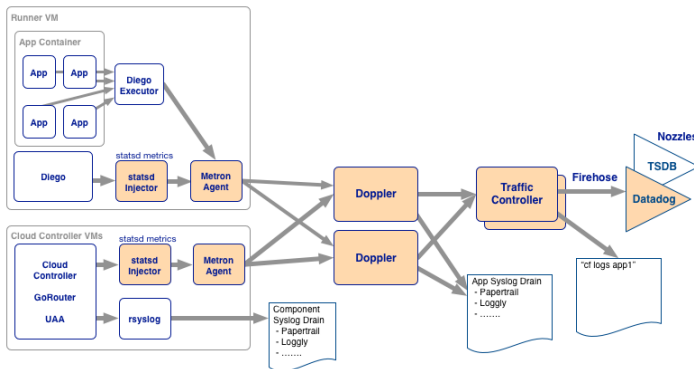


The Product

Pivotal Cloud Foundry is the leading PaaS (Platform as a Service) solution, transforming how enterprises use fast iteration deployment, 12 factor horizontally scaling applications, and easily consumable services such as MySQL and RabbitMQ.

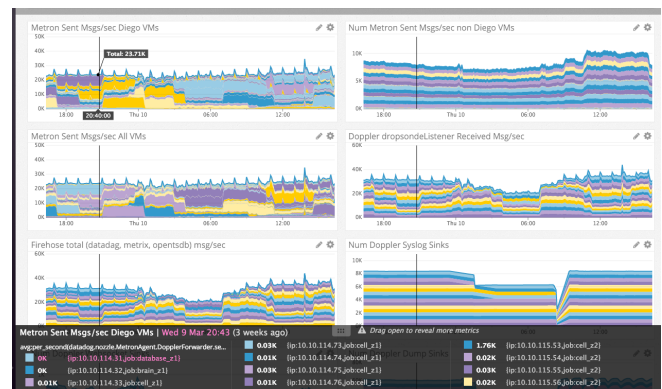


The System

Loggregator is the best-in-class scalable framework for aggregating the logs and metrics generated by both apps and the Pivotal Cloud Foundry system components (such as from app deployment, authorization and authentication, routing, etc.). The reference diagram shows the Loggregator components in color. This is only one possible configuration - large system configurations can have scaled fabrics with dozens of Dopplers and hundreds of Metrons. Loggregator is open source software on github.

The Problem

An important part of a transport subsystem that delivers key metric and logging data to audiences from developers and operators all the way up to CEOs, is monitoring the reliability and performance of the transport mesh. Currently this is done using web-based graphical metric dashboards. These dashboards are not easily grasped in a quick visual scan, and performance problems or outages are hard to see.



The Project

You will develop a live system monitor that shows the Loggregator system in a visual layout, such as represented in the diagram above, with real-time values for each component for things like throughput, CPU load and dropped messages, as well as alarms. Your application will access various types of system APIs to extract the data, including the system configuration, and build a dynamic visual representing the system. You will do user interviews to determine the highest value features to develop first, build a UX design, choose your tech stack, build a CI/CD pipeline to push your app to Cloud Foundry, and incrementally and iteratively build value with your app using XP techniques, committing to open source on github. You will work with a Pivotal product manager to focus on frequent small releases and track your user stories in Pivotal Tracker. Learn how to work as a team and deliver software in a cutting edge Agile way!

You Are...

Interested in working in an agile environment, understand the value of test driven development, love building usable products that improve team productivity, and can learn quickly.

Key Skills

You will be given room to determine the best implementation and learn specific tools, but the best suited candidates will be comfortable with the full stack including web technologies (JavaScript & JavaScript frameworks, RESTful web APIs, HTML, and CSS) and application development frameworks in Java (Spring Boot) or Ruby (Ruby on Rails).

Location

Pivotal has brand new offices on Platte Street in downtown Denver, walking distance from Union Station. Join us every morning for a free catered breakfast and work in the same environment as the rest of the Pivotal team, including several Mines alumni!