

SIMPLE NETWORK MONITORING

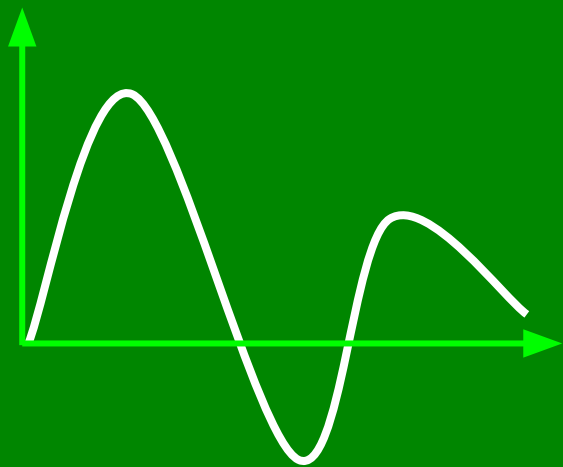
PART TWO - PROMETHEUS

VICTOR ZAKHARYEV
WORKDAY

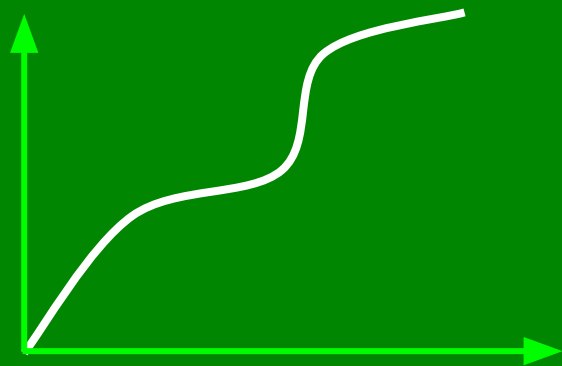
- TIME SERIES
- EVENTS
- STATE <<< !!!

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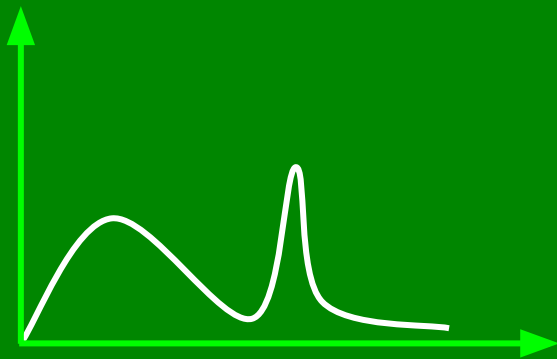
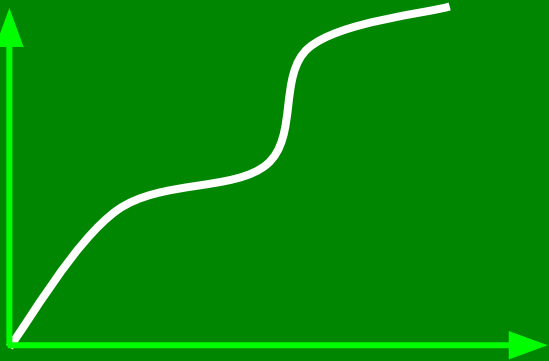
GAUGE



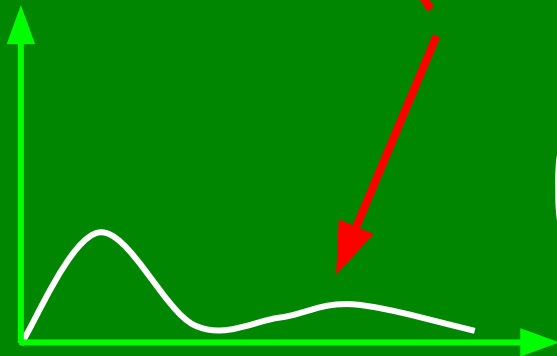
COUNTER



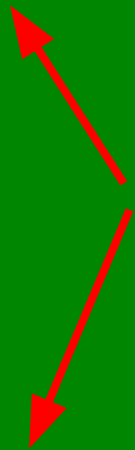
COUNTER



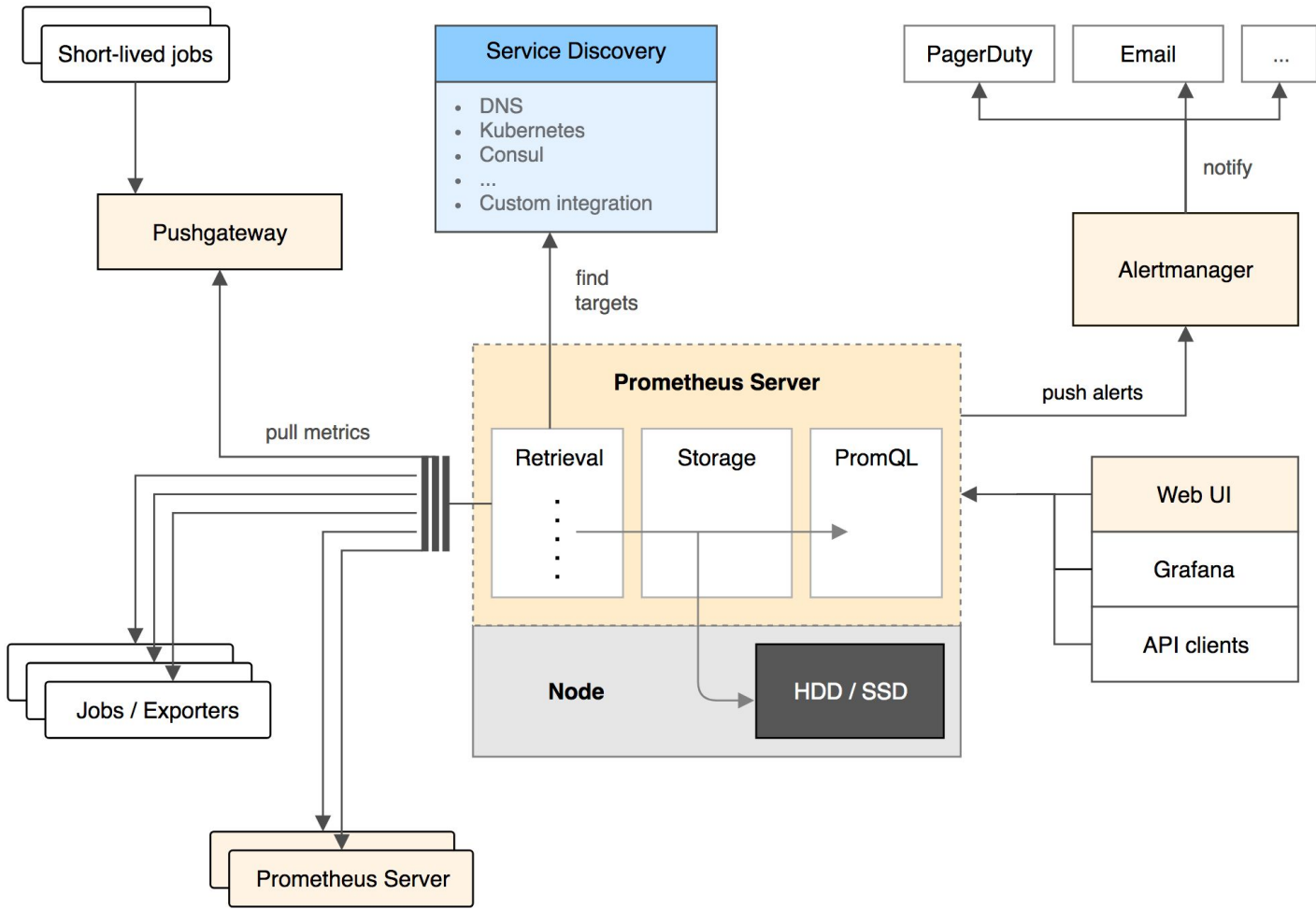
RATE(COUNTER)

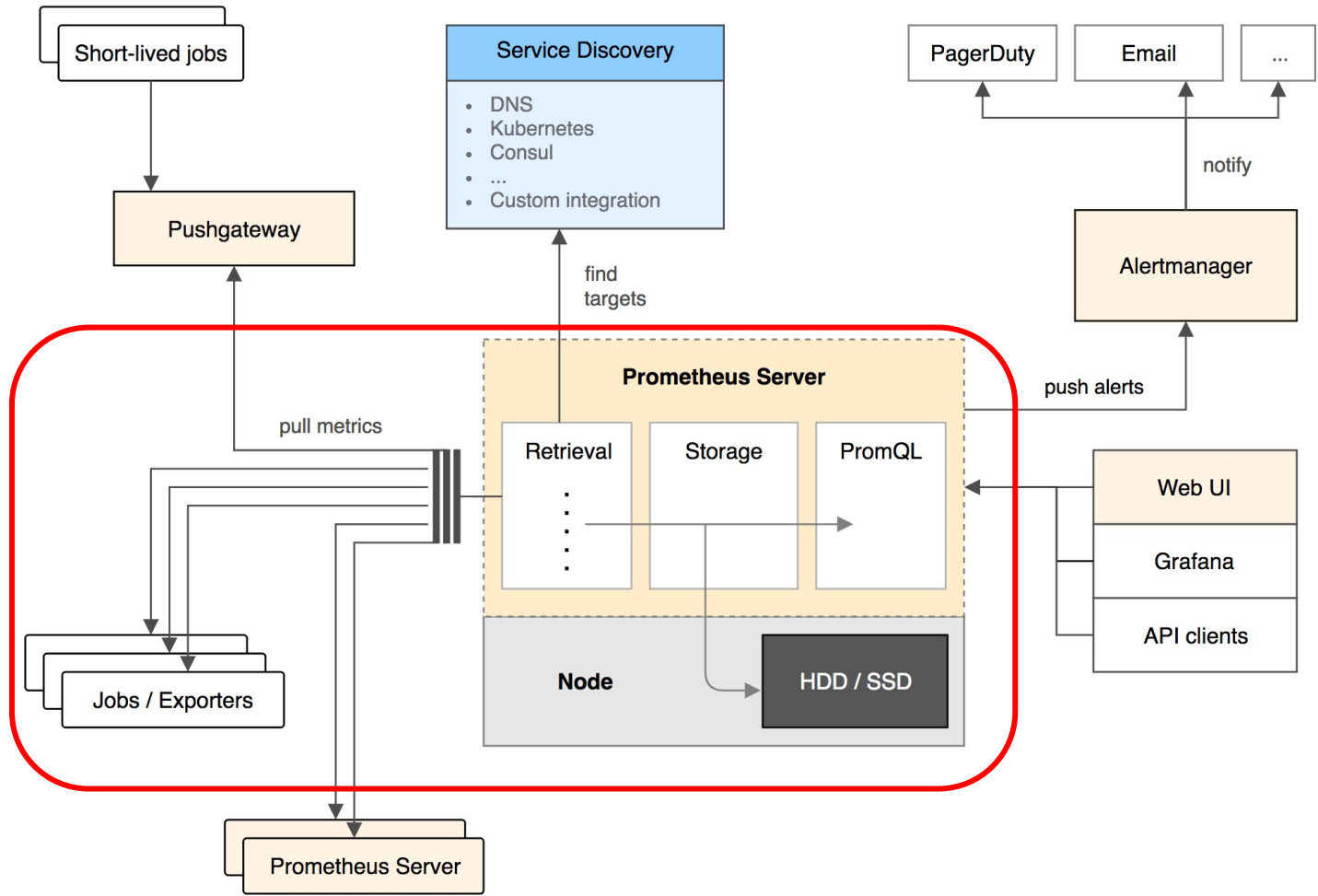


GAUGE



PROMETHEUS IS ...





PROM QUERY LANGUAGE

```
Http_requests_total
```

```
http_requests_total{job="prometheus"}[5m]
```

```
irate(http_requests_total{job="prometheus"}[5m])
```

ALERTING RULES SYNTAX

```
ALERT <alert name>
```

```
  IF <expression>
```

```
    [ FOR <duration> ]
```

```
    [ LABELS <label set> ]
```

```
    [ ANNOTATIONS <label set> ]
```

ALERTING RULES EXAMPLE



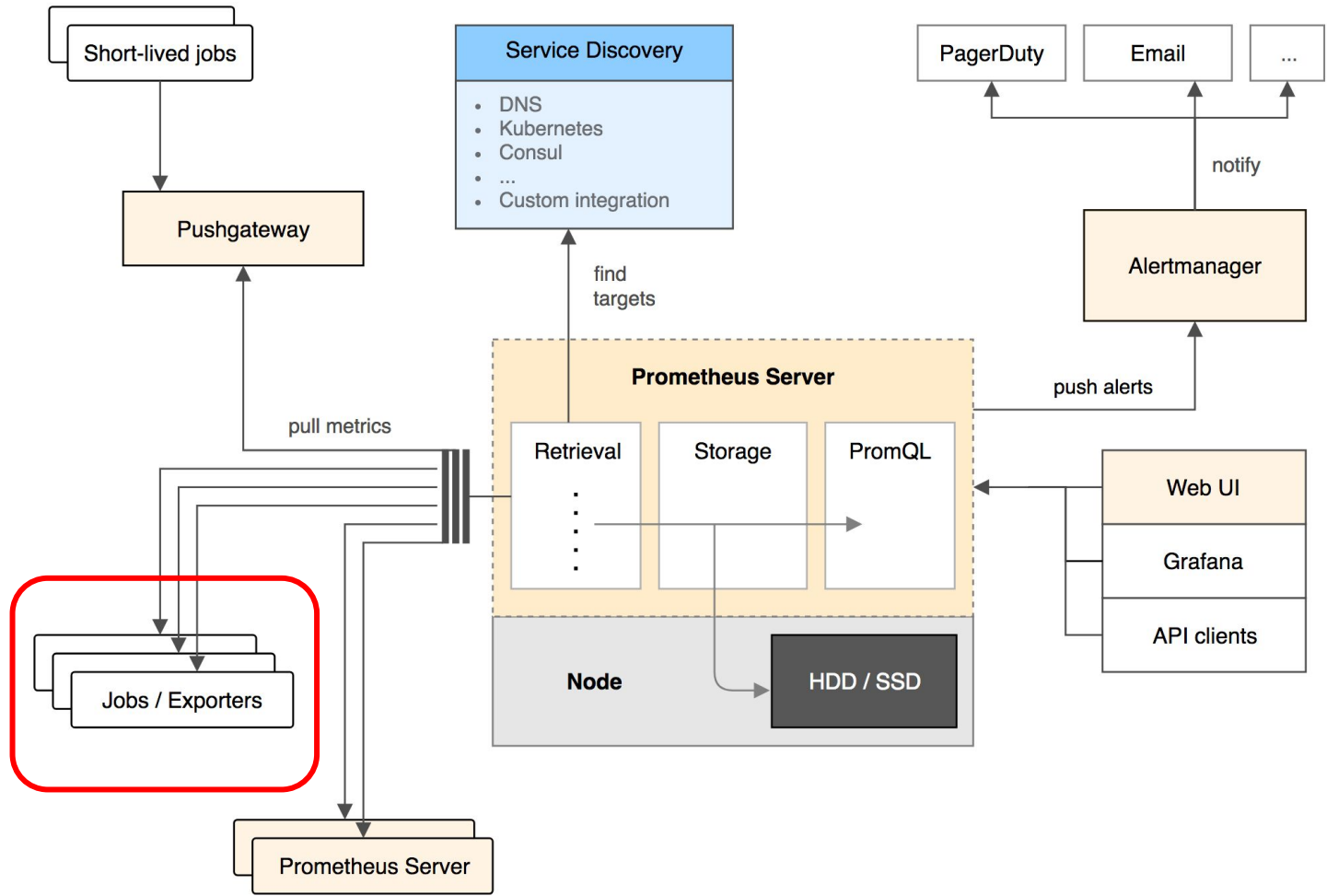
4 HOURS

```
ALERT DiskWillFillIn4Hours
```

```
IF predict_linear(node_filesystem_free{job='node'}[1h], 4*3600) < 0
```

```
FOR 5m
```

```
LABELS { severity="page" }
```

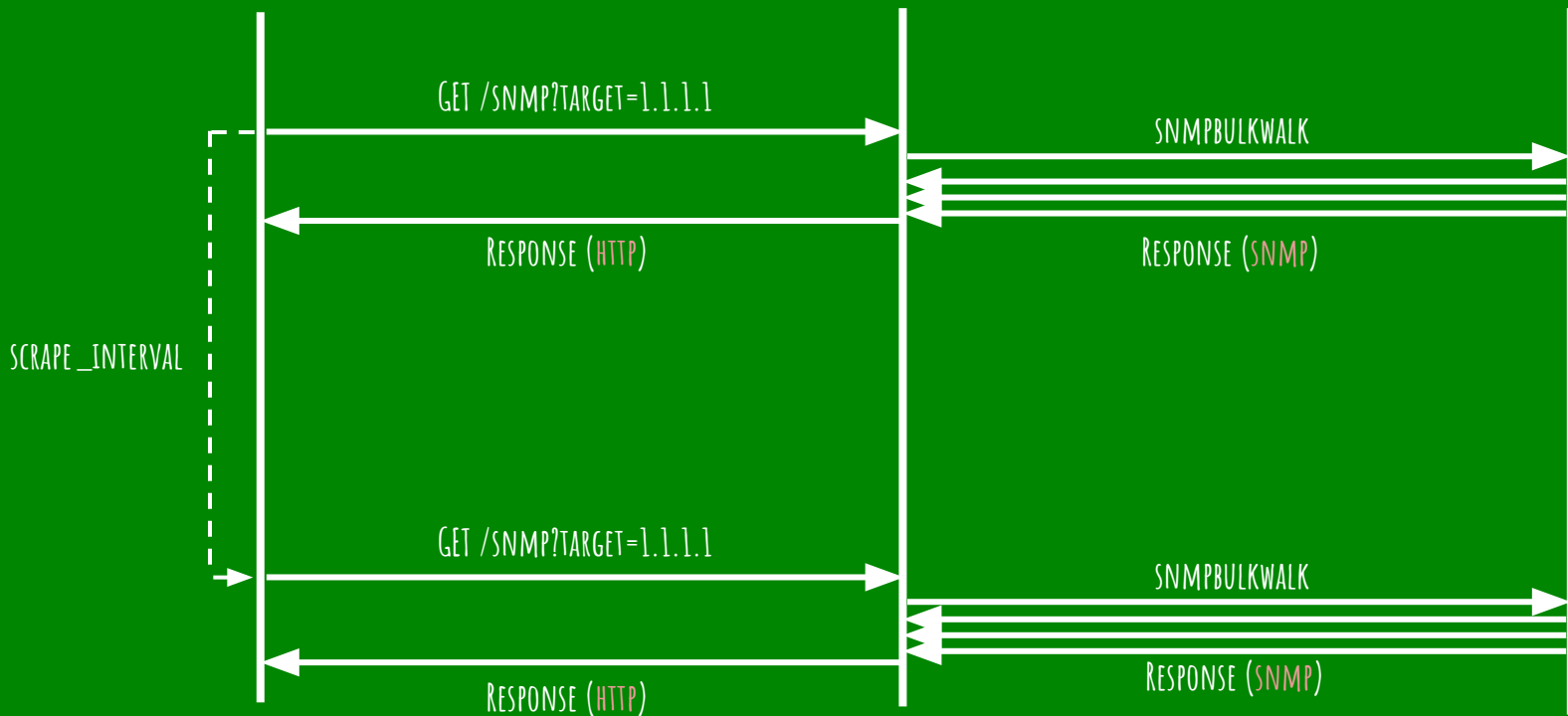


PROMETHEUS

SNMP EXPORTER

NETWORK DEVICE

(1.1.1.1)



VENDOR'S MIBS
+ GENERATOR.YML
= SNMP.YML

QUICK DEMO

LIMITS:

GETTING RIGHT LABELS CAN BE HARD

SINGLE SET OF SNMP CREDENTIALS PER DEVICE TYPE

NO AUTO-INVENTORY

NO TLS "FROM THE BOX" *

QUESTIONS?

SEE DEMO'S REPOSITORY ON:

[GITHUB.COM/VAZIC/PROMETHEUS_SNMP_VAGRANT](https://github.com/vazic/prometheus_snmp_vagrant)