Prometheus query

Prometheus data type:

String, scalar ,range vector ,instant vector

String : text value

Scalar : number for given time

Range vector : metrics for certain range of time

Instant vector: metrics for one time

DATA TYPE:

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Counter , Gauge , Histogram , Summary

COUNTER : increased in nature . it is used to for only those metrics which only increases .

Function : rate () --- > rate(http\_request\_count[5s]) -- > it will give instant vector

This will give the result of increased value for 5 second .

Example :

1st second -- > 5

2nd second -- > 7 2 second increase

GAUGE ----- ------

It can go up and down like cpu usage and memory usage

HISTOGRAM

It reports to any measurement of value like percentile or average

SUMMARY---- ---

Q. What is label ?

Label is used to filter the metrics while retrieving .

= equal to , != not equal to , =~ positive regular expression , !~ negative regular expression

OFFSET

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OPERATOR--- ----

Aggregation -- > sum , min, etc

Binary -- >