Continuous CPU and heap profiling to improve performance and reduce costs.

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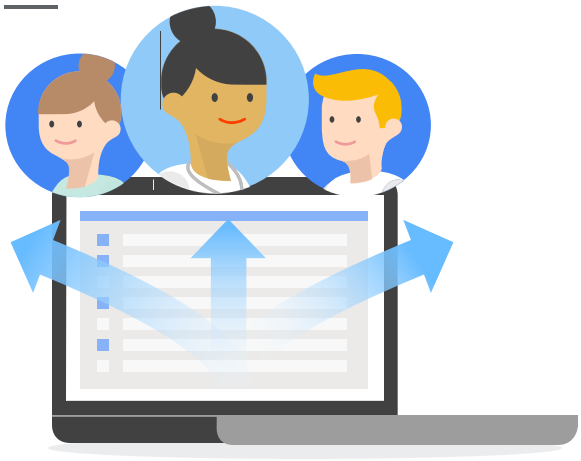
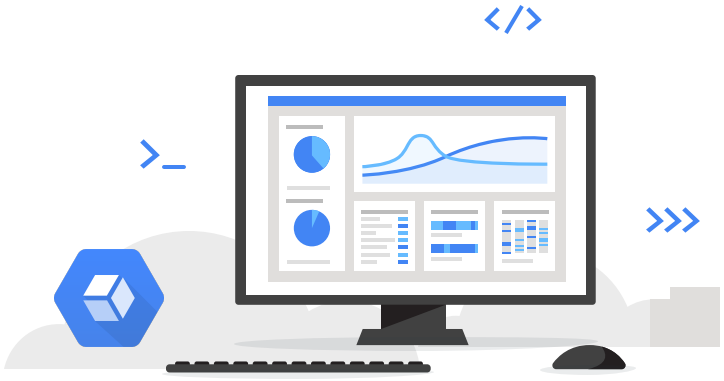
View documentation (https://cloud.google.com/profiler/docs/) for this product.

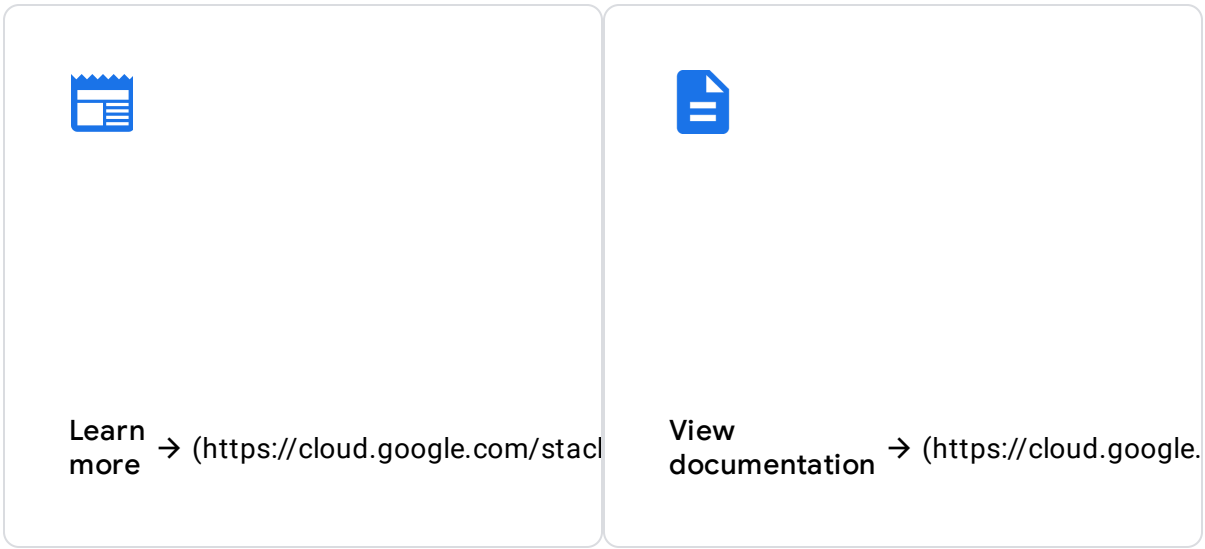
Poorly performing code increases the latency and cost of applications and web services every day, without anyone knowing or doing anything about it. Stackdriver Profiler changes this by continuously analyzing the performance of CPU or memory-intensive functions executed across an application. Stackdriver Profiler presents the call hierarchy and resource consumption of the relevant function in an interactive flame graph that helps developers understand which paths consume the most resources and the different ways in which their code is actually called.

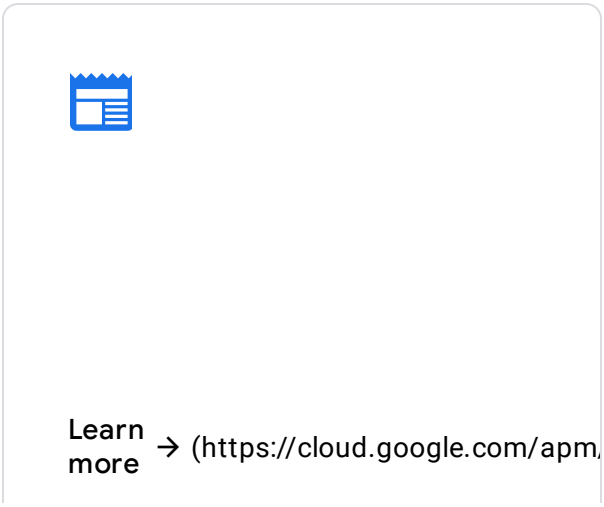


While it's possible to measure code performance in development environments, the results generally don't map well to what's happening in production. Many production profiling techniques either slow down code execution or can only inspect a small subset of a codebase. Stackdriver Profiler uses statistical techniques and extremely low-impact instrumentation that runs across all production application instances to provide a complete picture of an application's performance without slowing it down.



Stackdriver Profiler allows developers to analyze applications running anywhere, including GCP, other cloud platforms, or on-premises, with support for Java, Go, Node.js, and Python. A full explanation of language support is available in the documentation (https://cloud.google.com/profiler/docs/about-profiler#environment_and_languages).





Stackdriver Profiler is available at no extra charge.

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