

## 1-what is different http status code and explain meaning of each of them ?

Common HTTP status code classes:

1xxs – Informational responses: The server is thinking through the request.

2xxs – Success! The request was successfully completed and the server gave the browser the expected response.

3xxs – Redirection: You got redirected somewhere else. The request was received, but there's a redirect of some kind.

4xxs – Client errors: Page not found. The site or page couldn't be reached. (The request was made, but the page isn't valid — this is an error on the website's side of the conversation and often appears when a page doesn't exist on the site.)

5xxs – Server errors: Failure. A valid request was made by the client but the server failed to complete the request.

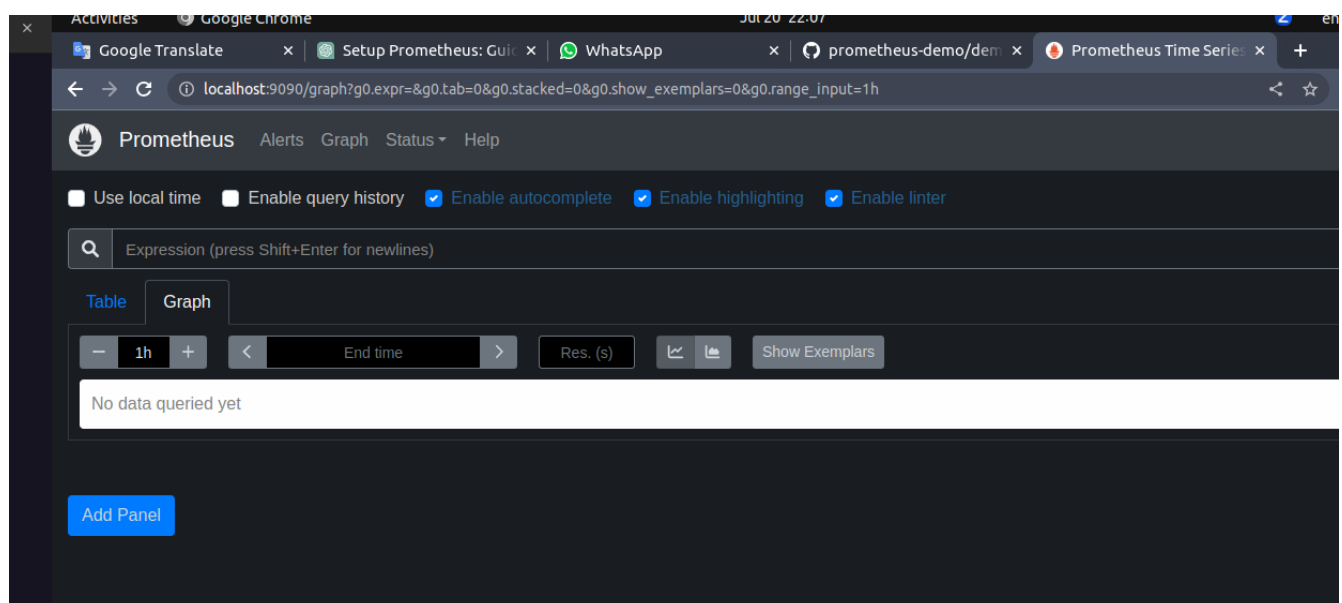
## 2-What database is used by Prometheus?

Prometheus uses its custom time-series database to store and manage metric data efficiently. It is known as the "Prometheus TSDB" (Time Series Database). The TSDB is designed to handle time-series data collected from various sources and is optimized for querying and processing metrics over time.


## 3-what is the difference between different metrics types ( counter , gauge , histogram)?

- **Counters** are used for continuously increasing values, like event counts.
- **Gauges** represent single numeric values that can vary in any direction.
- **Histograms** are used to record the distribution of values in buckets, useful for analyzing statistical properties like latency or response times.
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4-install prometheus on your localhost or on server in any cloud provider



5-add any new target to prometheus.yaml file and apply any query on it using promql language

 Prometheus Alerts Graph Status ▾ Help

☐ Use local time ☐ Enable query history ☒ Enable autocomplete ☒ Enable highlighting ☒ Enable linter



mysql\_global\_status\_innodb\_system\_rows\_deleted

Table

Graph

Load time: 71ms Resolution: 1s

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Evaluation time

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mysql\_global\_status\_innodb\_system\_rows\_deleted{instance="54.93.243.254:9104", job="Mysql-Exporter"}

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