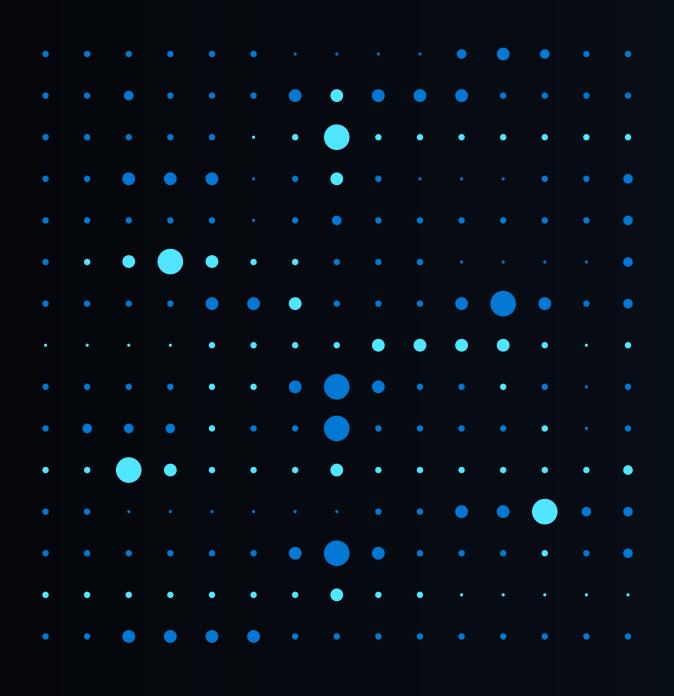


Activate Azure SQL Performance Tuning and Optimization

California Department of Housing and Development

December 16th – 19th, 2024

9:00am - 4:00pm PST





John Deardurff

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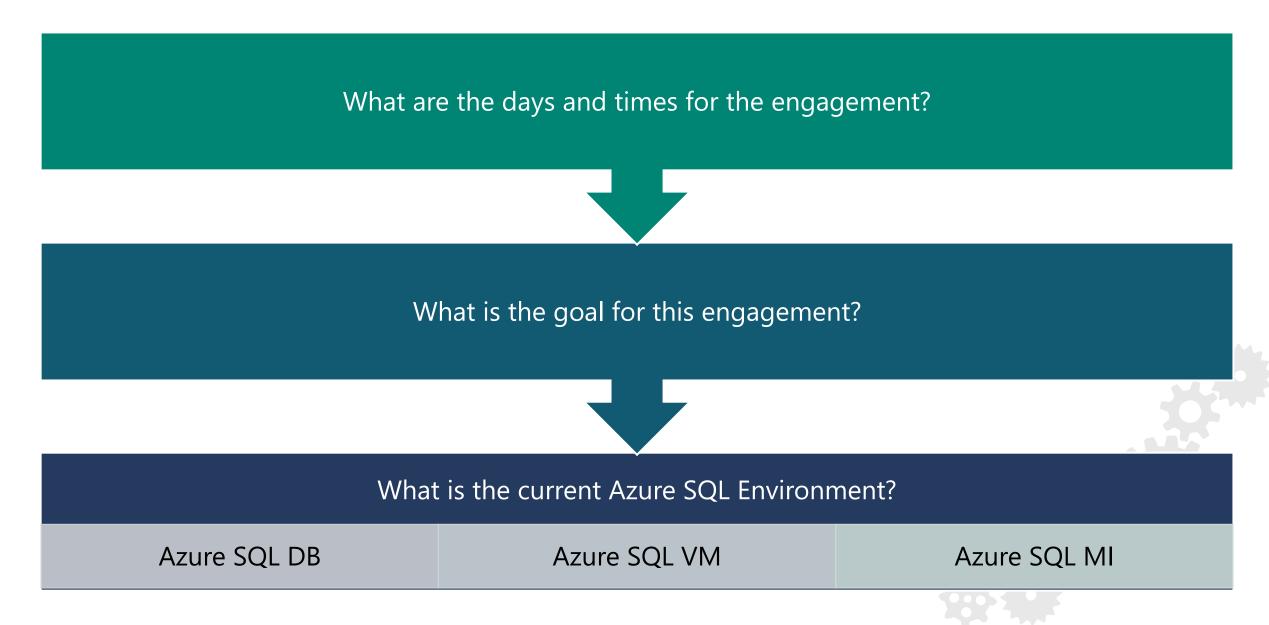


Engagement Overview

The Activate Azure SQL Performance Tuning and Optimization offering is intended to educate customers on how to optimize their Azure SQL Virtual Machine (VM), Azure SQL Database (DB), or Azure SQL Managed Instance (MI) environments. The program is designed to educate and discuss customer needs.

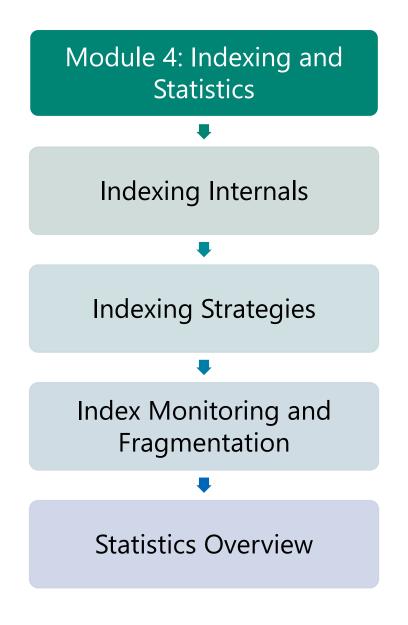
This service is not only for DBAs, but also every role that could take advantage of this Activate would participate of this delivery.

Scoping Questions?



Module 1: Introduction to Azure SQL Basic concepts of Azure SQL Create an Azure SQL Database Working with Managed Instances **Business Continuity Features**

Module 3: Transactions and Module 2: Access and Permissions Concurrency Implement Entra ID Security **SQL Server Transactions** Manage Logins in Azure SQL **SQL Server Locking Blocking and Deadlocking**



Module 5: SQL Server Query Execution and Plans

SQL Server Query Execution Plans

Query Plan Analysis

SQL Server Plan Cache Internals

Troubleshooting with Query Store

Module 6: Azure SQL Performance Tuning

Alerts and Metrics

Query Performance Insights

Automatic Tuning

Database Reports

Azure SQL Database Watcher

Attendee Introductions

Name

Job/Team/Specialty

Time Zone

Experience

Expectations



Faleminderit Shukran Chnorakaloutioun Dankie Blagodaria Hvala Tak Dank u Tänan **Merci** Danke Kiitos Ευχαριστώ Děkuji A dank Köszönöm Takk Terima kasih Mahalo תודה. Dhanyavād Grazie Grazzi

Thank you!

Дякую

Хвала

Diolch

Kop khun Teşekkür ederim

Ďakujem

Tack

Nandri

Recommended Links – Azure SQL Database

Welcome to the Azure SQL Database Essentials Workshop.

Below you will find some additional information to help continue your learning journey.

- Azure SQL documentation
- Microsoft Learn: Azure Data
- Try the Azure SQL Workshop
- Azure SQL for Beginners
- Azure Database Support Blog
- What's new? Azure SQL Database
- Physical security of Azure datacenters
- Microsoft Azure Sustainability
- Choosing the Correct Tools
- Identify Correct Azure SQL SKU
- Plan and manage costs for Azure SQL Database
- Azure Database Migration Guides
- Azure SQL Capacity Planning
- Resource management in Azure SQL Database
- Create and configure a database watcher
- Monitoring and performance tuning Azure SQL DB
- Performance tuning guidance for Azure SQL DB
- General availability: Elastic Jobs in Azure SQL Database
- Automate Azure SQL Database indexes and statistics
- Autoscaling Azure SQL Databases using Runbooks and Alerts
- Cloud business continuity disaster recovery
- <u>High availability Azure SQL Database</u>
- Zone redundancy for Azure SQL Database
- Data Integrity in Azure SQL Database
- Restore a database from a backup in Azure SQL DB

