Coralogix **reduces EKS cluster costs by 45%** in 2 weeks

30% REDUCTION IN PROCESSING TIME

29% REDUCTION IN CPU UTILIZATION

15% INCREASED THROUGHPUT

45% REDUCTION IN COMPUTE COSTS

About Coralogix

SaaS Log Analytics
HQ: San Francisco, USA
Employees: 50+

Coralogix helps software companies avoid getting lost in their log data by automatically figuring outtheir production problems. Coralogix's machine learning powered platform turns your cluttered log data into a meaningful set of templates and flows. View patterns and trends, and gain valuable insights to stay one step ahead at all times.

The Challenge

Coralogix clusters millions of log records back into their patterns and finds connections between those patterns to form the baseline flows of each piece of software individually, thus helping companies get a hold of their log data and proactively solve their production problems.

Coralogix's fast-growth and quickly expanding customer base leads to significant increase in the amount of data and records that the company needs to process. Coralogix has built a scalable AWS EKS based cluster to manage the log processing service to support the intensive compute needs.

Coralogix was hard-pressed to ensure that it was achieving optimum performance, efficiency, and customer experience with its cloud applications, while also efficiently spending their cloud budget .Coralogix EKS cluster serves trillions of log processing rules over hundreds of Terabytes of data every second.

Why Granulate

Coralogix's team was looking for a solution that would support the company's fast-growth that will provide both benefits - reduce infrastructure costs but also increase performance and capacity to support future growth.

Coralogix chose Granulate's real-time continuous optimization solution in order to achieve both better performance and achieve cost reduction. The team was impressed with the quick installation and seamless integration process that allowed them to achieve quick value within 2 weeks without any code changes or R&D efforts.

Results

Granulate agents were installed on the EKS cluster using a DaemonSet installation. Following 4 days for autonomous learning, the agents were ready to be activated to start optimizing the performance.
Following the agent's activation, Coralogix saw immediate performance results. Monitoring their performance in their Grafana showed 30% reduction in the average rules processing time, along with a throughput increase of 15% and at the same time 29% CPU utilization reduction.
These performance results led to an automatic reduction of the cluster size by 45% due to Kubernetes HPA policies, while maintaining the same QOS as before Granulate.

> *"Within 2 weeks and without any customization whatsoever, we started to experience unbelievable performance improvement results that helped us achieve significant cost reduction"*
>
> **– Ariel Assaraf, CEO**

29% reduction in CPU utilization leading to 45% cluster size reduction

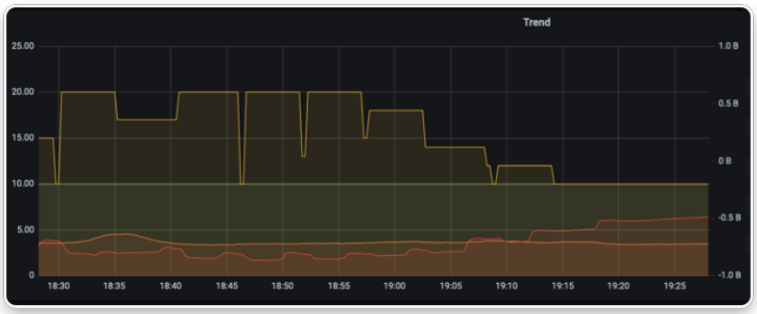

Figure 1: CPU utilization and number of Kubernetes pods with Granulate (green and orange) vs without (yellow and red)

30% Reduction In Processing Time

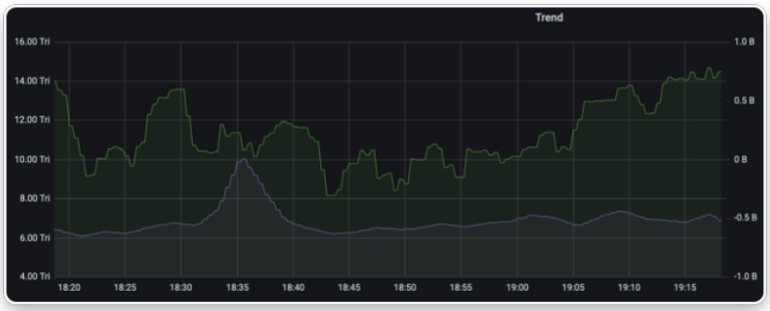

Figure 2: Reduced processing time with Granulate (purple) vs without (green)

About Granulate

Granulate's autonomous workload optimization solution continuously optimizes your service's OS and runtime resource management, enabling immediate application performance improvements and reducing infrastructure costs by up to 63% - with no code changes required.

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