

Understanding High Availability and Data Encryption in Integration Services



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Overview



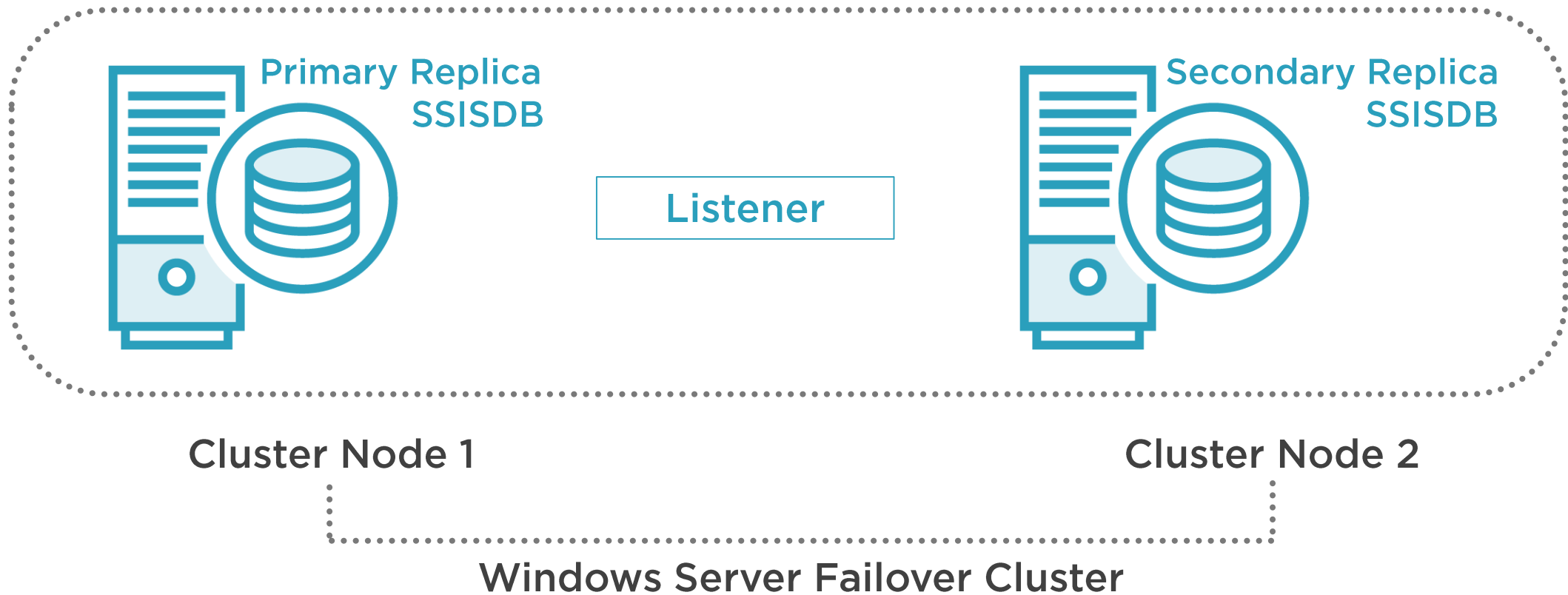
Always On Availability Groups

Always Encrypted



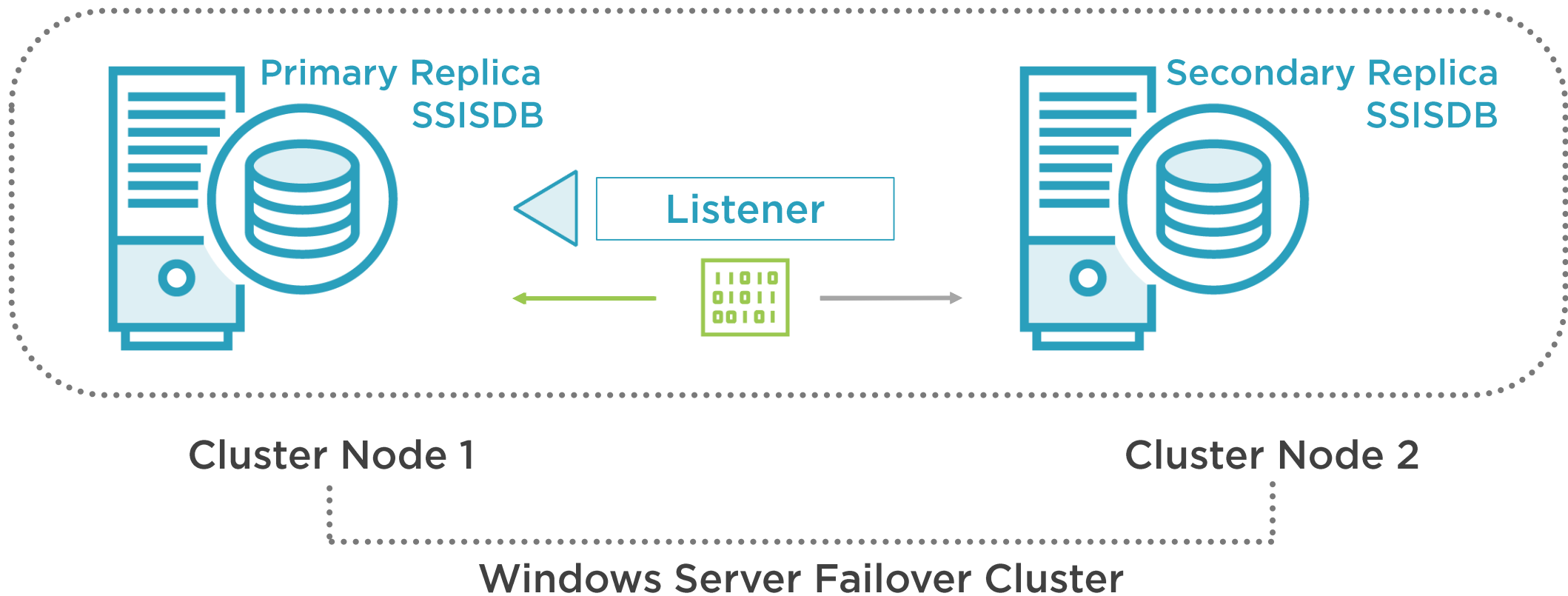
Always On Availability Groups and SSIS

Availability Group



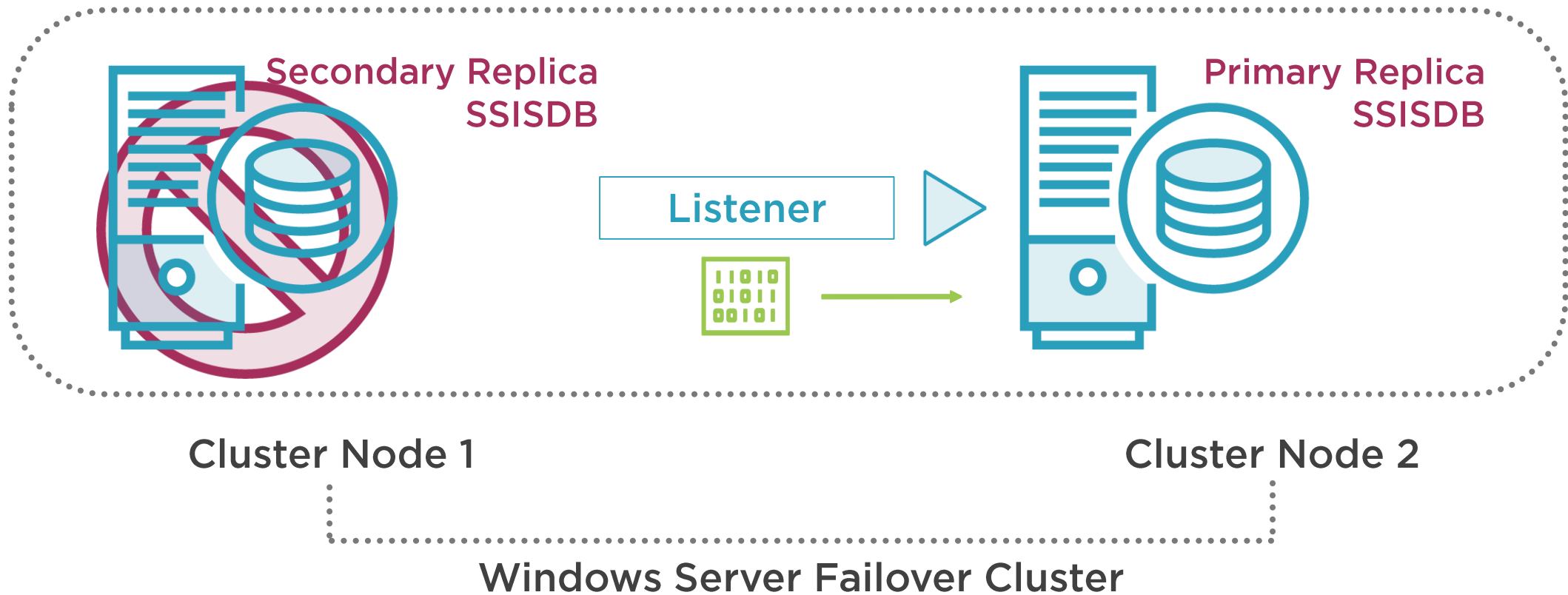
Always On Availability Groups and SSIS

Availability Group



Always On Availability Groups and SSIS

Availability Group



Prerequisites



Prerequisites



Prerequisites

Availability Group



Always Encrypted

SQL Server stores
encrypted data



Client sends
encrypted data



Always Encrypted

SQL Server sends
encrypted data



Client requests
data



Client decrypts
data



ADO.NET Connection



Enable Column Encryption Setting

- Must have Column Master Key (CMK)

Parameterize Execute SQL Task

- Required to insert, update or compare encrypted columns

Data Flow Task

- Data visible as plain text with CMK

Summary



Always On Availability Groups

Always Encrypted

