional



M1: Hardware Considerations

- The importance of processor selection
- Intel or AMD processors?
- How to evaluate and compare processors
- Determining how much physical memory to buy
- Planning SQL Server I/O subsystems
- SAN considerations
- Virtualization considerations

M2: Installation and Configuration

- Installation best practices
- Configuration best practices
- Setting up database mail and alerts
- Database settings
- Database file layouts

M3: Security

- Securing SQL Server
- Authentication
- Authorization
- Auditing access
- SQL injection risks
- Database encryption

M4: Backup and Restore

- The transaction log and database recovery models
- Backup fundamentals
- Restore fundamentals

M5: Disaster Recovery and High Availability

- Understanding RPO and RTO
- Planning a recovery strategy to meet RPO and RTO
- Failover clustering
- Database mirroring
- Availability groups
- Log shipping

M6: Database Maintenance

- Index management
- The impact of shrink
- Statistics management
- Consistency checking
- Planning for data purging and ETL processes

M7: Monitoring

- Wait statistics analysis
- Collecting and analyzing Perfmon data
- Automating baseline data collections
- Blocking

M8: Checklists

- **Hardware checklist**
- **Installation checklist**
- **Security checklist**
- **Disaster recovery checklist**
- **Maintenance checklist**

Open SQL Server Q/A

- We can't cover everything in 3 days, but we want to answer any questions you might have about SQL Server:
- Example topics:
 - Availability Groups
 - Backup/Restore
 - Blocking
 - Cloud (Azure, AWS, RDS, etc)
 - Clustering
 - Columnstore
 - Corruption
 - Deadlocks
 - Disaster Recovery
 - Encryption
 - Extended Events
 - Fragmentation
 - High Availability
 - Indexing
 - In-Memory OLTP
 - Latches
 - Locking
 - Log Shipping
 - Maintenance
 - Mirroring
 - Performance
 - Query Store
 - Security
 - SQL Trace/Profiler
 - Statistics
 - Troubleshooting
 - Virtualization
 - Wait Statistics
 - Whatever you have?