

SUCCESS CASE

Kubernetes Standardization and Optimization at Pipefy with RealCloud



RealCloud



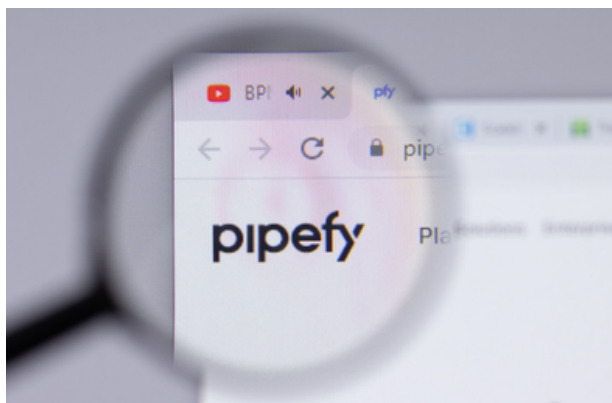
pipefy



Introduction: Simplifying and Automating Processes with Pipefy

Pipefy is a process orchestration platform that connects critical systems and automates end-to-end processes with AI and low-code, enabling teams to securely build workflows and AI Agents for departmental automations and more complex orchestrations.

By combining enterprise-grade capabilities with ease of implementation, the platform has become an essential solution for teams seeking efficient process orchestration.



The Optimization CHALLENGE in a Multi-Cloud and Multitenant Platform

Pipefy's infrastructure utilizes a multi-cloud architecture and both **single-tenant** and **multi-tenant** deployment models to offer maximum operational resilience.

Its Kubernetes clusters operate across four major cloud providers: **Oracle Cloud Infrastructure (OCI)**, **Amazon Web Services (AWS)**, **Microsoft Azure**, and **Google Cloud Platform (GCP)**.

The Search for Cloud-Agnostic Optimization

While the nature of Kubernetes facilitates workload **portability** across these providers, searching for **cost and resource** optimization solutions that are truly **cloud-agnostic** remains challenging. Many infrastructure optimization tools are developed with a focus on a specific provider, representing an opportunity to enhance standardization and achieve a holistic view of resources across our entire global infrastructure.

The primary technical challenge was establishing a culture of intelligent automation for container tuning in **production environments** in a consistent and scalable manner. To achieve this, it was necessary to define CPU and memory Requests and Limits with precision across this multi-cloud platform, allowing the infrastructure to keep pace with the ecosystem's agility.

The SOLUTION: K8s Pod Rightsizing with RealCloud and ScaleOps

Pipefy has a long-standing partnership with **RealCloud**, which was already successfully managing **Spot Instance optimization**. Continuing this collaboration, the platform expanded its infrastructure by adopting a **K8s Pod Rightsizing solution**.

The choice of **ScaleOps** technology was a **strategic Time-to-Market decision**. This allowed the SRE team to focus on innovating Pipefy's core product while the platform automated the standardization and sizing of the clusters. The solution analyzes real-time usage history and applies dynamic policies so that each container uses exactly the necessary resources, supported by specialized expertise from RealCloud.

BENEFITS Achieved Through Automation

The implementation of the K8s Pod Rightsizing solution not only optimized infrastructure costs but also delivered significant gains in **stability and performance**:

- **Financial Savings:** Pipefy achieved a **40%** reduction in costs across all Kubernetes clusters.
- **Efficiency and Stability:** Automation enabled fine-tuning and precision calibration for over 1,200 workloads, further elevating the platform's existing stability standards.

Description: Automated cluster with ScaleOps

pipefy Cluster: pipefy-*****.k8s.local

Economia 51%

vCPUs alocadas:

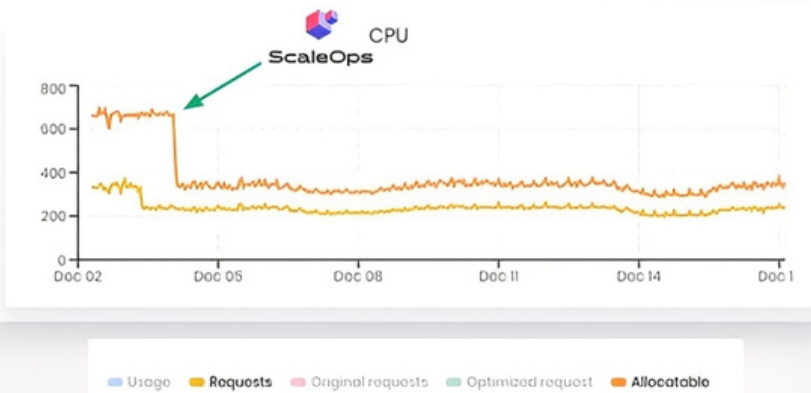
- Pré-Automação - 668
- Pós-Automação - 327

Performance optimized

31 workloads

Cost optimized

54 workloads



Example of results from a specific cluster

"The fine-tuning of our Pods was the missing piece to maximize efficiency across our multi-cloud architecture. RealCloud's solution not only delivered the promised savings but also gave us the confidence that every workload is operating at its peak stability, regardless of the cloud provider. This is fundamental to maintaining the quality of service for our customers."

— **Heitor Cardozo**, Senior Site Reliability Engineer (SRE) at Pipefy

Conclusion

The partnership between Pipefy and RealCloud demonstrates how modern infrastructure optimization must go beyond single-cloud environments. By implementing a provider-agnostic K8s Pod Rightsizing solution based on real usage data, Pipefy has enhanced the operational agility of its multi-cloud and multi-tenant ecosystem, achieving significant results in **cost-efficiency and operational resilience**. This optimization journey reaffirms Pipefy's commitment to maintaining a highly scalable and stable platform for its users worldwide.



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About RealCloud

RealCloud is a leader in cloud management and optimization solutions in Latin America, helping companies achieve operational efficiency through cost reduction and improved performance. With customers such as VTEX, iFood, and INTER, RealCloud has already helped save more than USD 450 million in cloud spending. Learn more at: realcloud.ai



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