

[Python](https://cloud.google.com/python/) (<https://cloud.google.com/python/>) [Guides](#)

# Stackdriver for Python

## Overview

[Stackdriver](https://cloud.google.com/stackdriver) (<https://cloud.google.com/stackdriver>) provides monitoring, logging, and diagnostics for Python apps.

Python libraries are available for the following Stackdriver services:

- [Stackdriver Debugger](#) (#debugger)
- [Stackdriver Error Reporting](#) (#error\_reporting)
- [Stackdriver Logging](#) (#logging)
- [Stackdriver Monitoring](#) (#monitoring)
- [Stackdriver Trace](#) (#trace)

## Stackdriver Debugger

[Stackdriver Debugger](https://cloud.google.com/debugger/docs) (<https://cloud.google.com/debugger/docs>) lets you inspect the state of a Python app, at any code location, without stopping or slowing down the running app. To get started with Stackdriver Debugger, see [Setting up Stackdriver Debugger for Python](#) (<https://cloud.google.com/debugger/docs/setup/python>).

## Stackdriver Error Reporting

[Stackdriver Error Reporting](https://cloud.google.com/error-reporting/docs) (<https://cloud.google.com/error-reporting/docs>) aggregates and displays errors produced in your running Python apps. To get started with Error Reporting, see [Setting up Error Reporting for Python](https://cloud.google.com/error-reporting/docs/setup/python) (<https://cloud.google.com/error-reporting/docs/setup/python>).

## Stackdriver Logging

[Stackdriver Logging](https://cloud.google.com/logging/docs) (<https://cloud.google.com/logging/docs>) lets you store, search, analyze, monitor, and set alerts on log data and events in Python apps. Logging provides Bunyan and Winston plugins, as well as a Stackdriver Logging API client library. To get started with Logging, see [Setting up Stackdriver Logging for Python](https://cloud.google.com/logging/docs/setup/python) (<https://cloud.google.com/logging/docs/setup/python>).

## Stackdriver Monitoring

[Stackdriver Monitoring](https://cloud.google.com/monitoring/docs) (<https://cloud.google.com/monitoring/docs>) collects metrics, events, and metadata from Python apps. Stackdriver uses that data to generate dashboards, charts, and alerts.

For more information, see the following topics:

- [Cloud Client Libraries for the Stackdriver Monitoring API](https://cloud.google.com/monitoring/docs/reference/libraries) (<https://cloud.google.com/monitoring/docs/reference/libraries>)
- [Creating custom metrics](https://cloud.google.com/monitoring/custom-metrics/creating-metrics) (<https://cloud.google.com/monitoring/custom-metrics/creating-metrics>)
- [Reading metrics](https://cloud.google.com/monitoring/custom-metrics/reading-metrics) (<https://cloud.google.com/monitoring/custom-metrics/reading-metrics>)
- [Browsing metrics](https://cloud.google.com/monitoring/custom-metrics/browsing-metrics) (<https://cloud.google.com/monitoring/custom-metrics/browsing-metrics>)
- [Python client library for the Stackdriver Monitoring API on GitHub](https://github.com/googleapis/google-cloud-python/tree/master/monitoring) (<https://github.com/googleapis/google-cloud-python/tree/master/monitoring>)

## Stackdriver Trace

[Stackdriver Trace](https://cloud.google.com/trace/docs) (<https://cloud.google.com/trace/docs>) is a distributed tracing system for Google Cloud that collects latency data from apps and displays it in near real time in the Google Cloud

Console. For more information, see [Stackdriver Trace documentation](https://cloud.google.com/trace/docs/) (<https://cloud.google.com/trace/docs/>).

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