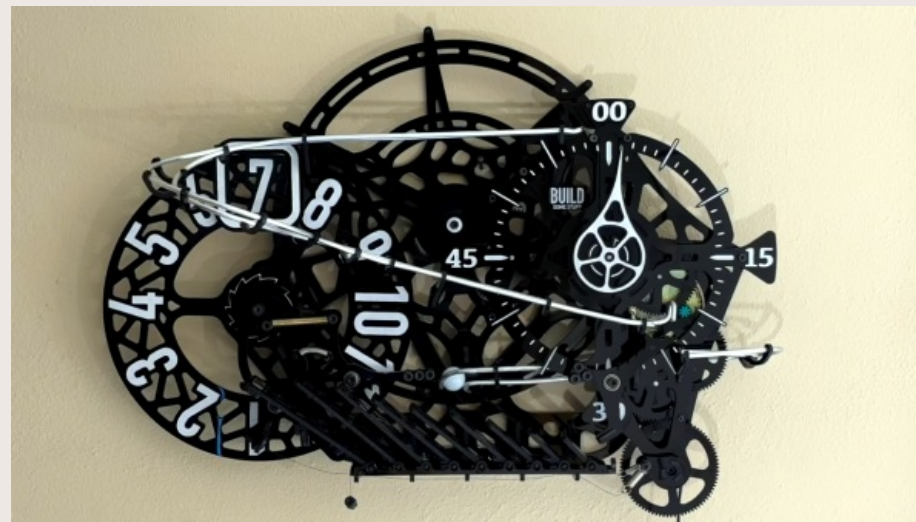


Varför är det så svårt?



b3 Creating
possibilities
together

Jonas Linde <jonas.linde@b3.se>

B3 Init AB

- IT-konsulter sedan 1994
- Infrastruktur
- Systemutveckling
- Ledning och Styrning
- DevOps
- Sedan 2017 en del av *B3 Consulting Group*



Varför är det så svårt?
jonas.linde@b3.se



Jonas Linde

- IT-konsult sedan 1997
- Infrastruktur
- Systemutveckling
- Ledning och Styrning
- DevOps



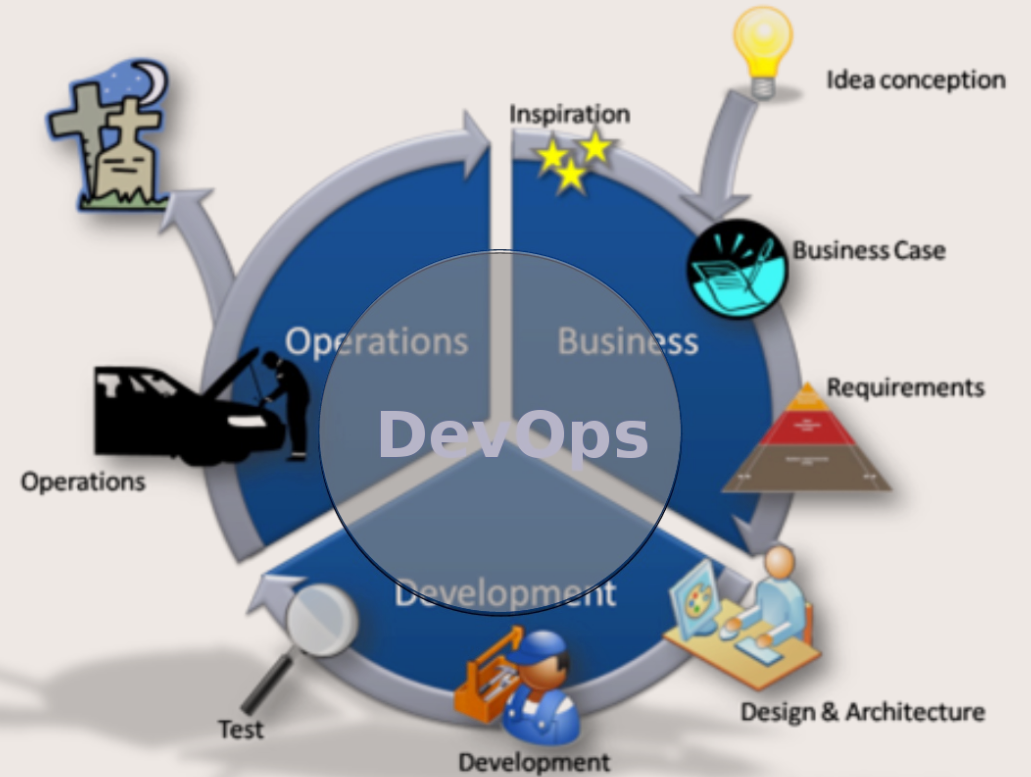
Datorhistoria i korthet

- 1820 - difference engine
- 1900 - rösträknare
- 1936 - Alan Turing
- 1945 - ENIAC
- 1951 - Stor/Mini/Super
- 1981 - IBM PC
- 1999 - VMware
- 2000 - AWS

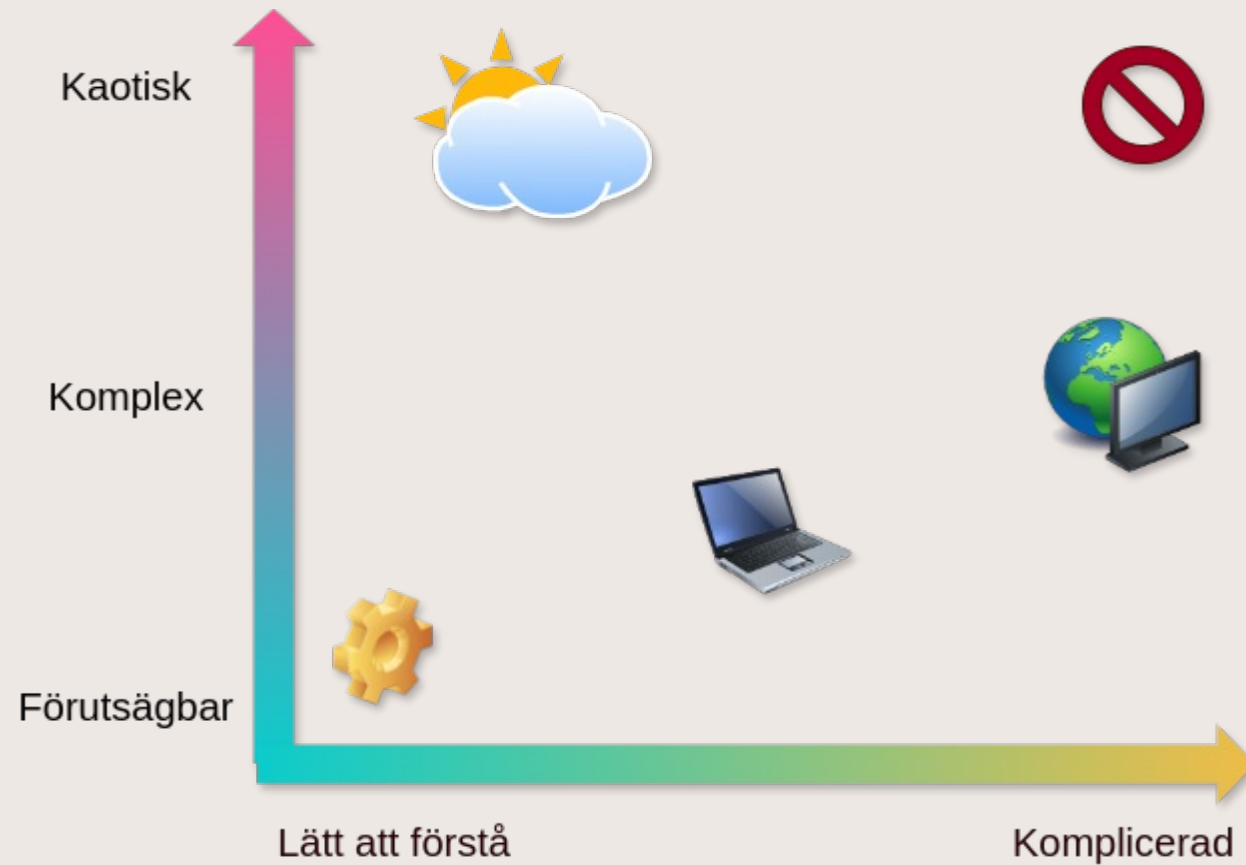


IT-historia i korthet

- 1993 - konfigurationshantering
- 1994 - moln
- 2000 - mikrotjänster
- 2001 - agilt
- 2009 - devops
- 2013 - docker
- 2014 - k8s
- 2020 - generativ ai



Komplexitet



Konfigurationshantering

- Deklarativ infrastruktur
- Lätt att (åter)skapa miljöer
- Eliminera oönskade ändringar
- Många olika verktyg
 - CFEngine » 1993
 - Puppet » 2005
 - Chef » 2009
 - Ansible » 2012
 - Terraform » 2014
 - Mgmt Config » 2016
 - System Initiative » 2023



Konfigurationshantering

- Kräver regelbunden exekvering
 - frustrerande långsamt
- Begränsad dynamik
 - YAML-programmering



Virtualisering

- Koppla isär hårdvara och resurser
- Lätt att isolera miljöer
- Ett nytt lager komplexitet



Moln

- Self service
- Enklare inskaffning
- Lätt att skala ner
- Komponenter
- Cloud Native
- Multi Cloud



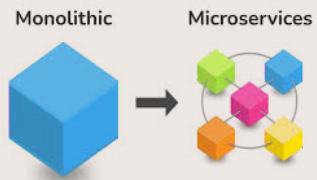
Moln

- Dyrare?
- Juridisk komplexitet
- Lätt att bygga komplext



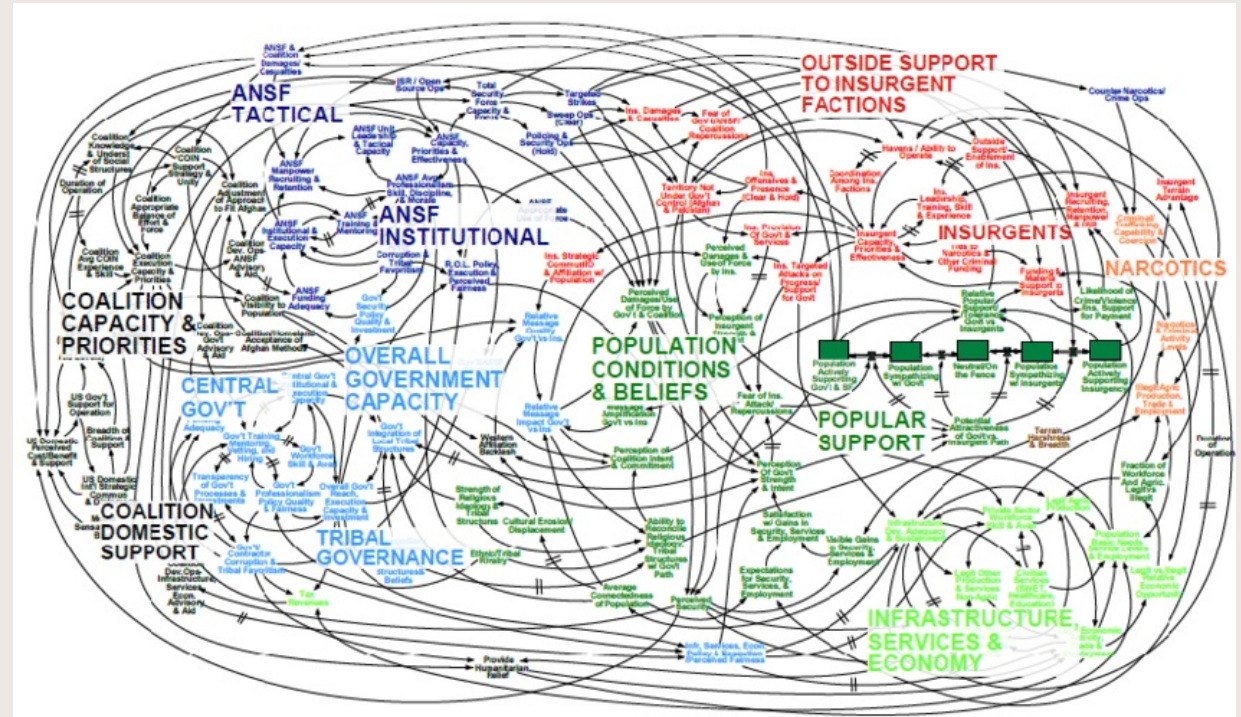
Mikrotjänster

- Små komponenter
- Enkla komponenter
- Oberoende komponenter
- Löst kopplade komponenter
- Ansvarsfördelning
- API-kontrakt



Mikrotjänster

- Längre startsträcka
- Ett nytt lager komplexitet



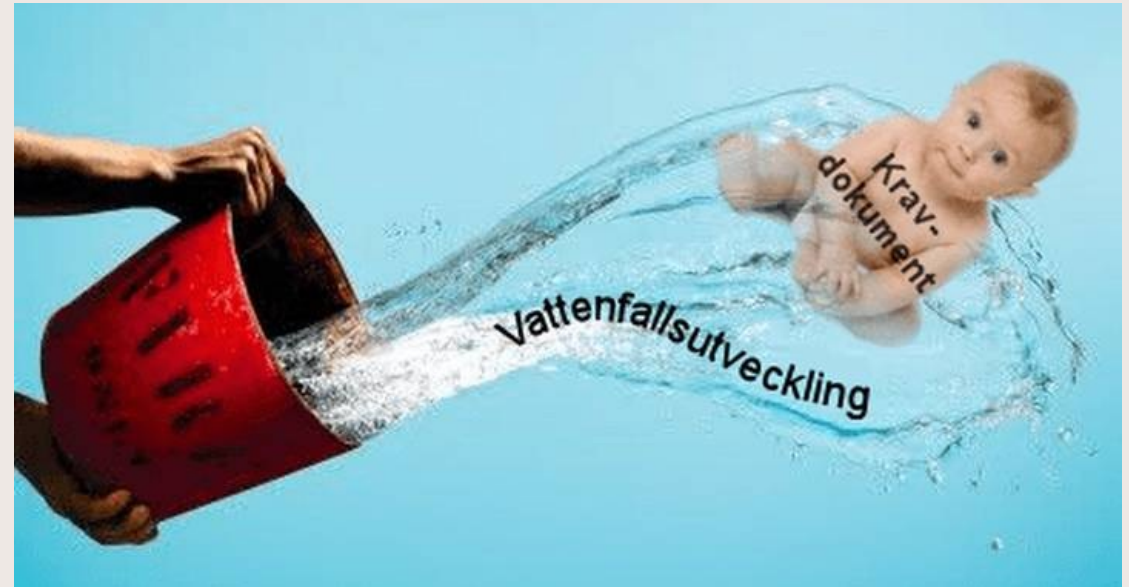
Agilt

- Fokuserad utveckling
- Snabb leverans
- Informationsutbyte
- Scrum
- Kanban
- Scaled Agile Framework



Agilt

- Krångligare överblick
- Projekt != Vattenfall
- Minskad förutsägbarhet



SAFe 6.0

Select SAFe configuration

OVERVIEW

ESSENTIAL

LARGE SOLUTION

PORTFOLIO

FULL

6

3

Organizational
Agility



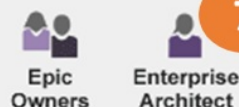
Lean
Portfolio
Management



Agile
Product
Delivery



Team and
Technical
Agility



Business & Technology

Portfolio Flow



ART Flow



Team Flow



BUSINESS AGILITY

1

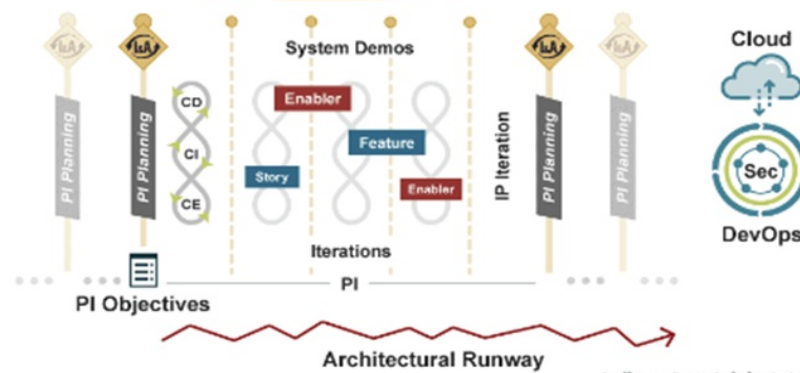
4



Value Stream Management



Continuous Delivery Pipeline



Lean-Agile
Leadership



Lean-Agile
Mindset



Core
Values



SAFe
Principles



Implementation
Roadmap



SPC

2



Continuous
Learning
Culture

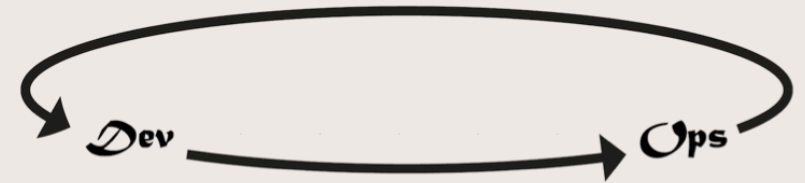
DevOps

- Tear down the silos!
- Filosofi
- Kultur
 - Automation
 - SRE
 - Platform Engineering

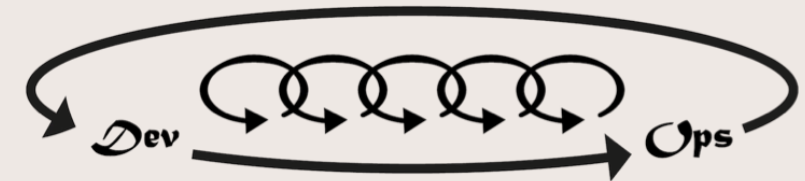
The First Way: Systems Thinking



The Second Way: Amplify Feedback Loops

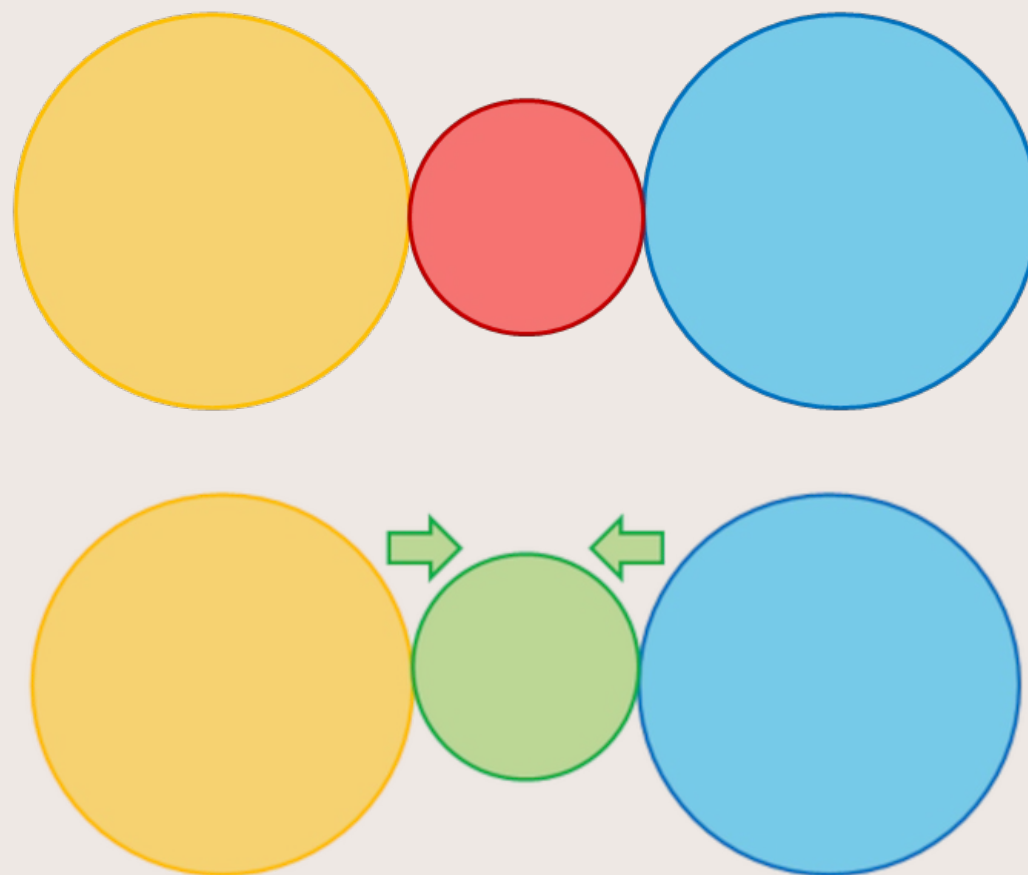


The Third Way: Culture Of Continual Experimentation And Learning



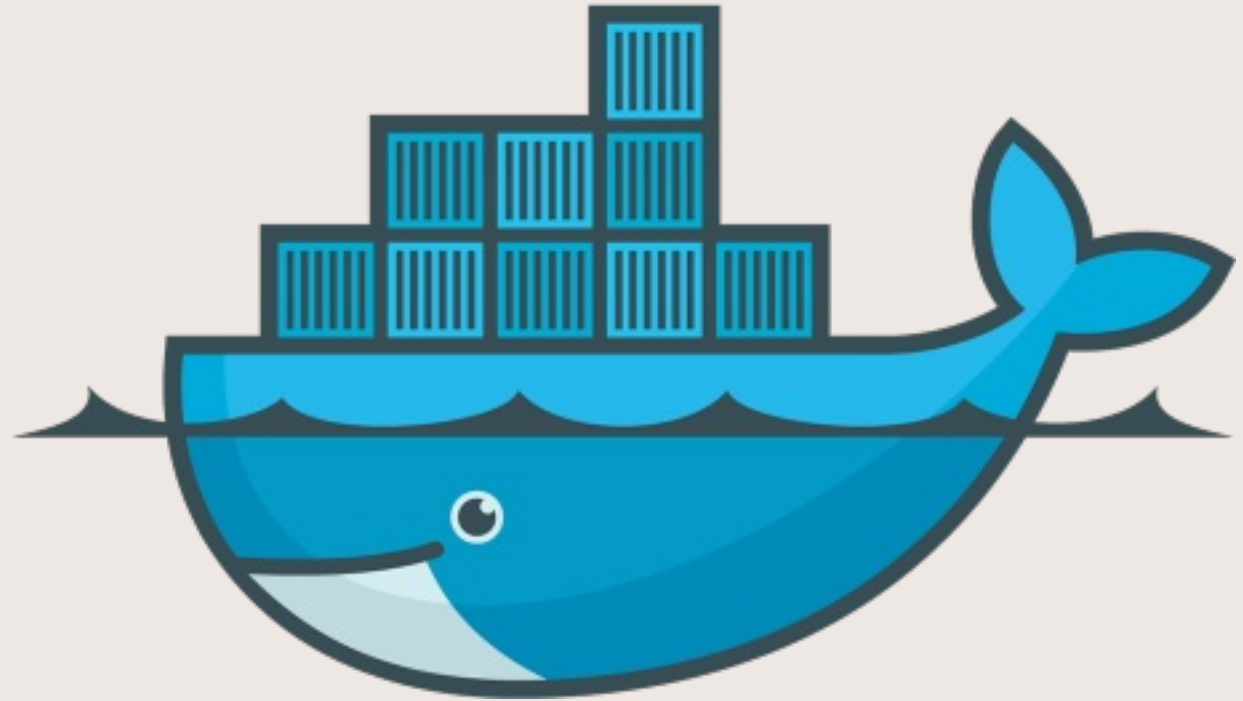
DevOps

- Missuppfattningar
 - DevOps Team?
 - DevOps Engineer?
- Svårt att skala
 - Anpassad organisation
- Kultur är oförutsägbar!



Docker

- Isolera miljöer
- Paketera beroenden
- Reproducerbarhet



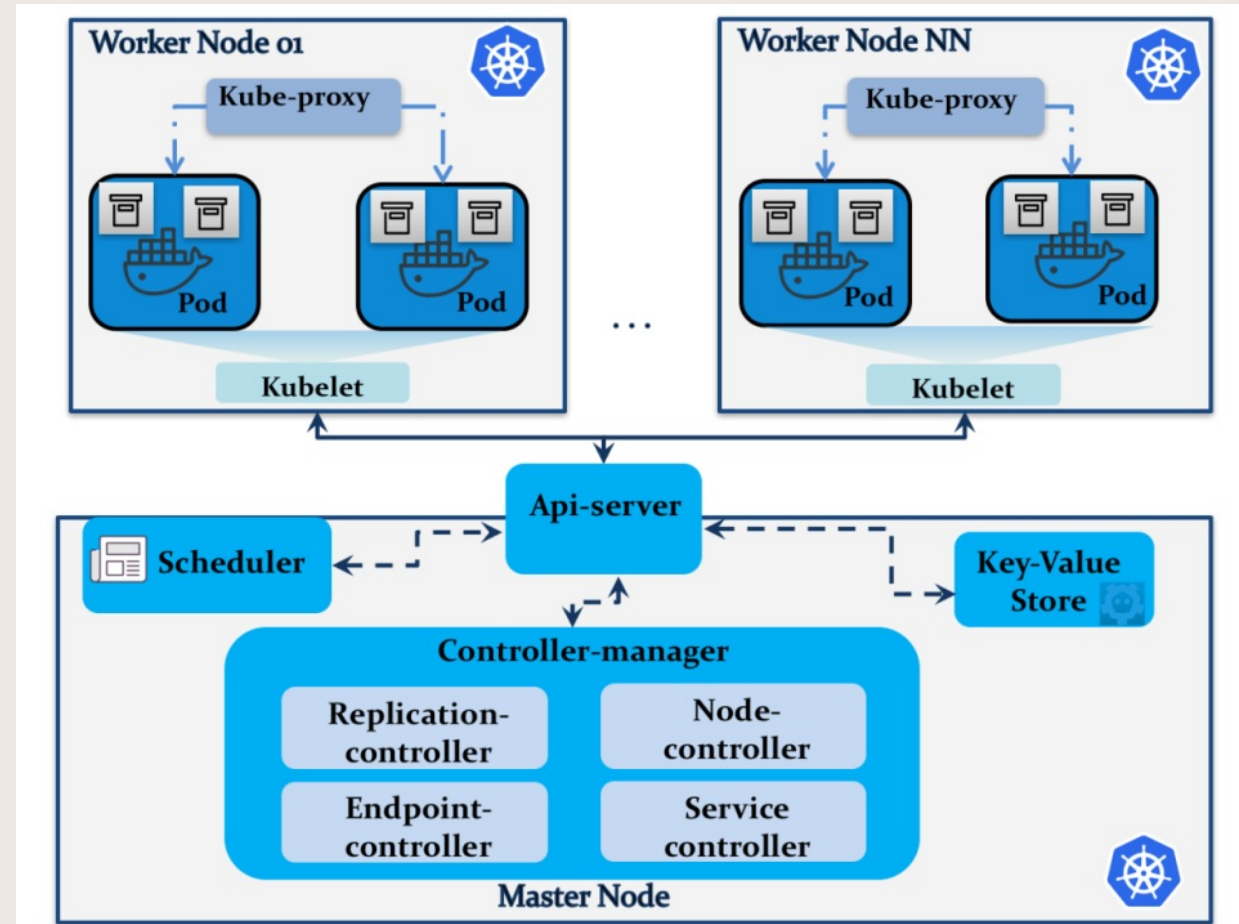
Docker

- Bristande säkerhet
- Komplex orkestrering



Kubernetes

- Orkestrera containers
- Komplexitet³



This landscape is intended as a map through the previously uncharted terrain of cloud native technologies. There are many routes to deploying a cloud native application, with CNCF Projects representing a particularly well-traveled path.

GenAI?



Varför är det så svårt?



The image features a full-page background with a zebra print pattern, consisting of dark grey/black wavy stripes on a light grey background. In the center, there is a bright cyan square with rounded corners. Inside this square, the text "b3" is written in a white, lowercase, sans-serif font.

b3