Release C - POR

In the Bronze release, the O-Cloud deployment scenario is only for AIO (all-in-one) single server. In the Cherry release, will extend the deployment scenario to the followings:

- 2 servers. 2 AIO servers with HA (high availability), the controller functionality and storage functionality will be deployed at the 2 servers with standby-active mode managed by "service management". If one server or one service in one server has error, it will be switched from active to standby one to maintain the service availability.
- 2 AIO servers with additional worker node.

In the Bronze release, the INF deliverable started to work with ODULOW team, the ODULOW deliverable asked the following requirement:

K8S features and plugins	Required for OSC lab (Y/N)	Comments
Multus	Y	
Calico	Y	Easy to deploy
Native Huge Pages	Y	Best to have numa aware support but k8s don't support yet
SR-IOV Net Device Plugin	Y	Use for NIC SRIOV management. Better to extend support of VC sriov.
Node Feature Discovery	Y	Easy to deploy
FPGA device plugin	Y	Manager PAC N3000 VF devices in k8s
K8s CPU manager/topology manager	Y	Key feature for CPU isolation

In the Cherry release, will keep support those features, and will start to do the interoperability with the following components:

- ODULOW
- ODUHIGH
- OCU
- RIC (need do more investigation)

In the Bronze release, it supports the following deliverables related ARCH

- IA Kubernetes cluster
- IA StarlingX enabled O-Cloud reference
- ARM Kubernetes cluster

In the Cherry release, it will support the:

- ARM StarlingX enabled O-Cloud reference

Alignment with O-RAN WG6 Orchestration and Cloudification specifications.

The following items were approved:

- Cloud Architecture and Deployment Scenarios v02.00 (O-RAN.WG6.CAD-v02.00)
- Cloud Platform Reference Design for Deployment Scenario B v01.00 (O-RAN.WG6.CLOUD-REF-B-v01.00)
- Orchestration Use Cases and Requirements for O-RAN Virtualized RAN v01.00 (O-RAN.WG6.ORCH-USE-CASES-v01.00)

Will adjust and modify the features to align with the upper document.