

Apptio, the Technology Business Management Software Leader, Optimizes SaaS Platform Performance with Virtuozzo

“Apptio empowers IT leaders to run IT more efficiently and effectively through its SaaS applications. Used by more than 40 percent of the Fortune 100, performance, scalability, and security are top priorities for our customers. Based on our side-by-side-workload testing, Virtuozzo’s container and storage technologies provide the best performance over hypervisor and bare metal, while also helping us reduce our costs.”

– Mason Wright, Senior Director of Technical Operations

Executive Summary

Apptio optimizes its software-as-a-service (SaaS) platform with Virtuozzo’s container and software-defined storage solutions, delivering powerful IT asset and cost-savings analysis to its customers worldwide.

As the Technology Business Management (TBM) market leader, Apptio enables CIOs to transform IT spend into actionable business insights. During a period of rapid growth, Apptio needed a new software solution to ensure its platform could keep up with customer demand. By leveraging Virtuozzo’s proven and secure OS container technology and software-defined storage solution, Apptio’s SaaS platform now delivers maximum performance while minimizing costs.

Challenge

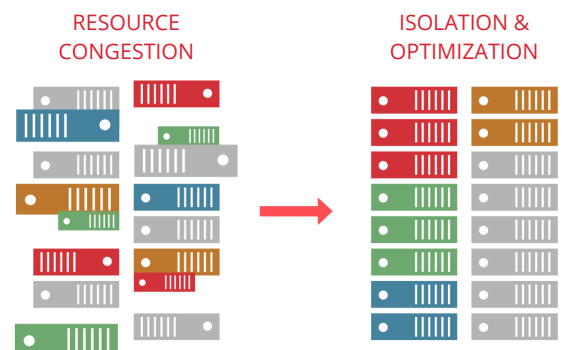
Improve business critical application performance and capacity

Apptio’s application suite includes large, in-memory dataset calculations, which result in multiple tiers of cache in memory and are accessed from high performance storage. As Apptio’s business grew, its technical operations team needed a way to stay on top of that growth by maximizing server performance, while securely isolating customer workloads. To solve the problem, Apptio evaluated commercial virtualization solutions and open source hypervisor solutions alongside Virtuozzo Containers.

Solution

Virtuozzo Containers and Virtuozzo Storage

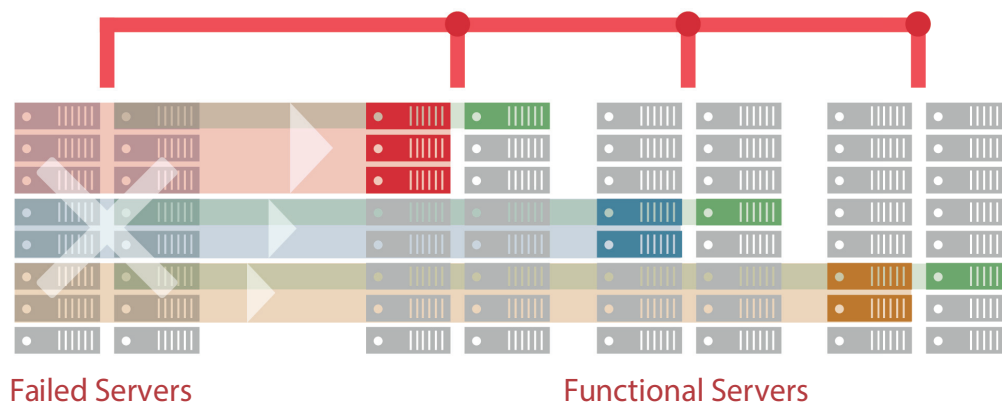
Only Virtuozzo could offer the level of performance that Apptio’s business required. During phase I, Apptio deployed Virtuozzo Containers across the global Apptio server fleet. Virtuozzo provided a secure, high performing virtualization platform with containers that could securely isolate workloads, while increasing server density and performance.



With ever-increasing storage demands, a Phase II deployment of Virtuozzo Storage allowed Apptio to untether from the storage constraints of local server storage without the significant overhead and investment in a costly and difficult to support Storage Area Network (SAN). Another advantage of Virtuozzo Storage included a dramatic reduction in the time needed to migrate containers with very large storage footprints between servers. The addition of Virtuozzo cluster technologies included with Virtuozzo Storage also automated container failover in the event of server hardware failure.

Apptio has also been pleased with several advanced features found in Virtuozzo Storage which are not commonly found on distributed storage platforms sold by competitors or available in the Open Source community. These include support for multiple tiers of disk pools within the cluster, advanced and elegant automation to collocate data with compute that uses it most often, and automatically moving data replicas around to optimize disk performance and remove performance hot spots.

Automatic Migration with Virtuozzo Storage



Optimizing Infrastructure to Fuel Rapid Business Growth

Apptio first deployed Virtuozzo Storage in 2015, and within one year the company had deployed 15 clusters supporting thousands of containers and several petabytes of storage across three continents.

Now, Apptio uses Virtuozzo and Virtuozzo Storage to run its custom business intelligence application, customer databases, and front-end interfaces. Apptio's business continues to grow, and with Virtuozzo supporting its business-critical applications, the company is well-positioned to meet the needs of its growing customer base, now and in the future.

About Apptio

Apptio (NASDAQ: APTI) is the CIO's business management system. We build advanced data and analytics applications that help IT leaders make informed decisions about their technology investments, capitalize on the cloud transformation and drive innovation within their organizations. We call it Technology Business Management. Our applications help companies align technology spending to business outcomes and automate IT processes like cost transparency, benchmarking, charge-back and planning. Hundreds of customers, including more than 40 percent of the Fortune 100, use Apptio as their business system of record for IT. For more information, please visit www.Apptio.com.

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