

Hazelcast In-Memory Computing Platform for IBM Cloud® Paks

Improve application speed and scale across on-prem, cloud and edge environments.

Build data-intensive apps with high throughput and low latency

Increasing customer expectations, amplified by current trends in both IT and business, are driving enterprises to update and transform their application architectures. Organizations are incorporating AI and machine learning, 5G networks and edge computing into new microservices-based applications that include real-time and streaming data. These applications need enterprise-level performance, which includes not only speed, but also low latency, scalability, availability, reliability and security.

Responsive applications depend on real-time access to data, and an in-memory data platform can provide a significant performance boost. The Hazelcast In-Memory Computing Platform for IBM Cloud Paks helps enterprises deliver high-performance apps, providing speed and scale in a multicloud environment. This solution supports stored and streaming data with higher throughput and lower latency through a framework for high-speed data access and distributed computing.

Hazelcast In-Memory Computing Platform for IBM Cloud Paks sits between applications and databases. It can be embedded in the app or close to it, providing fast retrieval and write access. It continually checks back with the database for the latest information to support the tech stack. This modern approach to a tech stack overlay delivers the performance required for modern enterprise applications.

Highlights

- Maximize multicloud application transaction processing performance
- Modernize multicloud-to-mainframe infrastructure while increasing performance capacity
- Gain a competitive advantage in ecommerce and omnichannel customer experience applications

Capabilities

Real-time performance

Build real-time, data-intensive applications requiring the highest throughput and lowest latency.

Scalability and elasticity

Use cloud-native, horizontal scale-out capabilities to easily add more nodes to the cluster as workloads grow and to remove nodes when lower loads allow.

Reliability and security

Mitigate the risk of data loss and breaches through business continuity capabilities and a built-in security suite.

Features and benefits

Features	Benefits
High performance, scalable and secure data platform	Increase the capacity of existing IT infrastructure and provide a single, consistent and accurate source of data capable of processing high transaction volumes at consistent low latency. Deliver high scalability and fast customer response times.
Ability to orchestrate machine learning functions	Exceed customer expectations by delivering insights faster.
Lightweight footprint for deployment on edge computing platforms and integration with IBM Edge Application Manager	Get insights from distributed environments and respond in real time. Reduce unplanned downtime of field equipment and industrial assets and maximize return on assets.
Ability to correlate high volumes of data in motion and data at rest in-memory	Optimize production and supply chain efficiencies, reduce waste and support continuous operations intelligence for autonomous decisions.
High performance, common data processing plane from mainframe to multicloud	Increase business agility and increase performance capacity of existing infrastructure while reducing operating expense.
Support for containers, certified for Red Hat® OpenShift®	Support new business models and revenue streams.
Real-time inventory visibility and synchronization with ecommerce systems	Accelerate purchases and deliver personalized shopping experiences. Reduce lost revenue by minimizing downtime.

Summary

Hazelcast In-Memory Computing Platform for IBM Cloud Paks provides performance at scale across cloud and multicloud environments. It gives organizations the ability to manage high-throughput applications with low latency, together with a simplified run-anywhere deployment.

Increase revenue with fast customer response times and accelerate insights to help you make the right decisions, faster. Reduce risk by using AI to make better and faster IT decisions. Reduce operating costs by increasing the capacity of your existing infrastructure. Provide customers with the benefits and results they demand.

For more information

To learn more about Hazelcast In-Memory Computing Platform for IBM Cloud Paks, please contact your IBM representative or IBM Business Partner, or visit ibm.com/cloud/hazelcast.

Why IBM?

Building on IBM Cloud Pak® for Watson AIOps, a unified solution for hybrid management, can help organizations modernize from traditional environments to cloud-native environments.

Regardless of where you are on your modernization journey, IBM can help you manage applications across lifecycles and multiple environments. IBM automation solutions enable intelligent cloud operations via better monitoring and cross-silo AIOps. With greater cross-environment awareness and understanding, you can automate tasks in increasingly intelligent ways. Automation frees up resources to invest in higher value work and further modernization across your enterprise.

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