INF Architecture

[DRAFT only]

Align with the O-RAN alliance workgroup 6 Orchestration and Cloudification, the INF will provide the O-Cloud reference implementation.

Will address the definition of the O-Cloud and O2 interface.

The following is the components block diagram.

### O-Cloud Platform

![O-Cloud Platform Diagram]
Cloud Platform – Kubernetes Software Components

Cloud Platform Container Management and Orchestration - Openstack
- Armada
- API Server
- Controller Manager
- Ingress LB
- Helm
- Scheduler
- Docker Registry
- ETC

Cloud Platform Management
- Node Feature Mgmt
- Configuration Mgmt
- Software Mgmt
- Host Mgmt
- Service Mgmt
- Fault Mgmt

Cloud Platform Runtime
- PTP
- PCI-Passthrough
- Huge Page Allocation
- ntop
- SR-IOV
- Network Driver
- QAT
- IPMI

Linux Real-Time Kernel

Cloud Platform – Openstack Software Components

Cloud Platform VM Management and Orchestration - Openstack
- CEPH
- Swift
- Keystone
- Heat
- Nova
- Glance
- Cinder
- Horizon
- Ceilometer
- Virtual Router
- Virtual Switch
- Neutron

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Linux Real-Time Kernel