	Bootstrap Capabilities
Full table snapshot Time range snapshot	When CDC process begins, take a full snapshot of the source table Allow users to configure a start date/time from where to begin taking the snapshot
Parallel snapshot execution	Allow users to configure the number of parallel processes that concurrently snapshot a single source table
Snapshot parallelism	When snapshotting multiple tables, configure how many concurrent snapshots are allowed to run (may require multiple connections to the source DB)
Skip snapshot	Allow users to skip historical snapshot and only process new CDC events Source Connector Ecosystem
RDBMS	Key points: 1. Confirm that the vendor supports all the relational databases your organization requires. 2. Verify that the CDC solution is compatible with the versions of the RDBMS you are currently using or plan to use in the future. Common RDBMS platforms to look for include: 1. Oracle 2. Microsoft SQL Server 3. IBM Db2 4. MySQL 5. PostgreSQL 6. MariaDB 7. SQLite 8. Amazon RDS 9. Google Cloud SQL 10. Azure SQL Database
NoSQL Databases	Key points: 1. Confirm that the vendor supports all the NoSQL databases your organization requires. 2. Verify that the CDC solution is compatible with the versions of the NoSQL you are currently using or plan to use in the future. Common NoSQL platforms to look for include: 1. MongoDB 2. Cassandra 3. Couchbase 4. DynamoDB 5. HBase 6. Redis 7. Elasticsearch 8. Neo4j 9. Amazon DocumentDB 10. Azure Cosmos DB
Mainframe	Support for various mainframe systems (e.g., IBM z/OS, DB2, IMS).
SAP	Does the vendor support the specific SAP modules you are using or plan to use? List all the SAP modules that you need support for, such as: SAP ERP (ECC) SAP S/4HANA SAP BW/4HANA SAP BW/4HANA SAP BW/4HANA
	SAP HANA. For SAP in particular drill into the specific methods available like trigger, Native DB based CDC or application extraction based. Target Connector Ecosystem
	Ability to propagate data changes to event streaming platforms hosted on a variety of platforms on on-premises, hybrid cloud or in public cloud.
Event Stream platforms	Common Event Streaming platforms to look for include: - Apache Kafka
	- Confluent Kafka - Amazon Kinesis
Traditional Data Warehouses	Replication of data changes continuously to traditional on-premises data warehouses. Traditional Data warehouses: - Oracle data warehouse (on-premises)- MS SQL data warehouse (on-premises)
Cloud Data Warehouses	Replication of data changes continuously to modern data warehouses or storage engineered as a cloud service or as a cloud-enabled repository.
NoSQL Databases	- Snowflake, Big Query, Databricks with Delta Lake, AWS S3 Propagation of data changes to NoSQL-type data structures such as graph, table-style, document store and key-value DBMSs
Write Operation	Allow users to define whether the target write operation should be a MERGE or APPEND Essential Features
Latency	Performance numbers are critical; speed is key in CDC tools. Ensure the solution offers low-latency data replication to meet real-time requirements.
Scalability	Check the vendor's performance metrics and key indicators. The solution should scale horizontally and vertically to handle increasing data volumes and transaction rates. Ask for benchmarks if they have one
HA Support	Assess the tool's high availability (HA) support. Is it active-active or active-passive? How is data consistency managed? Verify seamless failover capabilities by testing with a primary server switch-off scenario.
Zero data loss capability	Understand how the tool handles failures and errors to ensure zero data loss and recovery as desired by your organization.
Backlog Processing Point-in-time Recovery	Evaluate the tool's ability to capture historical changes or replay changes from a specific point in time, ensuring comprehensive data capture and recovery capabilities.
rome-in-time necovery	Ensure the solution supports point-in-time recovery to reconstruct the data state at any given moment, aiding in data recovery and integrity. Data Management and Transformation
Data Transformation (In-Flight)	Check the breadth of transformation capabilities that the tool provides. While most ELT patterns focus on just moving data, transformations for operational purposes can be valuable.
ML/AI in flight	Determine if the tool can apply ML algorithms to incoming data in-flight before it is persisted. This can add real-time intelligence and insights to your data streams.
Schema Evolution	This one is a given and checking how the tool handles Schema evolution is critical. Evaluate how the tool handles schema evolution. Ensure it supports 1. Automatic table inclusion 2. Automatic table inclusion
Automatic Schoma Discovery	3. Column name change/ deletion management without impacting the downstream pipeline Ensure the tool can automatically discover the schema of the source and target databases upon registration, simplifying setup and
Automatic Schema Discovery	maintenance. Today with the increased focus on the trustability of the data, can the tool perform Data quality check on the streamed data inflight or once it
Data Quality	
	has landed seamlessly Verify if there are automated validation processes on the source and target sides to ensure proper reconciliation and validation. Is there a
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