

SQLskills Immersion Event

IEAzure: Azure VMs and Azure SQL Database

Module 0: Overview

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Daily Course Format – Tue, Wed, and Th

- **Class runs for SIX half days**

- Tuesday, February 23 through Thursday, February 25, 2021
- **AND**, Tuesday, February 2 through Thursday, February 4, 2021

- **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:

[IEAzure](https://www.sqlskills.com/IEAzure)

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 receive an alumnus discount for live courses! Just send an email to Training@SQLskills.com so we can give you a discount code!



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.**



IEAzure

- **This course is about knowing:**
 - Understanding Azure and the Azure Fabric
 - How to set up an Azure Virtual Machine with SQL Server
 - Methods for migrating from on-premises to Azure VMs
 - Understanding and using Azure SQL Database
 - Methods for migrating to Azure SQL Database
 - Understanding and using Azure SQL Database Managed Instance
 - Understanding and using Azure Security features
 - Administration and scheduling options
 - Exploring other Azure features related to the data platform

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 - Blog: <http://www.timradney.com>
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- Microsoft Data Platform MVP
- Chapter Leader "Columbus GA SQL Users Group"
- Former PASS Regional Mentor "South East USA"
- Outstanding PASS Volunteer
- Regular presenter at worldwide conferences on administration, disaster recovery, performance tuning, and Azure
- I like to garden, raise chickens, and volunteer with the Boy Scouts



M1: Azure Overview and the Azure Fabric

- Azure Storage
- Networking
- Azure Portal and Marketplace
- Overview of Tools for Connecting and Monitoring

M2: Azure Virtual Machines

- Azure Overview
- Networking options
- Active Directory Integration from on-premises
- Deploying Azure VMs and installing SQL Server on Azure VMs
- Maintenance considerations for SQL Server
- HA/DR options and how you can extend on-premises to Azure
- Performance scaling compared to on-premises
- Billing and licensing considerations

M3: Migrating to Azure Virtual Machines

- Collecting on-premises data for sizing
- Benchmarking Azure virtual machines
- Choosing the correct size virtual machine
- Migration strategies
- Pros and cons

M4: Azure SQL Database

- Overview
- Features
- Missing options
- Azure pricing
- Creating Azure SQL Databases
- Maintenance considerations
- Automation
- Monitoring and alerting

M5: Migrating to Azure SQL Database

- DTU Calculator
- Migrating databases to Azure SQL Database
- Tuning options
- Connectivity
- Azure Data Studio

M6: Azure SQL Database Managed Instance

- Managed Instance
- What sets Managed Instance apart?
- Migrating to Managed Instance
- Additional features
- Technical specs
- Pricing
- Migration Methods

M7: Azure Security

- Azure Security Center
- Operational Insights
- Log Analytics
- Vulnerability Assessments
- Data Classification
- Threat Detection

M8: Administration/Scheduling

- Azure Automation
- Elastic jobs
- Powershell

M9: Additional Azure Features

- Azure SQL Data Warehouse
- Azure Data Factory
- Azure Analysis Services
- Power BI