

Four signs it's time to level-up your Prometheus

Open-source Prometheus can be a good starting place for monitoring cloud native environments. However, as data grows and use cases become more complex, organizations require an observability platform that is highly available and can handle large-scale cloud native applications more efficiently than Prometheus can.

How do you know if it's time to level-up your Prometheus?

There are four indicators it's time to move onwards and upwards:

- 1 **Engineers struggle to locate monitoring data quickly and efficiently**
- 2 **You're losing monitoring data needed to keep mission-critical services running reliably**
- 3 **Teams need to retain more data for longer periods of time**
- 4 **Your monitoring costs are out of control so you've stopped collecting some data**

If your team is challenged in these ways, here's why it's time to consider a cloud native metrics monitoring tool that's built for massive scale.

1. Efficiency

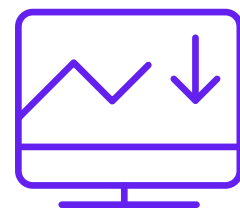
When businesses today try to scale Prometheus by adding more instances, their monitoring data gets fragmented (with metrics going to one instance or the other). Attempting to get a centralized view of metrics using federation quickly becomes unsustainable, as engineering teams get overwhelmed with increased management overhead. If you're struggling to get a global view of monitoring data across multiple Prometheus instances, or your engineers can't efficiently track where specific data points are located, you know it's time to level-up your Prometheus. What's needed is a global view of monitoring data across your entire environment so engineers don't need to remember which instances data points are located in.



58% of companies say that sifting through alerts, logs, and traces to find relevant information is burdensome or very burdensome in a cloud native world.¹

2. Reliability

By default, Prometheus is not highly available (HA). This means that if a node goes down, you could lose real-time visibility into operations as well as historical monitoring data. Businesses often spin up duplicate Prometheus instances for specific services to ensure data remains accessible if the original instances go down. But Prometheus has no way of merging datasets to fill gaps created when restarting after an outage. What's needed is a cloud native monitoring solution that depends on Prometheus-native remote storage to replicate all data multiple times in different places, tolerates single-node availability, and is HA out of the box.



Organizations are losing \$36M per year on downtime.²

3. Scalability

Prometheus is optimized for storing short-term data, which means it can easily become overwhelmed when storing and querying against longer-term (and larger scale) data. This is because Prometheus does not have built-in downsampling and efficient compression algorithms to optimize for longer-term storage, leading to instance sprawl. What's needed is a 100% PromQL-compatible, cloud native monitoring solution that provides a highly granular view of your data while maintaining metrics longer for querying or alerting purposes.



44% of organizations are purchasing observability tools from new providers.³

4. Cost control

Scaling out your Prometheus deployment means adding more instances, which in turn triggers more overhead. Not only does this increase your spending—with higher storage and compute costs—but it also means engineers are spending too much time managing the Prometheus cluster instead of focusing on work of greater value to the business. Companies can reclaim up to 75% of one full-time employee's time that was previously spent on managing Prometheus, which is where a scalable, cloud native monitoring solution can help.



71% of organizations say that their observability data (metrics, logs, and traces) is growing at a concerning rate.⁴

¹ ESG Research Survey, Distributed Cloud Series: Observability, February 2022

² Digital Enterprise Journal (DEJ), 2021 research survey of more than 700 business and technology executives

³ 451 Research, part of S&P Global Market Intelligence, Voice of the Enterprise: DevOps, Workloads & Key Projects survey

⁴ ESG Research Survey, Distributed Cloud Series: Observability, February 2022

Next-generation SaaS cloud native metrics monitoring

A Prometheus-native SaaS metrics monitoring platform like Chronosphere allows you to store 100% PromQL-compatible data across local and remote storage and query it using PromQL.

Discover it to get:



Efficiency: Access data faster for speedy triaging and resolving of issues



Reliability: Replicate each data point 3x and store data copies in geographically dispersed regions



Scalability: Built for cloud native scale and never run out of room to grow



Cost control: Decide what monitoring data is kept, for how long, and at what resolution

"It's not acceptable to have your monitoring broken. If something happens, it preempts everything else. Before I could easily burn the better part of a day figuring out monitoring. With Chronosphere, we basically don't think about monitoring anymore as we spin Tecton deployments up and down."

RAVI TRIVEDI

Software Engineer, Tecton

Learn more and
request a demo at
chronosphere.io

