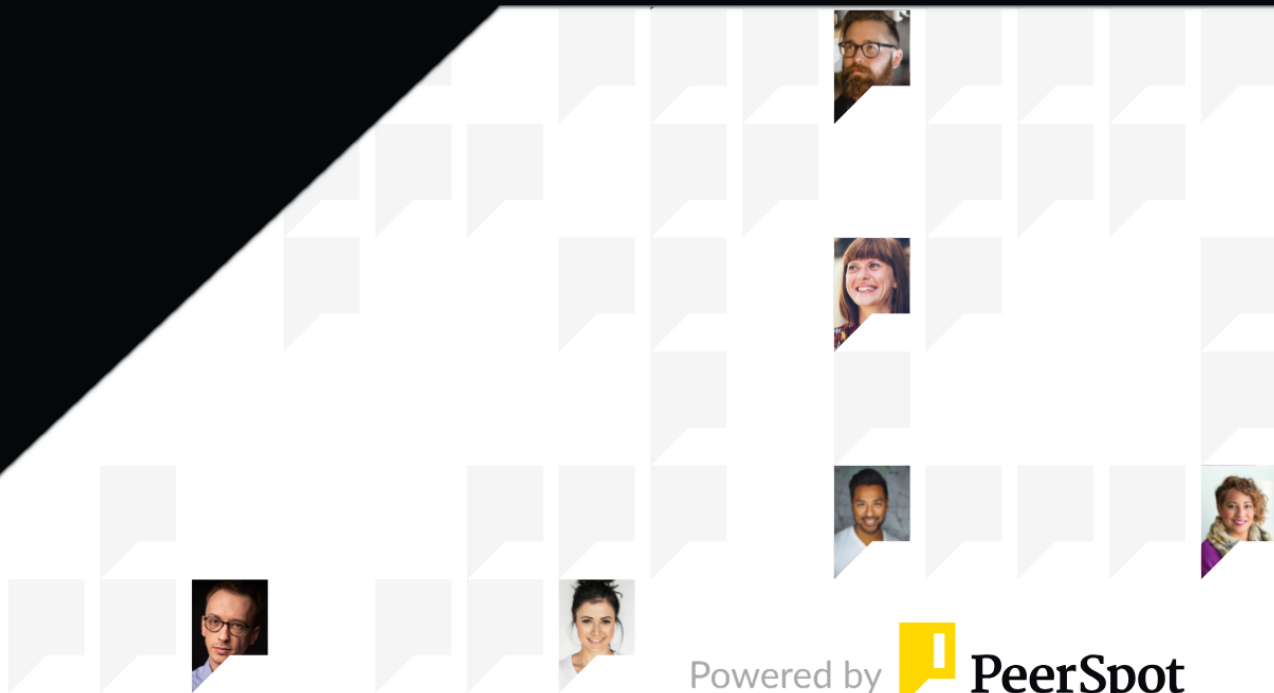




Azul Zing

Reviews, tips, and advice from real users



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Product Recap



Azul Zing

Azul Zing Recap

Azul Zing is a high-performance Java Virtual Machine designed for real-time workloads, offering low latency and high throughput. Zing is optimized for enterprise use, making it ideal for financial services, gaming, and ecommerce.

Leveraging Azul's unique C4 garbage collector, Azul Zing enhances Java application performance by eliminating pauses and reducing latency, crucial for applications demanding consistent response times. The platform is known for its scalability and stability, ensuring swift adaptation to demanding workloads. Its architecture supports quick deployment and seamless operation in modern infrastructure, catering to enterprises that prioritize performance and reliability in mission-critical applications.

What are the key features of Azul Zing?

- C4 Garbage Collector: Provides continuous operation without pauses.
- Elastic Memory: Dynamically adjusts memory allocation based on needs.
- Scalability: Easily scales with increased workload demands.
- High Throughput: Optimized for intensive data processing tasks.

What benefits can Azul Zing offer?

- Improved Latency: Minimizes delay in data processing.
- Cost Efficiency: Reduces infrastructure overhead through optimal resource use.
- Enhanced Performance: Boosts application responsiveness and user satisfaction.
- Seamless Integration: Fits into existing IT environments without extensive modification.

Azul Zing implementation is prevalent in industries like finance and telecommunications where rapid data processing and minimal latency are crucial. Its technology helps financial services handle trade cycles efficiently and assists telecommunications in processing large volumes of data with minimal downtime.

Valuable Features

Excerpts from real customer reviews on PeerSpot:

- ✓ “After using Azul Zing, it is almost a zero-incident situation because of the GCs.”



Mohakhan Khan

Software Technical Expert at a tech vendor with 10,001+ employees

- ✓ “With minimal effort, Zing has helped us improve our latency performance dramatically.”



Verified user

CTO at a financial services firm with 51-200 employees

- ✓ “With Zing, we've now been able to re-allocate those tuning resources to general product development.”



Verified user

Architect/Designer at a financial services firm with 501-1,000 employees

- ✓ “With minimal effort, Zing has helped us improve our latency performance dramatically.”



Verified user

CTO at a financial services firm with 51-200 employees

- ✓ “Zing has completely solved the garbage collection problem for us.”



Verified user

Chief Information, Officer at LMAX Exchange

- ✓ “No other JVM on the market even comes close to competing with the Azul Zing.”



Verified user

Manager of IT Infrastructure at a computer software company with 501-1,000 employees

- ✓ “The non-stop garbage collector (C4 – Continuously Concurrent Compacting Collector) is the most valuable feature.”



Verified user

Software Engineer at a leisure / travel company with 1,001-5,000 employees

What users had to say about valuable features:

“Performance of the JVM, especially the C4 Pauseless Garbage Collection, for continuous application execution is the most valuable feature.

Also, some of the support tooling (zvision, gcloganalyser, azulinspector) is valuable..”

Verified user

[Read full review](#) 

Senior Vice President for Product Development at a tech services company with 501-1,000 employees

“The most important Zing feature for LMAX Exchange is the C4 garbage collector. C4 effectively does continuous garbage collection and for LMAXExchange that means less latency jitter. Latency is a big deal for us and while low latency is important, predictable latency is also a requirement for our customers. Zing doesn't need to force periodic safepoints during normal operation, so assuming that you don't have any other sources of jitter in your program, you'll get a flatter latency profile with out-of-the-box behaviour..”

Verified user

[Read full review](#) 

Chief Information, Officer at LMAX Exchange

“As a large scale high performance trading platform serving the high frequency trading community, latency has always been critical for our clients. Before using Azul/Zing JVM, we have had to spend a lot of effort tuning our JVM GC and profiling our application to minimize latency, which is sometimes very unpredictable due to Java GC. Azul/Zing solved our Java GC problem. With minimal effort, Zing has helped us improve our latency performance dramatically. There are no more jitters or pauses that used to require hours or days of research to resolve in our production environment. Zing has freed our development resources to focus on our core business..”

Verified user

[Read full review](#) 

CTO at a financial services firm with 51-200 employees

“The best features Azul Zing offers include no stop-the-world during the full GC.

“No stop-the-world pauses during full GC, and we hit higher TPS with fewer JVMs -- a real win for maintenance and cost. As an online charging system, we can't afford crashes or latency spikes. Before Zing, JVMs would hang and drop from the grid on missed heartbeats. GC tuning is also out-of-the-box -- no more time consuming manual tuning like with Oracle/OpenJDK with no significant outcome..”

Mohakhan Khan

[Read full review](#) 

Software Technical Expert at a tech vendor with 10,001+ employees

- GC Pause times are maintained in low milliseconds. This is beneficial for applications with high volume, high memory allocation rate, and a high memory footprint, (I would say >2.5gb of max heap). It also increases throughput by approximately 20–25% as compared to Oracle Java Development Kit, based on some tests that I have done with real applications
- Azul engineering cleans up Oracle Java Development Kit bugs before GA release of the product, so you will get less bugs
- The engineering support is very qualified, so they can help you diagnose code level issues and provide recommendations. Zing has free tools to get you to the root of many applications problems, like memory leaks, thread blockades, system limitations, etc.
- Support lifecycle is almost unlimited. Oracle Java Development Kit's lifecycle is three years, after that you have to buy a “commercial license” which is expensive

Verified user

[Read full review](#) 

Enterprise Architect at a financial services firm with 5,001-10,000 employees

“As a large scale high performance trading platform serving the high frequency trading community, latency has always been critical for our clients.

Before using Azul/Zing JVM, we had to spend a lot of effort tuning our JVM GC and profiling our application to minimize latency, which is sometimes very unpredictable due to Java GC. Azul/Zing solved our Java GC problem.

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Verified user

CTO at a financial services firm with 51-200 employees

[Read full review](#) 

Other Solutions Considered

“Yes, we previously used Oracle JDK/JRE and OpenJDK. We switched due to full GC stop-the-world pauses causing crashes, latency spikes, and operational pain (planned restarts, constant GC tuning).”

Mohakhan Khan

Software Technical Expert at a tech vendor with 10,001+ employees

[Read full review](#) 

“We use to use the Oracle JVM and switched due to the application pauses due to GC. Even the latest Oracle/OpenJDK G1 collector does not come close to the performance of Zing..”

Verified user

Architect/Designer at a financial services firm with 501-1,000 employees

[Read full review](#) 

“The other option would have been Oracle Java Development Kit G1GC. We tried it, but I was not convinced. However, it does have a potential in somecases, but you need to stress test the application to be sure is a good fit..”

Verified user

Enterprise Architect at a financial services firm with 5,001-10,000 employees

[Read full review](#) 

“We used Oracle's Java implementation and switched because upgrading from v6 to v7 led to significant performance regression. Also, we had reached a latency floor that we were unable to get past without a better garbage collector or a significant re-write of the implementation of our software..”

Verified user

Chief Information, Officer at LMAX Exchange

[Read full review](#) 

“Zing was really the only game in town if we wanted to stay with Java and improve our latency through third party technology. Changing language even for part of our codebase is not an option we have considered seriously so far. We gave the move to garbage free Java some consideration but not that much..”

Verified user

Chief Information, Officer at LMAX Exchange

[Read full review](#) 

ROI

Real user quotes about their ROI:

“Yes, clear ROI. We achieve the same TPS with fewer JVMs/machines than before, directly cutting cloud infrastructure costs across AWS, Azure, and on-prem. We also eliminated the manpower spent on planned JVM restarts every few days, and reduced production incidents and night-time support calls significantly. Given we run this across many productions, large and small, the savings compound..”

Mohakhan Khan

Software Technical Expert at a tech vendor with 10,001+ employees

[Read full review](#) 

“It's not particularly easy to estimate ROI as the cost for LMAX Exchange of not going with Zing would have have been partly tying up most of the development team for a long period of time and partly the opportunity cost to the business of missing out on a lot of revenue generating features. I think everyone at LMAX Exchange is convinced that our investment in Zing has been completely justified and that the product has easily paid for itself and then some..”

Verified user

Chief Information, Officer at LMAX Exchange

[Read full review](#) 

Use Case

“We run a large in-memory data grid to store millions of customers -- clusters of up to 30-40 JVMs, each with ~90GB heap, deployed across a variety of infrastructure including Azure, AWS, and on-prem. Azul Zing avoids full GC impact, giving us better latency and higher throughput for our online charging system..”

Mohakhan Khan

Software Technical Expert at a tech vendor with 10,001+ employees

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Setup

The setup process involves configuring and preparing the product or service for use, which may include tasks such as installation, account creation, initial configuration, and troubleshooting any issues that may arise. Below you can find real user quotes about the setup process.

“It is not bad, but it would be great to engage Azul to educate you while you are doing it yourself. There is somethings to learn about this new and exciting technology..”

Verified user[Read full review](#) 

Enterprise Architect at a financial services firm with 5,001-10,000 employees

“Initial setup was mostly straightforward — well documented, and licensing was simple. Some tuning was needed initially, but notably not GC parameter tuning, which was a big relief compared to Oracle/OpenJDK where GC tuning was a constant, ongoing effort. Overall, a smooth transition with minimal operational burden..”

Mohakhan Khan[Read full review](#) 

Software Technical Expert at a tech vendor with 10,001+ employees

“Initial setup was very straightforward, almost a drop-in replacement for the Oracle JVM. The Azul marketing position of 'zero configuration' is a bit of a stretch in our case, since in order to achieve optimum performance, some configuration and tuning are required..”

Verified user

[Read full review](#) 

Architect/Designer at a financial services firm with 501-1,000 employees

“It is more complex than a comparable product, e.g. Oracle's Java. Zing requires a kernel module to be installed on all of the Linux systems that it runs. This is slightly tricky as a normal Java install does not require administrator privileges, where as Zing does. It also required a fair bit of Linux tuning and testing to get the best performance out of it. Also, we opted to use license files rather than a license server so that added some complexity to deployment..”

Verified user

[Read full review](#) 

Chief Information, Officer at LMAX Exchange

Customer Service and Support

“Excellent. Support is just a mail away — they respond quickly, and queries are handled in a friendly, down-to-earth way. You don't need to be deeply technical to get help; they meet you where you are and resolve issues efficiently..”

Mohakhan Khan

Software Technical Expert at a tech vendor with 10,001+ employees

[Read full review](#) 

“The Zing software is very sophisticated, so even Azul's first-line technical support personnel are extremely knowledgeable, but often due to the exacting nature of our requirements, we are referred to Level 2 and beyond. Azul is an engineering company, and in our view, employs highly qualified engineers..”

Verified user

Architect/Designer at a financial services firm with 501-1,000 employees

[Read full review](#) 

Customer Service:

9/10, it's the best of any vendor.

Technical Support:

9/10, it's the best of any vendor. Every now and then, I touch base with support to see if I need to make any adjustments based on new developments. .”

Verified user

Enterprise Architect at a financial services firm with 5,001-10,000 employees

[Read full review](#) 

Other Advice

“For many classes of applications, alternative JVMs might provide sufficient low-pause operation that Zing is not required. That being said, we don't use the 'ultra large heap capability' of Zing that many applications would benefit from..”

Verified user

Architect/Designer at a financial services firm with 501-1,000 employees

[Read full review](#) 

“9/10 — for a real-time system, GC pauses aren't acceptable, and Zing solves this out-of-the-box. It eliminated planned restarts, cutting operational overhead and night-time incident calls dramatically. One note: on JVM startup, deoptimization causes higher CPU utilization for the first few seconds — worth knowing but not a real problem.

“My advice: if you can't afford full GC pauses, JVM hangs, or latency spikes, go with Zing..”

Mohakhan Khan

Software Technical Expert at a tech vendor with 10,001+ employees

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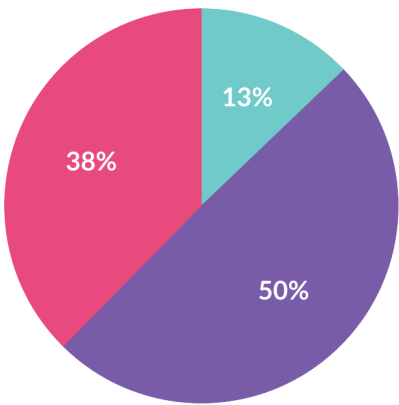
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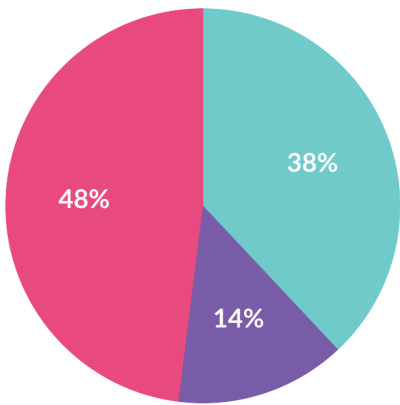


Company Size

by reviewers



by visitors reading reviews



 Large Enterprise  Midsize Enterprise  Small Business

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