Enterprise Hybrid Cloud Cost Optimization & Control

Continuous optimization engine for your containerized infrastructure.

Containers come with plenty of benefits—but given their complexity, operators have been challenged in two areas:

- Implement successful strategies to continuously optimize these environments.
- Gain deep visibility into containerized applications for the purposes of charge-back/show-back, reporting, bill visibility, etc.

Densify provides visibility into your hybrid cloud and container workloads and automates optimal workload supply allocations—resulting in improved performance, stability, and lower cloud spend.

Executive summary

Red Hat OpenShift Container Platform uses Kubernetes Operators to deliver a cloud-like, managed application platform, across on-premises and public cloud environments. Densify provides the intelligence to effectively determine the optimum container size, by learning how the application workload behaves over time.

Product profile

Densify provides visibility into your containers and automates application resource selection—resulting in improved performance, stability, and lower cloud spend. Densify gives you the answers to your most pressing infrastructure management challenges, through intelligent recommendations implemented as an automated solution within your dev-ops ecosystem.
**Product benefits**

Densify optimizes hybrid cloud infrastructure by analyzing app demand patterns, infrastructure characteristics, policies, and tags to recommend optimal placements and deliver business intelligence and automation.

- **Full Stack Visibility**: Full stack visibility with breakdown views, how much resources you have, how effectively you are using them, and cost breakdown.
- **Optimal Container Resource Allocation**: CPU and Memory Request and Limit values, integration with Infrastructure as Code, improved application performance, and continuous optimization.
- **Node-Level Resource Optimization**: select the right node type and size, optimize scaling parameters, automated resource optimization at the underlying node level, and better resource efficiency at the right price.
- **Agentless data collection**: we collect data from a Prometheus source by installing a Red Hat certified container into the client’s environment. Data are collected and analyzed in a dedicated client instance running on IBM Cloud.

**Use cases**

Containers provide significant management challenges, including density and efficiency concerns due to sprawl, control and automation needs, and visibility of the entire stack.

- **Right-size request & limits** to meet application demand to eliminate guesswork & reduce risk and waste. **Benefit**: Up to 40% reduction in container request values as well as charge-back/show-back reporting and bill visibility.
- **Enable automation** of the right-sizing changes to reduce errors, labor, and ensure the right resources are available for the app when they are needed, and integrate into the DevOps process to enable CI/CD/CO (Continuous Optimization). **Benefit**: labor savings and reduced time to implement.
- **Transformation analytics** to perform optimum sizing recommendations when going from on-prem VMware or any cloud to a container infrastructure. **Benefit**: Overall visibility & governance.

**Learn more**

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**About Partner**

Densify™ is a predictive analytics service that optimizes your hybrid cloud in real time. It is not magic, it is science. Leading service providers and Global 5000 organizations leverage our service to operate with less infrastructure, less cloud costs, and at the same time, deliver better performing applications to the business. Densify™ is a privately-owned, venture-capital-funded corporation headquartered in Toronto.

**About Red Hat**

Red Hat is the world’s leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.