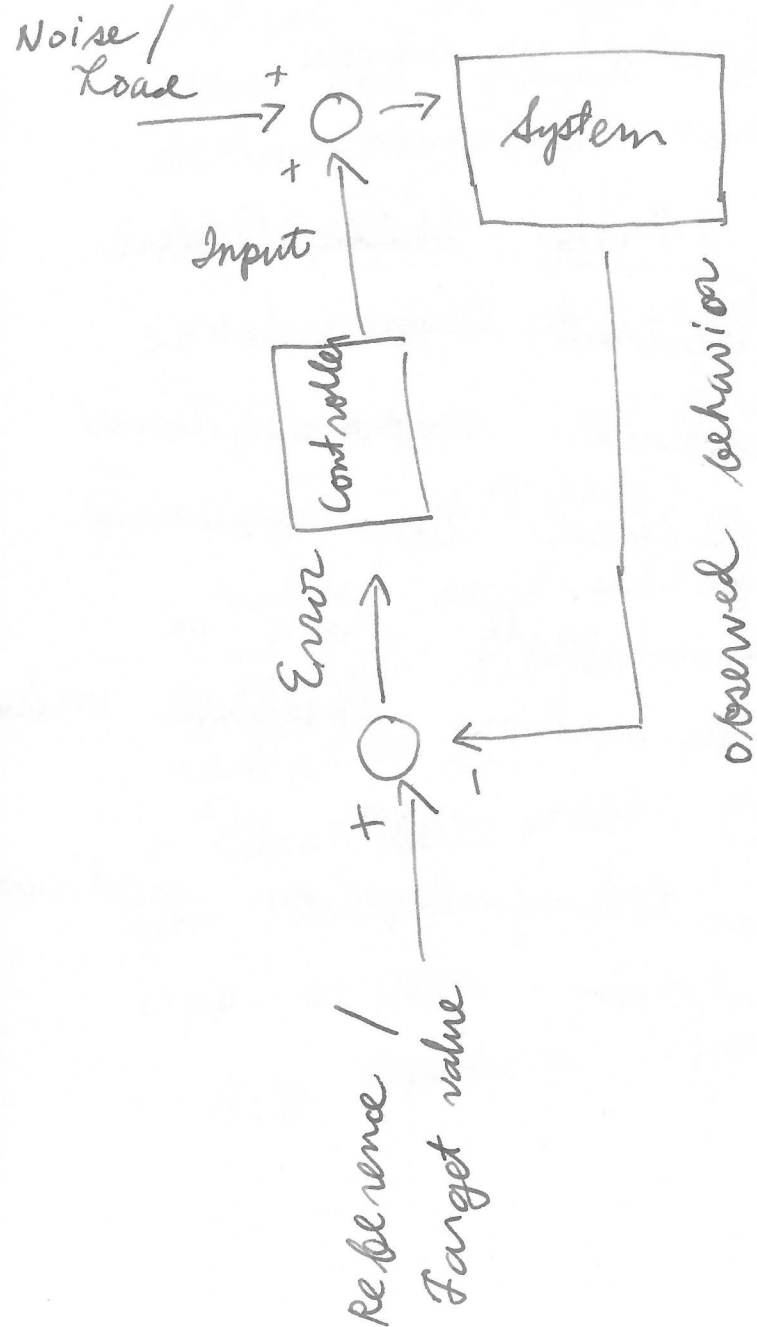


In this talk, I will show how we can use the same concepts to manage and autoscale the health of our applications on Kubernetes.

Feedback Architecture:



### Noise / Load:

- weather conditions
- web traffic

### Reference / Target Value: Value:

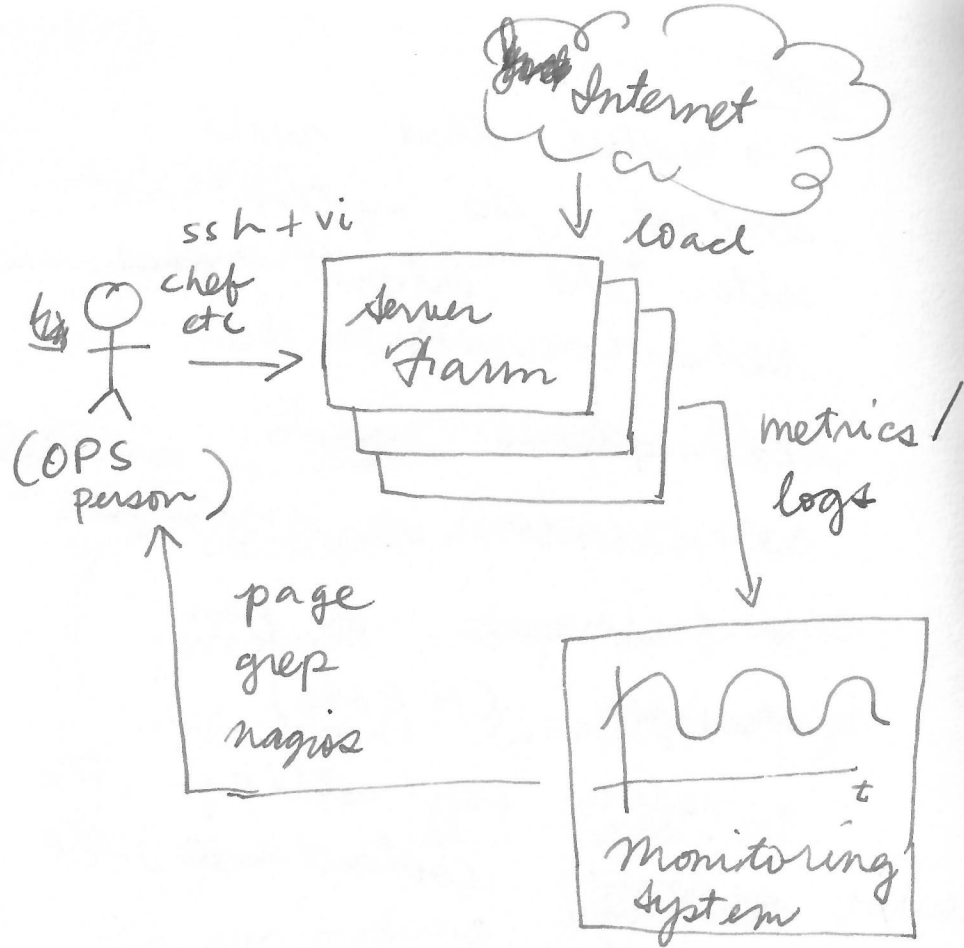
- desired temperature
  - desired response time
  - desired load average
- ↳ (each will have a corresponding observed value from the sensors or monitoring system instrumentation).

### Input:

→ value that will control the system to alter the output / observed behaviour

### Examples:

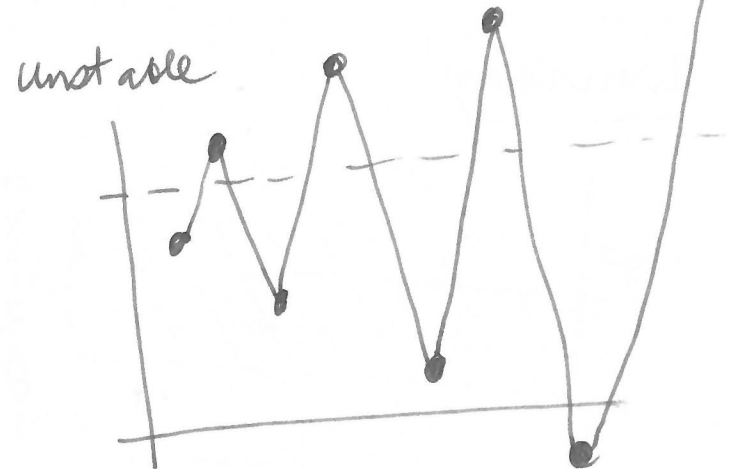
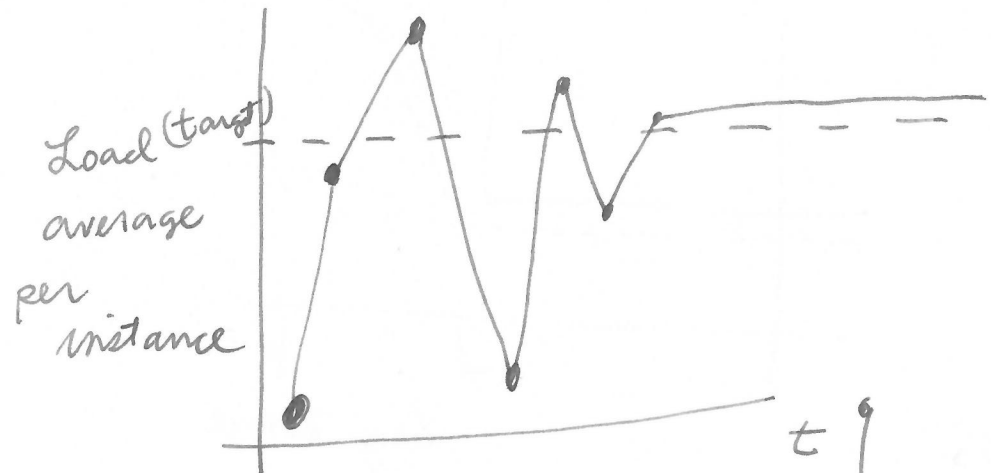
- number of instances
- furnace or fan strength (RPMs)
- valve controlling the incoming coolant to the radiator.
- can be other parameters you can tune for your app server  
e.g. Apache's MaxClients.



## Error correction

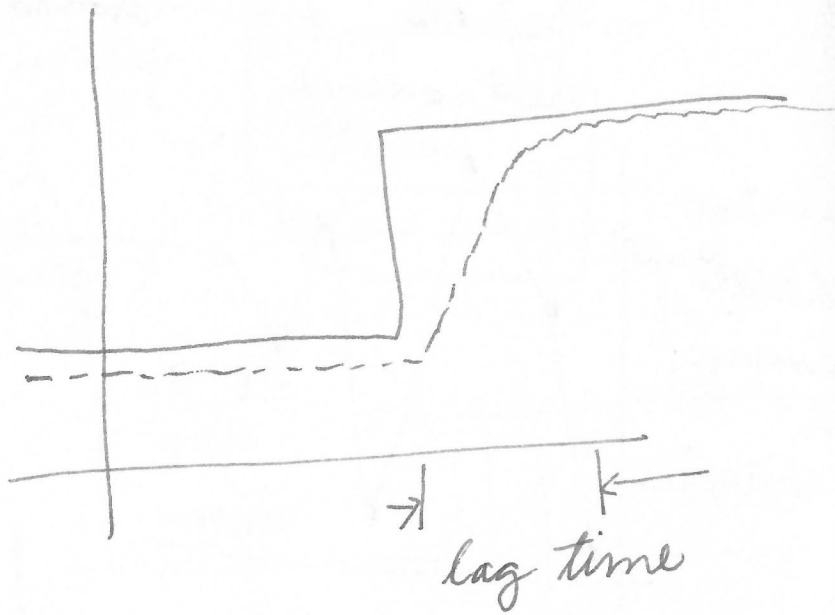
### • Stability

→ results from ~~overcorrection~~ overcorrection



- Performance

- response to change



- Accuracy

