Connect to External Systems in Confluent Cloud

Confluent Cloud offers pre-built, fully-managed, Apache Kafka® Connectors that make it easy to instantly connect to popular data sources and sinks. With a simple UI-based configuration and elastic scaling with no infrastructure to manage, Confluent Cloud Connectors make moving data in and out of Kafka an effortless task, giving you more time to focus on app development.

Source connector

A source connector, such as the Microsoft SQL Server Source connector, ingests entire databases and streams table updates to Kafka topics. It can also collect metrics from all of your application servers and store these in Kafka topics, making the data available for stream processing with low latency.

Sink connector

A sink connector delivers data from Kafka topics into secondary indexes, such as Google BigQuery or batch systems like Amazon S3, for offline analysis.

- For connector billing information, see Kafka Connect Billing.
- For connector limitations, see Limits for Fully-Managed Connectors for Confluent Cloud.

Tip

- If you want to bring your custom connector to Confluent Cloud, see Install Custom Connectors for Confluent Cloud.
- Connect with Confluent is a program where partners work with Confluent to set up a Partner Integration. From this integration, your customers can start producing and consuming with a few clicks in your UI. For more information, see Connect with Confluent for Confluent Cloud.

Supported connectors

ent:

- Amazon DynamoDB Sink

- Amazon DynamoDB CDC Source
- Amazon Kinesis Source
- Amazon Redshift Sink
- Amazon S3 Sink
- Amazon S3 Source
- Amazon SQS Source
- AWS Lambda Sink
- Azure Blob Storage Sink
- Azure Blob Storage Source
- Azure Cognitive Search Sink
- Azure Cosmos DB Sink
- Azure Cosmos DB Source
- Azure Data Lake Storage Gen2 Sink
- Azure Event Hubs Source
- Azure Functions Sink
- Azure Log Analytics Sink
- Azure Service Bus Source
- Azure Synapse Analytics Sink
- Databricks Delta Lake Sink
- Datadog Metrics Sink
- Datagen Source (development and testing)
- Elasticsearch Service Sink
- GitHub Source
- Google BigQuery Sink (Legacy)
- Google BigQuery Sink V2
- Google Cloud BigTable Sink
- Google Cloud Functions Gen 2 Sink
- Google Cloud Functions Sink
- Google Cloud Pub/Sub Source
- Google Cloud Spanner Sink
- Google Cloud Storage Sink
- Google Cloud Storage Source
- HTTP Sink
- HTTP Sink V2
- HTTP Source
- HTTP Source V2
- IBM MQ Source
- InfluxDB 2 Sink
- InfluxDB 2 Source
- Jira Source
- Microsoft SQL Server CDC Source (Debezium) [Legacy]
- Microsoft SQL Server CDC Source V2 (Debezium)
- Microsoft SQL Server Sink (JDBC)
- Microsoft SQL Server Source (JDBC)
- MongoDB Atlas Sink
- MongoDB Atlas Source
- MQTT Sink
- MQTT Source
- MySQL CDC Source (Debezium) [Legacy]

- MySQL CDC Source V2 (Debezium)
- MySQL Sink (JDBC)
- MySQL Source (JDBC)
- New Relic Metrics Sink
- OpenSearch Sink
- Oracle CDC Source
- Oracle Database Sink
- Oracle Database Source
- PagerDuty Sink
- PostgreSQL CDC Source (Debezium) [Legacy]
- PostgreSQL CDC Source V2 (Debezium)
- PostgreSQL Sink (JDBC)
- PostgreSQL Source (JDBC)
- RabbitMQ Sink
- RabbitMQ Source Connector
- Redis Sink
- Salesforce Bulk API 2.0 Sink
- Salesforce Bulk API 2.0 Source
- Salesforce Bulk API Source
- Salesforce CDC Source
- Salesforce Platform Event Sink
- Salesforce Platform Event Source
- Salesforce PushTopic Source
- Salesforce SObject Sink
- ServiceNow Sink
- ServiceNow Source
- SFTP Sink
- SFTP Source
- Snowflake Sink
- Solace Sink
- Splunk Sink
- Zendesk Source

Preview connectors

Important

Preview features are not currently supported and are not recommended for production use. A preview feature is a Confluent Cloud component that is being introduced to gain early feedback. Preview connectors and features can be used for evaluation and non-production testing purposes or to provide feedback to Confluent. Comments, questions, and suggestions related to preview features are encouraged and can be submitted to ccloud-connect-preview@confluent.io.

Note that Preview connectors are billed in the same way as other managed connectors. For more information, see Managed connectors and custom connectors.

The following Confluent Cloud connectors are available for preview:

- Google Cloud Dataproc Sink
- Pinecone Sink

Custom connectors

For information about bringing your custom connector to Confluent Cloud, see Install Custom Connectors for Confluent Cloud.

Cloud platforms support

The following table shows the cloud platforms supported by each connector.

Cloud Connector	AWS	Azure	Google Cloud
Amazon CloudWatch Logs Source	Yes	Yes	Yes
Amazon CloudWatch Metrics Sink	Yes	No	No
Amazon DynamoDB Sink	Yes	No	No
Amazon Kinesis Source	Yes	Yes	Yes
Amazon Redshift Sink	Yes	No	No
Amazon S3 Sink	Yes	No	No
Amazon S3 Source	Yes	Yes	Yes
Amazon SQS Source	Yes	Yes	Yes
AWS Lambda Sink	Yes	No	No
Azure Blob Storage Sink	No	Yes	No
Azure Blob Storage Source	Yes	Yes	Yes
Azure Cognitive Search Sink	No	Yes	No
Azure Cosmos DB Sink	No	Yes	No
Azure Cosmos DB Source	No	Yes	No
Azure Data Lake Storage Gen2 Sink	No	Yes	No
Azure Event Hubs Source	Yes	Yes	Yes
Azure Functions Sink	No	Yes	No
Azure Service Bus Source	Yes	Yes	Yes
Azure Synapse Analytics Sink	No	Yes	No
Databricks Delta Lake Sink	Yes	No	No
Datadog Metrics Sink	Yes	Yes	Yes

Cloud Connector	AWS	Azure	Google Cloud
Datagen Source	Yes	Yes	Yes
Elasticsearch Service Sink	Yes	Yes	Yes
GitHub Source	Yes	Yes	Yes
Google BigQuery Sink (Legacy)	No	No	Yes
Google BigQuery Sink V2	No	No	Yes
Google Cloud BigTable Sink	No	No	Yes
Google Cloud Dataproc Sink	No	No	Yes
Google Cloud Functions Gen 2 Sink	Yes	Yes	Yes
Google Cloud Functions Sink	No	No	Yes
Google Cloud Pub/Sub Source	Yes	Yes	Yes
Google Cloud Spanner Sink	No	No	Yes
Google Cloud Storage Sink	No	No	Yes
Google Cloud Storage Source	Yes	Yes	Yes
HTTP Sink	Yes	Yes	Yes
HTTP Source	Yes	Yes	Yes
IBM MQ Source	Yes	Yes	Yes
InfluxDB 2 Sink	Yes	Yes	Yes
InfluxDB 2 Source	Yes	Yes	Yes
Jira Source	Yes	Yes	Yes
Microsoft SQL Server Sink	Yes	Yes	Yes
Microsoft SQL Server Source CDC (Debezium) [Legacy]	Yes	Yes	Yes
Microsoft SQL Server Source CDC V2 (Debezium)	Yes	Yes	Yes
Microsoft SQL Server Source	Yes	Yes	Yes
MongoDB Atlas Sink	Yes	Yes	Yes
MongoDB Atlas Source	Yes	Yes	Yes
MQTT Sink	Yes	Yes	Yes
MQTT Source	Yes	Yes	Yes
MySQL Sink	Yes	Yes	Yes
MySQL Source CDC (Debezium) [Legacy]	Yes	Yes	Yes
MySQL Source CDC V2 (Debezium)	Yes	Yes	Yes
MySQL Source	Yes	Yes	Yes
New Relic Metrics Sink	Yes	Yes	Yes
OpenSearch Sink	Yes	Yes	Yes
Oracle CDC Source	Yes	Yes	Yes
Oracle Database Sink	Yes	Yes	Yes

Cloud Connector	AWS	Azure	Google Cloud
Oracle Database Source	Yes	Yes	Yes
PagerDuty Sink	Yes	Yes	Yes
Pinecone Sink	Yes	No	No
PostgreSQL CDC Source (Debezium) [Legacy]	Yes	Yes	Yes
PostgreSQL CDC Source V2 (Debezium)	Yes	Yes	Yes
PostgreSQL Sink	Yes	Yes	Yes
PostgreSQL Source	Yes	Yes	Yes
RabbitMQ Sink Connector	Yes	Yes	Yes
RabbitMQ Source	Yes	Yes	Yes
Redis Sink	Yes	Yes	Yes
Salesforce Bulk API 2.0 Sink	Yes	Yes	Yes
Salesforce Bulk API 2.0 Source	Yes	Yes	Yes
Salesforce Bulk API Source	Yes	Yes	Yes
Salesforce CDC Source	Yes	Yes	Yes
Salesforce Platform Event Sink	Yes	Yes	Yes
Salesforce Platform Event Source	Yes	Yes	Yes
Salesforce PushTopic Source	Yes	Yes	Yes
Salesforce SObject Sink	Yes	Yes	Yes
ServiceNow Sink	Yes	Yes	Yes
ServiceNow Source	Yes	Yes	Yes
SFTP Sink	Yes	Yes	Yes
SFTP Source	Yes	Yes	Yes
Snowflake Sink	Yes	Yes	Yes
Solace Sink	Yes	Yes	Yes
Splunk Sink	Yes	Yes	Yes
Zendesk Source	Yes	Yes	Yes

Networking and DNS

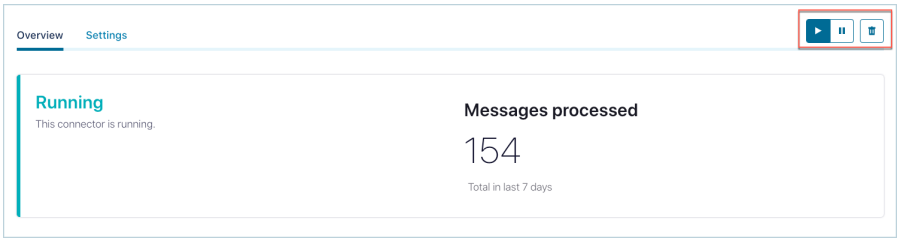
For information about managed connector networking, see Manage Networking for Confluent Cloud Connectors.

Confluent Cloud API for fully-managed and custom connectors

For information and examples to use with the Confluent Cloud API for fully-managed and custom connectors, see the Confluent Cloud API for Managed and Custom Connectors documentation.

Cloud Console connector controls

You can use the GUI buttons to start, stop, pause, and delete a connector. Select and display one of your listed connectors to view the controls.



If you pause a managed connector, the connector is still active and hourly base costs for tasks assigned to the connector continue to accrue. For more information, see Managed connectors and custom connectors.

Connector data previews

For information about connector data previews, see Confluent Cloud Connector Data Previews.

Single message transforms

For information about using single message transforms (SMTs), see Configure Single Message Transforms for Kafka Connectors in Confluent Cloud.

View connector events

For information about viewing Confluent Cloud connector events, see View Confluent Cloud Connector Events.

Important

Viewing connector events is restricted to the OrganizationAdmin RBAC role. Viewing events is not available for other roles.

Service accounts

For information about setting up service accounts, see Confluent Cloud Connector Service Accounts.

RBAC for fully-managed connectors

For information about RBAC and fully-managed connectors, see RBAC for Managed and Custom Connectors in Confluent Cloud.

Dead letter queue

For information about accessing and using the Confluent Cloud Dead Letter Queue, see Confluent Cloud Dead Letter Queue.

Connector limitations

To view a list of connector limitations, see Limits for Fully-Managed Connectors for Confluent Cloud.

Manage Offsets

For information about managing offsets for managed connectors, see Manage Offsets for Fully-Managed Connectors in Confluent Cloud.

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