

# 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:  
[IE0](#)



## Course Resources, Pluralsight Access, and Alumni

- Paul ([paul@sqlskills.com](mailto: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](mailto: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



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## 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.



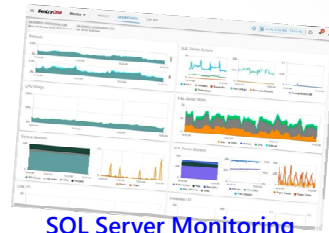
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## Recommendation: Leverage Great Products!

**SentryOne**™

- 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](mailto:ayun@sentryone.com)



SQL Server Monitoring



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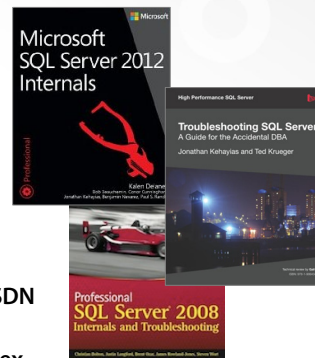
## Author/Instructor: Jonathan Kehayias

Microsoft  
CERTIFIED  
Master

SQL Servers 2008



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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



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  - 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



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## 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



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## 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?