

Akraino Blueprints and Blueprint Specification/Templates



A framework proposal

Blueprints and Blueprint Specification/Release Templates

At the highest level the *Blueprint* defines the fundamental must have characteristics/components of any POD deployed using it

e.g. A "Network Cloud" Blueprint deploys OpenStack using a k8s undercloud with Airship based LCM (etc)
These are immutable attributes - if they are omitted or replaced a different blueprint results

Within a given blueprint a POD's deployed components can be tailored by different *Blueprint Specifications*

e.g. At each Akraino release of the Network Cloud blueprint its *Blueprint Specification Template* would contain the set of all verified possible plugins/options for each layer

Certification of hosted applications (e.g. VNFs) against a Blueprint and Specification is then possible

Network Cloud Blueprint Specification Template Release 1

This is for illustration and doesn't contain all layers required for the NC blueprint

Red box selections show one possible specification within this blueprint

SDN	None (neutron)	ODL Boron	TitaniumFabric R1	TitaniumFabric R2
Overcloud	OS Ocata	OS Pike	k8s	
Undercloud CNI	Calico	Multus	Flannel	
Undercloud	K8s 1.9	K8s 1.12		
Host OS layer	Ubuntu 14.04	Ubuntu 16.04	Centos 6	Centos 7
HW layer	Dell R720	HP DL360		

Network Cloud Blueprint and Specification/Release Templates



Different Blueprints would have different options to select in the Blueprint Specification as the functionality deployed in such a POD would be different

e.g. an IOT blueprint may not use OpenStack as a virtualization

The Specification Template of a given Blueprint can evolve in subsequent releases to add / remove functional layers

