

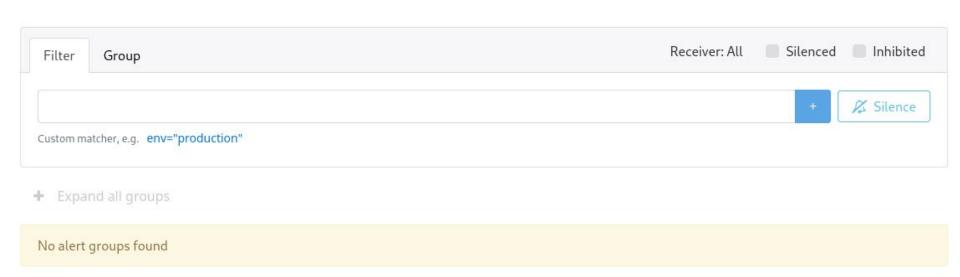
Kiora: A less opinionated Alertmanager

Colin Douch, Observability @ Cloudflare



Alertmanager Alerts Silences Status Settings Help







Alertmanager is hard

Let's talk about that





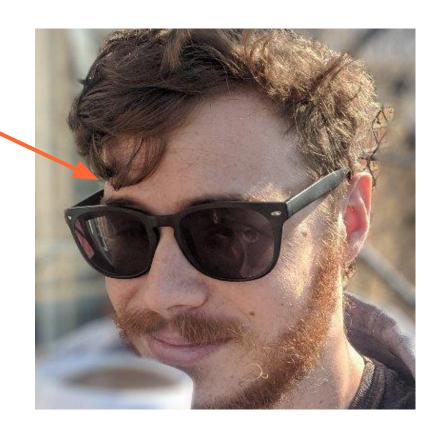
A Quick Introduction

Not British

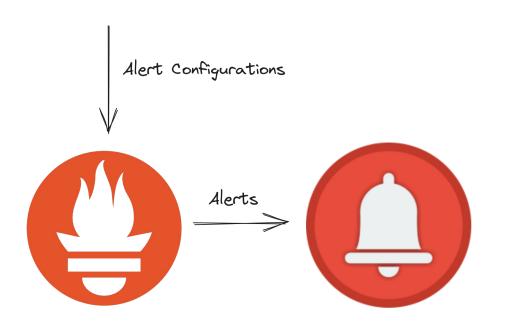
Hi! I'm Colin

Observability Lead @ Cloudflare

Has bad opinions







Alertmanager is simple, right?

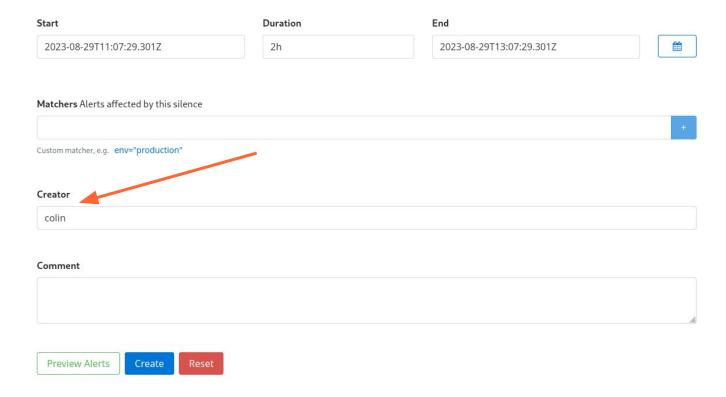


Let's start with Silences

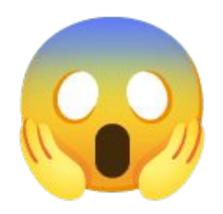




New Silence







What if we just *didn't*



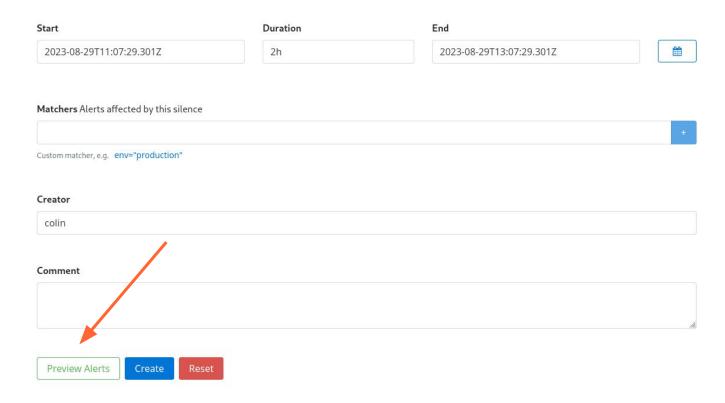
amtool silence add -c 'cd@cloudflare.com' -d 8h instance="\$instance"



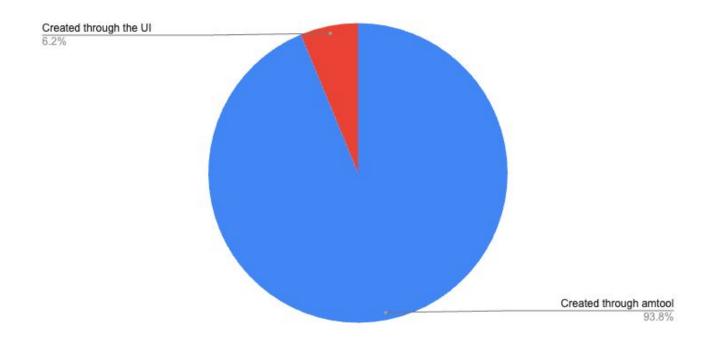
amtool silence add -c 'cd@cloudflare.com' -d 8h instance="\$instance"



New Silence









Let's talk about alerts





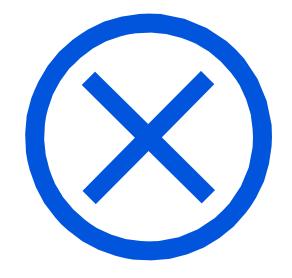
We lint our alerts:

https://github.com/cloudflare/pint

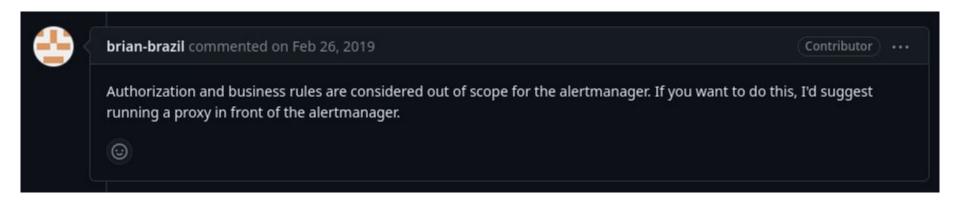




But what does "Bad" mean?







https://github.com/prometheus/alertmanager/issues/1769

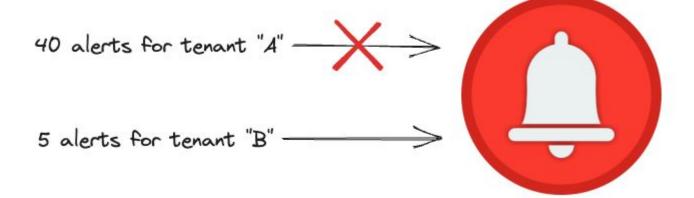


https://github.com/sinkingpoi
nt/alertmanager_bouncer











This works quite well!

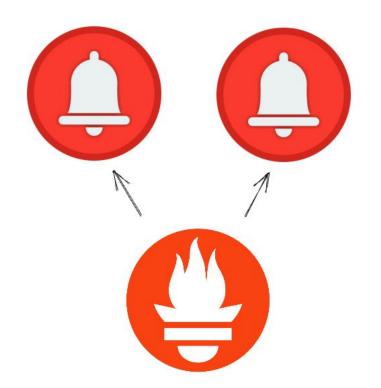


But ...

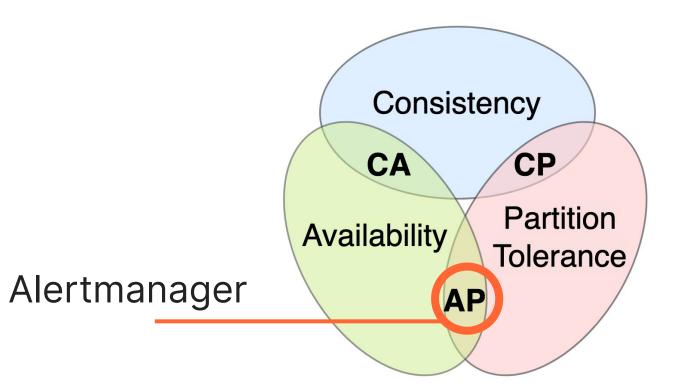


 Send your alerts to two Alertmanagers

2. Done









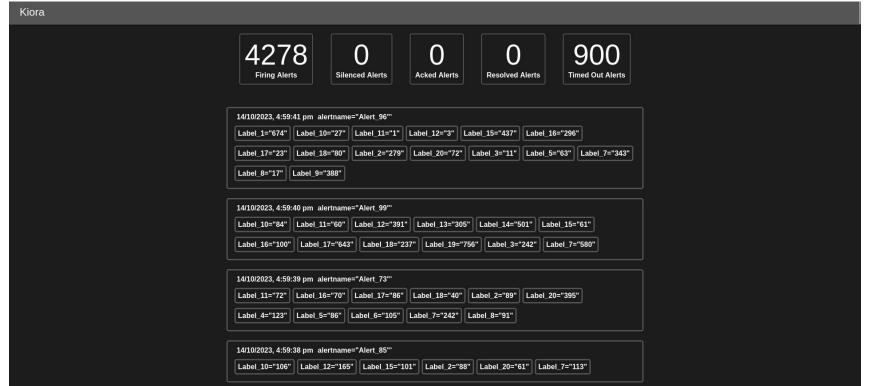
Why didn't my alert fire?

Why did my alert take so long to fire?

Why did my alert fire?











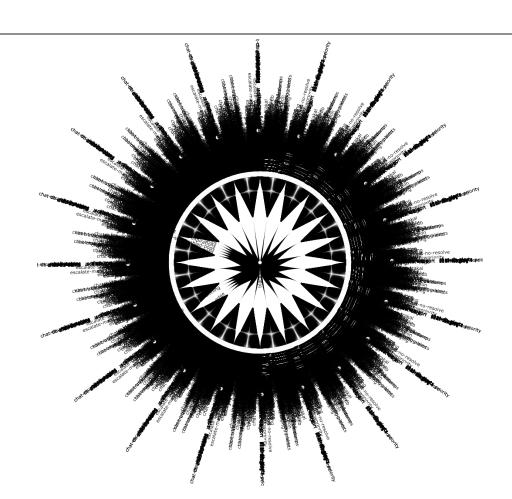






https://github.com/sinkingpoint/kiora/



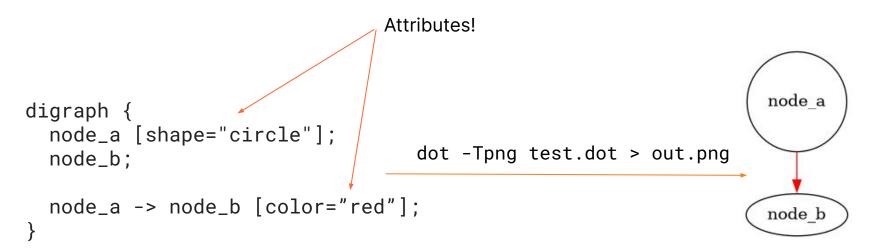




```
digraph {
  node_a [shape="circle"];
  node_b;

  node_a -> node_b [color="red"];
}
```







```
digraph {
  my_channel [type="slack" api_url="https://hooks.slack.com/services/x/x"];
  alerts -> my_channel;
}
```

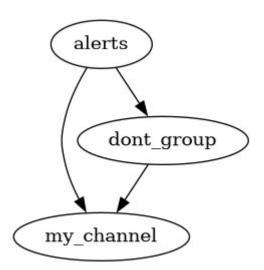


```
digraph {
  my_channel [type="slack" api_url="https://hooks.slack.com/services/x/x"];
  alerts -> my_channel [type="regex" field="dest" regex=".*slack.*"];
}
```



```
digraph {
  my_channel [type="slack" api_url="https://hooks.slack.com/services/x/x"];
  dont_group [type="group_wait" duration="0s"];
  alerts -> dont_group [type="regex" field="grouping" regex=".*none.*"];
  dont_group -> my_channel [type="regex" field="dest" regex=".*slack.*"];
  alerts -> my_channel [type="regex" field="dest" regex=".*slack.*"];
}
```







```
digraph config {
    longer_than_one_shift -> test_ticket [type="duration" field="duration" min="8h"];

    // If they're longer than 8h, enforce a JIRA ticket.
    test_ticket -> silences [type="regex" field="comment" regex="[A-Z]+-[0-9]+"];

    // Alternatively, if they're a maximum of 8h long, let them through.
    short_silences -> silences [type="duration" field="duration" max="8h"];
}
```



But that's not interesting



https://github.com/hashicorp/memberlist







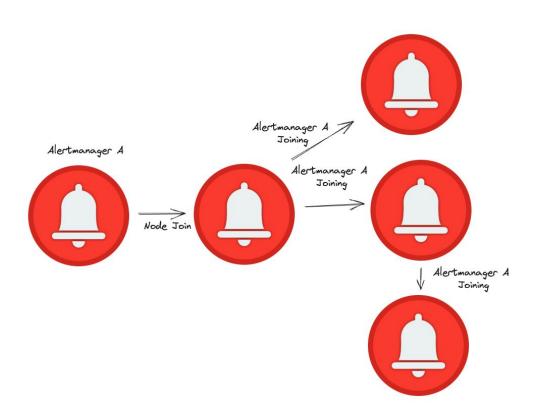
https://github.com/hashicorp/serf



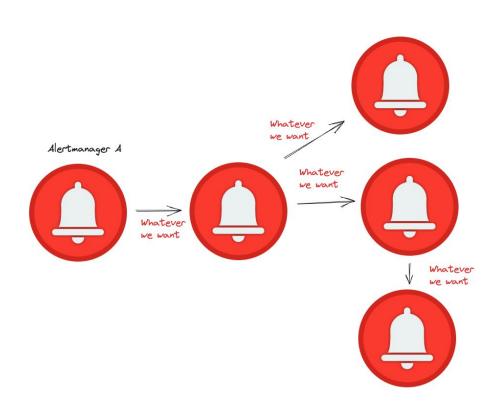


Serf

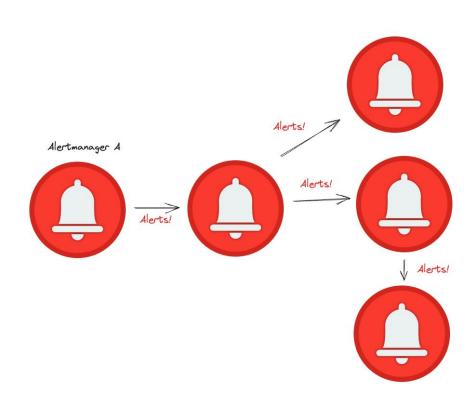












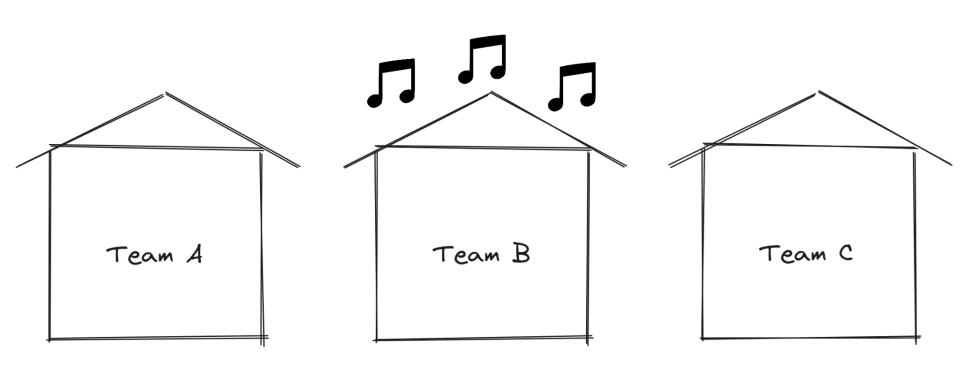


Serf does a full state sync over TCP periodically.



https://www.serf.io/docs/internals/gossip.html



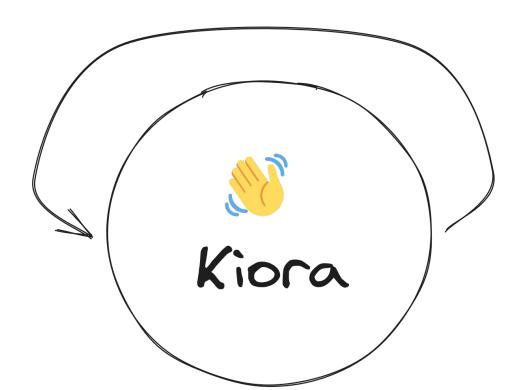




```
digraph {
    tenant_key = "{{ .team }}";
    // Ratelimit alerts to 300 per 30 seconds per tenant.
    ratelimit -> alerts [type="ratelimit" rate="300" interval="30s"];
}
```



Kiora acts as its own Client





Which brings us back to





Is anyone actually working on this alert?





```
digraph config {
  test_email -> acks [type="regex" field="creator" regex=".+@cloudflare.com"];
}
```



Why didn't my alert fire?

Why did my alert take so long to fire?

Why did my alert fire?







Thanks!



Slides ^