



*Exposing Log-Metrics To Prometheus
With Best Practice*

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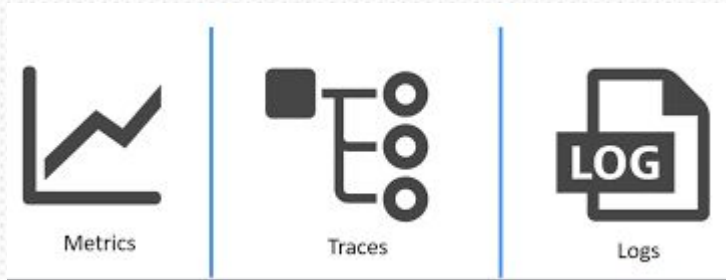




Abstract - Introduction



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In this age of fast-growing advancement in cloud implementations, there is a great need to manage logs effectively. In some cases, you have to study the metrics and know what the system is about; it helps in understanding your system to take decisions, post-mortem analysis and several other interesting functions.

Abstract - Introduction

There are tons of ways to ship log-metrics to prometheus but our case-study will sight Vector and it's possible effect in general observability techniques.



Real-Life Use Cases

- Reduction of total observability costs.



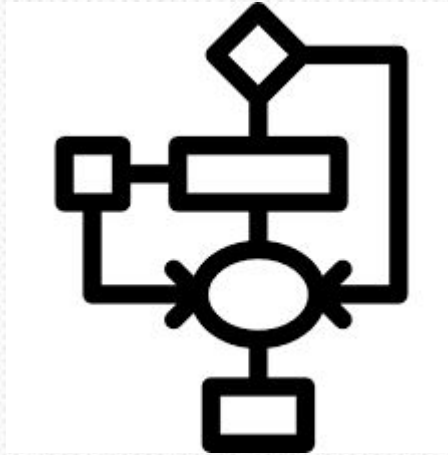
Real-Life Use Cases

- Improvement of overall observability performance and reliability in infrastructure



Real-Life Use Cases

- Transitioning vendors without disrupting workflows.



Real-Life Use Cases

- Enhancing data quality and improving insights.



Real-Life Use Cases

- Consolidate agents and eliminate agent fatigue.





Relevance Of Logs In Site Reliability Engineering



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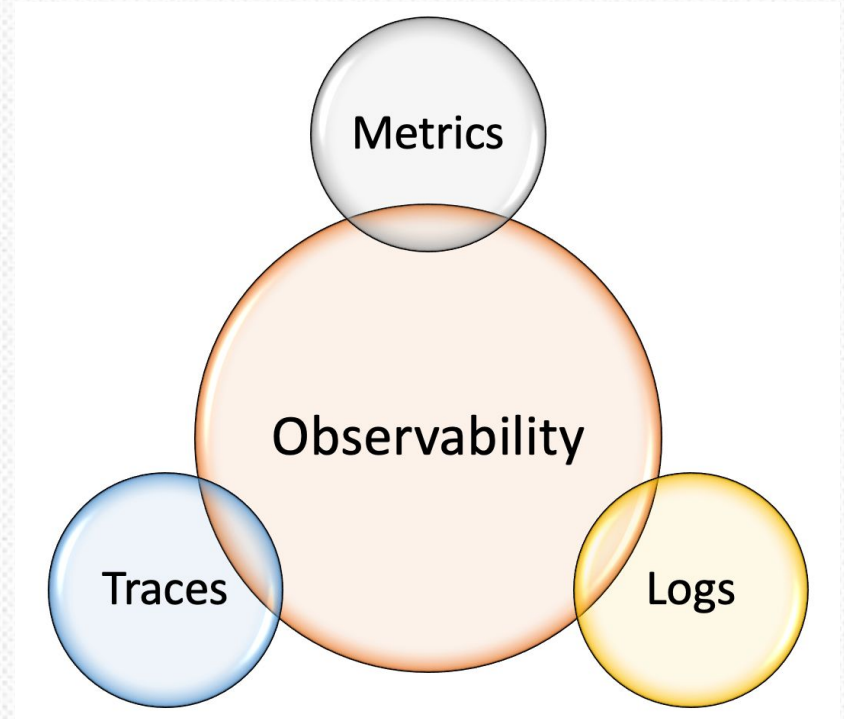
Log data contains information such as out of memory exception or hard disk errors. This is very helpful information that will help us identify the “why” behind a problem either that a user has brought to our attention or that we have uncovered.

Be warned that being an expert is more than understanding how a system is supposed to work. Expertise is gained by investigating why a system doesn't work - Brian Redman



Viewing Metrics In Site Reliability Engineering

Each exposed metric should serve a purpose. Resist the temptation of exporting a handful of metrics just because they are easy to generate.



Case-Study: Utilising Vector To Expose Metrics

Vector?

What comes top of mind?



Best Practices: Utilising Vector To Expose Metrics

- Setup WebServer Configuration File In vector.toml
- Log Parsing Before Transform To Metrics (recall prometheus does not accept logs but metrics)
- **Effectively Count Log Components & Strings:** it is the response that we can imagine Prometheus will be collecting for any observability processes.



Best Practices: Utilising Vector To Expose Metrics

- **Explore The Prometheus Exporter:** Now you can bring Prometheus into the equation after the URL has been exposed by vector for scraping. We can use the Prometheus exporter sink feature provided by Vector using the
- **Explore the Prometheus Scrape To View On the Dashboard**



Best Practices: Utilising Vector To Expose Metrics

- **Set Actionable Alerts**

A well-defined alerting strategy can help you achieve effective performance monitoring. You should first determine which events or metrics are critical to monitor, and then set a reasonable threshold that can catch issues before they can affect your end-users. Ideally, you should define a threshold that does not cause alert fatigue. You should also ensure the notifications are properly configured to reach the appropriate team in a timely manner.



Conclusion

A good monitoring system pays dividends. It is well worth the investment to put substantial thought into what solutions best meet your needs, and to iterate until you get it right.



Questions