Datasheet

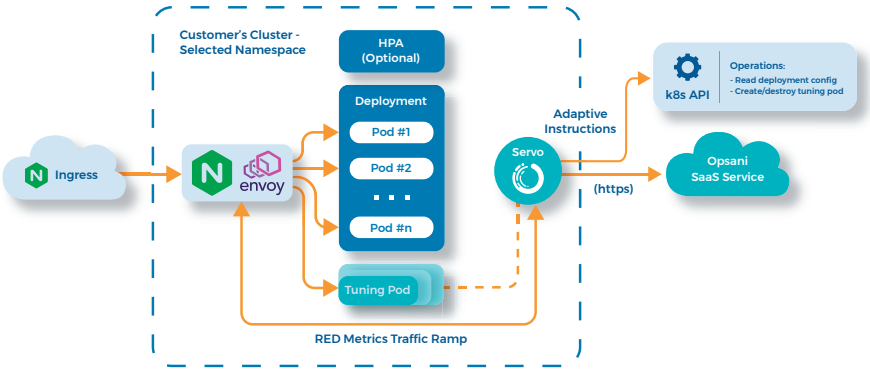
opsani

Streamline Kubernetes Applications with NGINX Ingress

Opsani autonomous optimization tunes Kubernetes applications in real-time by consuming NGINX metrics in increase application reliability, enhance services performance, and lower operational costs.

Autonomous Kubernetes Reliability and Performance Tuning

Opsani autonomously remediates kubernetes-orchestrated services reliability and performance challenges in real-time with NGINX metrics. The solution mitigates business risk associated with poor end-user experience, application performance, and cost overruns—all without human intervention.



Opsani easily integrates with NGINX in a Kubernetes environment. You inject the Opsani Servo container into your Kubernetes cluster front-ended by the NGINX Ingress Controller. Servo discovers Prometheus and collects service RED (transaction Rate, Error rate, Delay [latency]) for the containers within its cluster. You may provide custom SLOs; otherwise, Servo will take P90 metrics as the target SLO.

Servo then connects to the Opsani Continuous Optimization as a Service (COaaS) SaaS backend via HTTPS to send application metrics and collect configuration change recommendations. Thereafter, Servo applies the recommended configurations to the tuning-instance YAML file and restarts the pod. The performance of the newly configured pod is compared against the rest of the cluster.

The feedback loop between Servo and the Opsani COaaS platform continues until the right configuration parameters are discovered to minimize services' error and latency rates and maximize application throughput. The final result also tends to dramatically reduce application operating costs by as much as 70%.

NGINX and Opsani

- **Easy to install** - simply inject the Opsani Servo container into your Kubernetes cluster
- **Higher Reliability** - Reduce servicer error rates
- **Higher Performance** - Maximize throughput while lowering latency
- **Lower Costs** - Dramatically cut operational costs, by as much as 70%

By tuning your Kubernetes clusters front-ended by NGINX Ingress Controllers, Opsani's creates value by:

Tuning single instances; Tuning the number of instances for the load Proactively scaling up and down the number of instances for the anticipated load; and changing the tuning profile as the application load profile changes.

Want to find out more?
Learn more about how Opsani and NGINX enable you to autonomously configure and tune Kubernetes-orchestrates services.
https://opani.com/nginx

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