Prometheus is an open-source system monitoring and alerting toolkit originally built at

SoundCloud. It is now a standalone open source project . Prometheus joined the Cloud Native

Computing Foundation in 2016 as the second hosted project, after Kubernetes.

Features

1. a multi-dimensional data model with time series data identified by metric name and

key/value pairs

2. PromQL, a flexible query language to leverage this dimensionality

3. no reliance on distributed storage; single server nodes are autonomous

4. time series collection happens via a pull model over HTTP

5. pushing time series is supported via an intermediary gateway

6. targets are discovered via service discovery or static configuration

7. multiple modes of graphing and dashboarding support