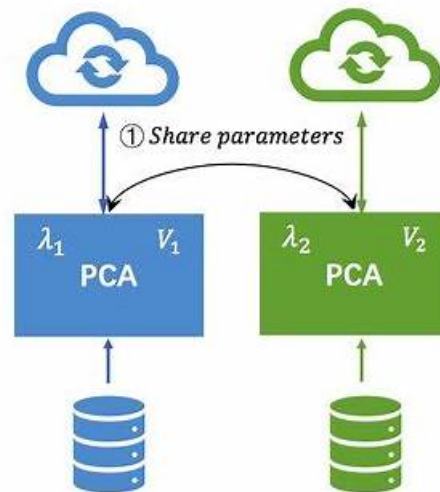


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## Linux Foundation Prometheus Certified Associate Exam Sample Questions (Q48-Q53):

### NEW QUESTION # 48

Which of the following PromQL queries is invalid?

- A. max on (instance) (up)
- B. max by (instance) up

- C. max without (instance) up
- D. max without (instance, job) up

**Answer: A**

Explanation:

The max operator in PromQL is an aggregation operator, not a binary vector matching operator. Therefore, the valid syntax for aggregation uses by() or without(), not on().

- max by (instance) up → Valid; aggregates maximum values per instance.
- max without (instance) up and max without (instance, job) up → Valid; aggregates over all labels except those listed.
- max on (instance) (up) → Invalid; the keyword on() is only valid in binary operations (e.g., +, -, and, or, unless), where two vectors are being matched on specific labels.

Hence, max on (instance) (up) is a syntax error in PromQL because on() cannot be used directly with aggregation operators.

Reference:

Verified from Prometheus documentation - Aggregation Operators, Vector Matching - on()/ignoring(), and PromQL Language Syntax Reference sections.

### NEW QUESTION # 49

Which field in alerting rules files indicates the time an alert needs to go from pending to firing state?

- A. interval
- **B. for**
- C. timeout
- D. duration

**Answer: B**

Explanation:

In Prometheus alerting rules, the for field specifies how long a condition must remain true continuously before the alert transitions from the pending to the firing state. This feature prevents transient spikes or brief metric fluctuations from triggering false alerts.

Example:

```
alert: HighRequestLatency
expr: http_request_duration_seconds_avg > 1
for: 5m
labels:
severity: warning
annotations:
```

description: "Request latency is above 1s for more than 5 minutes."

In this configuration, Prometheus evaluates the expression every rule evaluation cycle. The alert only fires if the condition (http\_request\_duration\_seconds\_avg > 1) remains true for 5 consecutive minutes. If it returns to normal before that duration, the alert resets and never fires.

This mechanism adds stability and noise reduction to alerting systems by ensuring only sustained issues generate notifications.

Reference:

Verified from Prometheus documentation - Alerting Rules Configuration Syntax, Pending vs. Firing States, and Best Practices for Alert Timing and Thresholds sections.

### NEW QUESTION # 50

Which of the following is an invalid @ modifier expression?

- A. sum(http\_requests\_total{method="GET"}) @ 1609746000
- **B. sum(http\_requests\_total{method="GET"}) @ 1609746000)**
- C. go\_goroutines @ start()
- D. go\_goroutines @ end()

**Answer: B**

Explanation:

The @ modifier in PromQL allows querying data as it existed at a specific point in time rather than the evaluation time. It can be applied after a selector or an entire expression, but the syntax rules are strict.

- `go_goroutines @ start()` → Valid; queries value at the start of the evaluation range.
- `sum(http_requests_total{method="GET"}) @ 1609746000` → Valid; applies the modifier after the full expression.
- `go_goroutines @ end()` → Valid; queries value at the end of the evaluation range.
- `sum(http_requests_total{method="GET"} @ 1609746000)` → Invalid, because the `@` modifier cannot appear inside the selector braces; it must appear after the selector or aggregation expression.

This invalid placement violates PromQL's syntax grammar for subquery and modifier ordering.

Reference:

Verified from Prometheus documentation - PromQL `@` Modifier Syntax, Evaluation Modifiers, and PromQL Expression Grammar sections.

### NEW QUESTION # 51

What is the minimum requirement for an application to expose Prometheus metrics?

- A. It must run on Linux.
- B. It must be compiled for 64-bit architectures.
- C. It must be exposed to the Internet.
- **D. It must be able to serve text over HTTP.**

**Answer: D**

Explanation:

Prometheus collects metrics by scraping an HTTP endpoint exposed by the target application. Therefore, the only essential requirement for an application to expose metrics to Prometheus is that it serves metrics in the Prometheus text exposition format over HTTP.

This endpoint is conventionally available at `/metrics` and provides metrics in plain text format (e.g., `Content-Type: text/plain; version=0.0.4`). The application can run on any operating system, architecture, or network - as long as Prometheus can reach its endpoint.

It does not need to be Internet-accessible (it can be internal) and is not limited to Linux or any specific bitness.

Reference:

Verified from Prometheus documentation - Exposition Formats, Instrumenting Applications, and Target Scraping Requirements sections.

### NEW QUESTION # 52

Given the following Histogram metric data, how many requests took less than or equal to 0.1 seconds?

```
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="+Inf"} 3
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="0.05"} 0
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="0.1"} 1
apiserver_request_duration_seconds_bucket{job="kube-apiserver", le="1"} 3
apiserver_request_duration_seconds_count{job="kube-apiserver"} 3
apiserver_request_duration_seconds_sum{job="kube-apiserver"} 0.554003785
```

- A. 0
- B. 1
- **C. 2**
- D. 0.554003785

**Answer: C**

Explanation:

In Prometheus, histogram metrics use cumulative buckets to record the count of observations that fall within specific duration thresholds. Each bucket has a label `le` ("less than or equal to"), representing the upper bound of that bucket.

In the given metric, the bucket labeled `le="0.1"` has a value of 1, meaning exactly one request took less than or equal to 0.1 seconds.

Buckets are cumulative, so:

`le="0.05"` → 0 requests ≤ 0.05 seconds

`le="0.1"` → 1 request ≤ 0.1 seconds

`le="1"` → 3 requests ≤ 1 second

`le="+Inf"` → all 3 requests total

The `_sum` and `_count` values represent total duration and request count respectively, but the number of requests below a given threshold is read directly from the bucket's `le` value.

Reference:

Verified from Prometheus documentation - Understanding Histograms and Summaries, Bucket Semantics, and Histogram Query Examples sections.

## NEW QUESTION # 53

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