

# Self-Service Monitoring

By @mxinden



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~~CoreOS~~ Red Hat

# Problem

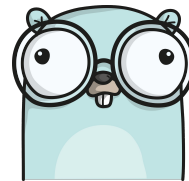
Olivia



From the operations team

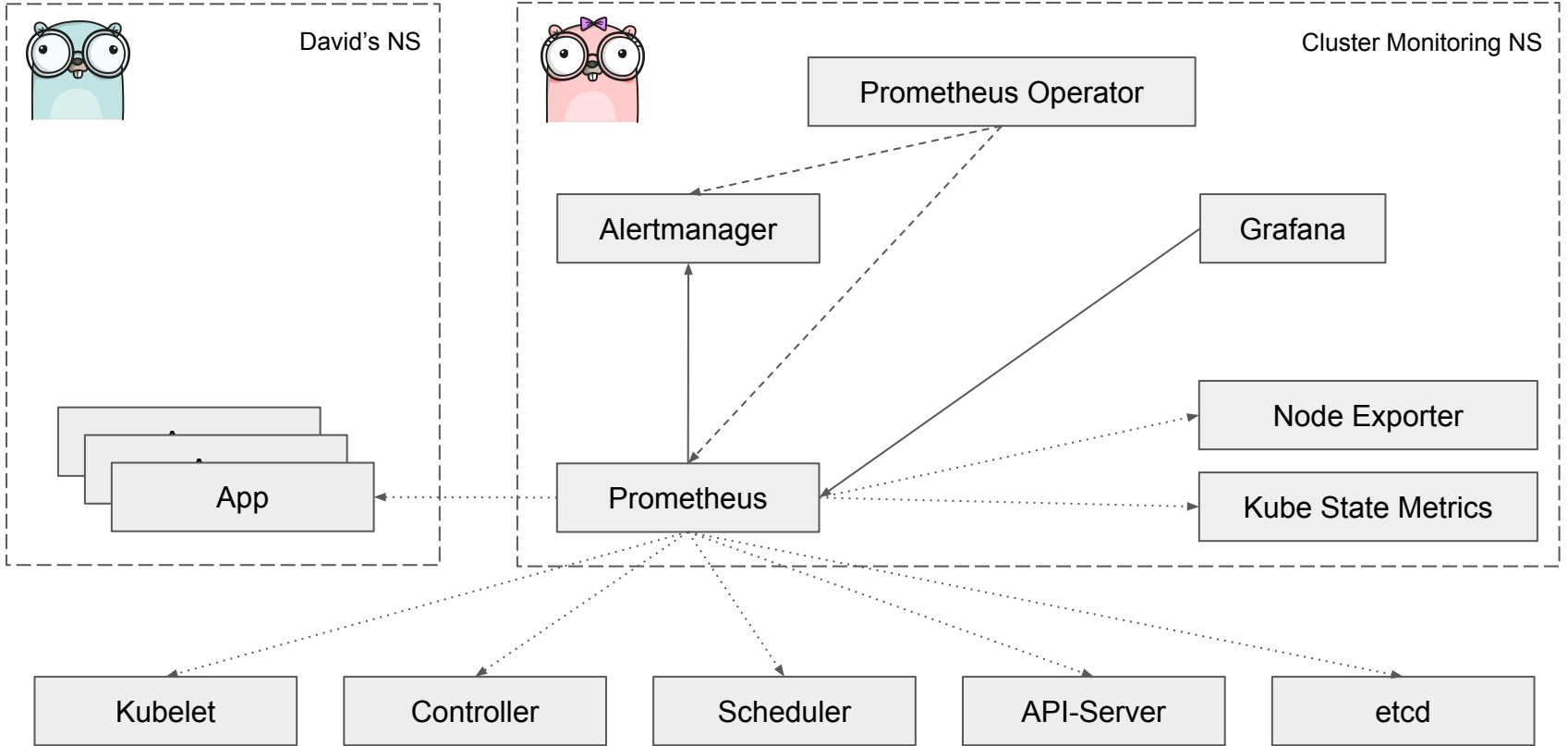
- Manages the infrastructure.
- Operates a monitoring stack on top for **cluster monitoring**.

David

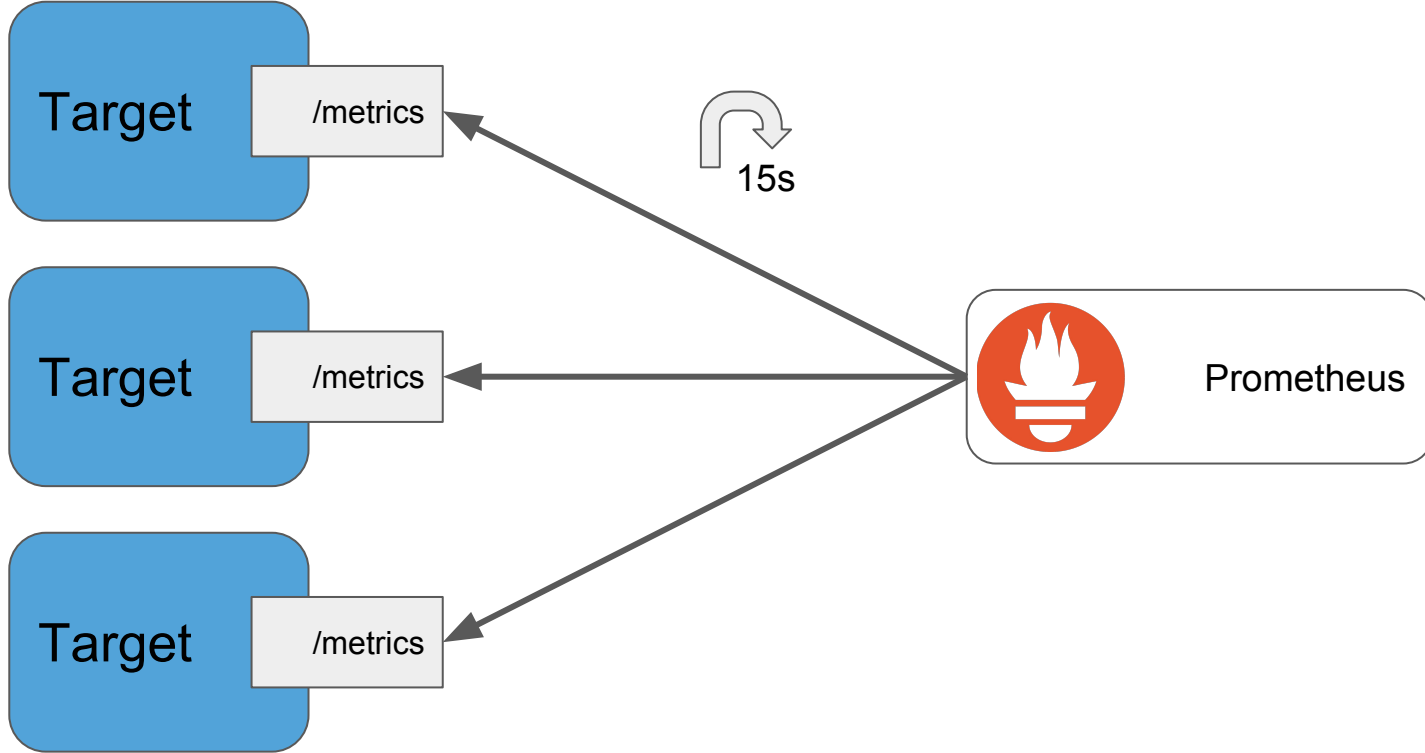


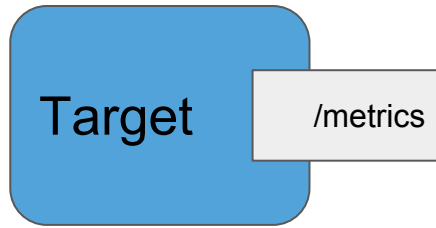
From the development team

- Deploys an app on the infrastructure.
- Would like to do **application monitoring** to learn more about the application in production.



Prometheus





```
http_requests_total{code="200",path="/status"} 8
```

```
http_requests_total{code="500",path="/status"} 8
```

# Prometheus Query Language

```
sum(http_requests_total{status="200"})
```



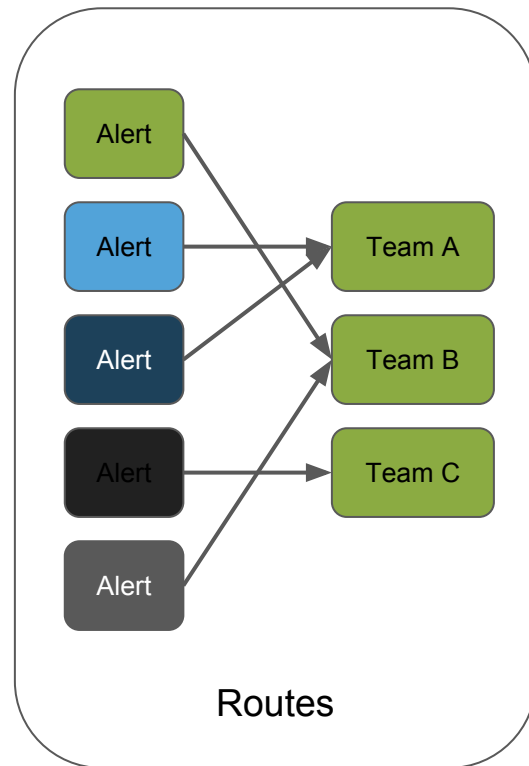
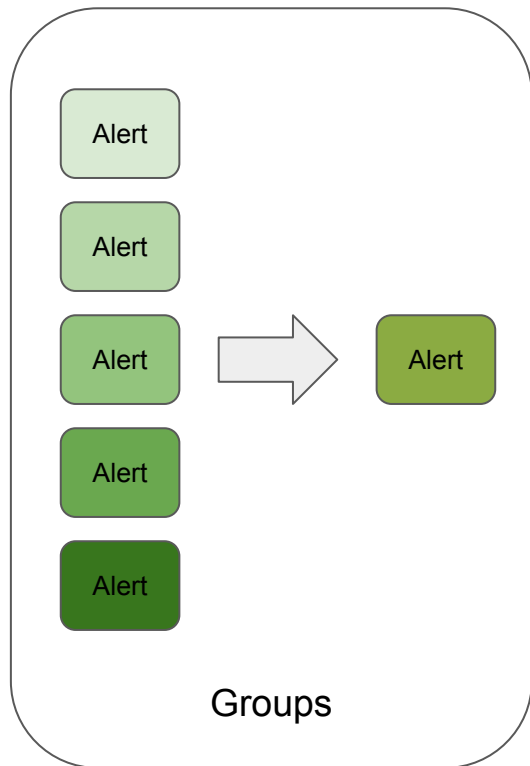
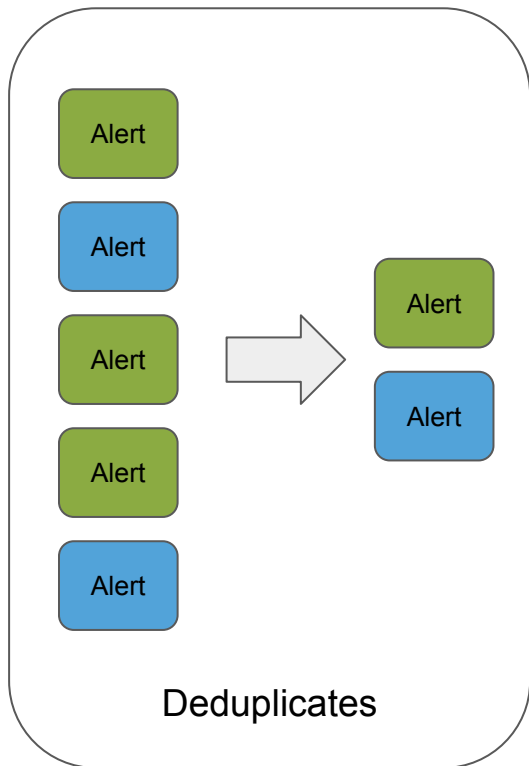
Alertmanager

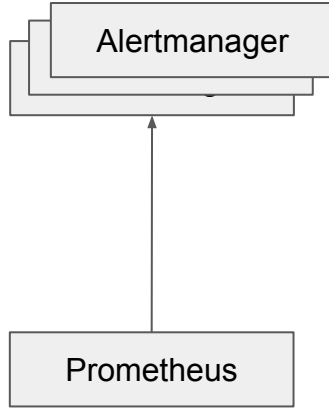
Prometheus



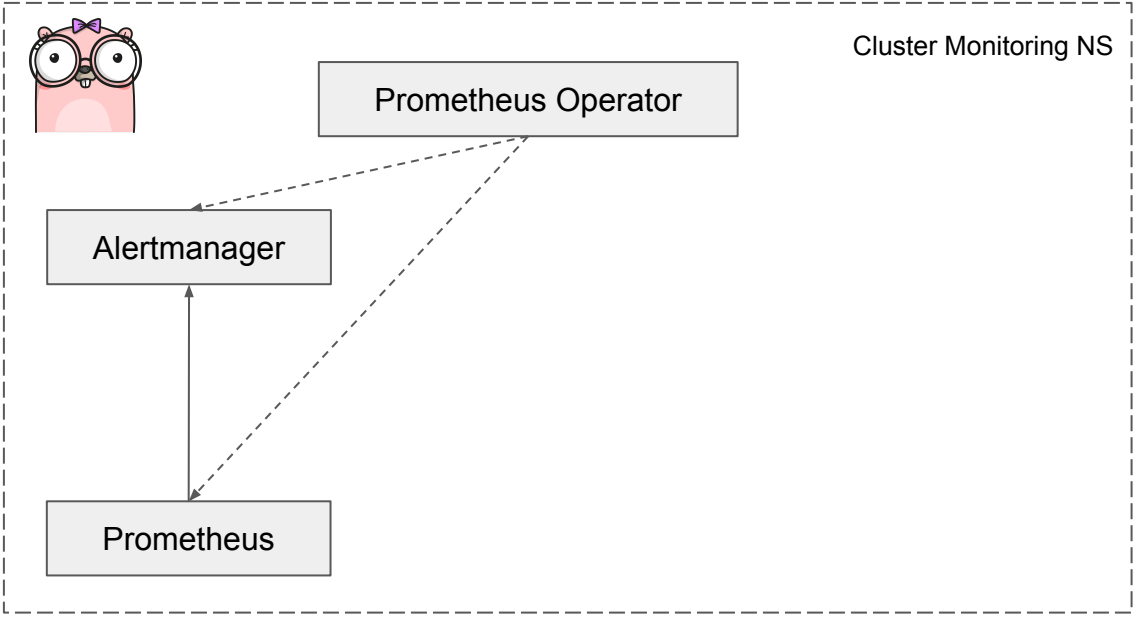


Alertmanager





Cluster Monitoring NS



Cluster Monitoring NS



Prometheus Operator

Alertmanager

Grafana

Prometheus

Node Exporter

Kube State Metrics

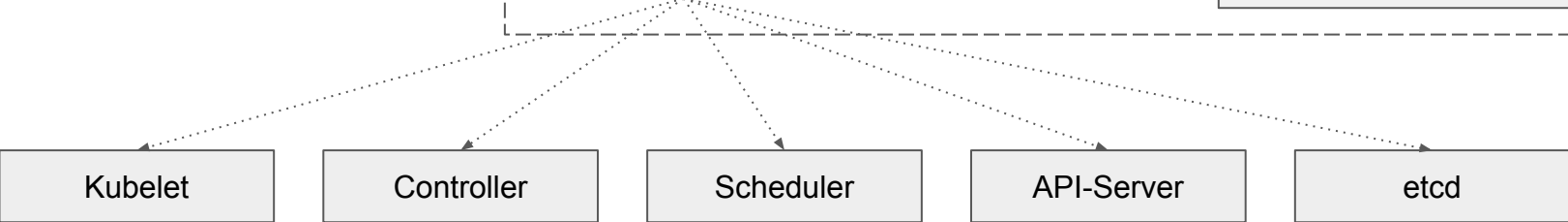
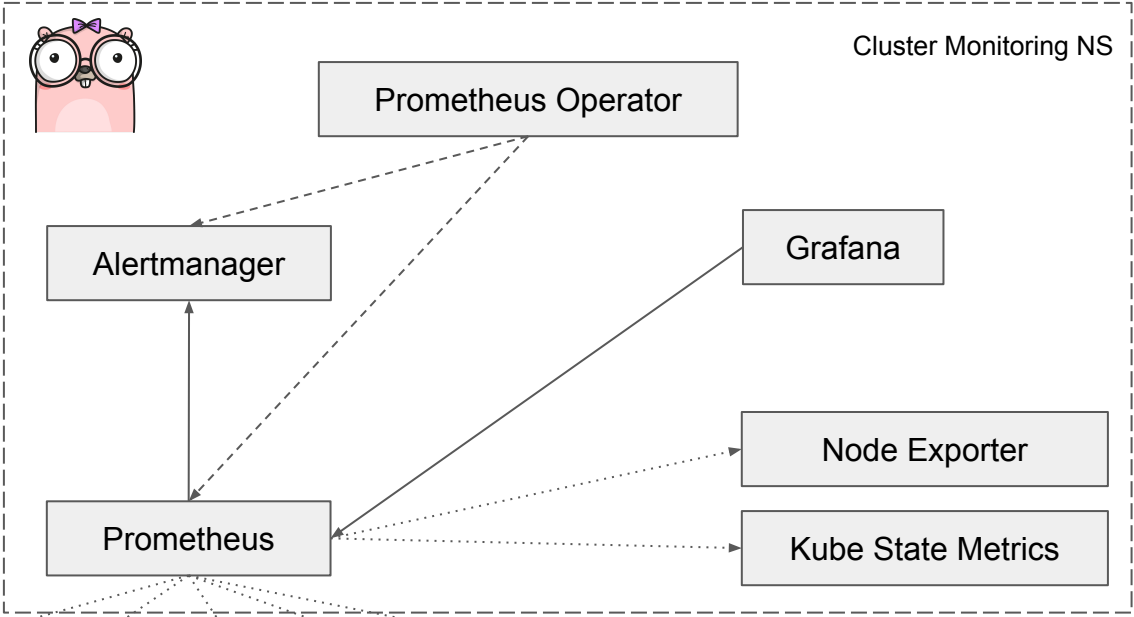
Kubelet

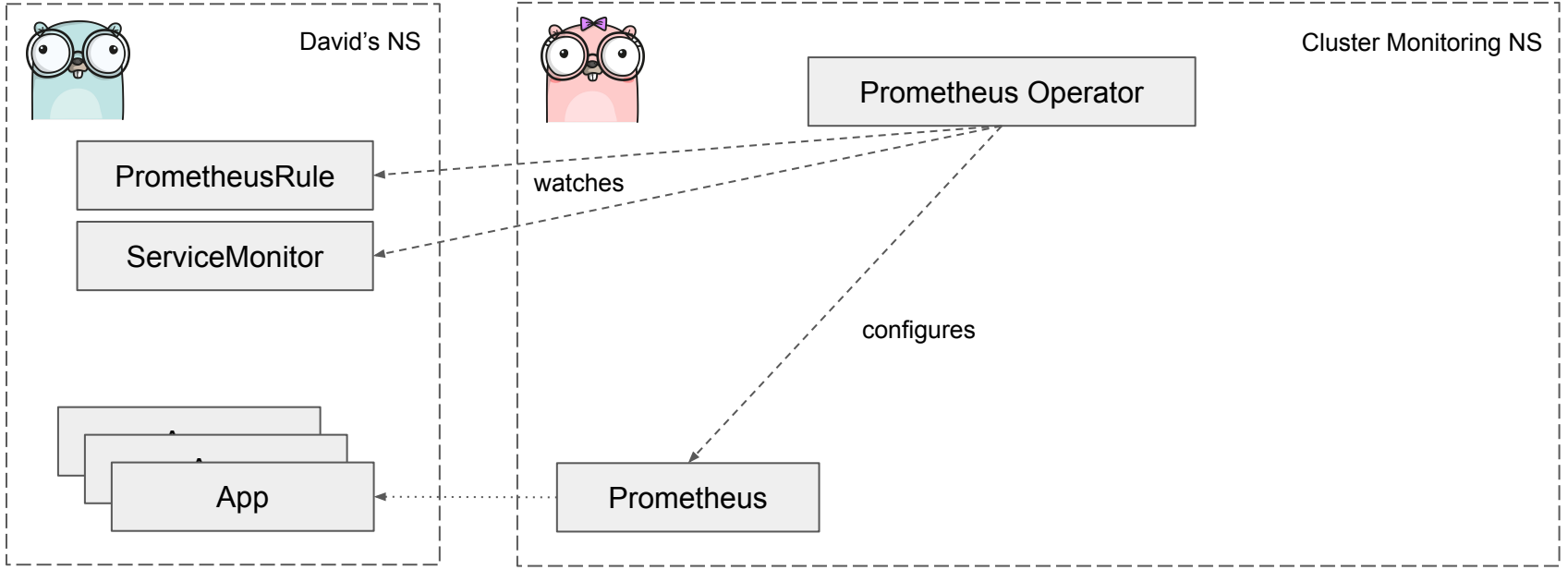
Controller

Scheduler

API-Server

etcd





David's NS

Cluster Monitoring NS



Prometheus Operator

Alertmanager

Grafana

App

Prometheus

Node Exporter

Kube State Metrics

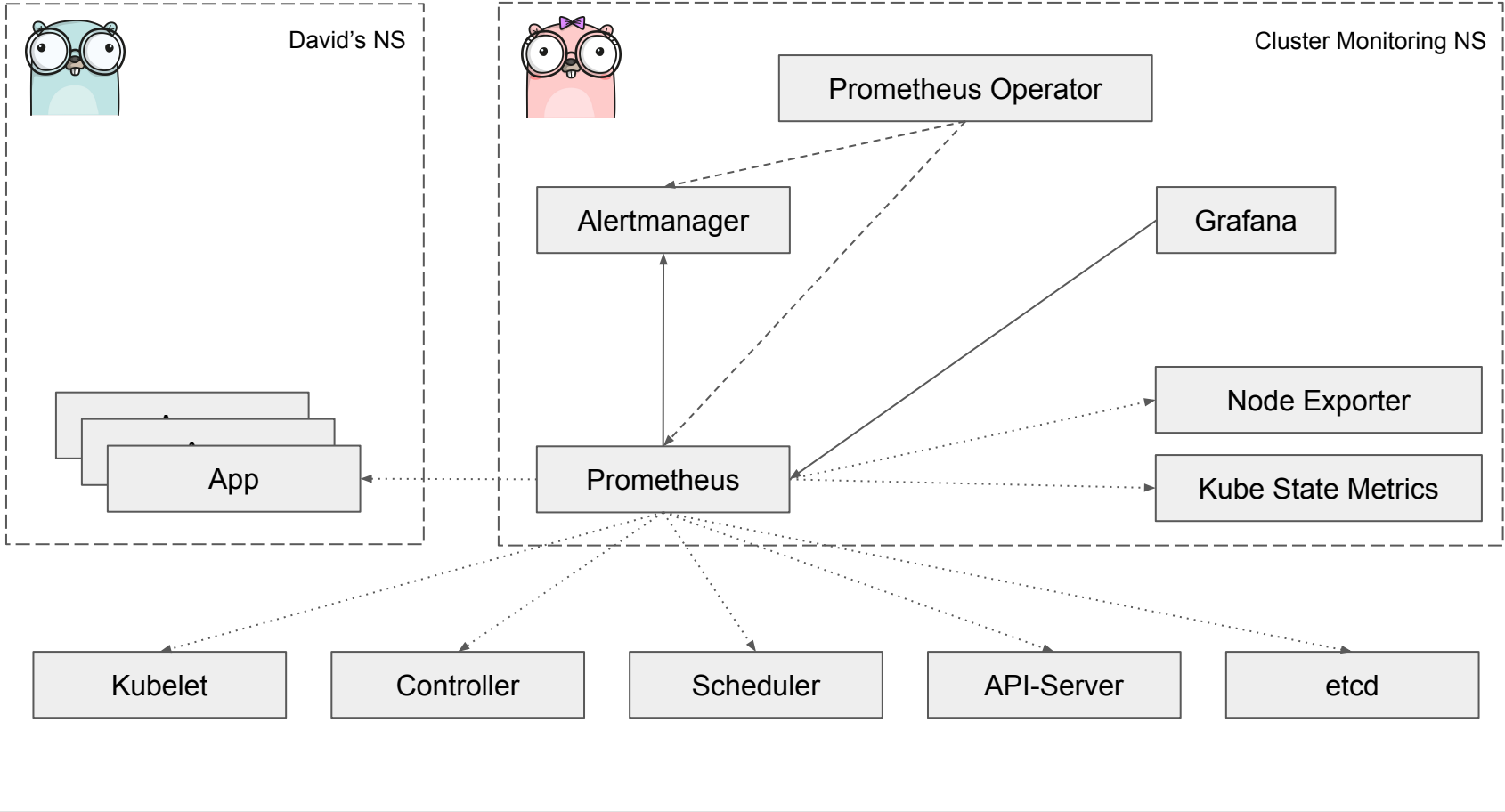
Kubelet

Controller

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API-Server

etcd





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 **1** contributor
 Apache-2.0

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<a href="#">kube-prometheus</a>	sample-app: Enable white box monitoring	an hour ago
<a href="#">sample-app</a>	sample-app: Add faulty endpoint and alerting rule	an hour ago
<a href="#">.gitignore</a>	*: Enable black box monitoring	an hour ago
<a href="#">LICENSE</a>		

<https://github.com/mxinden/self-service-monitoring-workshop>



# Some Links

<https://prometheus.io/>

<https://github.com/coreos/prometheus-operator>

<https://github.com/coreos/prometheus-operator/tree/master/contrib/kube-prometheus>

<https://github.com/mxinden/self-service-monitoring-workshop>

# To be continued:

- Long term storage
- In depth cluster monitoring
- Multi tenancy
- Autoscaling
- Monitoring mixins
- ...

**Red Hat is hiring!**

# Sources

Gophers (Olivia & David): <https://github.com/ashleymcnamara/gophers>