Always Encrypted with Secure Enclaves

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Always Encrypted with secure enclaves addresses these limitations by allowing computations on plaintext data inside a secure enclave on the server side. A secure enclave is a protected region of memory within the SQL Server process, and acts as a trusted execution environment for processing sensitive data inside the SQL Server engine. A secure enclave appears as a opaque box to the rest of the SQL Server and other processes on the hosting machine. There is no way to view any data or code inside the enclave from the outside, even with a debugger.

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