

# ONAP - Cloudify Cloud Native Approach

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# Cloudify architecture evolution

2017

- All in one servers
- RPM / virtual image
- Active-passive cluster architecture

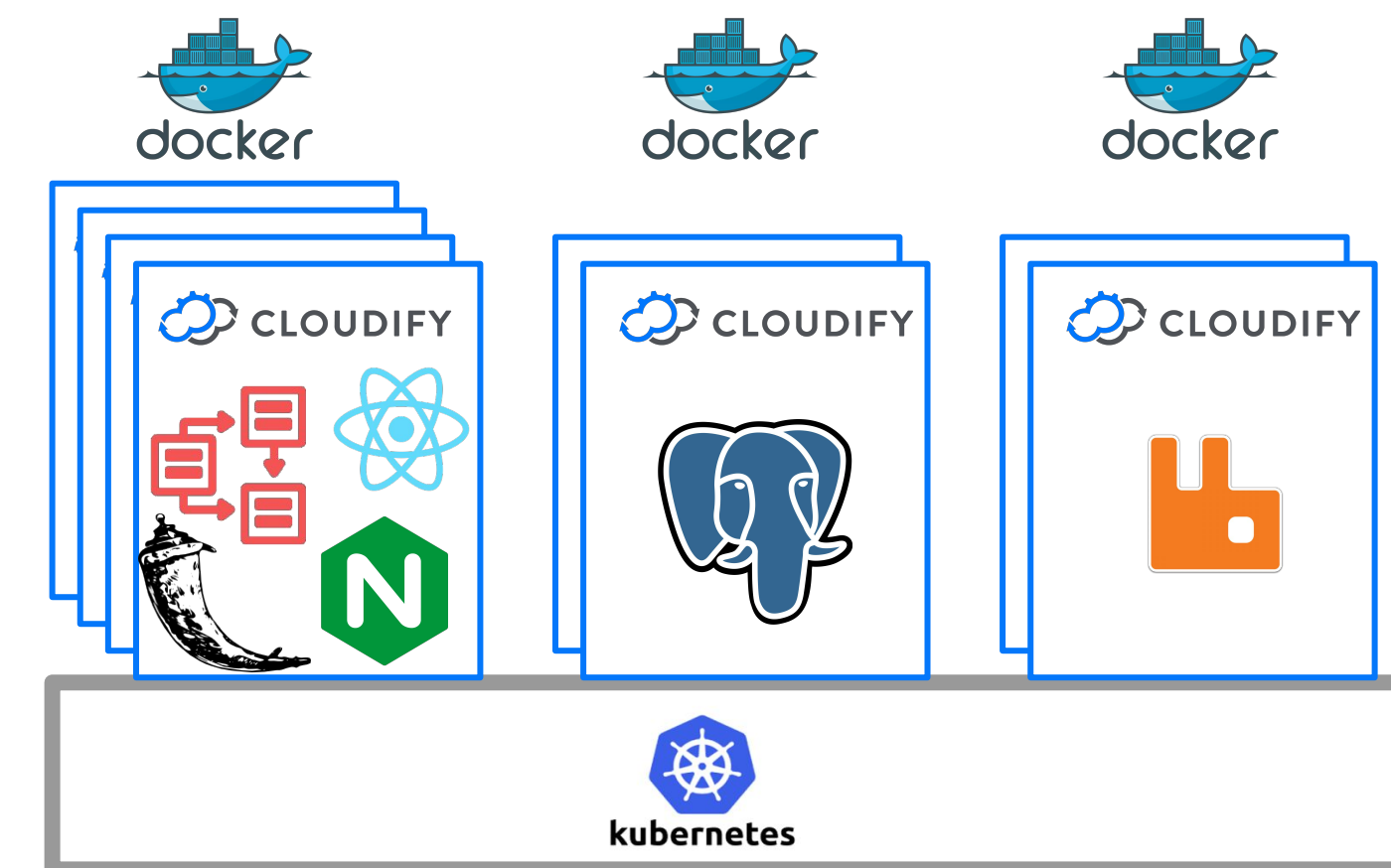
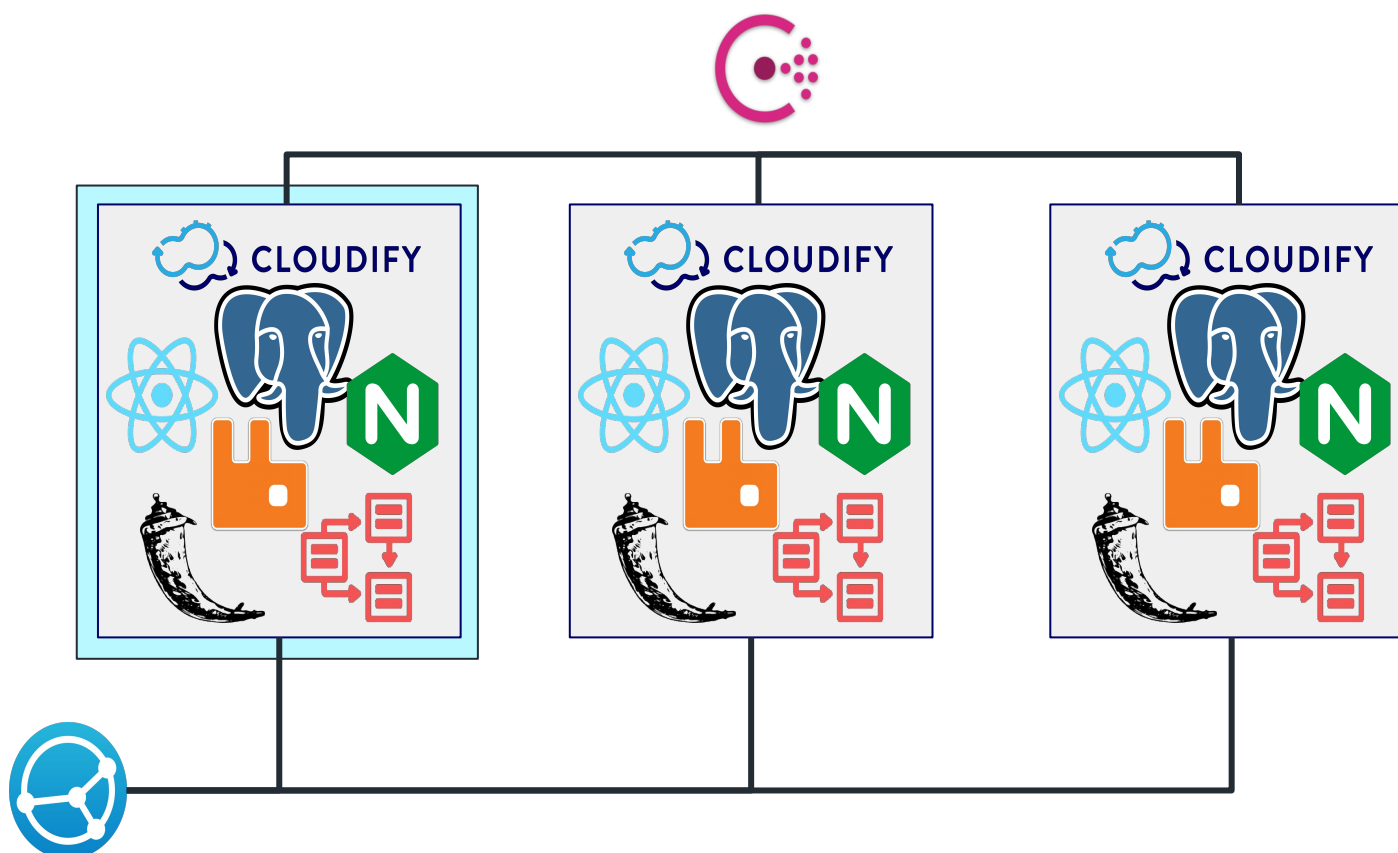
2018

- All in one servers
- Docker as main vehicle
  - Optional: RPM / virtual image
- Active-passive cluster architecture

2019

Cloud native

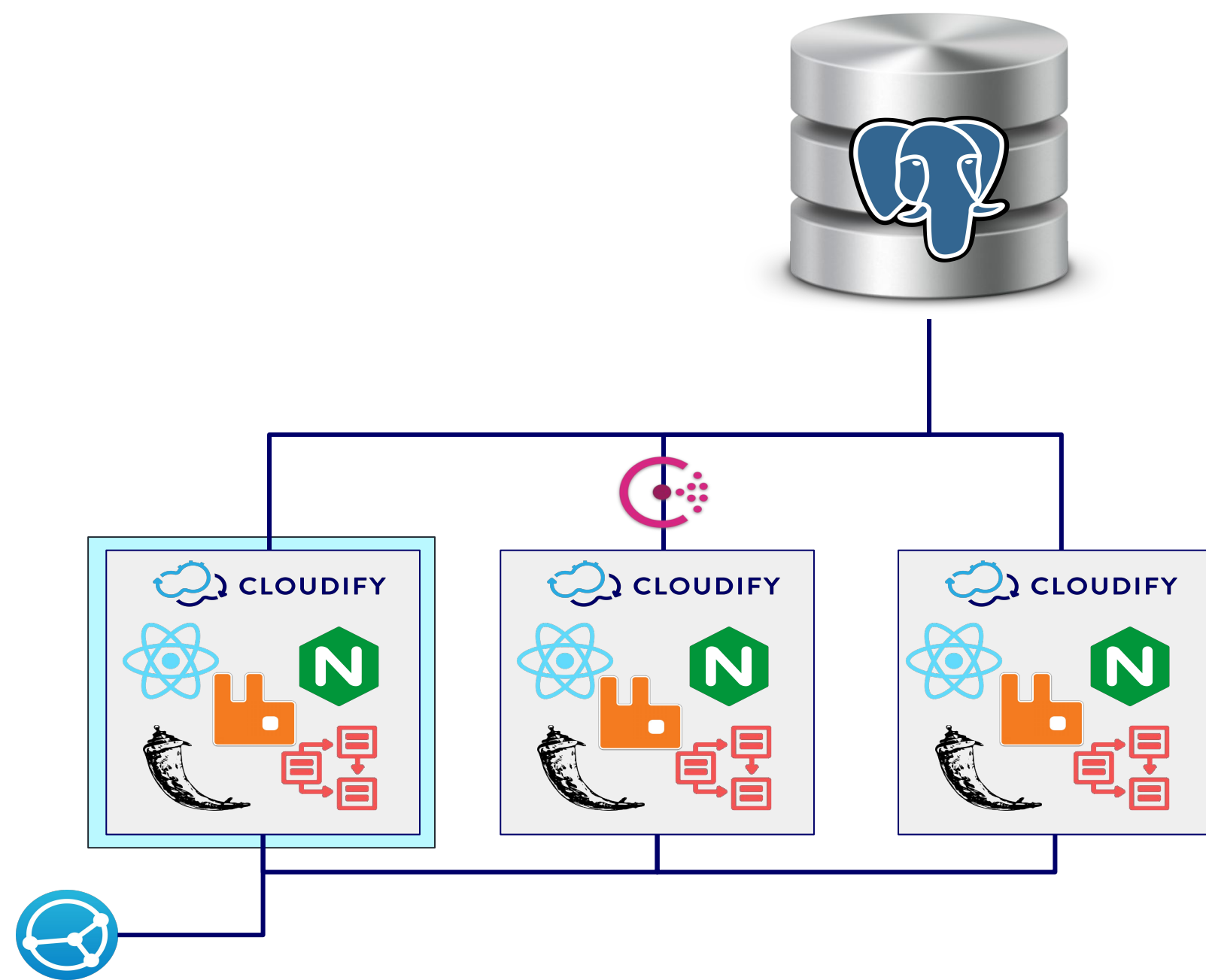
- Stateless service architecture
- Docker as main vehicle
- Kubernetes as the preferred infra
- Active-active cluster topology



# Local resilience - cluster architecture changes

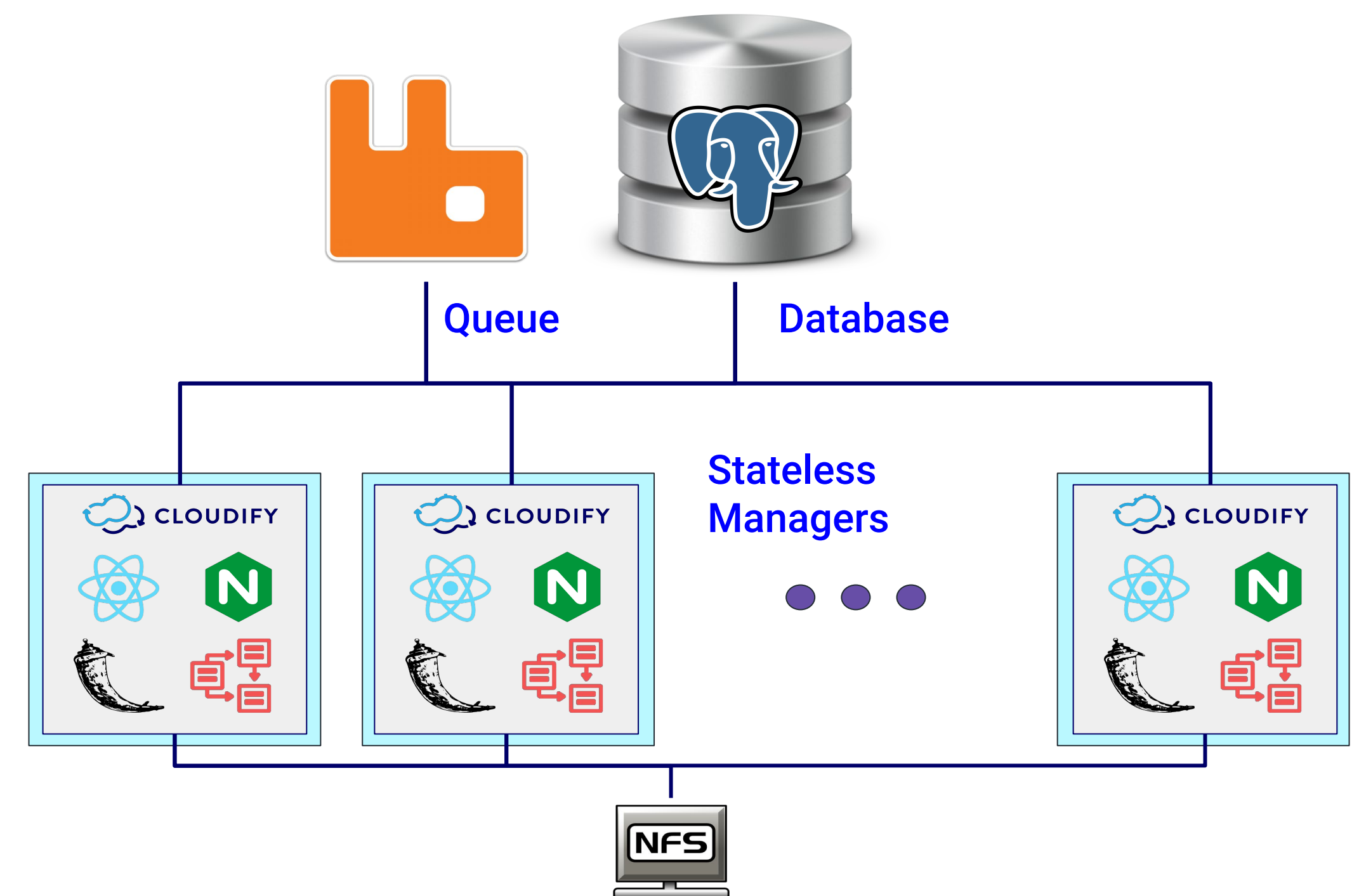
## Cloudfify 4.5.5

- Active-passive topology (Single active node)
- Stateful services



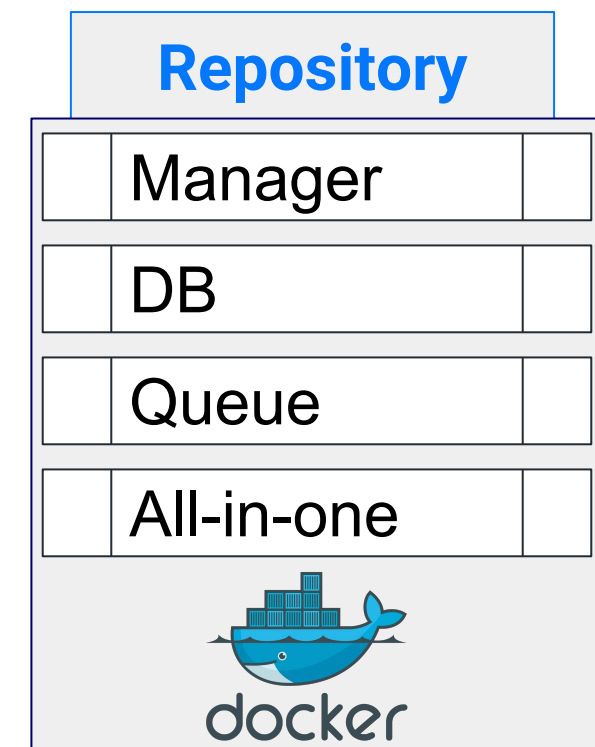
## Cloudfify 5.0

- Active-active topology (All active nodes)
- Stateless services



# Deployment vehicle

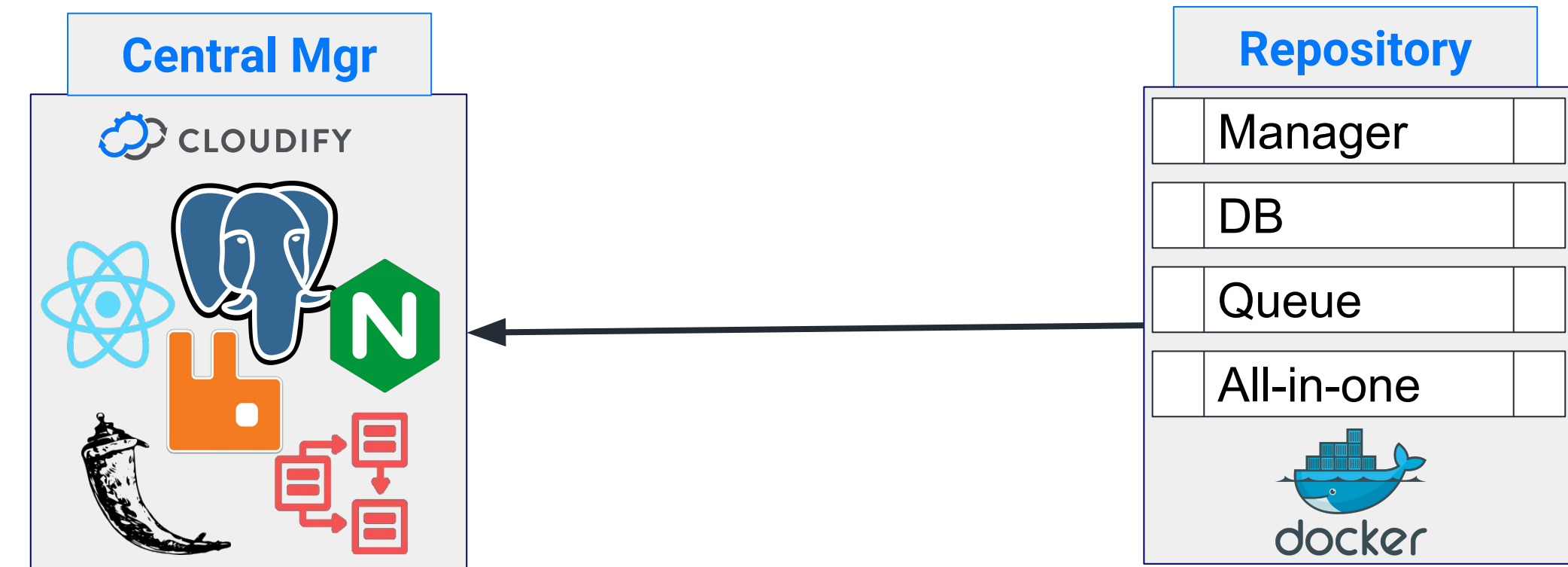
- Container repository
  - Manager
  - Database
  - Queue
  - All-in-one
- Docker based, over Kubernetes (recommended) or other infra
- RPM - mainly for custom builds





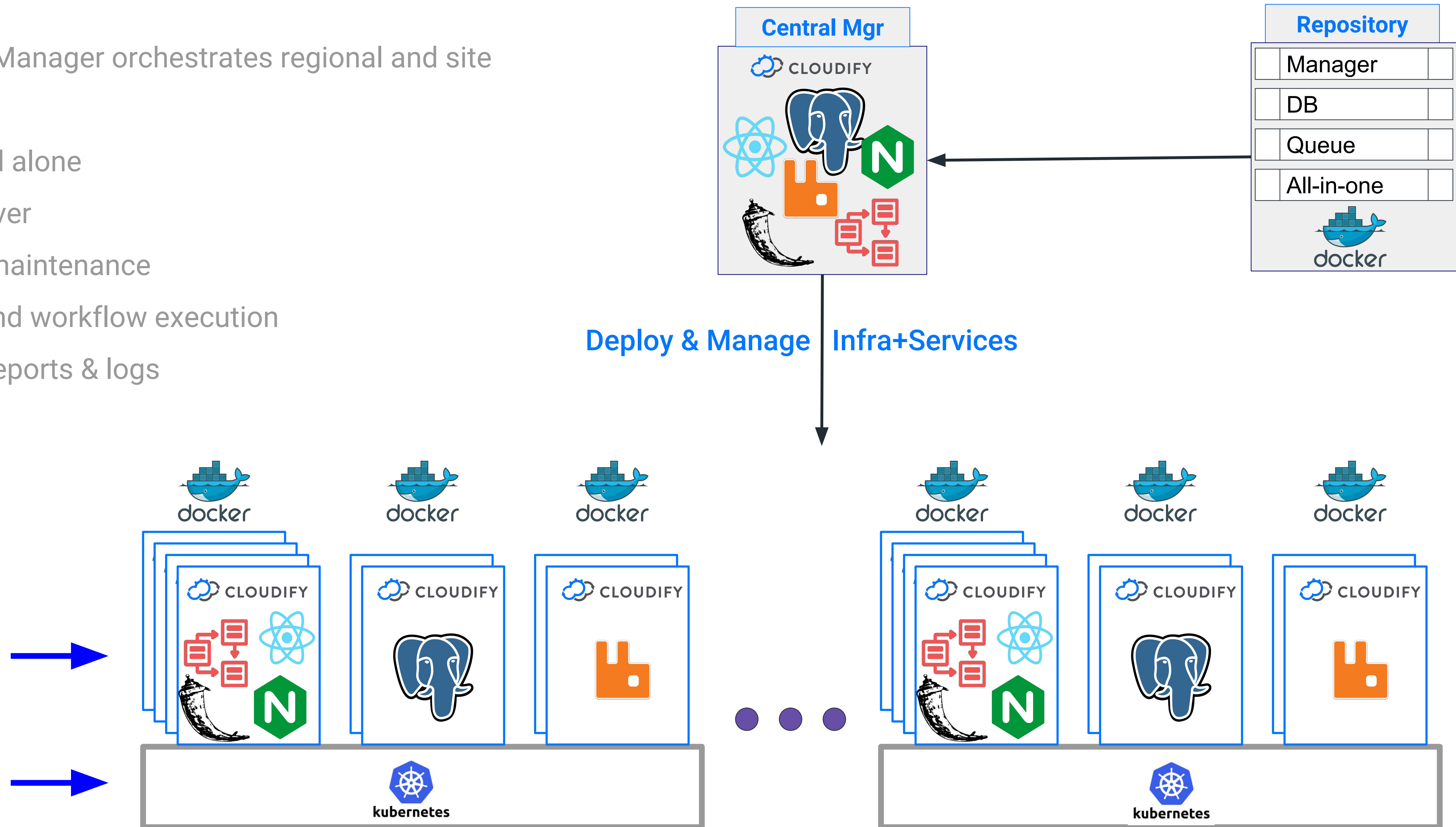
# Onboarding

- Deploy Cloudify Central Manager
  - All-in-one / Cluster
  - Docker based, over Kubernetes (recommended) or other infra
  - Helm / template



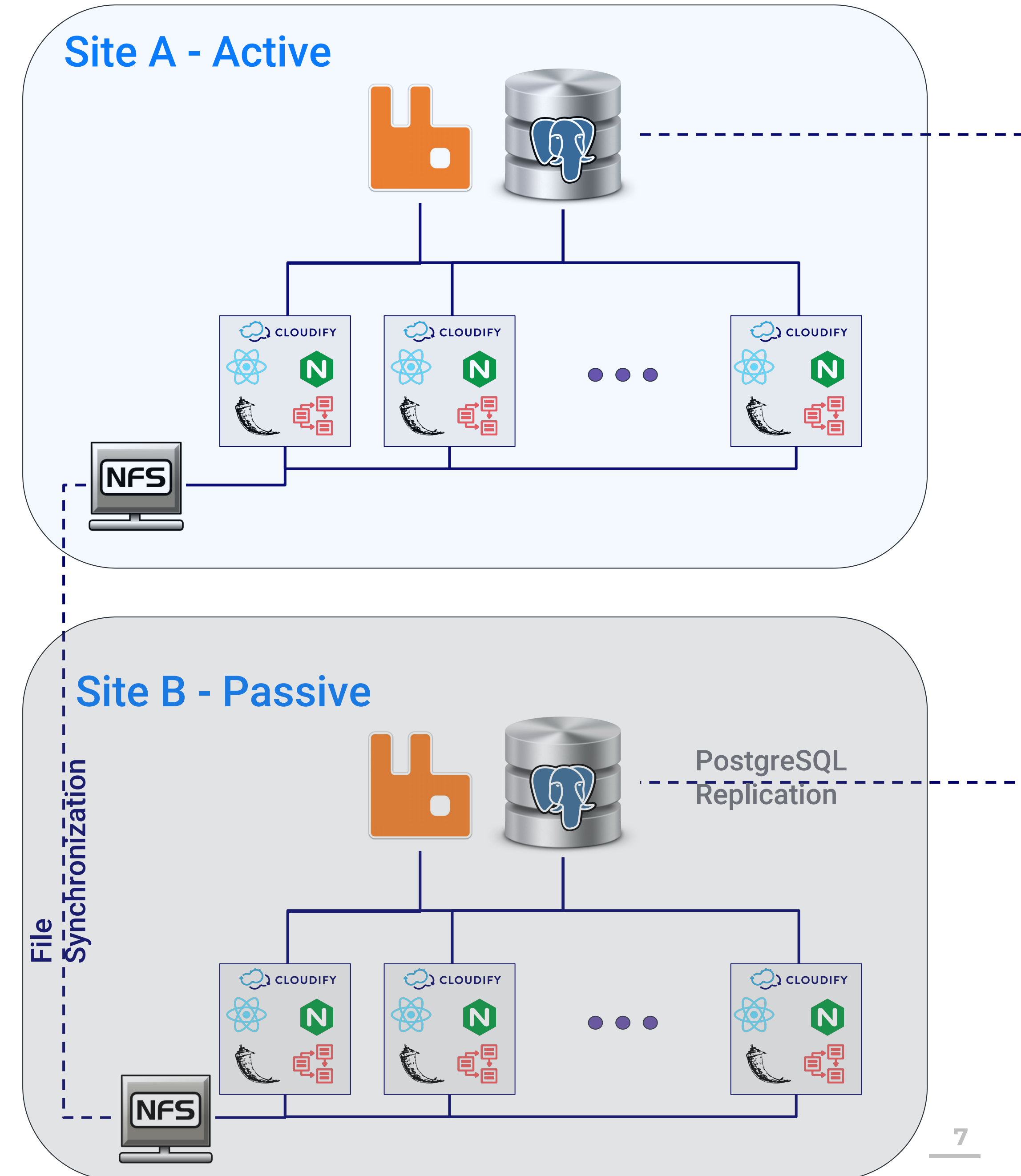
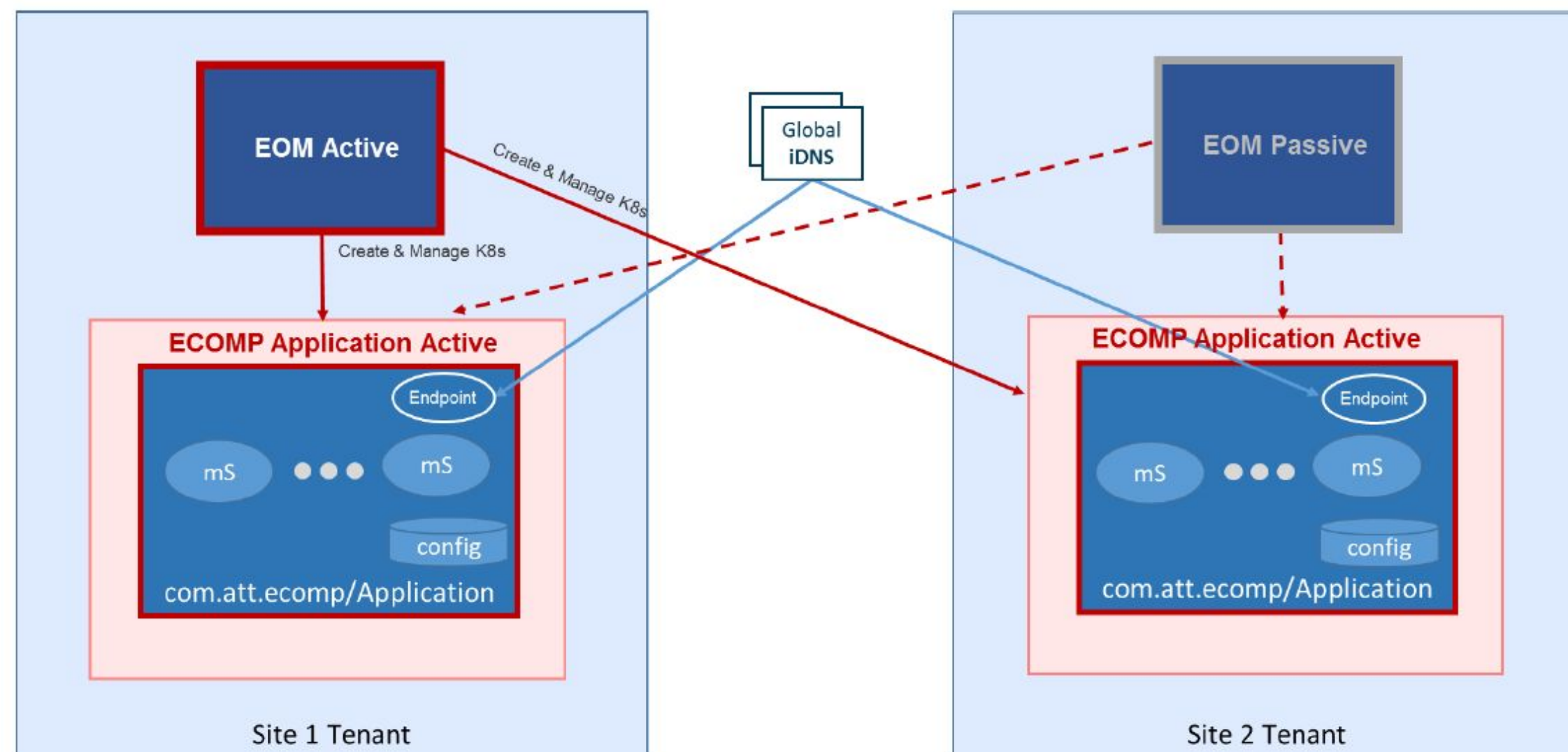
# Onboarding

- Cludify Central Manager orchestrates regional and site managers
  - Clusters/stand alone
- Central control over
  - Upgrade and maintenance
  - Deployment and workflow execution
  - Dashboards, reports & logs

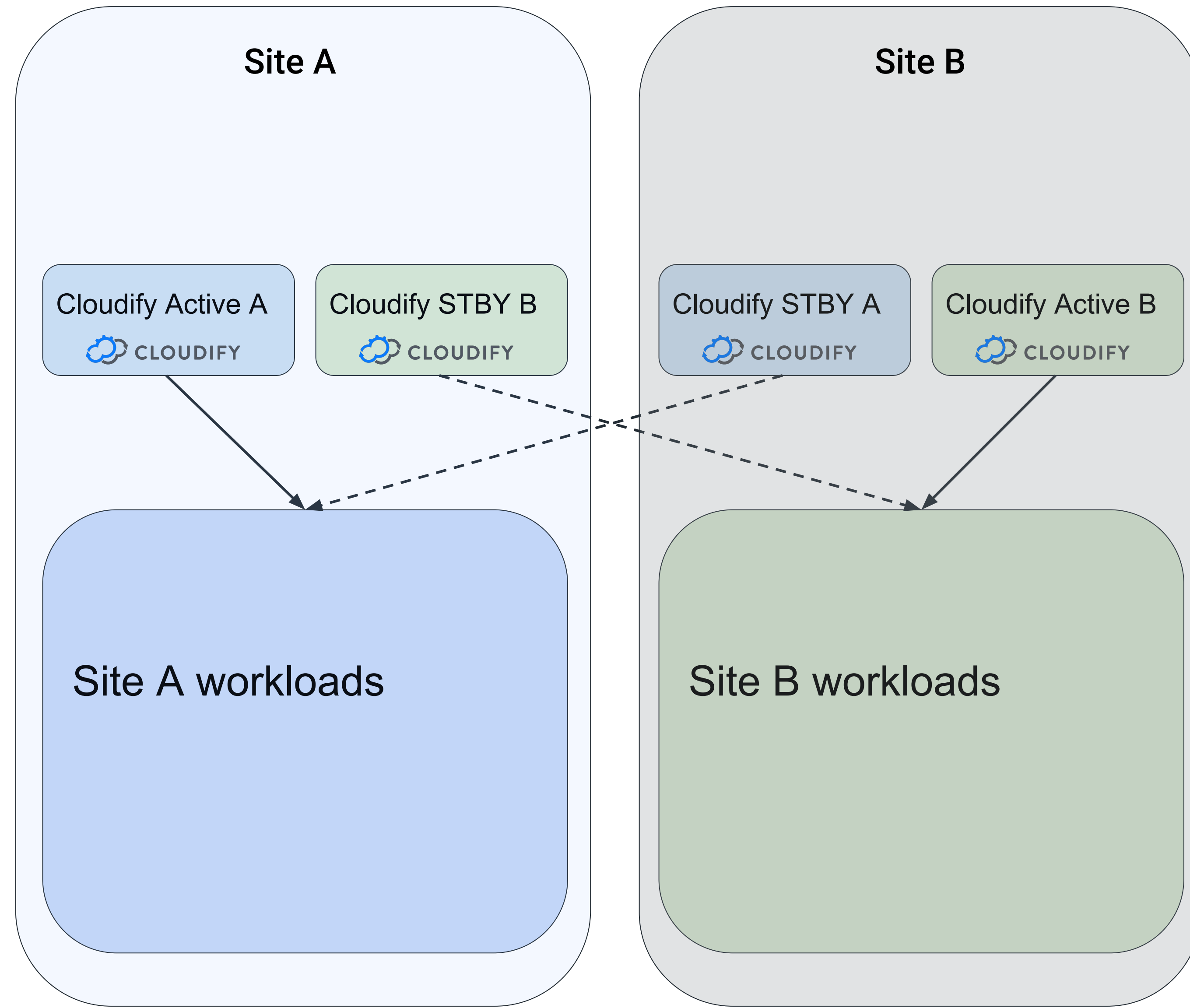
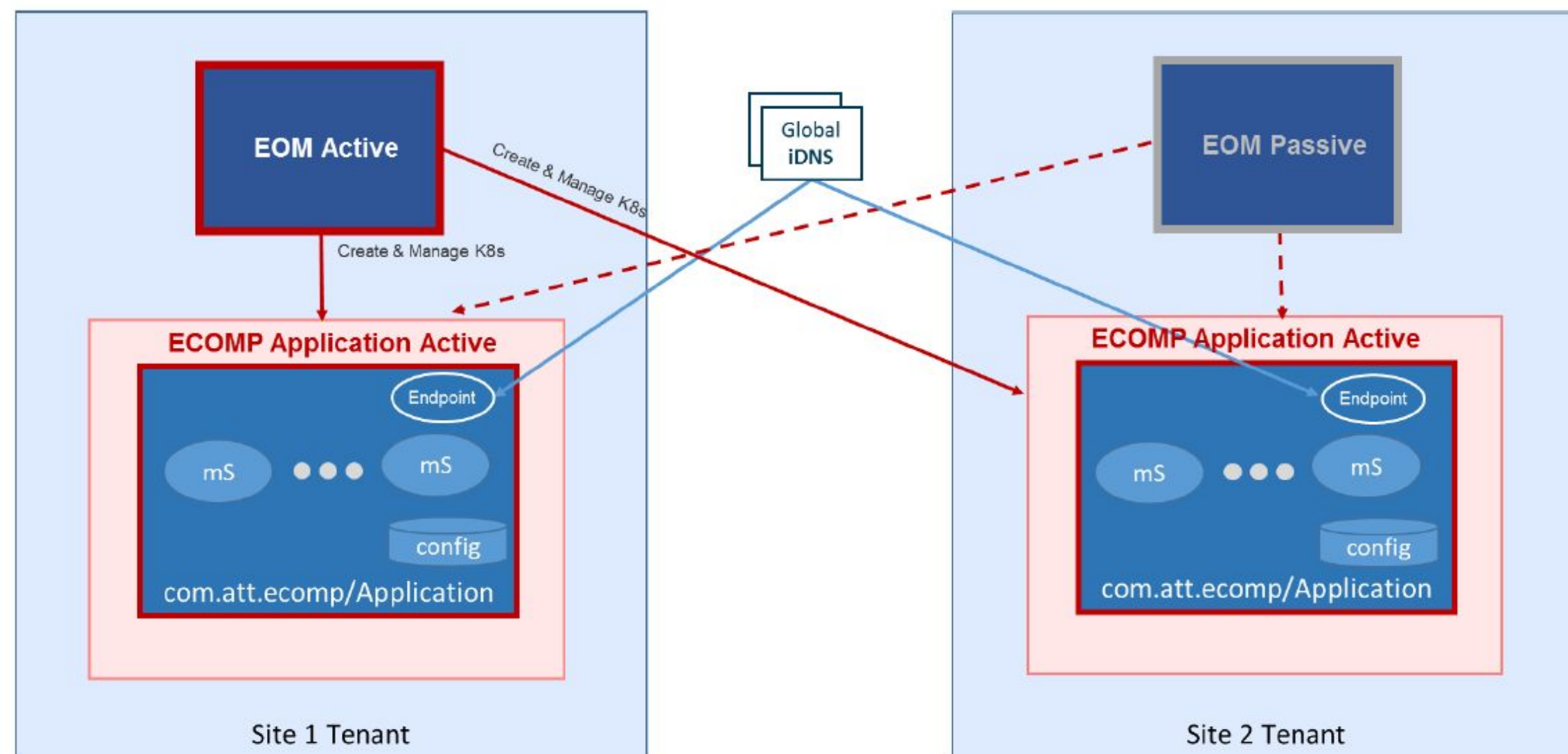


# Geo resilience

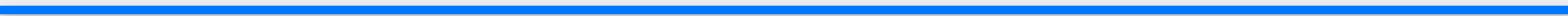
- Failover external trigger
- Full functionality post failover
- Auto resume of interrupted/incomplete workflows



# Geo resilience - full mesh







**Thank You.**

