

Getting production systems  
under control  
the « devops way »  
*a journey*

Who am I ?

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@endemics

# A timeline...

( a « career progression » )

In the beginning,  
were physical servers

## A few of them

- ☑ Runbooks
- ☑ Manual configuration

 Labour intensive

 Slow

 Inconsistencies

Then... more...

Golden Image



 Updates ?

 Drifts

And then...

**A LOT MORE ...**

Configuration Management  
(CfEngine, Puppet, Chef, Ansible...)

# Configuration Management

Configuration Management  
=  
Executable Configuration

# Source Control

✘ Firmware updates

✘ Failing hardware

✘ Procurement cycles

# Virtualisation

APIs

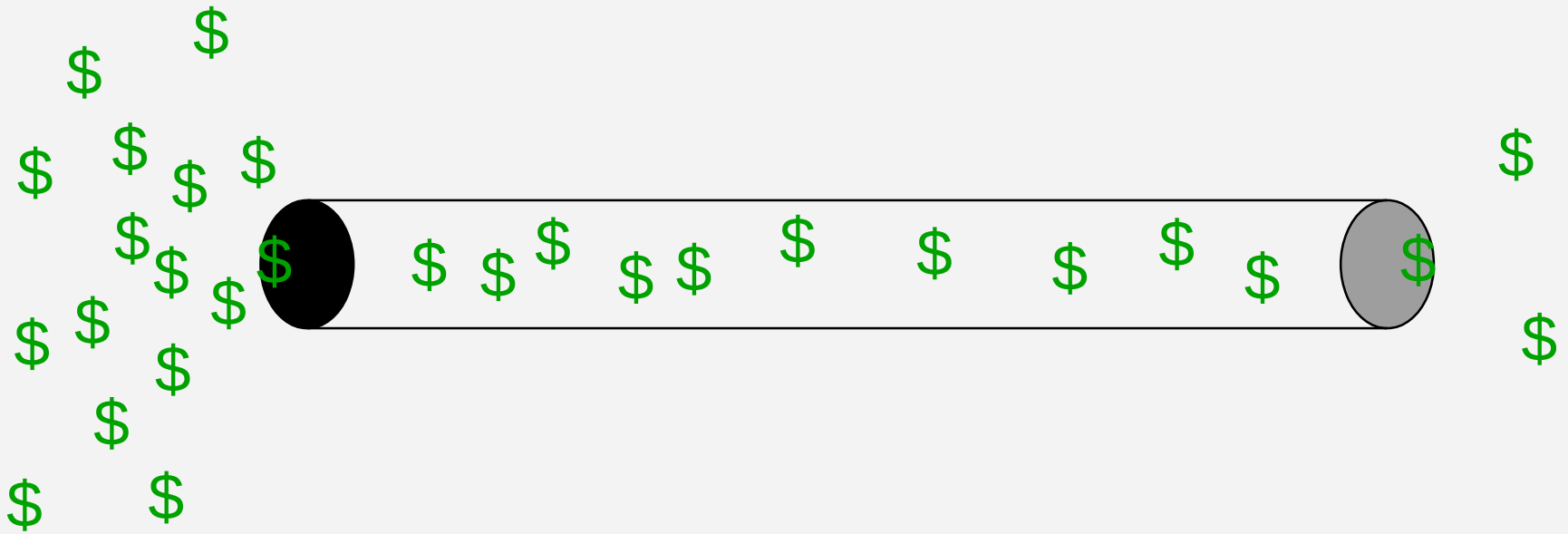




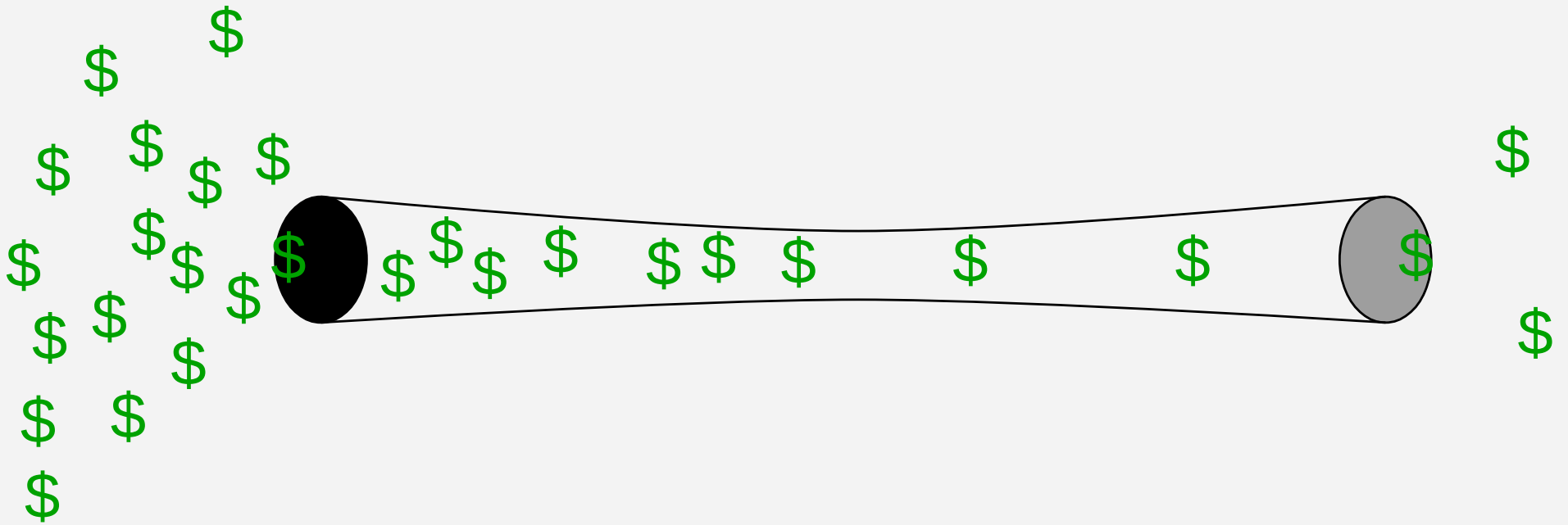
# Infrastructure as Code

Leverage  
what you have

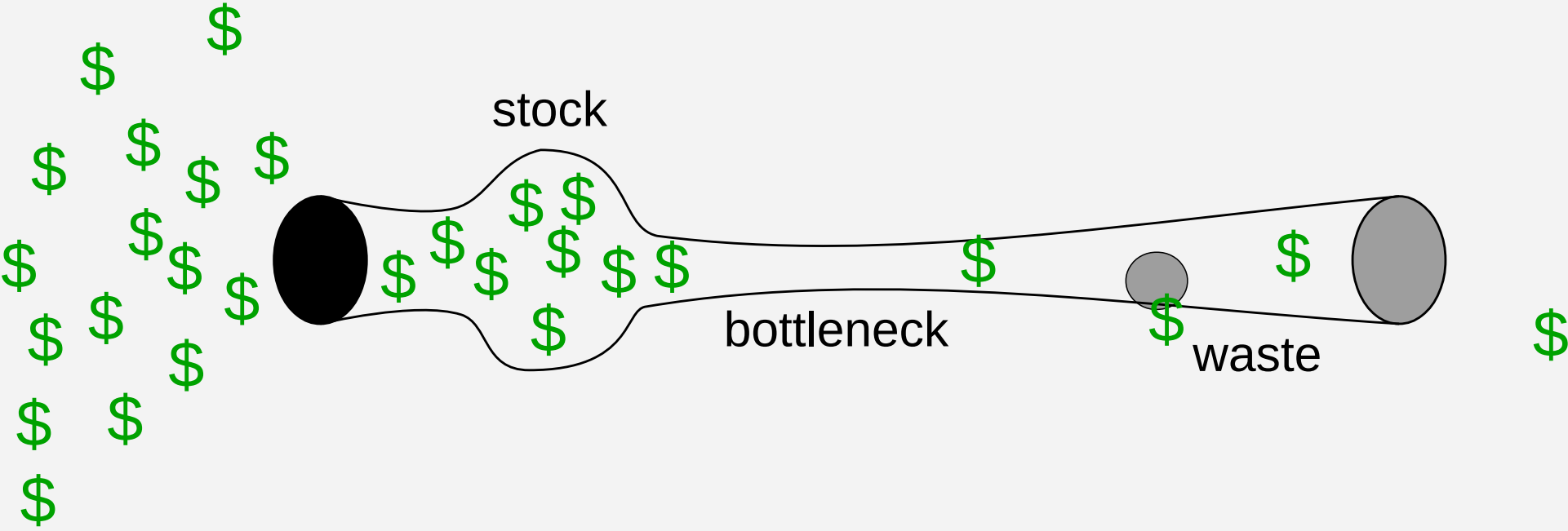
# Value Pipeline



# Bottlenecks



# Stocks / Rework / Waste



WIP

TESTS!

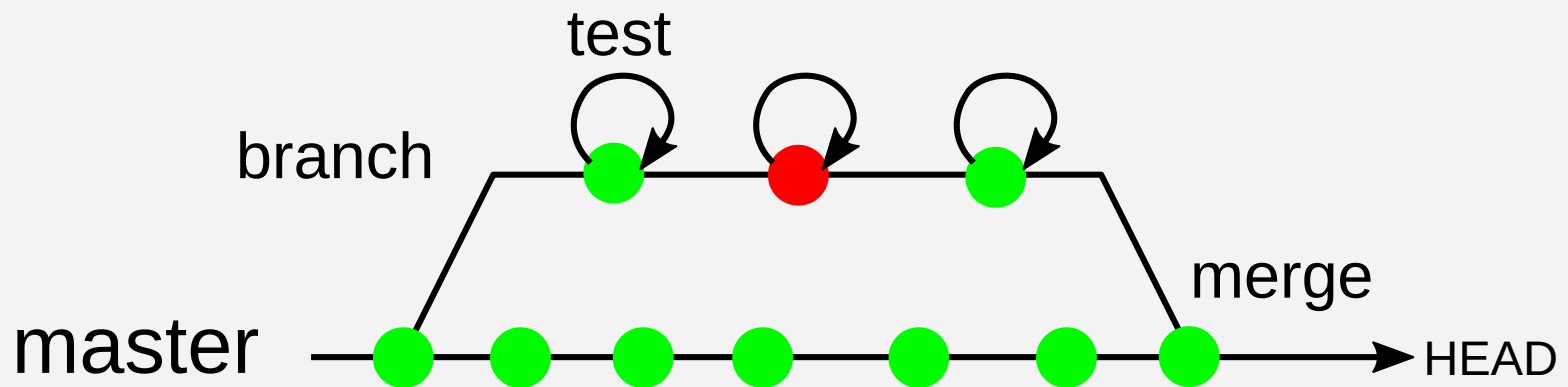
# Automated Tests



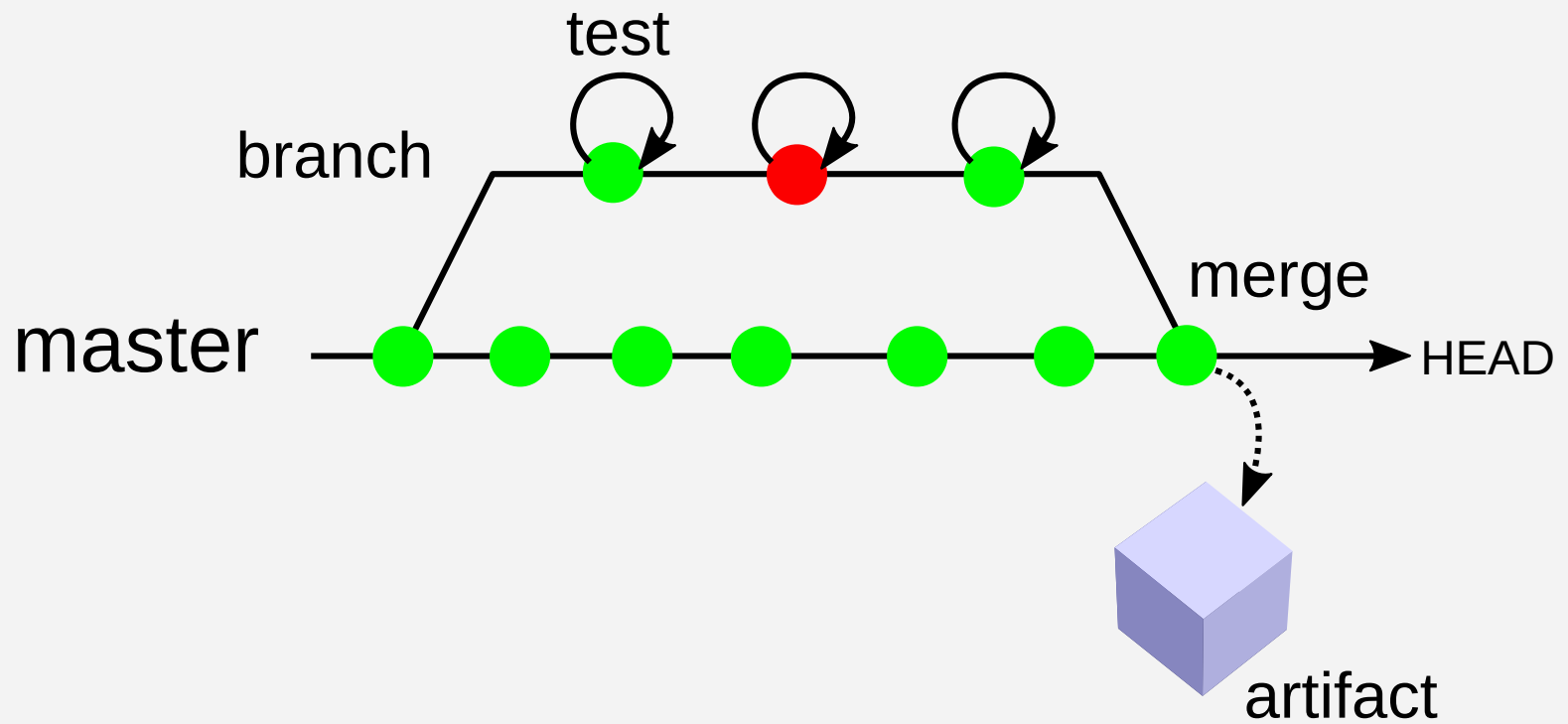
“Everything that is not  
continuously tested  
**will** bit rot.”

CI/CD

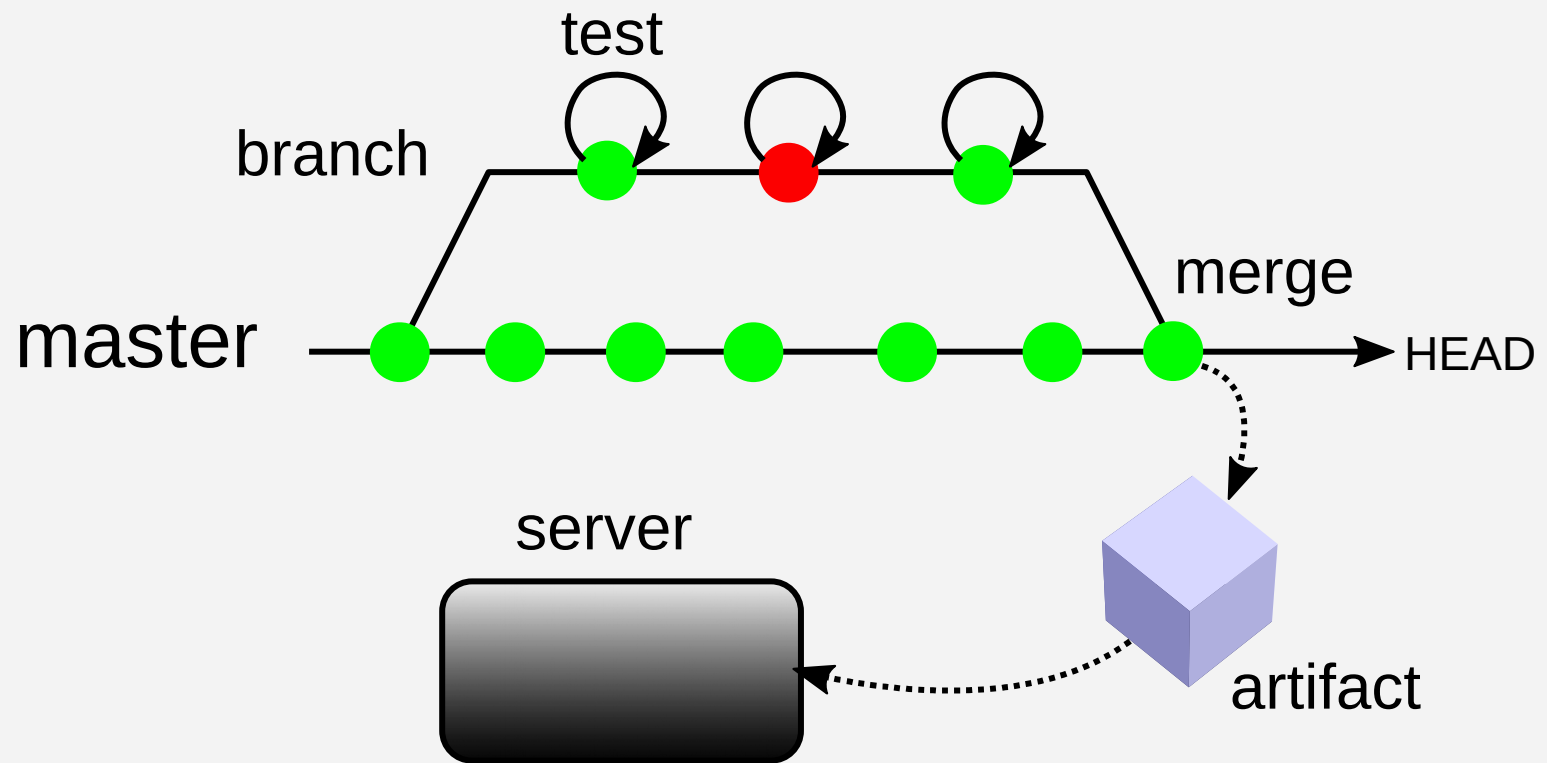
# Continuous Integration



# Continuous Delivery

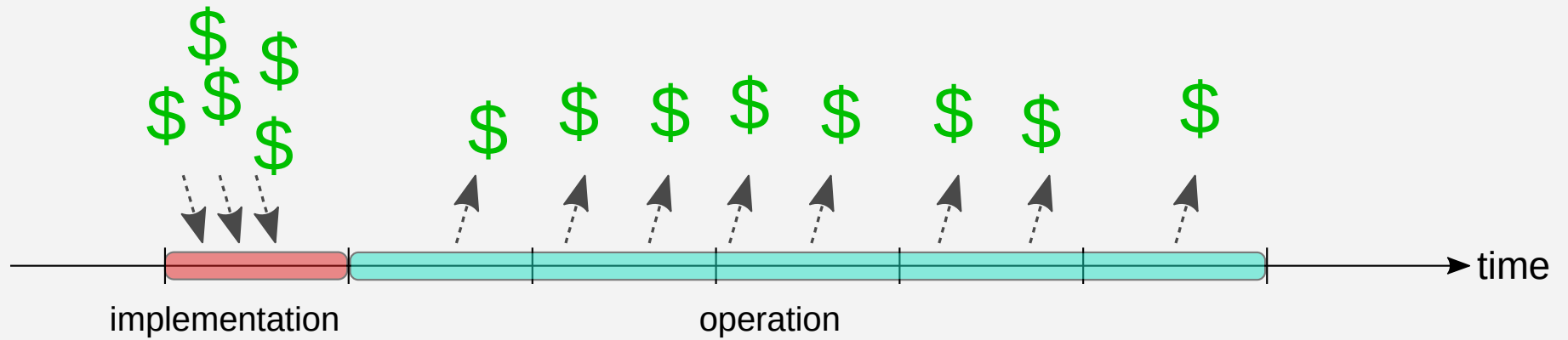


# Continuous Deployment



GitOps

# System Lifecycle

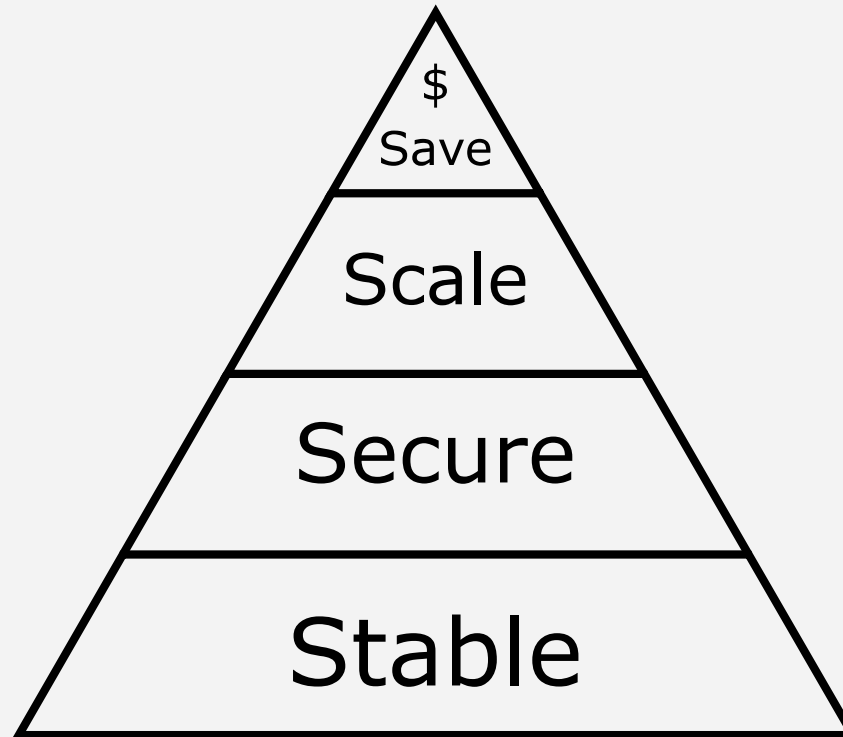


# House building analogy



NFR & \*-ilities

# The 4 S



(the Maslov Pyramid of Prod Systems ?)

Backups

DR/BC

Observability

Forensics

Game Days

Chaos Engineering

Questions ?

 Thank You !