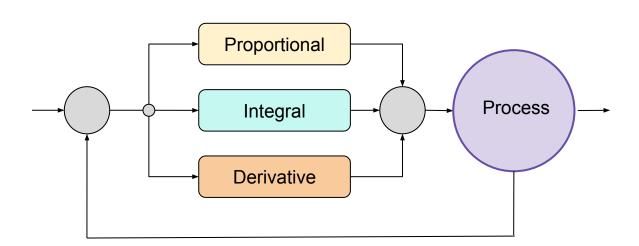
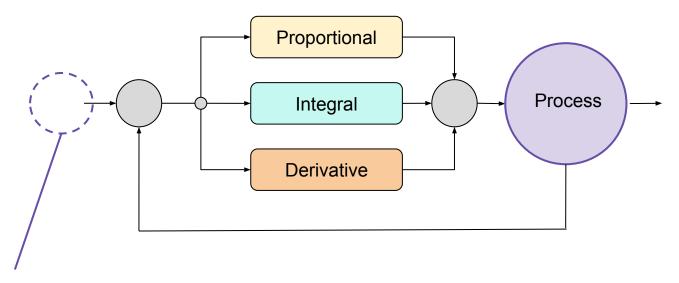
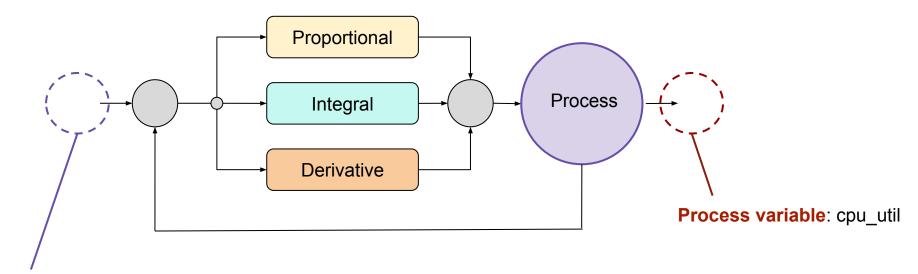
PID Auto-scaling a Linkerd Service Mesh

J Evans | Strava

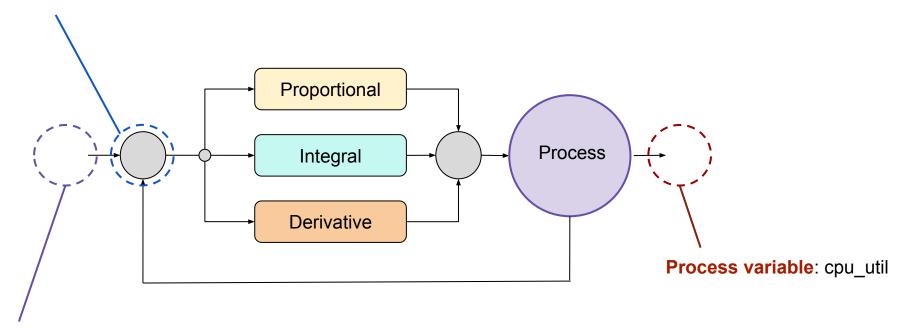
What is a PID Controller?



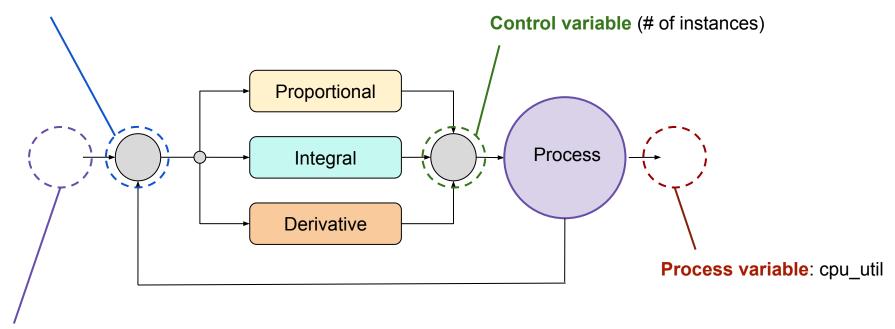




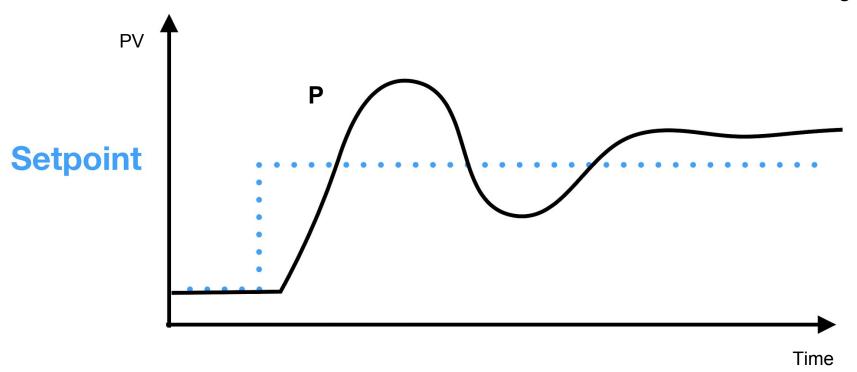
Error: Difference between what we want and what we observe

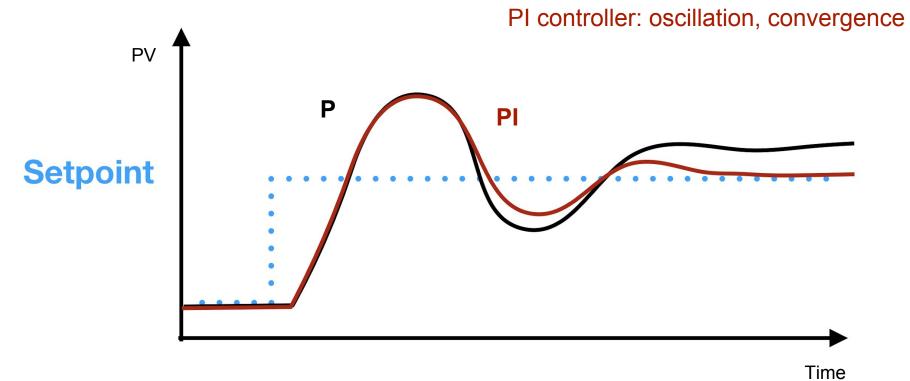


Error: Difference between what we want and what we observe

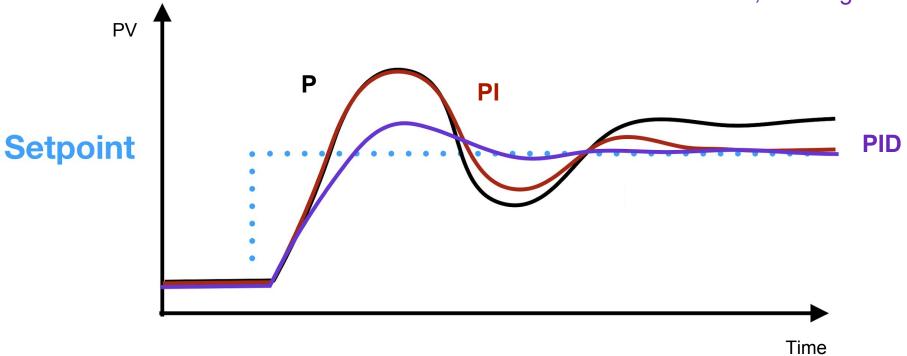


P controller: oscillation, no convergence

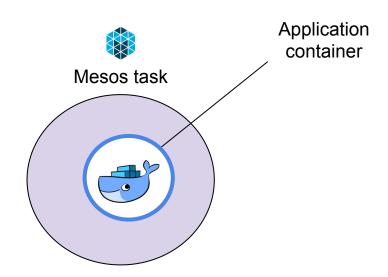


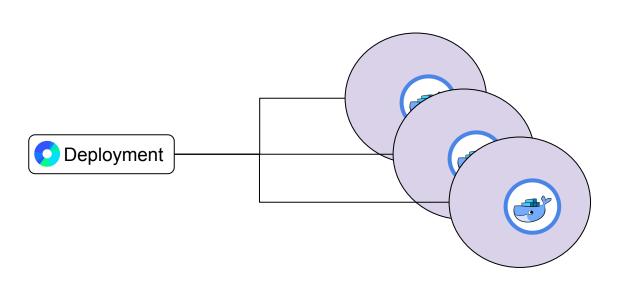


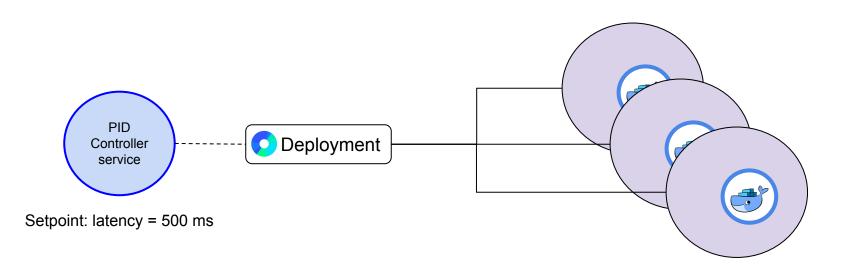


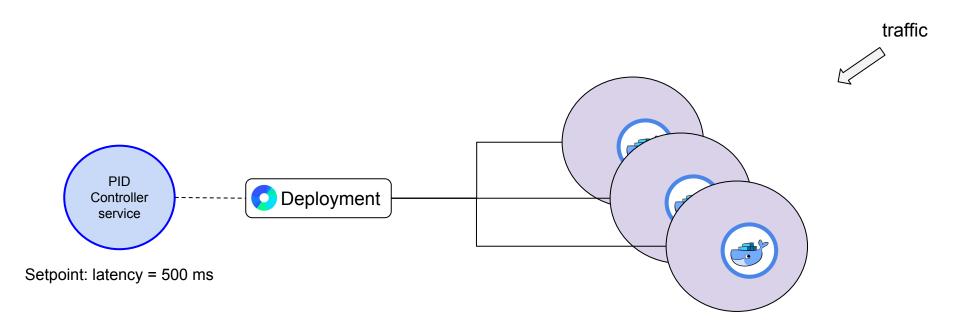


How Strava uses PID for autoscaling

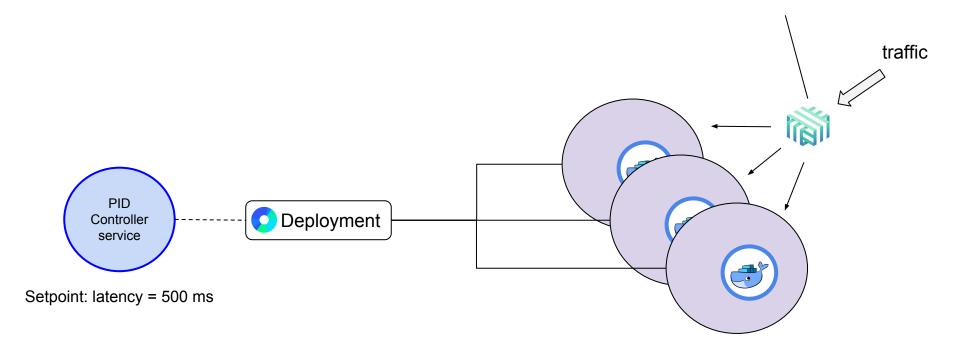


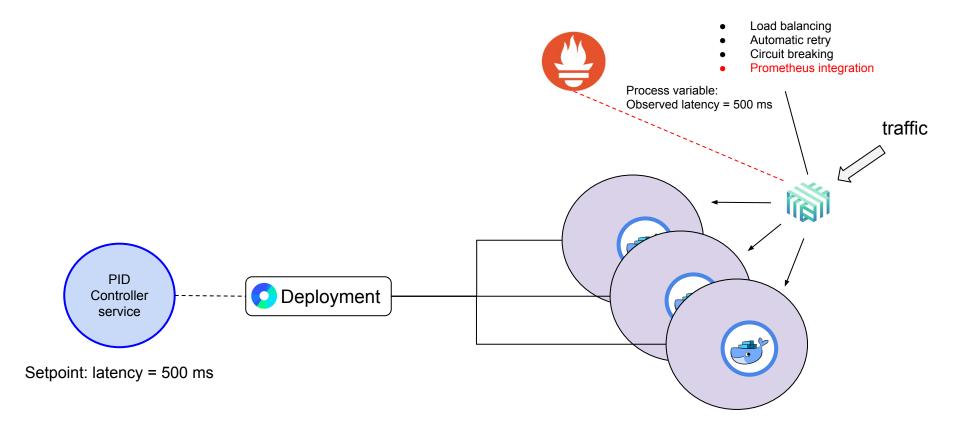


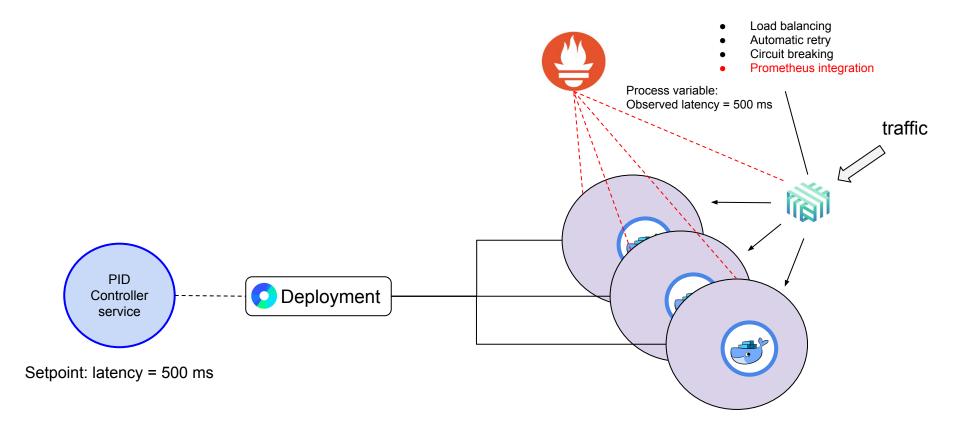


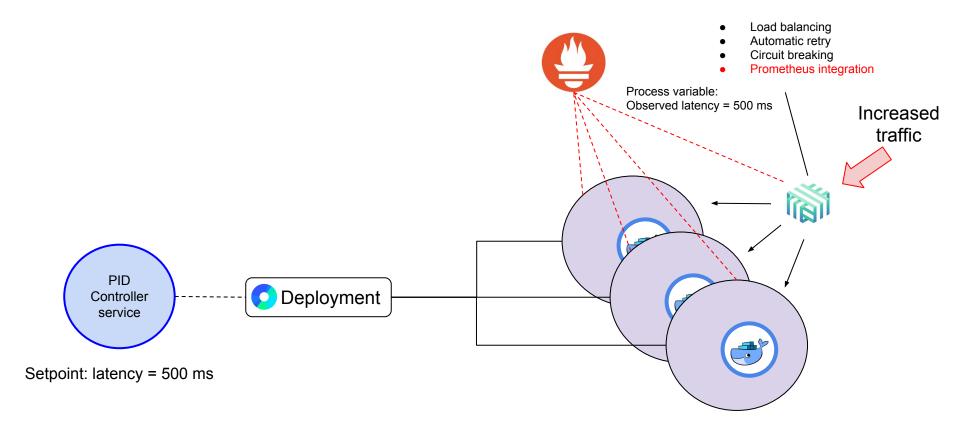


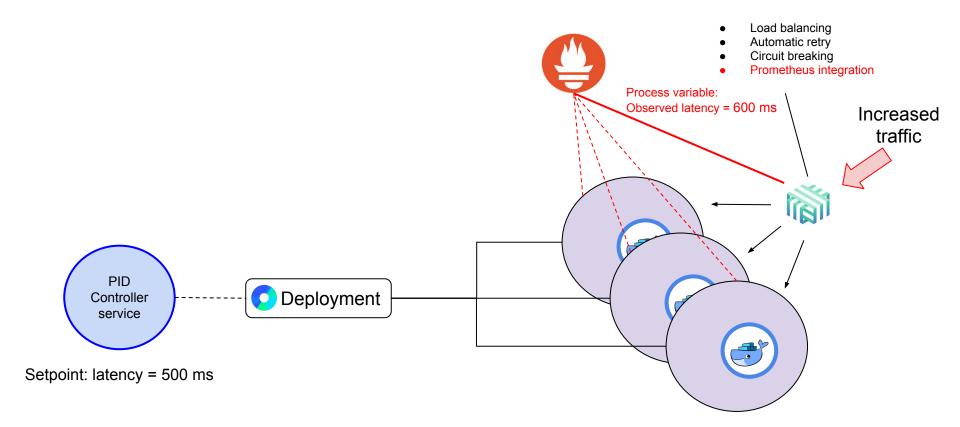
- Load balancing
- Automatic retry
- Circuit breaking

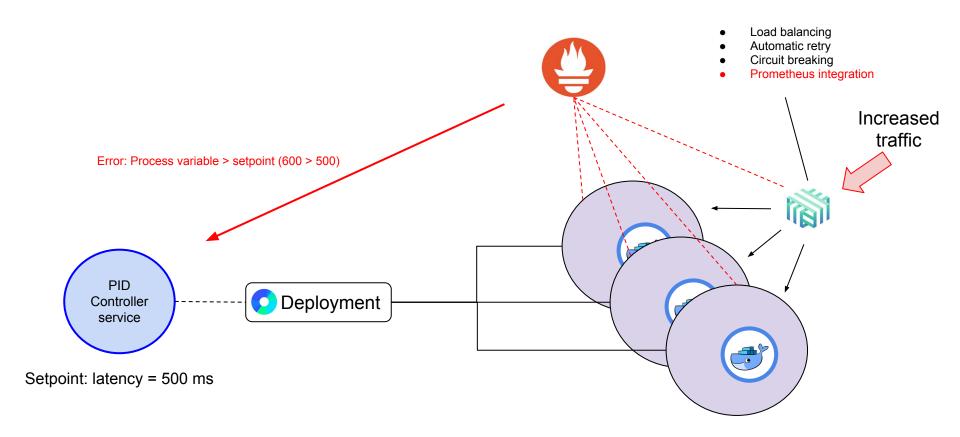


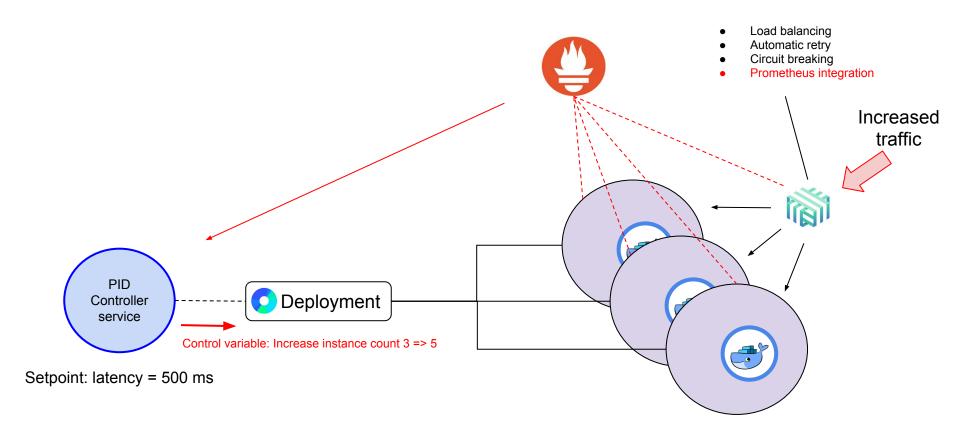


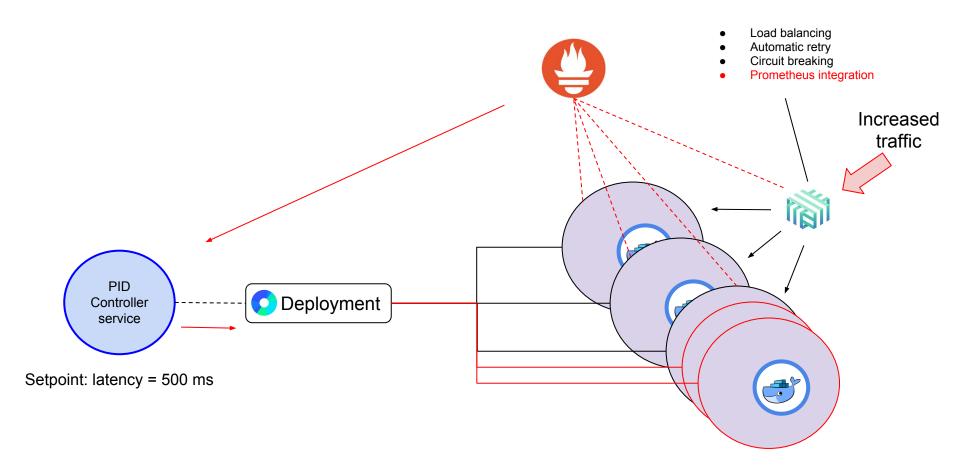


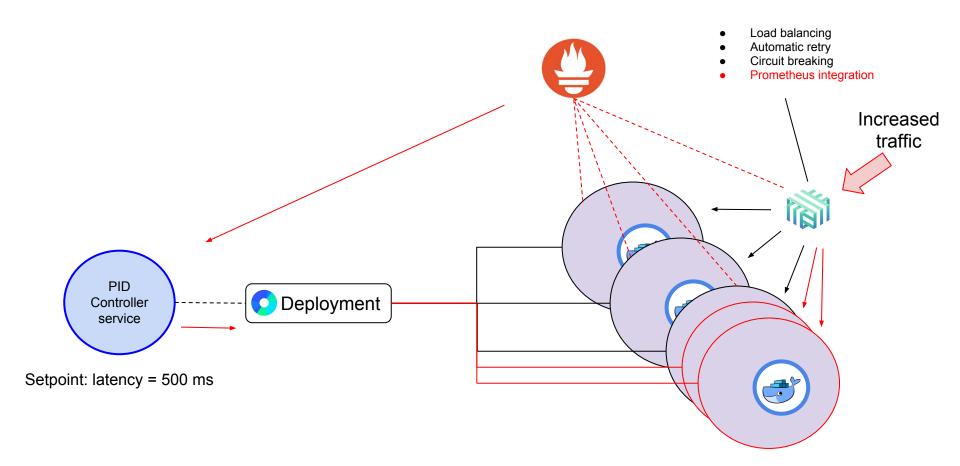




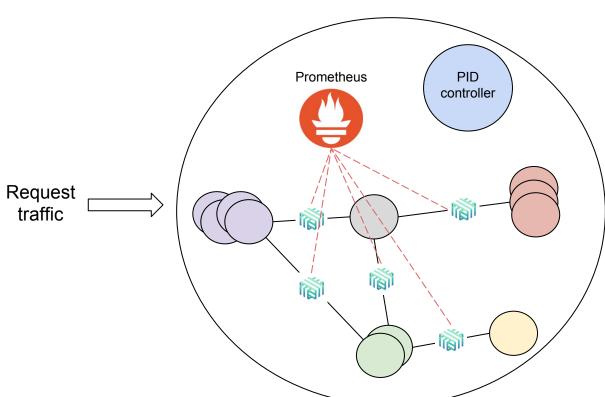




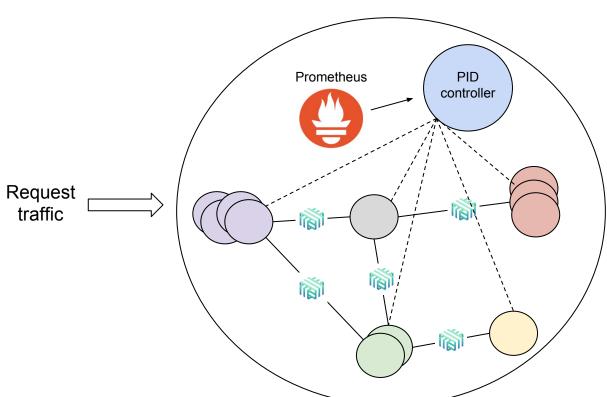




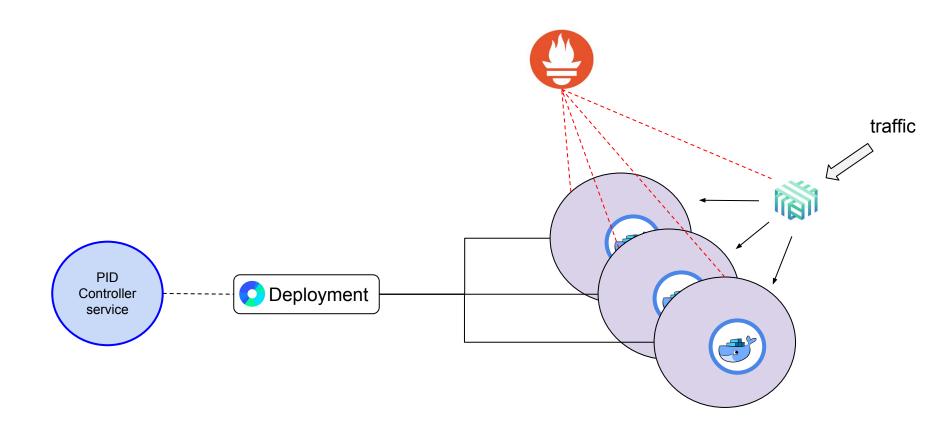


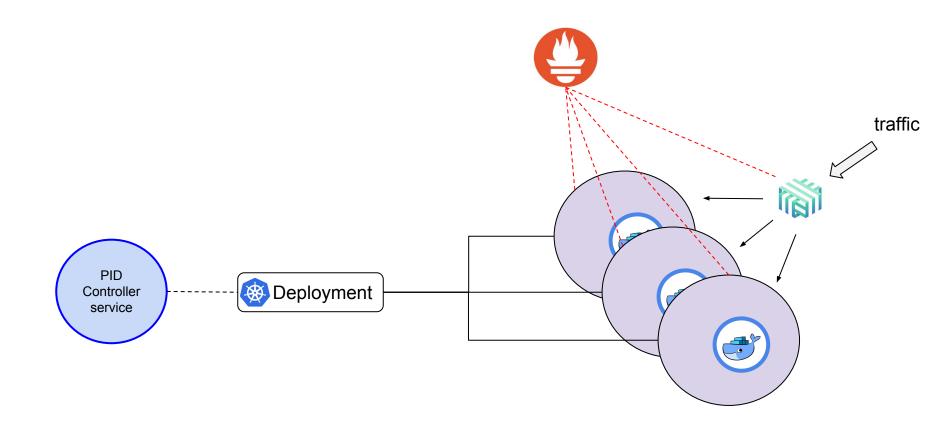


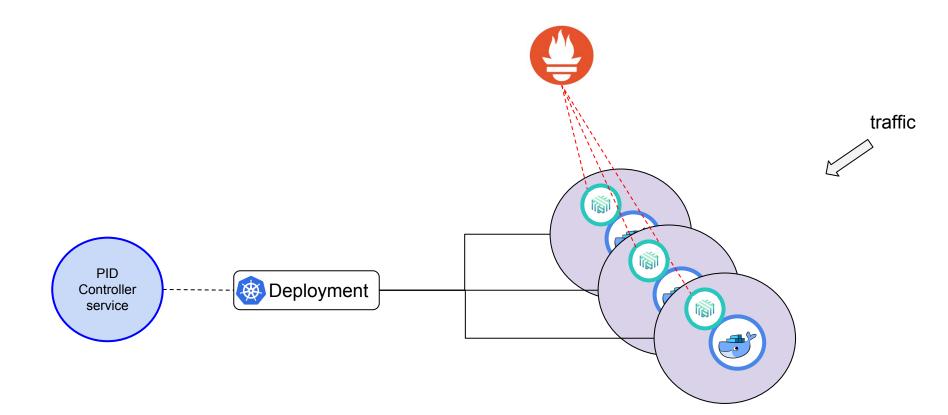


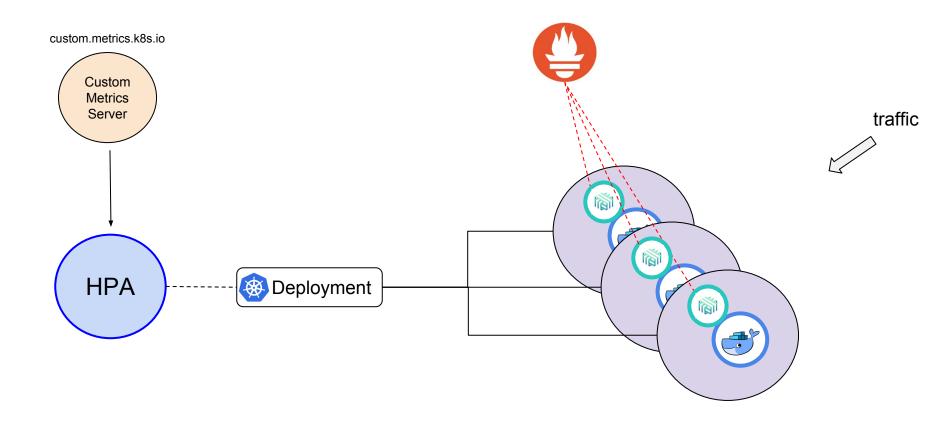


How you can autoscale in kubernetes









Implementation of custom.metrics.k8s.io API using Prometheus https://github.com/DirectXMan12/k8s-prometheus-adapter.git

