

AE with Secure_enclaves doesnotsupport enclave based computation

Last updated by | Soma Jagadeesh | Apr 9, 2021 at 10:59 AM PDT

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Issue

If you enable enclaves (by configuring attestation) when connecting to a database that is not using the DC-series hardware generation (no enclave), you will receive an error messages that says: ***You have specified the enclave attestation URL in the connection string, but the SQL Server instance in use does not support enclave based computations.***

Investigation/Analysis

Some error messages have not been reworded yet for Azure SQL Database and do not reflect the fact Always Encrypted with secure enclaves is configured at the database level (while in SQL Server 2019 it is enabled at the server level).

Mitigation


1. To use Always Encrypted with Secure Enclaves you will need to create your resource group in a region that supports the DC-series hardware configuration. For the list of currently supported regions, see [DC-series](#) . Get Started with Always Encrypted With Secure Enclaves with the following [Tutorial](#) .
2. Always Encrypted with secure enclaves in Azure SQL Database is supported in the following versions of SQL tools: • SQL Server Management Studio, version 18.5.1 or later. • Azure Data Studio, version 1.19 or later


Note: Make sure you specify your database name in the connection dialog. If you don't specify the database name, SSMS connects to the master database. If you set the attestation URL, the connection will fail because the master database does not support enclaves. In such a case, you will receive an error message that looks like this:

RCA (optional)








known bugs and issues specific to Always Encrypted with secure enclaves in Azure SQL Database.

More Information (optional)

Errors can occur at various steps of the above workflow due to misconfigurations. Here are the common attestation errors, their root causes, and the recommended troubleshooting steps: [Troubleshoot common issues when running statements using Enclaves](#) 

Check if you are running into [Known Limitations](#) 

External documentation

- [Set up the secure enclave and attestation in Azure SQL Database](#) 
- [Run Transact-SQL statements using secure enclaves](#) 
- [Manage Keys for Always Encrypted with Secure Enclaves](#) 
- [Create and use indexes on enclave-enabled columns](#) 
- [Develop applications using Always Encrypted with secure enclaves](#) 
- [Configure columns with Always Encrypted with secure enclaves](#) 
- [Troubleshoot common issues when running statements using Enclaves](#) 

Internal Reference (optional)

Root cause path

How good have you found this content?

