



How to Lower Cloud Costs with Azul Platform Prime + Apache Kafka



Azul Platform Prime and Kafka drive up to a 45% more efficient infrastructure for faster streaming and higher volume ingestion.

What is Kafka?

Apache Kafka is a highly scalable distributed event streaming framework originally created by LinkedIn.com and later donated to the open-source community. Kafka is written in Java and Scala. It stores data collected in one component of an application and makes it accessible to other services in the application. Kafka also facilitates communication across the entire application infrastructure, making data available beyond the application it is observed in.

Use Cases for Kafka include:

- High-performance data pipelines
- Streaming analytics
- Data integration
- Responsive microservices
- Mission-critical applications

What are the benefits of using Kafka?

Apache Kafka has three primary benefits regarding the data that applications continuously gather while they are running:

- **Storage** - Kafka can store this information on servers in high volumes almost instantaneously.
- **Decision-making** - Kafka promotes informed decision making across application infrastructures.
- **Performance** - Kafka helps microservices optimize performance.

"I'm just as enthusiastic today about Azul Platform Prime as when I started out with the product ten years ago as a performance engineer. Azul removes the toil in operations."

Attila Bukta

Sr. Director of OMS Service Reliability Engineering





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How does Azul Platform Prime work with Apache Kafka?

Platform Prime customers can meet Kafka SLA targets with fewer cloud instances, fewer servers, and less performance tuning.

Platform Prime has proven to cut infrastructure costs in half for many customers and to dramatically improve developer efficiency by reducing troubleshooting time.

In tests, Azul engineers looked at the maximum throughput they could achieve with a five-node Kafka cluster on OpenJDK, and then looked at whether they could reduce the number of nodes and still achieve the same throughput on Azul Platform Prime. On Platform Prime, they achieved greater throughput on only three nodes.

THROUGHPUT		
	OpenJDK nodes	Azul Platform Prime nodes
Nodes	5	3
Maximum throughput (TPS)	333,879	346,058
COST		
	OpenJDK nodes	Azul Platform Prime nodes
Total price	\$44,150.40	\$26,490.24
Difference		\$17,660.16

Proven to Cut
Infrastructure Costs



Taboola



Customer Case Studies

Taboola delivered more throughput and capacity with smaller IT footprint, freeing 90 incremental spare servers to allocate as needed.

Adobe delivered a higher load average and reduced message processing time by 20%.

A leading IT security, compliance, and analytics firm met data volume growth and reclaimed server capacity through extreme scaling delivered by Azul. With Azul Platform Prime, the company reduced incremental servers by 25% and increased TPS for 2.5 billion messages per day.

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