

Hazelcast Accelerates Your Digital Transformation

As part of their digital transformation initiatives, companies are adding new technologies to their existing infrastructure to gain more opportunities for competitive advantage. Emphasis on new customers channels through web and mobile applications is growing. Common applications, depending on the industry, include online banking and online purchasing. Businesses are also looking to migrate certain workloads from their own data centers to the cloud, to enable faster deployment and easier scale. The drivers behind this include cost reduction, improved customer service (via self-service), and scaling for multichannel self-service.

The Hazelcast Platform enables data to be stored and accessed in random access memory (RAM) for much higher performance. A cluster can be scaled to any size to accommodate large data sets and large user bases. When used in an existing mainframe environment, non-revenue-generating tasks such as account balance requests can be run by Hazelcast to reduce overall costs. Or Hazelcast can be used as a component of a new architecture to add more real-time capabilities to a mainframe environment, especially via stream processing. Hazelcast is a lightweight and efficient yet powerful software system that can be deployed on-premises, in the cloud on any cloud provider, or at the edge.

Without Hazelcast	With Hazelcast
Your existing infrastructure already runs well, and any effort to add new capabilities might require an overhaul that incurs significant risk.	Hazelcast easily integrates with your existing infrastructure to add in-memory speeds plus real-time streaming capabilities for new, modern, customer-facing applications.
Scaling your infrastructure to add new customer-facing applications and to handle increasing loads can be cost-prohibitive.	Hazelcast lets you deploy a digital integration hub into your stack to more easily stand up new applications and handle greater loads in a cost-effective way.
Handling traffic spikes, including unexpected bursts, is difficult with legacy systems that were not designed to quickly scale.	Hazelcast can elastically scale out by simply adding more compute resources, either on-premises or in the cloud.
Many existing infrastructures include mainframes, and the use of older programming languages can require far more effort for new application initiatives.	Hazelcast offers APIs to popular languages such as Java, Node.js, C++, .NET, Python, and Go.
Existing infrastructures might not be cloud-ready to leverage the agility of the cloud.	Hazelcast has a cloud-native architecture that promotes agility by quickly leveraging the readily available resources in a cloud environment.
Legacy applications are typically monolithic, which make them harder to expand and enhance in a continuous deployment lifecycle.	Hazelcast is lightweight and embeddable, making it ideal for building microservices that can be deployed anywhere, including at the edge. The ease of building and maintaining microservices enable faster deployments that result in greater innovation.

Customer Success Story

A global top ten bank with an international network comprising of 7,500 offices in 80+ countries and territories in Europe, Asia-Pacific, the Americas, the Middle East, and Africa selected Hazelcast to act as a high-performance data layer between applications and backend data sources. This new global digital platform will be rolled out to all of their customers worldwide. These customers access the system via web and mobile applications for online banking activities. The global digital program is led by the bank's CIO. Its business objective is to lower the cost of operations and get better control of ongoing mainframe costs through an integration with the modern capabilities that Hazelcast provides. The application will be run in the cloud using the Pivotal Cloud Foundry PaaS, which Hazelcast supports.

This paradigm shift from mainframe to a cloud architecture is central to controlling and reducing the bank's IT costs globally. It is a key trend in consumer banking being driven by the lower margins which have been squeezed by a perfect storm of historically low interest rates combined with unprecedented compliance and capital requirements.



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