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

Cloudify 4.5.5
- Active-passive topology (Single active node)
- Stateful services

Cloudify 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

![Diagram of Cloudify Central Manager and Repository]

- Repository
  - Manager
  - DB
  - Queue
  - All-in-one
Onboarding

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

![Diagram of Cloudify Central Manager and Repository](image-url)
Geo resilience

- Failover external trigger
- Full functionality post failover
- Auto resume of interrupted/incomplete workflows
Geo resilience - full mesh

Site A workloads

Site B workloads

Cloudify Active A

Cloudify STBY B

Cloudify STBY A

Cloudify Active B

Site A

Site B

EOM Active

EOM Passive

ECOMP Application Active

com.att.ecomp/Application

Site 1 Tenant

Site 2 Tenant
Thank You.