

### Paranoid Observability

Success Stories and Misfortunes observing an Observability Stack

**Erik Sommer** 

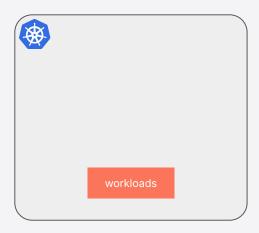
Sr. Software Engineer

#### What you can expect

How we use our own Tools for testing and our own observability

What we do to be safe doing this

Smaller mishaps along the way

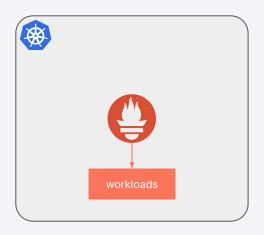


### Just Kubernetes



```
<0> all
                                                                                          <6> default <a>
                                                                  <1> metamonitoring
K9s Rev:
K8s Rev:
                                                                  <4> mimir-prometheus
        44%
                                                                  <5> hosted-exporters
                                                                                                       <shift-j> Jump Own
        27%
                                                          Pods(kube-state-metrics)[7] —
NAME<sub>1</sub>
                    PF READY STATUS RESTARTS CPU MEM %CPU/R %CPU/L %MEM/R %MEM/L IP
                                                                                            NODE
                                                                                                                                      AGE
 kube-state-metrics-0 ● 1/1 Running
                                           0 87 184
                                                                                                                                     20h
                                                        28
                                                             n/a
                                                                     17 n/a
kube-state-metrics-1 ● 1/1 Running
                                           0 64 148
                                                        21
                                                             n/a
                                                                     14
                                                                          n/a
                                                                                                                                      14h
kube-state-metrics-2 ● 1/1 Running
                                           0 92 147
kube-state-metrics-3 ● 1/1 Running
                                           0 76 152
kube-state-metrics-4 ● 1/1 Running
                                           0 72 156
kube-state-metrics-5 • 1/1 Running
                                           0 64 155
                                                                                                                                      5h44m
kube-state-metrics-6 • 1/1 Running
                                           0 80 155
 <pod>
```



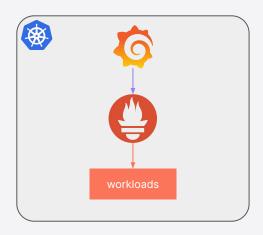


# We need to see something





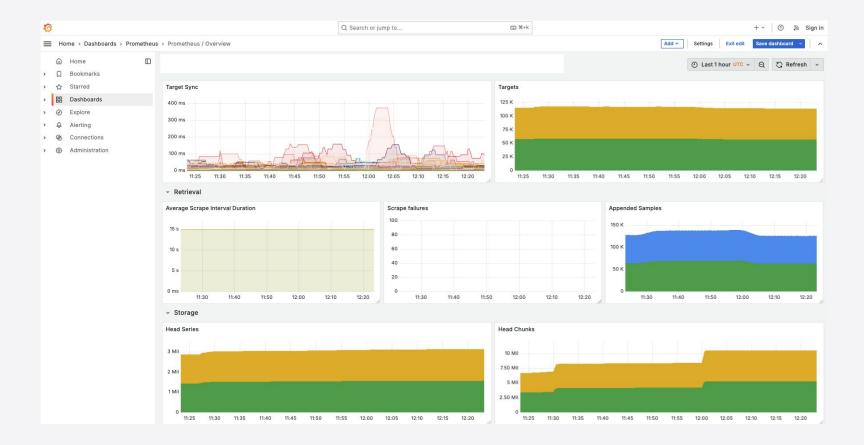




## A dashboard would be nice







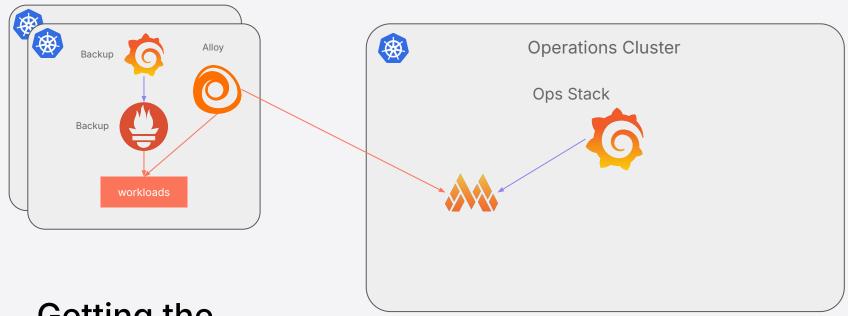




### **Going Global**





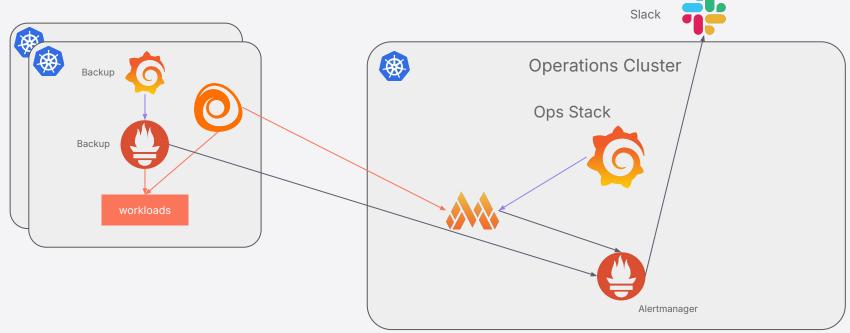


Getting the global picture







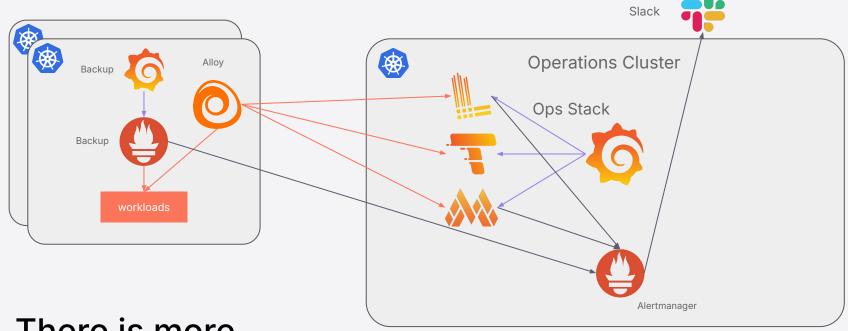


Time for alerts



→ Query Metrics



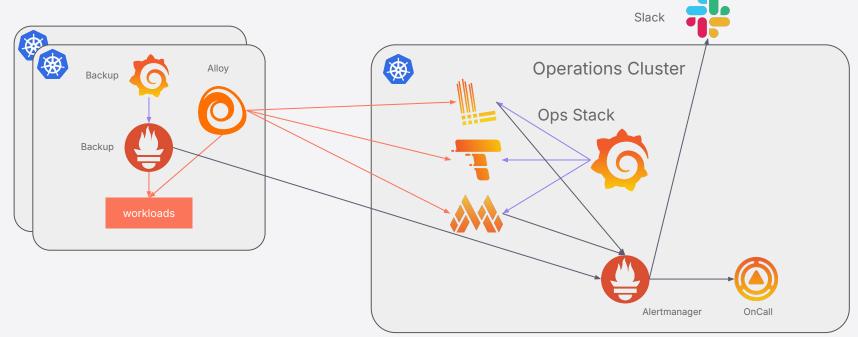


There is more than metrics

→ Scrape and Write Metrics

→ Query Metrics



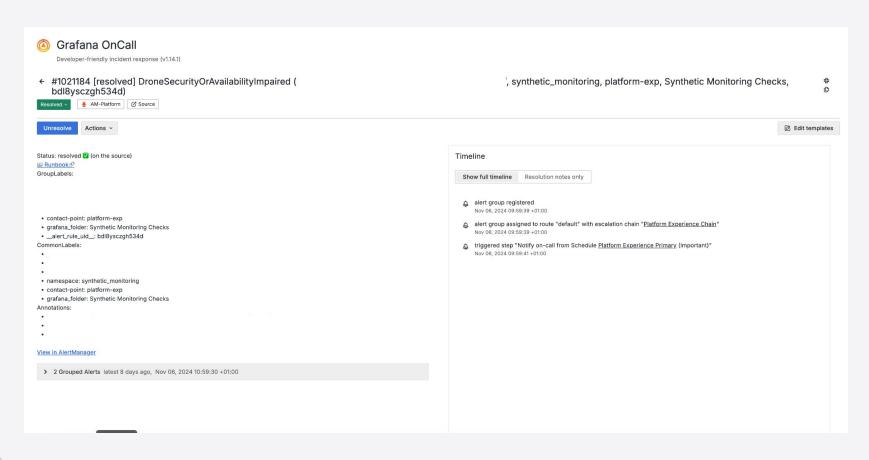


Wakeup!

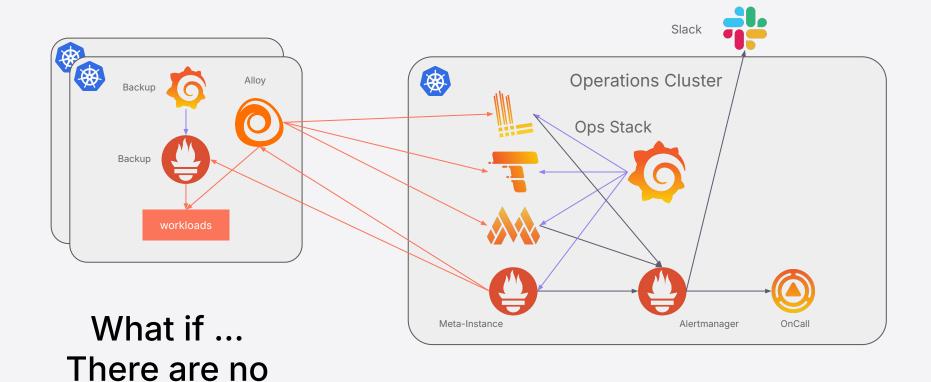
→ Scrape and Write Metrics

→ Query Metrics







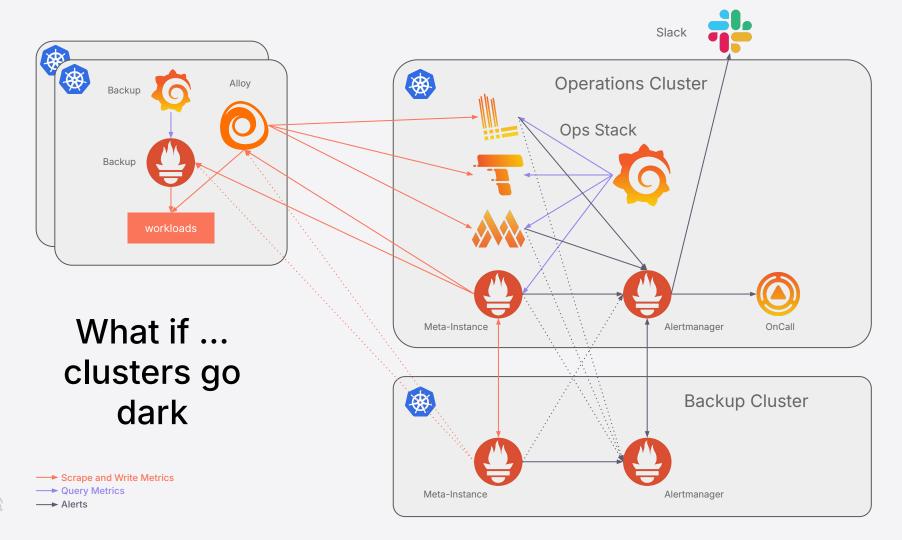


→ Scrape and Write Metrics

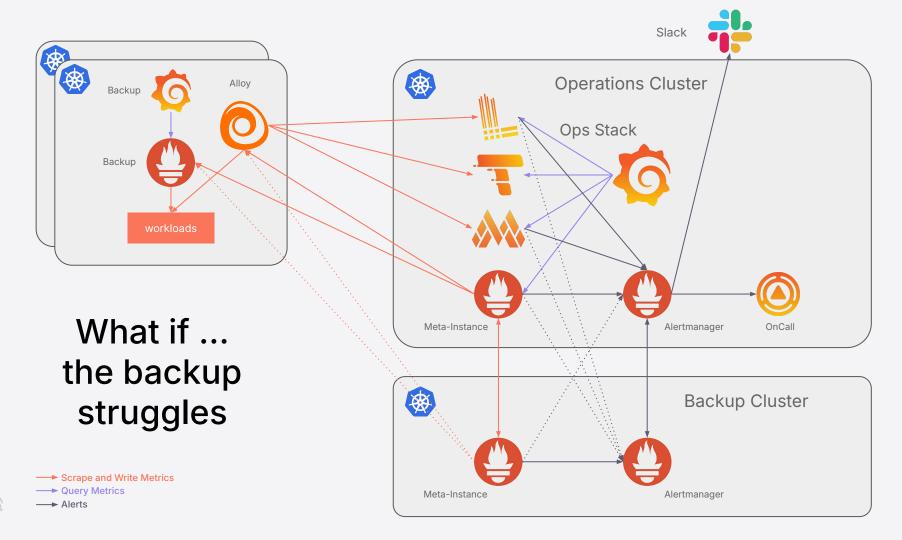
scrapes

→ Query Metrics





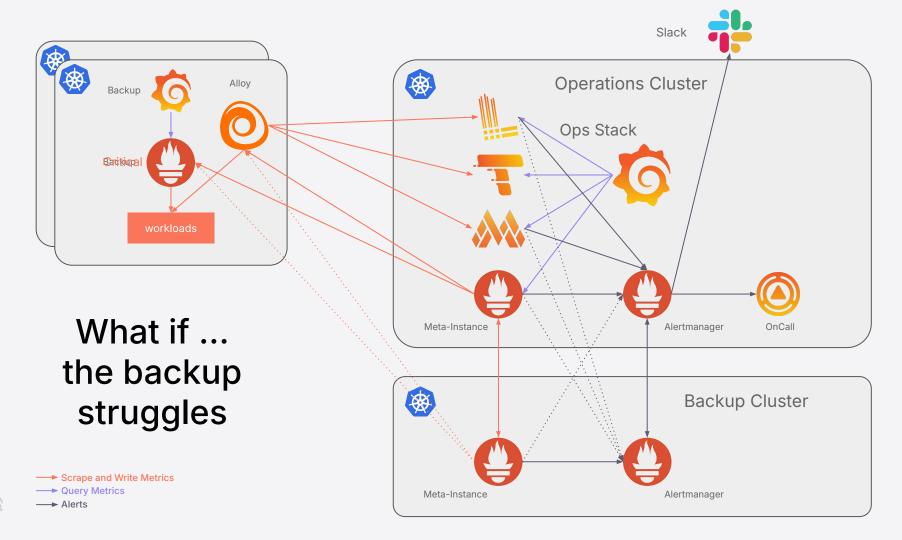




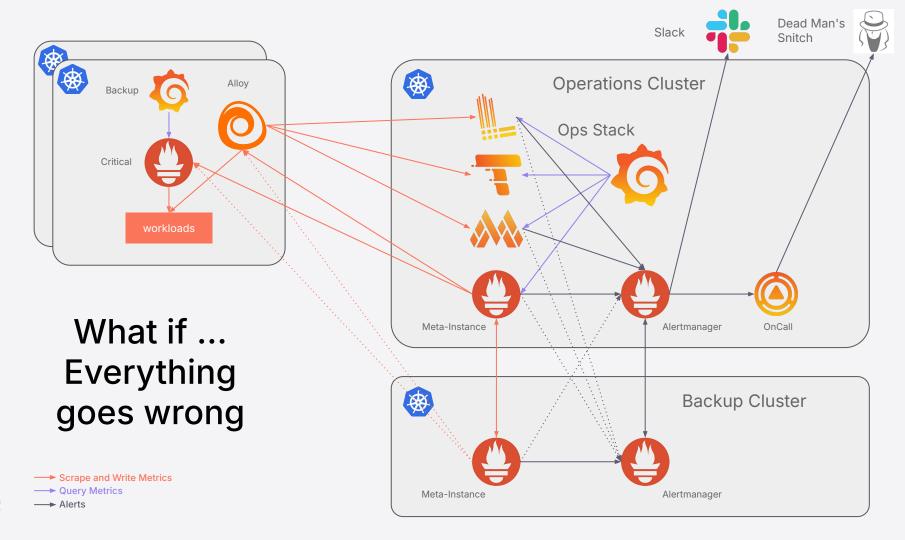
















## Thank you

Slides: https://github.com/the-it/talks



