

## **1-How do I trigger a Prometheus alert?**

By defining conditions which are PromQL expressions

## **2-What is the difference between node exporter and MySQL exporter?**

Node Exporter: enables Prometheus to pull metrics from Linux instances listens on port 9100

MySQL Exporter: enables Prometheus to pull metrics from MySQL database whether it created on Linux or other type instance and listens on port 9104

## **3-what is the maximum retention period to save data in Prometheus and how to increase it?**

By default the retention is configured to 15 days and for the maximum period it depends on the availability of storage resources

To change the retention period:

- Add  
ARGS="--storage.tsdb.retention.time=60d"  
to -> /etc/default/prometheus

## **4-What are the different PromQL data types available in Prometheus Expression language?**

Scalars: it does not have labels just numbers

Instant vectors: Instant vectors can be queries simply by identifying the metric name.

Range vectors: select from a range within the instant that instant vectors select

## **5-How To calculate the average request duration over the last 5 minutes from a histogram?**

`prometheus_http_request_duration_seconds_sum/prometheus_http_request_duration_seconds_count`

## **6-What is Thanos Prometheus?**

Thanos is a set of components that can be composed into a highly available Prometheus setup with long term storage capabilities.

## **7-what is promtool and how I can use it?**

Tooling for Prometheus monitoring through CLI

Use it in the CLI by writing -> `promtool --options`

## **8-What types of Monitoring can be done via Grafana?**

It provides a better GUI experience of Prometheus metrics

## **9-Can we see different Servers CPU comparison in Grafana**

Yes we can