



CONFLUENT

# OSK to Confluent Kafka Migration



Persistent offers a seamless migration service from open-source Apache Kafka to Confluent Kafka, ensuring minimal downtime and enhanced scalability. Our expertise in data streaming and integration helps organizations leverage Confluent's advanced features, such as real-time data processing and robust security.

Persistent's value proposition lies in their innovative solutions and reliable support, while Confluent Kafka provides a fully managed, cloud-native platform that reduces operational complexity and accelerates time-to-market. This combination empowers businesses to achieve greater efficiency and drive innovation.

## Challenges with Open-Source Kafka



### Operational Burden and Resources

Configuring, deploying, managing, and scaling clusters can be tedious and resource-intensive, requiring significant manual effort on a day-to-day basis.



### Security and Governance

Custom-built security tools & integrations that creates tech and operational debt. Lacks governance for streaming data.



### Real-time Connectivity and Processing

Siloed solutions and custom integrations, escalating complexity & costs to manage and maintain platform as it scales.



### Global Availability

Resource-intensive failover design and operations, exponentially increasing in complexity and risk as volume and variety of environments grows.

## Confluent: Overcoming Challenges with Innovation and Resilience

- Experience seamless and dynamic cluster provisioning and scaling with Confluent's cutting-edge solution. Enjoy automated capacity management, intelligent load balancing, and hassle-free upgrades, ensuring your system always runs smoothly and efficiently.
- Unlock robust, enterprise-grade security and governance with our out-of-the-box solutions. Benefit from battle-tested tools like RBAC, Audit Logs, Encryption, and Stream Governance, ensuring your system's integrity and compliance from day one.
- Achieve a seamless enterprise-wide data fabric that integrates effortlessly across applications and data systems. Leverage a rich ecosystem of pre-built connectors and advanced stream processing to ensure smooth and efficient data flow throughout your organization.
- Ensure highly available and consistent data access across all your environments, whether in the cloud or on-premises. Enjoy seamless integration and reliability, no matter where your data resides.

# Confluent is 10x Apache Kafka



### Elasticity

Scale and shrink to handle GBps+ workloads and peak customer demand 10x faster and easier.

**30x faster** (1.4 hrs.) to scale a typical deployment\*



### Storage

Never worry about Kafka storage limits again with Infinite Storage that's 10x more scalable and performant. **Infinite storage** with zero retention limits out-of-the-box.



### Resiliency

Leave Kafka reliability worries behind with 99.99% uptime SLA and 10x built-in durability. **100x higher** SLA and less downtime built-in to the product.

## Cut Costs, Boost Efficiency: Confluent's Solution for Lower TCO

	A Self-managed Kafka Platform	Confluent Data Streaming Platform
<b>Operational Overhead</b>	<ul style="list-style-type: none"><li>Client-server architecture</li><li>Requires manual cluster management</li></ul>	<b>Deploy in any Environment</b> <ul style="list-style-type: none"><li>Fully managed clusters</li><li>Enterprise-grade distribution on a self-managed platform</li><li>Deployed in your own virtual private cloud</li><li>Combinations of serverless, on-prem, hybrid and multi-cloud</li></ul>
<b>Scalability</b>	Manually provision, configure, and scale Kafka clusters based on expected load	Autoscale clusters up and down from 0 to GBps without over-provisioning infrastructure or introducing risk of an outage
<b>Security</b>	<ul style="list-style-type: none"><li>Access control lists</li><li>Limited options for authentication</li></ul>	<ul style="list-style-type: none"><li>e2e encryption or bring your own encryption key</li><li>RBAC, SAML SSO / OAuth 2.0 authentication</li></ul>
<b>Cost</b>	Infrastructure, operations, and platform development costs are on the business	Reduced TCO (Total Cost of Ownership) of up to 60%

## Persistent Transforms Your Open-Source Kafka to Confluent Kafka Needs

### Certified and Trained Consultants

Over 100 consultants trained through the Confluent Partner Program, along with certified experts in Confluent Admin, Developer, and Instructor roles, guarantee skilled and knowledgeable support.

### Strategic Partnership with Confluent

Persistent's collaboration with Confluent ensures access to the latest advancements and support, enhancing the migration process.

### Deep Expertise in Kafka

With extensive experience in both Open Source and Confluent Kafka, Persistent offers unparalleled proficiency in Kafka administration and application development.

### Proven Track Record

Persistent has successfully implemented highly scalable Kafka clusters in various core banking systems, demonstrating reliability and performance in critical environments.

### Kafka Center of Excellence

The dedicated Kafka Center of Excellence at Persistent drives innovation and best practices, ensuring top-tier solutions for clients.

### Domain Expertise

Persistent's experience spans across banking, finance, insurance, and healthcare, providing tailored solutions that meet industry-specific needs.

## Success Story

Persistent successfully executed a complex migration project for a key client, involving 12 clusters spread across 3 regions and 4 environments. The client's entire stack, initially hosted on AKS clusters with Open-Source Kafka, OS reverse Proxy, OS Kafka-UI, and OpenLDAP, was seamlessly transitioned to the Enterprise Confluent Platform. Our team expertly migrated over 1,000 services, leveraging Confluent for Kubernetes (CFK), Role-Based Access Controls (RBACs), and Cluster Linking. This strategic migration not only enhanced the client's operational efficiency but also ensured robust security and scalability.



# Re(AI)maging<sup>TM</sup> the World



## About Persistent

Persistent Systems (BSE & NSE: PERSISTENT) is a global services and solutions company delivering Digital Engineering and Enterprise Modernization to businesses across industries. With over 24,500 employees located in 19 countries, the Company is committed to innovation and client success. Persistent offers a comprehensive suite of services, including AI-enabled software engineering, product development, data and analytics, CX transformation, cloud computing, and intelligent automation. The Company is part of the MSCI India Index and is included in key indices of the National Stock Exchange of India, including the Nifty Midcap 50, Nifty IT, and Nifty MidCap Liquid 15 as well as several on the BSE such as the S&P BSE 100 and S&P BSE SENSEX Next 50. Persistent is also a constituent of the Dow Jones Sustainability World Index. The Company has achieved carbon neutrality, reinforcing its commitment to sustainability and responsible business practices. As a participant of the United Nations Global Compact, Persistent is committed to aligning strategies and operations with universal principles on human rights, labor, environment, and anti-corruption, as well as take actions that advance societal goals. With 327% growth in brand value since 2020, Persistent is the fastest-growing IT services brand in the 2024 Brand Finance India 100 Report.

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