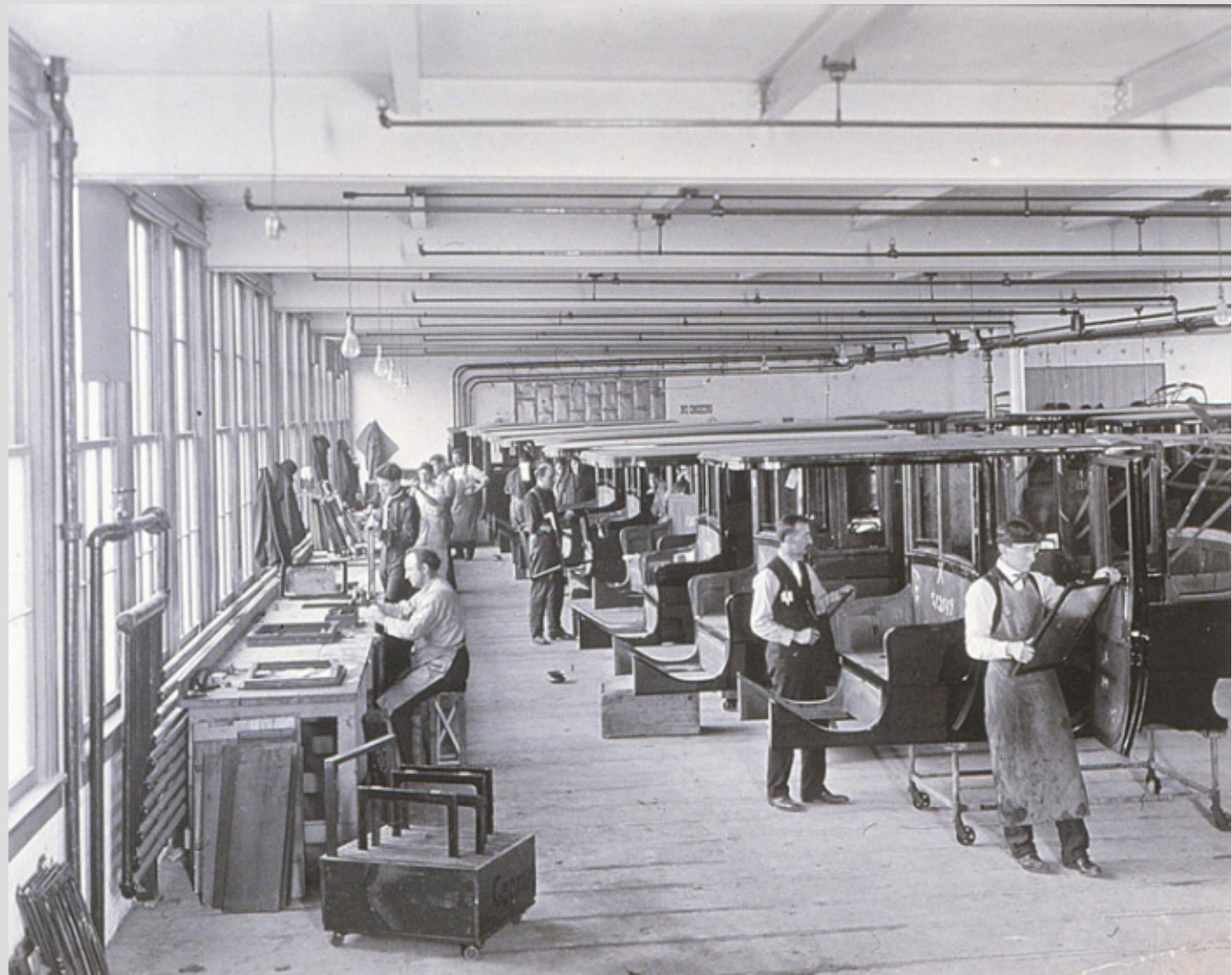


# OUR IMMUTABLE FUTURE



Josh Berkus  
Project Atomic  
Red Hat  
ContainerDaysPDX 2017





**CFEngine**  **puppet**  
labs®



**CHEF**™



ANSIBLE



**SALTSTACK**







泡泡网 PCPOP.COM



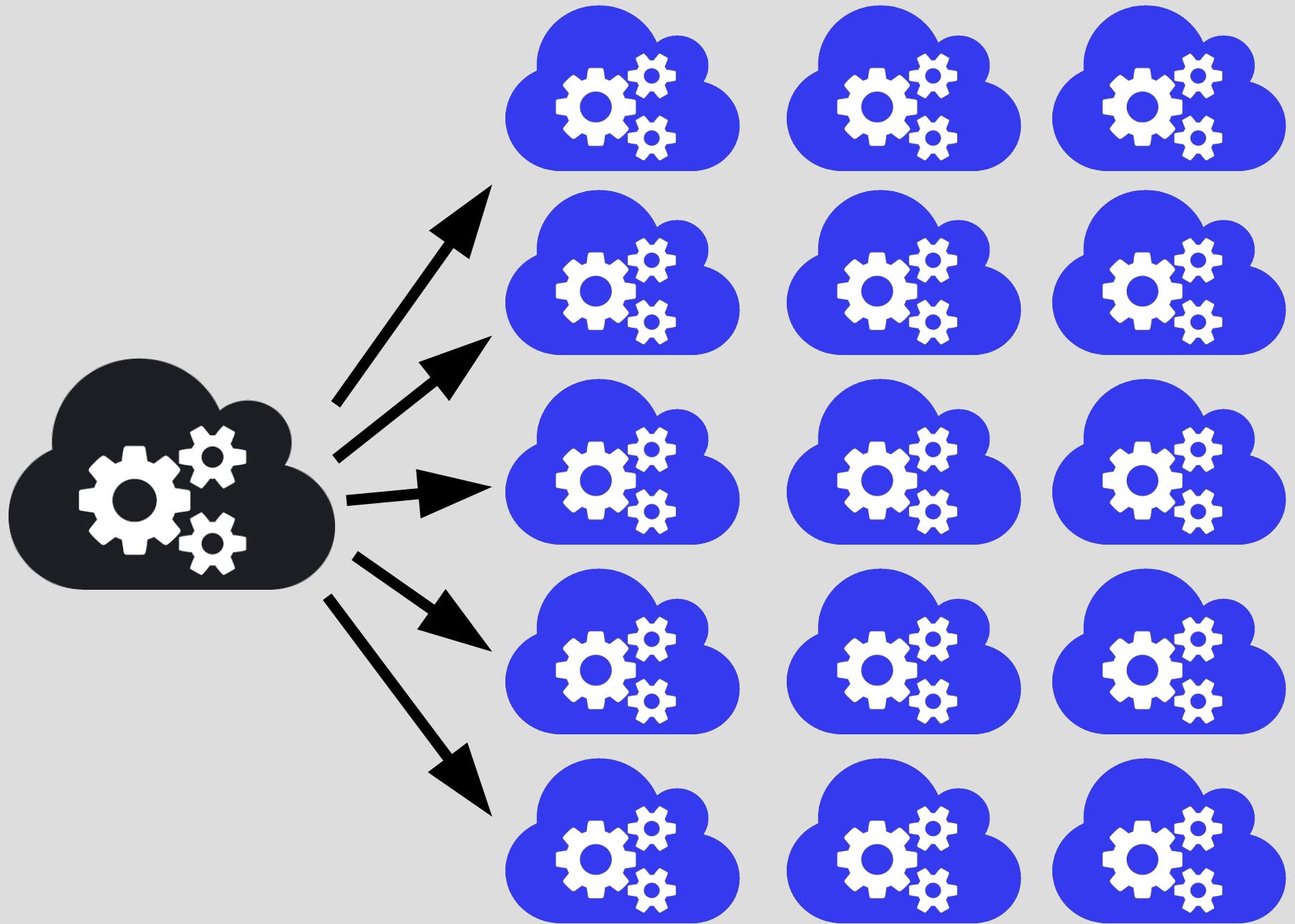
# IMMUTABLE INFRASTRUCTURE

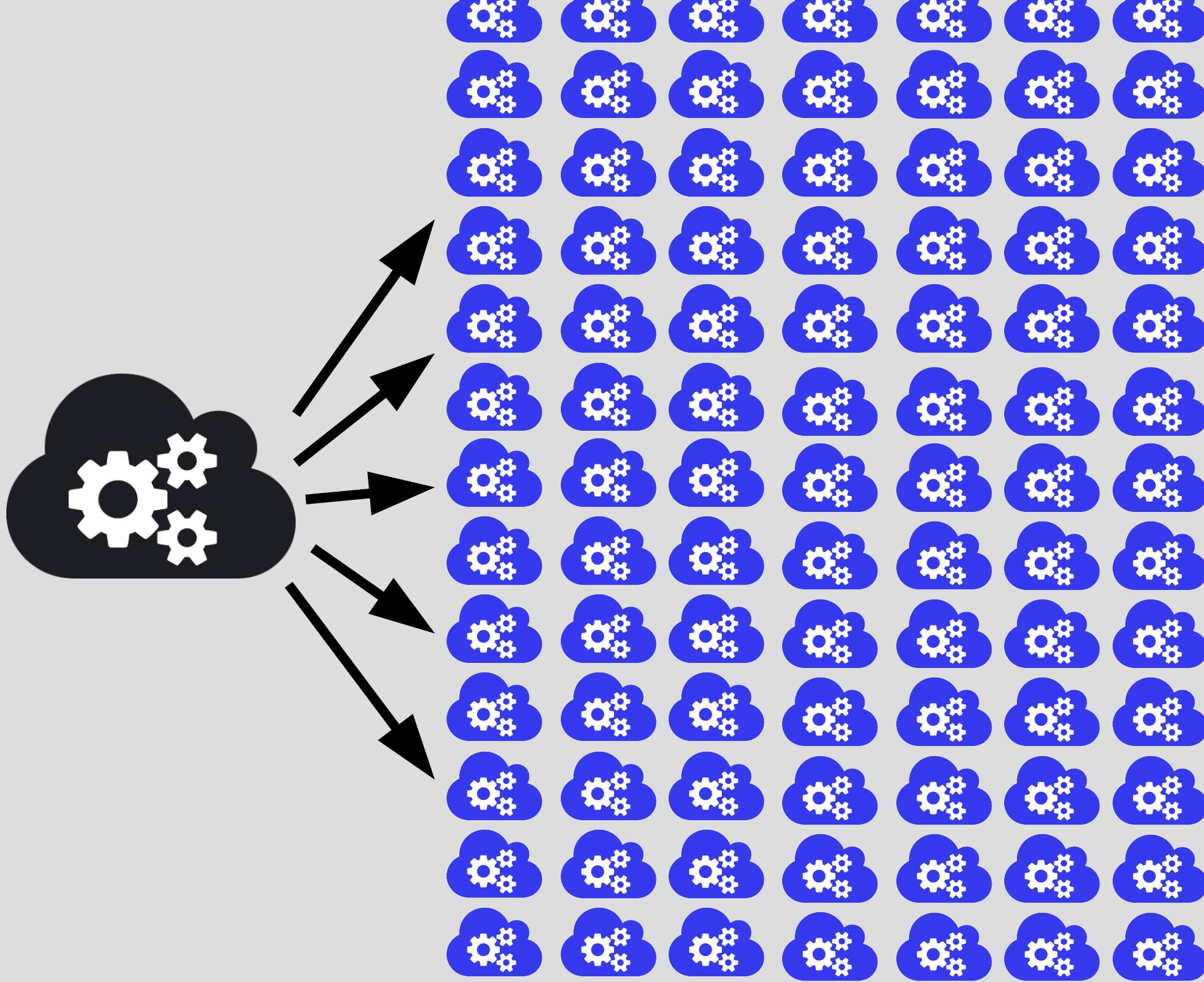
Mutable:

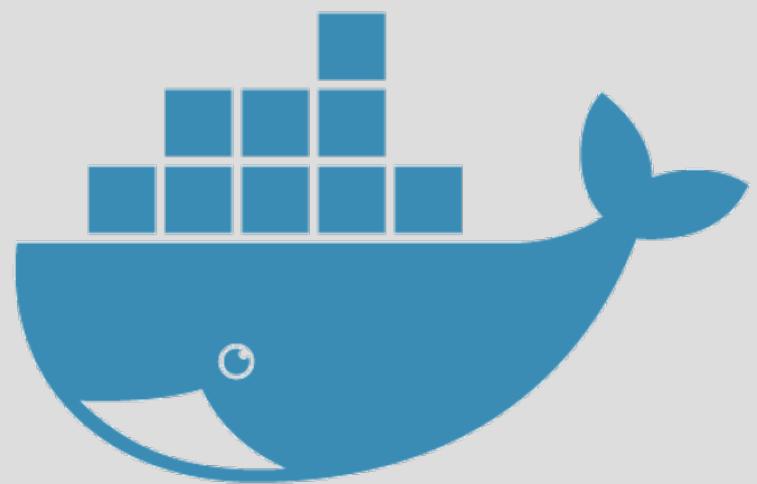
- I. Deploy
- II. Configure
- III. Re-configure

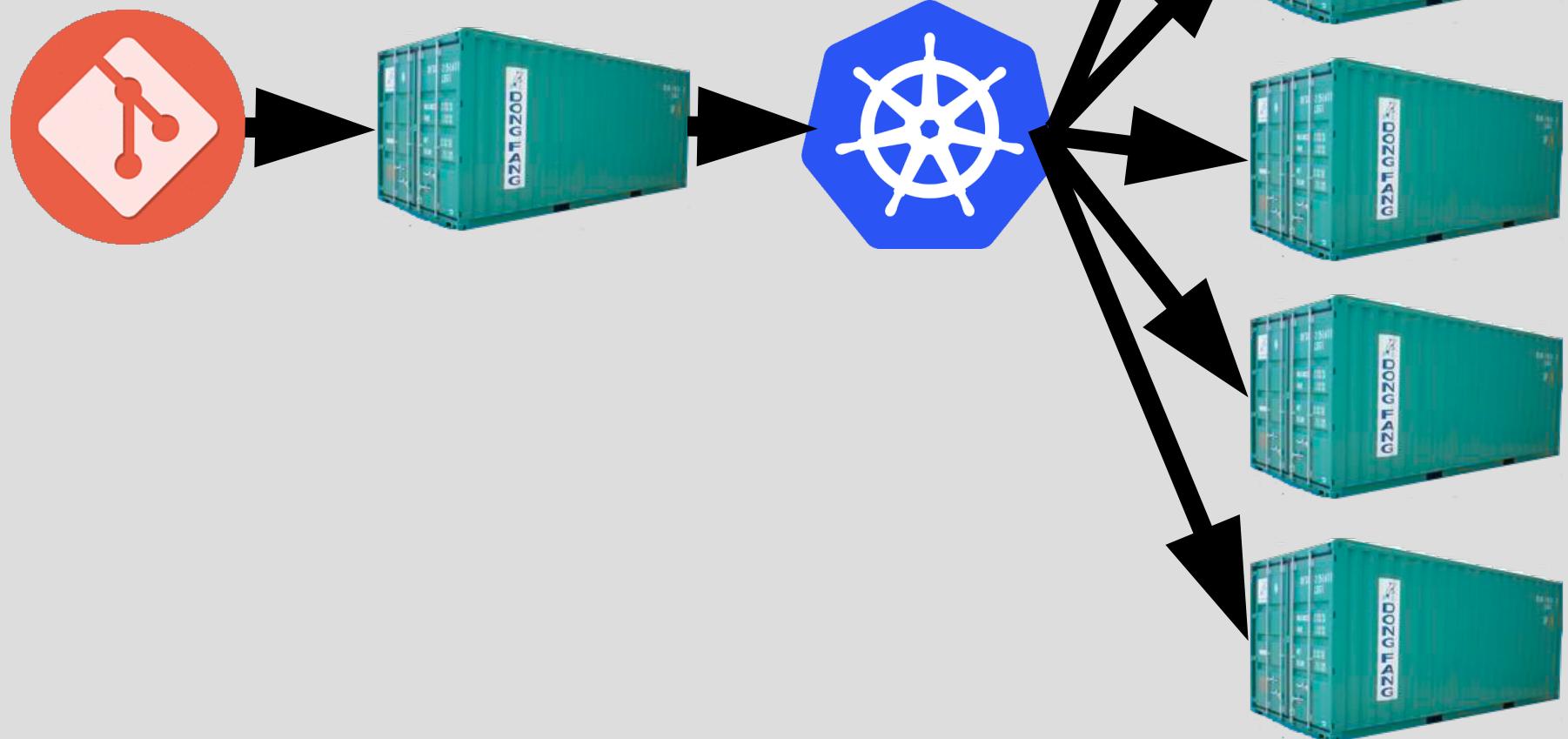
Immutable:

- I. Configure
- II. Deploy
- III. Replace









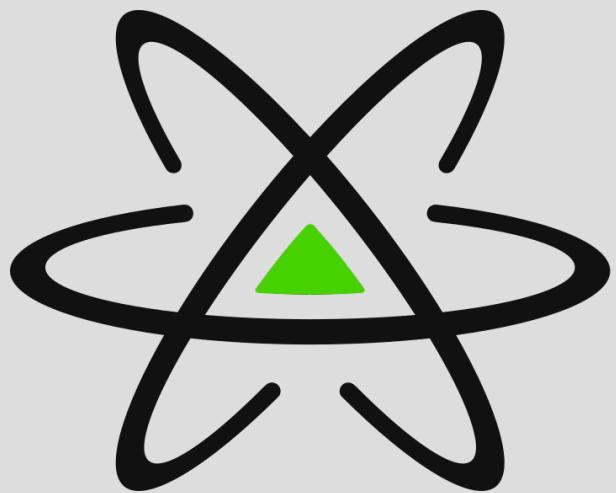
That's great for web apps ...  
... what about the rest?

**ORCHESTRATION**

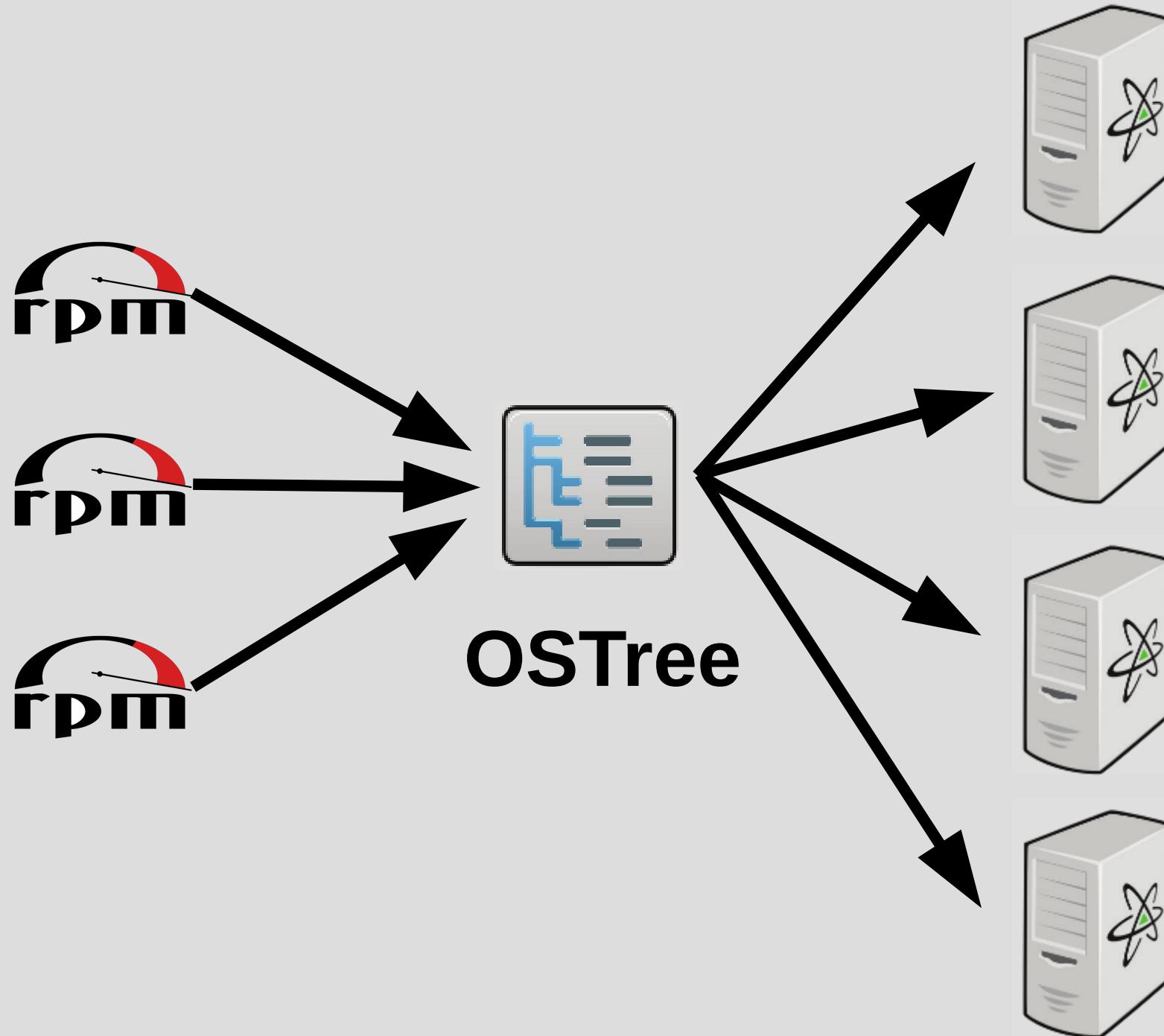
**NETWORK**

**STORAGE**

**OPERATING SYSTEM**



PROJECT  
**ATOMIC**



**“git for OSes”**

**UPGRADE  
ROLLBACK**

**“git for OSes”**

**UPGRADE  
ROLLBACK  
REBASE**

**ORCHESTRATION**

**NETWORK**

**STORAGE**

**OPERATING SYSTEM**





LET'S MAKE  
THINGS  
IMMUTABLE

[www.projectatomic.io](http://www.projectatomic.io)