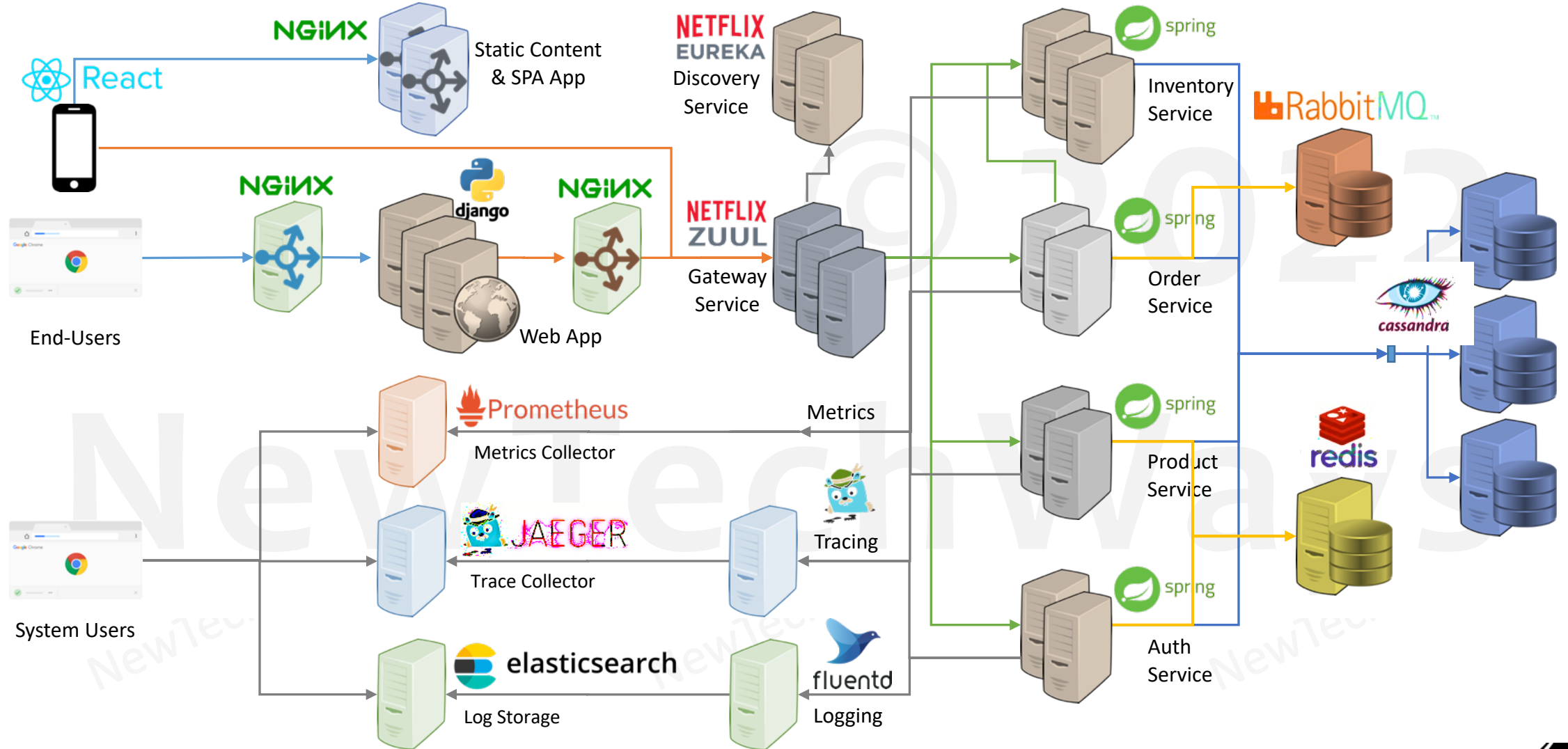


# High-Scale System Deployment with Kubernetes

# Single Machine Deployment



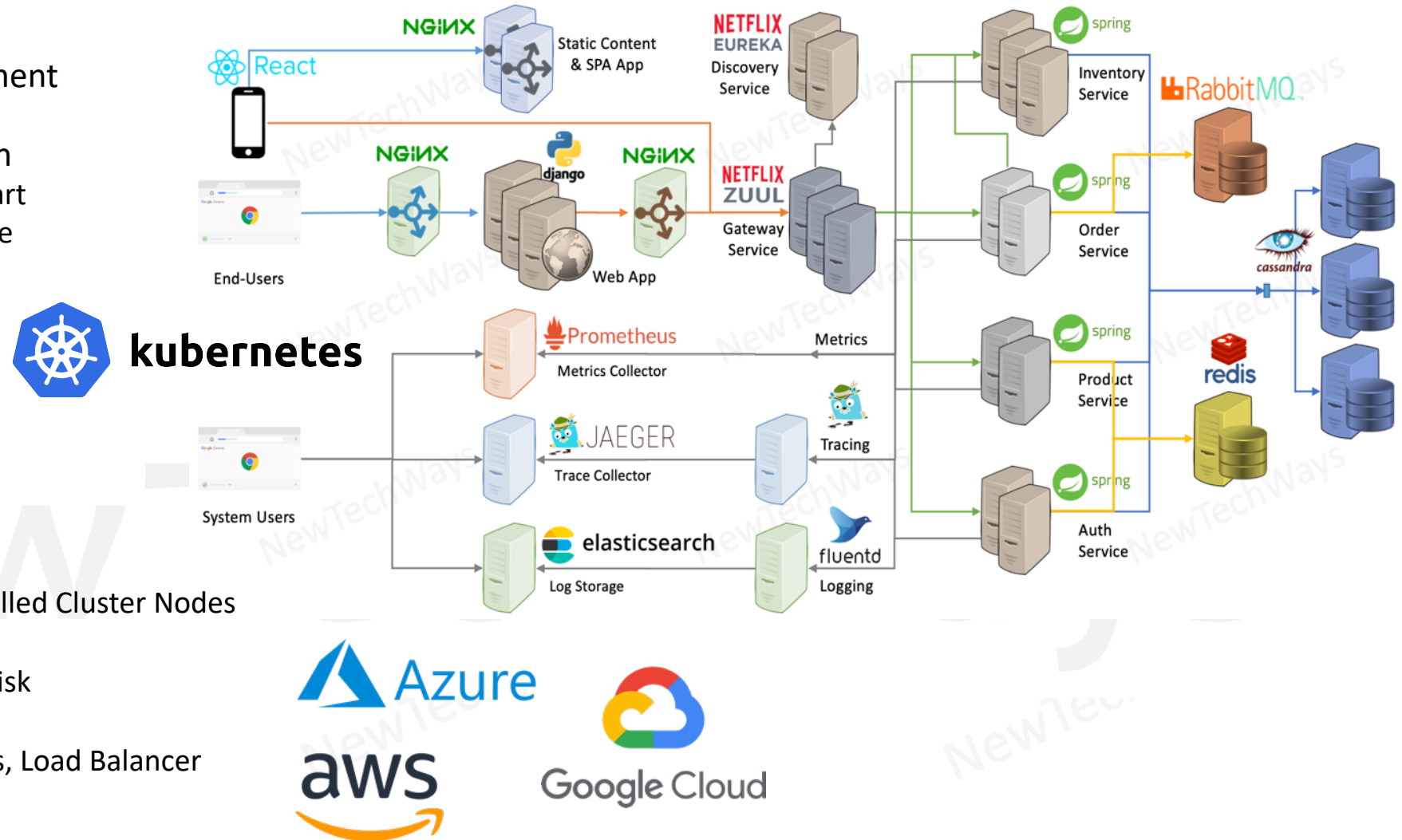
# Kubernetes & Cloud

- Kubernetes

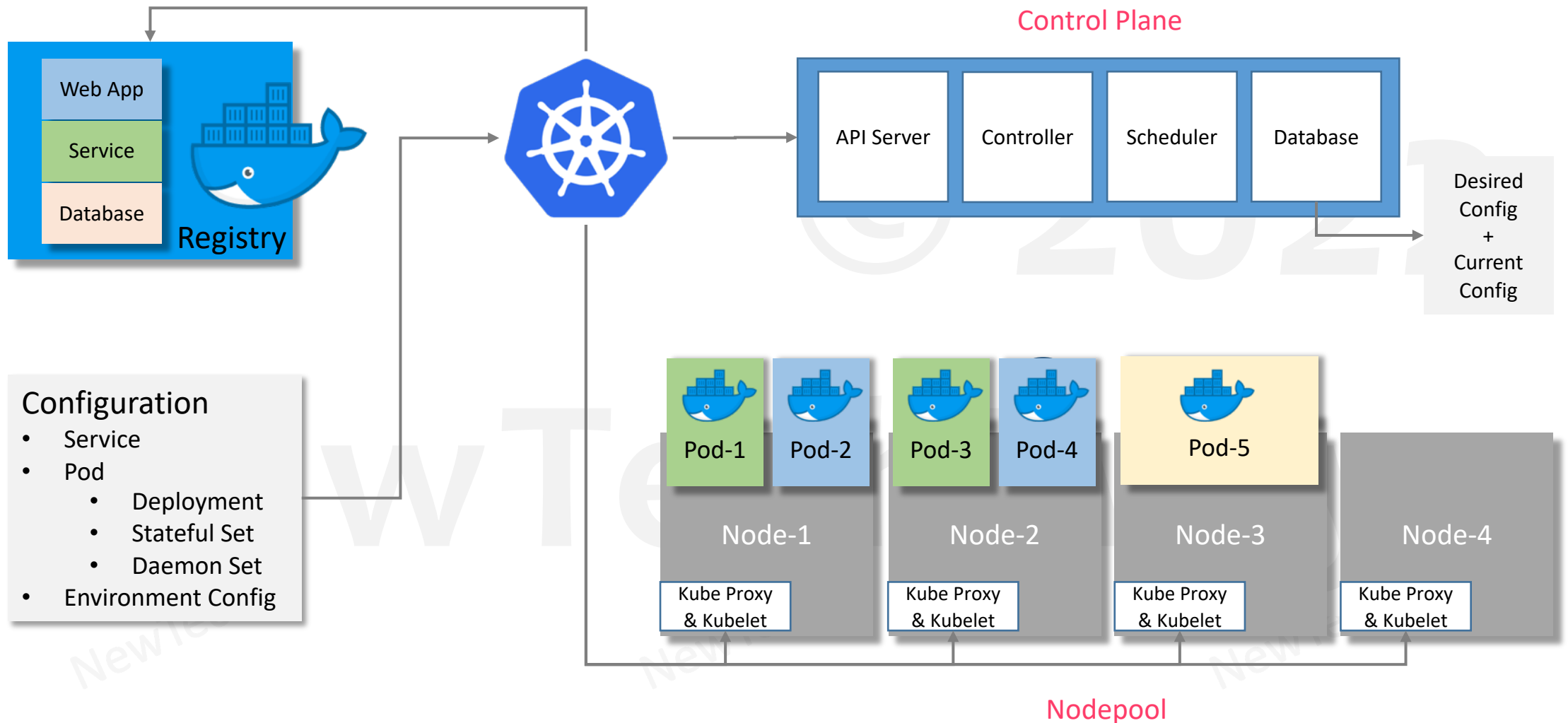
- Automated deployment
  - Configuration
- Lifecycle automation
  - Start, Stop, Restart
  - Monitor, Upgrade
  - Health checks
- Networking
  - DNS
  - Routing
  - Load balancing
- High Availability

- Cloud

- Kubernetes Cluster
  - Kubernetes installed Cluster Nodes
- Compute Resources
  - CPU, Memory, Disk
- Network
  - Public IP Address, Load Balancer



# Kubernetes Cluster Architecture



# Deployment with Kubernetes on Google Cloud

- Setup
  - Container Registry Setup
  - Kubernetes Cluster Setup
  - Application Configuration
- Deployment
  - Application Deployment
- Operations
  - High Availability
  - Autoscaling
  - Rolling Upgrades

