WHAT IS PROMETHEUS?



Prometheus is a software application used for event monitoring and alerting

WHY PROMETHEUS?

✓ Records any purely numeric time series



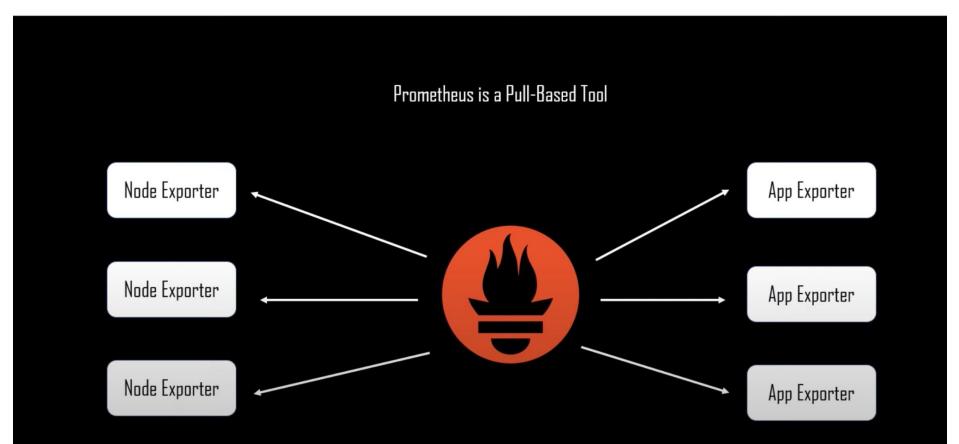
✓ Designed for Reliability



It can monitor both:

Machine-centric and Highly dynamic serviceoriented architectures

WHY PROMETHEUS?



CONTINUOUS MONITORING - PROMETHEUS

Applications Exception

Memory Usage

Server CPU

Storage Spikes

docker run -p 9090:9090 prom/prometheus	
https://devops4solutions.com/monitoring-using-prometheus-and-grafana-on-aws-ec2/	



Add Panel

Remove Panel

```
localhost:9090/metrics X
  Prometheus Time Series X
(-) → C' (1)
                                                                                                                ... ☑ ☆
                          O localhost:9090/metrics
                                                                                                        120%
# HELP go gc duration seconds A summary of the pause duration of garbage collection cycles.
# TYPE go gc duration seconds summary
10 gc duration seconds{quantile="0"} 5.3652e-05
go gc duration seconds{quantile="0.25"} 0.000115902
go gc duration seconds{guantile="0.5"} 0.000172372
go gc duration seconds{quantile="0.75"} 0.00032202
go gc duration seconds{quantile="1"} 0.004481596
10 gc duration seconds sum 0.01222167
o gc duration seconds count 29
# HELP go goroutines Number of goroutines that currently exist.
# TYPE go goroutines gauge
10 goroutines 31
# HELP go info Information about the Go environment.
# TYPE go info gauge
jo info{version="go1.15.6"} 1
# HELP go memstats alloc bytes Number of bytes allocated and still in use.
# TYPE go memstats alloc bytes gauge
no memstats alloc bytes 2.4208464e+07
# HELP go memstats alloc bytes total Total number of bytes allocated, even if freed.
# TYPE go memstats alloc bytes total counter
no memstats alloc bytes total 1.740308e+08
# HELP go memstats buck hash sys bytes Number of bytes used by the profiling bucket hash table.
# TYPE go memstats buck hash sys bytes gauge
o memstats buck hash sys bytes 1.482145e+06
# HELP go memstats frees total Total number of frees.
# TYPE go memstats frees total counter
o memstats frees total 858776
# HELP go memstats gc cpu fraction The fraction of this program's available CPU time used by the GC since the program started.
# TYPE go memstats gc cpu fraction gauge
o memstats gc cpu fraction 1.9999821734066367e-05
# HELP go memstats gc sys bytes Number of bytes used for garbage collection system metadata.
* TYPE go memstats gc sys bytes gauge
o memstats gc sys bytes 5.937176e+06
```