Confluent Platform offers a comprehensive solution for building Apache Kafka® clusters that are disaster-resilient, highly available, and easily migratable across multi-cloud environments.

Why global resilience?
Kafka users have the same high expectations for durability and availability that they do for all data stores. To leverage Kafka in production use cases, you need to ensure crucial data is not lost, downtime is minimized, and compliance and legal requirements are met. Achieving these objectives requires your Kafka deployments to stretch across multiple data centers around the globe, which can create significant operational complexity and costs. Enterprise users also have requirements around connecting on-prem clusters to cloud environments, migrating data between cloud providers, and creating hub-and-spoke architectures.

Confluent Platform offers capabilities to stretch Kafka clusters and migrate Kafka data across geographies, enabling you to make the event streaming platform the central nervous system of your business at a global level.

Features

**Multi-Region Clusters**
For disaster recovery automation, Multi-Region Clusters allow you to run a single Kafka cluster across multiple data centers, providing your enterprise with the operational simplicity of stretch cluster architecture without the typical tradeoff between throughput and disaster resilience.

**Replicator**
For data migration use cases, such as building hybrid-cloud and multi-cloud architectures, migrating clusters across different cloud providers, or aggregating clusters to a centralized location, Replicator provides reliable, asynchronous replication built on the Kafka Connect framework.

**Cluster Linking (preview)**
Also for data migration use cases, Cluster Linking provides a next-gen solution for asynchronous replication. Cluster Linking is fully offset-preserving and can bridge clusters between different environments without needing to deploy any additional nodes to the architecture.
“We love open source, but at the same time we’re not a startup. We’re a large financial institution that works with world-class organizations, and we need services that make it easier for us to sleep at night. Confluent Platform is very reliable; it’s never down. It has become our backbone.”

Kaspar Situmorang | Executive Vice President, Bank Rakyat Indonesia

Solutions

Minimize disaster recovery complexity

Simplified deployment
With Multi-Region Clusters, you can leverage Kafka’s internal replication engine to stretch one Kafka cluster across multiple data centers in different regions, ensuring your data is backed up without needing to deploy a separate Connect-based replication tool like MirrorMaker 2.

Automated client failover
Multi-Region Clusters also enable automated client failover, so your producers and consumers instantly failover to the recovery site upon failure without your Kafka operators needing to coordinate across your multiple developer teams or handle DNS reconfigurations.

Migrate data across multi-cloud environments

Ensure mission-critical reliability
Leverage the reliability of Replicator and Cluster Linking for your replication use cases, such as:

• Bridging clusters across two different cloud providers.
• Migrating entire clusters to a preferred environment.
• Aggregating several clusters together into one.
• Replicating clusters across different continents.

Bridge to Confluent Cloud
Offload cluster management to the world’s foremost Kafka experts by using Replicator and Cluster Linking to bridge your self-managed clusters to a fully-managed service in Confluent Cloud.

Connect independent Kafka clusters
Easily share topic data between independent Kafka clusters while fully preserving message offsets using Cluster Linking.

Achieve faster recovery time

Minimize recovery time objectives
Build your mission-critical applications with high uptime SLAs on top of Kafka rather than legacy, batch-oriented systems. With support for automated client failover, Multi-Region Clusters enable Recovery Time Objectives (RTO) measured in as little as a few seconds rather than hours.

Eliminate data loss for high priority topics
Ensure Recovery Point Objectives (RPO) of 0 for topics with your most sensitive data. Multi-Region Clusters allow you to choose between synchronous or asynchronous partition replication on a per topic basis.