

WAVEFRONT BY VMWARE PIVOTAL MONITORING SUITE

Metrics-driven analytics and monitoring for Pivotal Cloud Foundry and VMware Pivotal Container Service

KEY BENEFITS

- Get packaged, real-time insight into the performance of the Pivotal Cloud Foundry (PCF) PaaS and its key components.
- Create query-driven, dashboards and smart alerts to proactively monitor PCF platform cloud services, containers, and applications.
- Monitor and correlate code in production issues with the health of the underlying Pivotal Cloud Foundry PaaS.
- Detect leading-indicators of application and PCF utilization anomalies.
- Aggregate and unify monitoring for PCF, VMware® Pivotal Container Service (PKS) and application metrics.

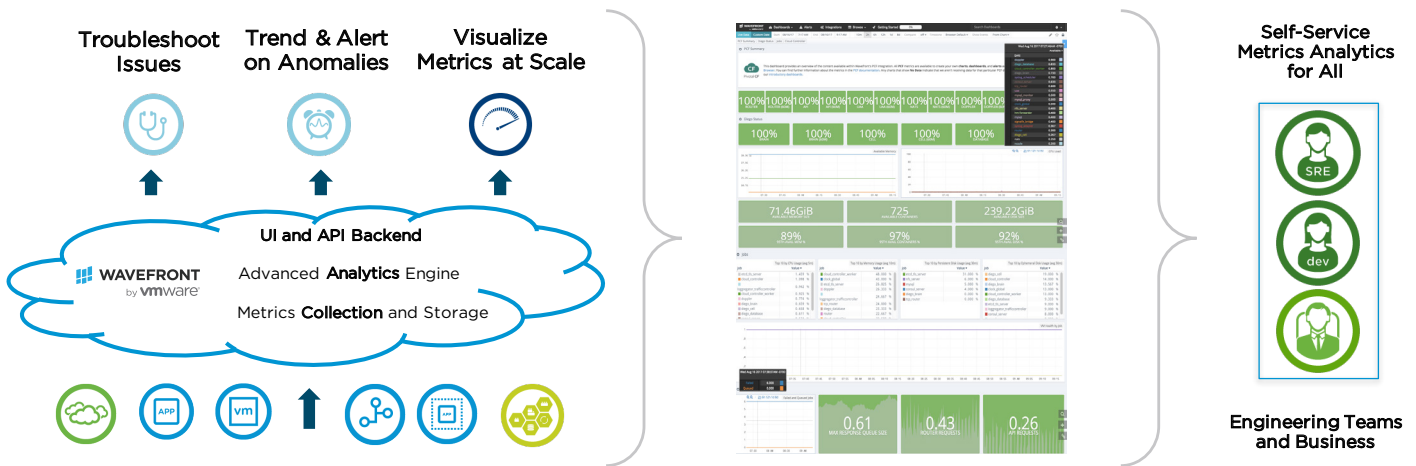
Apply Wavefront by VMware Analytics to a Pivotal Cloud Foundry Nozzle

The Pivotal Cloud Foundry PaaS helps DevOps and developer teams to quickly develop and deliver cloud applications by abstracting away underlying cloud complexities. To maintain code delivery agility while release cycles shorten and metrics volumes explode, engineering teams at today's digital enterprise need continuous visibility at scale into production performance including earlier detection of cloud resources anomalies.

The Wavefront® by VMware® metrics-driven analytics platform delivers out-of-the-box visibility across all Pivotal Cloud Foundry components and services. Using the Wavefront Nozzle for PCF to collect metrics from key PCF components and applications, engineering teams can efficiently run and monitor the PCF platform and associated services. Wavefront enables both PCF administrators and developers with sharable, self-serve metrics.

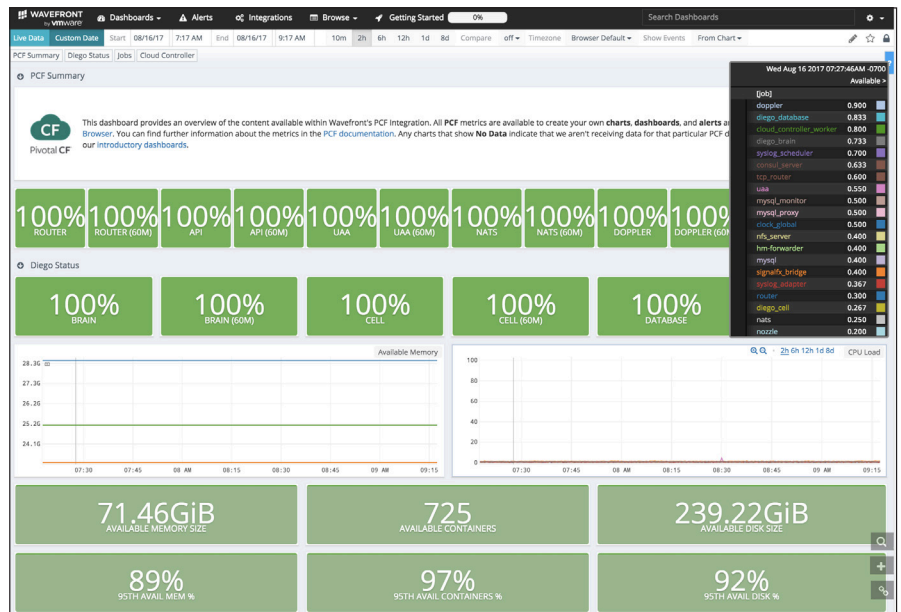
Wavefront helps them to:

- Deliver and monitor cloud services faster by understanding the health of entire PCF environment using Wavefront PCF pre-built, analytics-driven dashboards with applications metrics.
- Troubleshoot and resolve any PCF component issue with real-time system performance metrics.
- Utilize packaged PCF alerts or create customized ones using the Wavefront Query Language.
- Trend and retain all PCF metrics for historical trend analysis and proactive capacity planning.



Wavefront's Pivotal Cloud Foundry Nozzle collects, analyzes and visualizes metrics from key PCF components including BOSH, Diego, Router, Doppler Server, Cloud Controller and more. With deeper insights, cloud operators can detect, resolve and remediate any PCF resource consumption bottleneck and see errors sooner, at any scale. The Nozzle's packaged dashboards deliver full views of the overall health of the PCF PaaS, plus deep granular PCF component metrics and detailed container metrics:

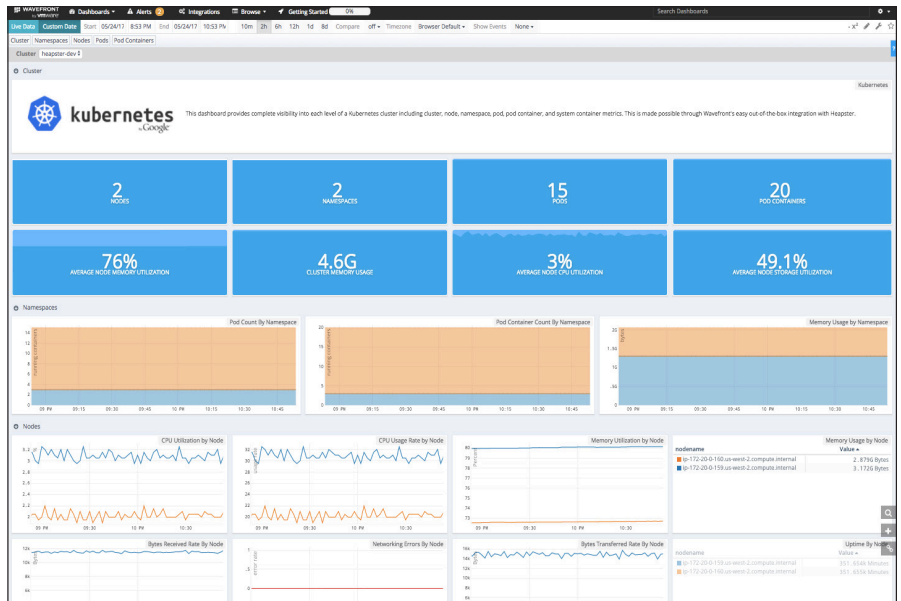
- Summary dashboard with key Router, API, UA, NATS, Doppler, ETCD metrics
- Diego status metrics: Available memory, CPU load and more
- Diego Route Emitter, Psync Builder Performance, BBS and Diego Cell metrics
- Job statistics: Top 10 running jobs by CPU, memory, persistent and ephemeral disk usage
- Cloud Controller: Failed and queued jobs, response queue size, router & API requests, system memory metrics
- Pivotal container metrics: CPU, memory, disk utilization



Wavefront Pivotal Container Service Analytics

Beyond the Pivotal Cloud Foundry Nozzle, engineers can utilize Wavefront for instant visibility into VMware’s Pivotal Container Service (VMware® PKS), a production-grade Kubernetes solution for containers and containerized applications. Using the open source cAdvisor agent, Wavefront ingests, analyzes and visualizes performance metrics from the entire VMware PKS environment at any scale, such as nodes, pods, cluster, down to individual container performance metrics, as well as critical events such as behavioral errors. The pre-built Wavefront dashboards for PKS include:

- Node metrics: Average memory, file system, CPU, and storage utilization
- Namespace metrics: Memory usage by namespace, various counts (containers, pods)
- Pod metrics: CPU usage rate, bytes transferred and received rate
- Container metrics: Uptime by container, CPU, memory and file system usage, as well as memory faults



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