

Prometheus Lab 1

1. What is the different http status code and explain the meaning of each of them?

HTTP status codes are a standard set of codes that a web server uses to communicate the status of an HTTP request made by a client. The status codes are three-digit numbers that provide a quick summary of the status of the request.

- 1xx (Informational): These status codes indicate that the server has received the request and is continuing to process it.
- 2xx (Successful): These status codes indicate that the server has successfully received, understood, and accepted the request.
- 3xx (Redirection): These status codes indicate that further action is needed to complete the request.
- 4xx (Client Error): These status codes indicate that there was an error on the client's side of the request.
- 5xx (Server Error): These status codes indicate that there was an error on the server's side of the request.

2. What database is used by Prometheus?

Prometheus uses its own internal time-series database, the Prometheus TSDB, to store and manage metrics data collected from various systems and services.

3. What is the difference between different metrics types (counter , gauge , histogram)

counters track the number of events, gauges track the current state, and histograms track the distribution of values over time. Understanding the different metric types and when to use them is important for building effective monitoring systems.