Azul Platform Prime Pilot Brief

Your Java Performance Problems Solved

Azul Platform Prime is a Java runtime that delivers powerful performance benefits. However, performance testing is prone to error. The Azul team includes Java performance and cloud experts dedicated to supporting the evaluation of Azul Platform Prime for your business-critical applications. This team has amassed years of experience helping customers unleash the power of Azul's high-performance JVM. The team leverages a tried-and-tested methodology, along with techniques, tools, and an extensive knowledge base.

Effective Evaluation with the Azul Pilot Method

To harness the full value of Prime, Azul has developed a tried-and-tested evaluation process. This process implements performance testing best practice and will reduce the time and resources required to evaluate the product. Key pilot steps include:

- Defining business goals
- Agreeing on success criteria
- Preparing the test environment
- Executing a baseline test
- Executing diagnostic Test
- Iterating through performance tests until success criteria met
- Promoting to production
- Assessing business value

Pilot Success Criteria

These benefits will vary from customer to customer depending upon business goals. Our team of experts can help you define clear success criteria, focusing efforts and delivering business value sooner. Common pilot success criteria include:

% lower CPU usage

% reduction in instances needed to run same workload

% reduction in warm-up time

% reduction in P99 response times

% increase in throughput while meeting service levels

% reduction in timeouts or errors

Why Azul?

Azul is the largest independent provider of commercial support for OpenJDK.

Helpful Tips

- What to expect when evaluating Azul Platform Prime (link).
- Getting started with Azul Platform Prime (link).
- Diagnosing Java performance problems with the GC log analyzer (link).
- Best practice: comparative evaluation of JDK setups (link).
- Using ReadyNow (link) and analyzing and tuning warm-up (link).
- Recommended heap size (link).

What Next?

Contact Azul to get started and get a free performance evaluation.

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Pilot Milestones

Week 1	Week 2	Weeks 3 - 4	Weeks 5 - 6	Week 7
Baseline Test	**Diagnostic Test**	**Performance Tests**	**Promote to Production**	**Acceptance**
Execute initial performance test on current JVM and review results	Execute initial diagnostic test run on Azul JVM and analyze	Execute performance tests of Azul JVM, compare with current JVM, adjust and re-test as needed	Validate delivery of expected value in production	Agreed business value proven

Customer Success

Join the hundreds of customers (link) that are enjoying the business benefits of running their critical applications on Azul technology.

zoominfo

Improved performance and reduced total infrastructure spend by 38%

SUPERCELL

Reclaimed 20%+ in CPU carrying capacity, improving gamer experience

workday.

Drove 95% reduction in trouble tickets, improving operational productivity

Azul Platform Prime

Runs Java code 20%+ faster
Optimizes code execution to take full advantage of latest processors

Maintains consistent service levels at higher loads
Reduces noise in CPU usage. Eliminates pauses, jitters, and stalls

Dramatically reduces disruptions and glitches caused by adding new instances. Runs at full speed from the outset

Use Cases

An enhanced version of OpenJDK with superior performance, consistency and carrying capacity.

- SaaS: Improve customer experience with faster interactions .
- FinTech: Real-time authorization, fraud detection & improved transaction speed
- Big Data: Search massive data sets for instant data or pricing information.
- AdTech: Real-time content & ad serving recommendations.
- Gaming: Improve gamer experience and time to market.
- Trading: Peak performance at market open.
- Retail & Digital E-commerce: Maintain consistency against site traffic volatility.

#1 Java runtime.

Java TCK compliant. A "drop-in replacement," customers attest. You don't need to recompile your code.

Faster warm-up.

Azul Platform Prime's built-in ReadyNow Orchestrator technology accelerates Java warm-up times and gets you going faster.

Faster code.

The most scalable JVM on the market, Azul Platform Prime delivers improved real-time JVM optimization with a better LLVM-based JIT compiler.

Faster JVM performance.

With Azul Platform Prime's C4 Collector, you can run two to five times more transactions through your infrastructure—without pauses, jitters, or timeouts.

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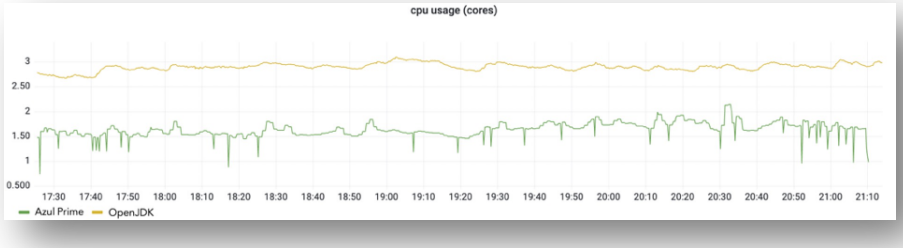
Evaluating Platform Prime



Most Azul Platform Prime pilots will measure elements including: a lower CPU consumption and using less resources (see above image); reduced latencies; improved customer experience; handling more work with the same resources; improved throughput; better response time; and improved carrying capacity. Results depend on the pilot success criteria and application or workload complexity.

"Azul Platform Prime achieves 224% ROI."

Download Forrester report (link).

Learn how four innovative customers used Azul Platform Prime to reduce total server count, simplify operations, and improve developer productivity—all while driving down operating costs.

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