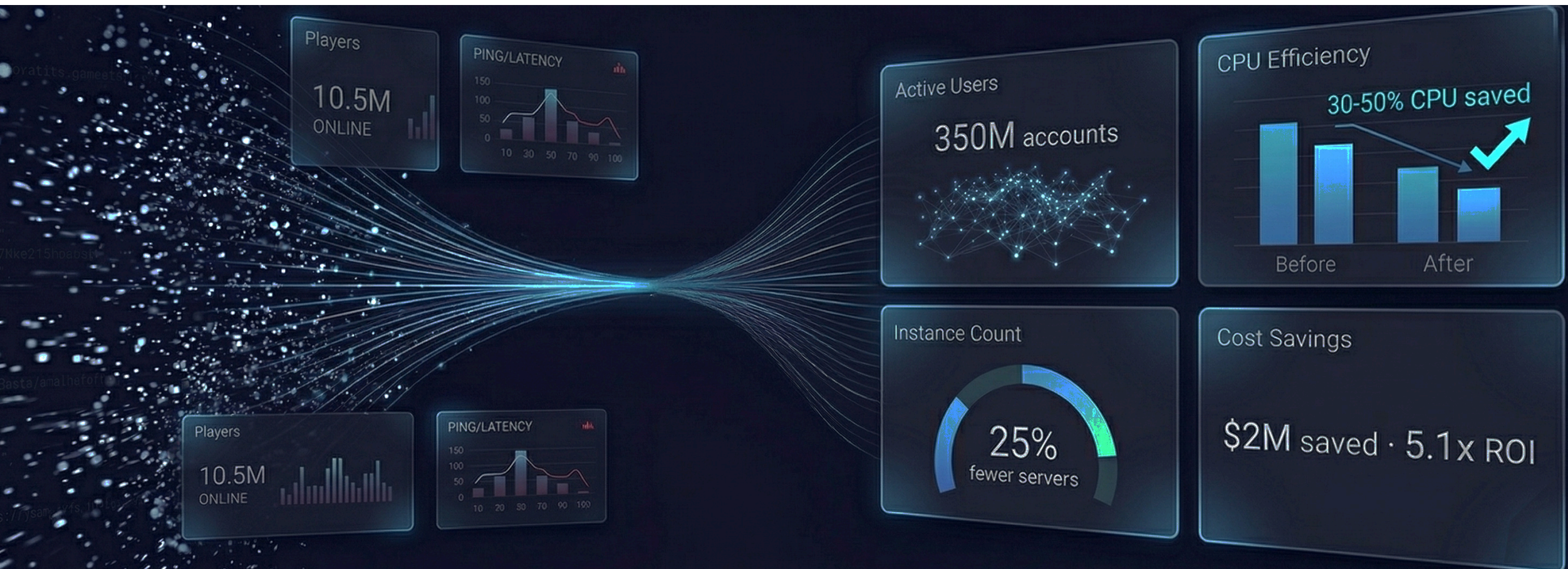


# Igniting Performance for a Major Gaming Platform: **\$2M Saved · 5.1x ROI**



## 30–50% CPU

Overhead eliminated by replacing off-the-shelf JSON libraries with a high-performance open-source alternative


## 25% Fewer

Application instances needed to support the same 10M req/min workload after the optimization





## \$2M · 5.1x

Cloud savings achieved within 18 months delivering a 5.1x return on investment across 350M accounts

### SERVICES

-  Application Modernization
-  Platform Engineering
-  AI Solutions

### TECHNOLOGY

-  High-Capacity Log Processing
-  Anomaly Detection
-  CI/CD Pipeline Automation
-  Predictive Analytics

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## THE CHALLENGE

A global gaming giant managing 350 million accounts and handling traffic peaks of 10 million requests per minute had grown faster than its underlying infrastructure. As demand surged, the system experienced instability and deadlocks that threatened performance and drove up operational costs.

Object Computing conducted a deep performance analysis and discovered a critical hidden inefficiency: off-the-shelf JSON libraries were consuming 30–50% of CPU resources. Through deep benchmarking and traffic pattern analysis, OCI identified and implemented a high-performance open-source JSON library that eliminated the bottleneck.

With the optimization in place, the same workload ran on 25% fewer application instances — generating \$2 million in cloud savings within 18 months and a 5.1x return on investment.

## THE SHIFT

**BEFORE** A global gaming platform struggled with outages and escalating infrastructure costs during peak traffic of 10M requests per minute.

**AFTER** A stable, optimized platform running 25% fewer application instances and delivering \$2M in cloud savings with a 5.1x ROI.

**BRIDGE** A high-performance JSON processing library replacing the off-the-shelf solution — removing 30–50% CPU overhead at extreme scale.

## WHAT WE BUILT

**FEATURES** High-performance JSON library optimized for high-volume, large payload applications at extreme scale across 350M accounts.

**ADVANTAGES** Eliminates the 30–50% CPU overhead caused by standard libraries, discovered through deep benchmarking and traffic pattern analysis.

**BENEFITS** Supports massive traffic volumes with 25% fewer application instances, \$2M in infrastructure savings, and a 5.1x ROI in 18 months.



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