




Akraino Community Call

October 4, 2018

Question on the mailing list, can anyone help?



I have installed the regional controller node on one of the Dell server. Although server is not the one which is recommended by community(PowerEdge R740) I am able to bring up the akraino portal UI. I have few queries regarding the edge site installation, few of them are very basic, apologies for the same. Your help will be appreciated.

1. Is it possible to install regional controller node and edge site node on same host? If yes, how can we do that?
2. If we are installing the edge site on different host, is it mandatory to have iDRAC interface connection between controller node and edge site host? Is there any other way to install edge site without iDRAC interface.
3. As per the installation guide, the server config file for controller node and rover.txt for edge site configuration are almost same, does it means that both controller node and edge site will be deployed on same host? If yes, then as per the requirements, the host should be the bare metal server but its not as controller node is already running on same host.
4. Also I tried to install the edge site as per my current setup, I got deploy error on the portal, but didn't got any logs in /var/log/scriptexecutor.log file. Is there any log file which I can check for further debugging?

Many Thanks,

Sachin

Akraino Technical Community, chapters 1-3



Where are we now?

- [Technical charter](#) has been approved by TSC
 - It “sets forth the responsibilities and procedures for technical contribution to, and oversight of, the Akraino Edge Stack Project”
- Deadline for “[Akraino Technical Community](#)” document is October 9th
 - Describes in detail the Akraino project and its TSC
 - How the TSC will be elected in the future
 - What are the project roles
 - What are project types and how they are approved
 - What is a Blueprint



Project roles

- Contributor: anyone who contributes to a project
- Committer: a contributor with commit rights
- Project technical leader: elected by committers

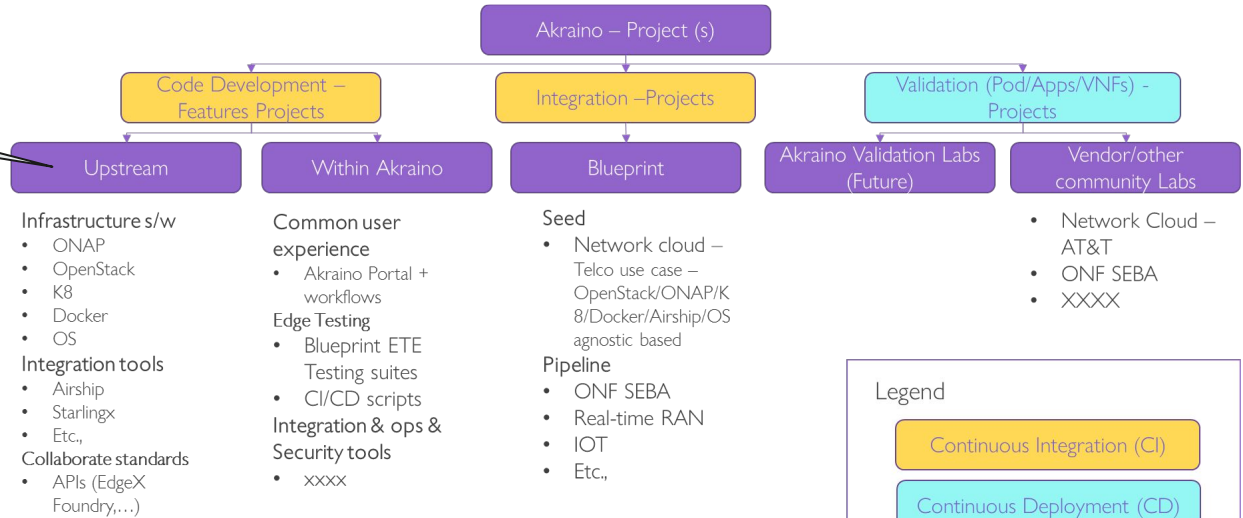


Project lifecycle

- Projects span across several releases (tbd)
- Projects have well-defined stages and reviews between them

Project types

Upstream will have a coordinator/coordinators etc





Blueprints and integration projects

- New **Blueprint** requests and requests to modify existing **Blueprints** will be managed as Akraino **Integration projects**
- Akraino Integration Projects must include the description **use cases** that the Blueprint will support
- Community members will use a template to describe the **hardware, software, deployment configurations and other use case specifications** when requesting the creation or modification of an Akraino Blueprint
- The project deliverable will be a **reference architecture** that meets the use case requirements.
- The reference architecture will include **declarative configuration file(s)** that can be implemented
- The project will also deliver **lifecycle management (LCM) tools and deployment automation** for Blueprints
- New and modified Blueprints will need to be **tested** by the Akraino community to prove that applications and VNFs can operate effectively on the Blueprint



More about blueprints

- A use case may be supported by one or more **blueprint families** i.e. there is not a 1:1 mapping from an Akraino use case to Blueprint families
- At the Family level, blueprints are differentiated by high level technical attributes which are in general immutable
- The ultimate and final level of classification must be sufficiently definitive to allow any user to reliably deploy a duplicate pod in their own environment
- Blueprint Specifications define the declarative configuration for each deployment model or **Point of Delivery (POD)** of a Blueprint. The Point of Delivery (POD) defines the method in which a blueprint is deployed to an edge site.

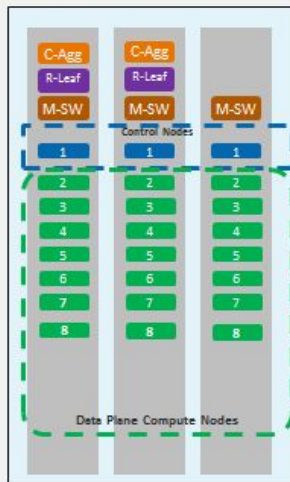
Hosted @ Telco or Provider (e.g., Network Cloud)

Customer's Premises

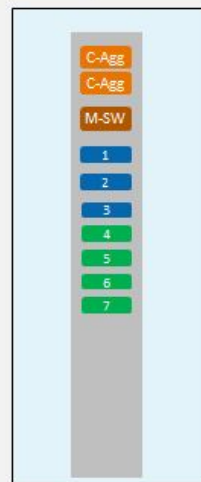
Cruiser – Large POD



Tricycle – Medium POD



Unicycle POD



Satellite



Rover



Characteristics

- 6 Racks POD
- Containerized Control plane (OpenStack, Ceph, etc.,)
- K8 based resiliency

- 3 Racks POD
- Containerized Control plane
- K8 based resiliency

- 1 Rack POD
- Containerized Control plane
- K8 based resiliency
- Possible - Data plane/Control Plane mixed

- Remote Edge – 1 or 2 servers
- Containerized Control plane
- No K8 based resiliency
- Data plane/Control Plane mixed

- Remote @ customer or public buildings
- DANOS based
- White boxes

Use Cases (e.g.,)

- 5G Core
- 5G Access

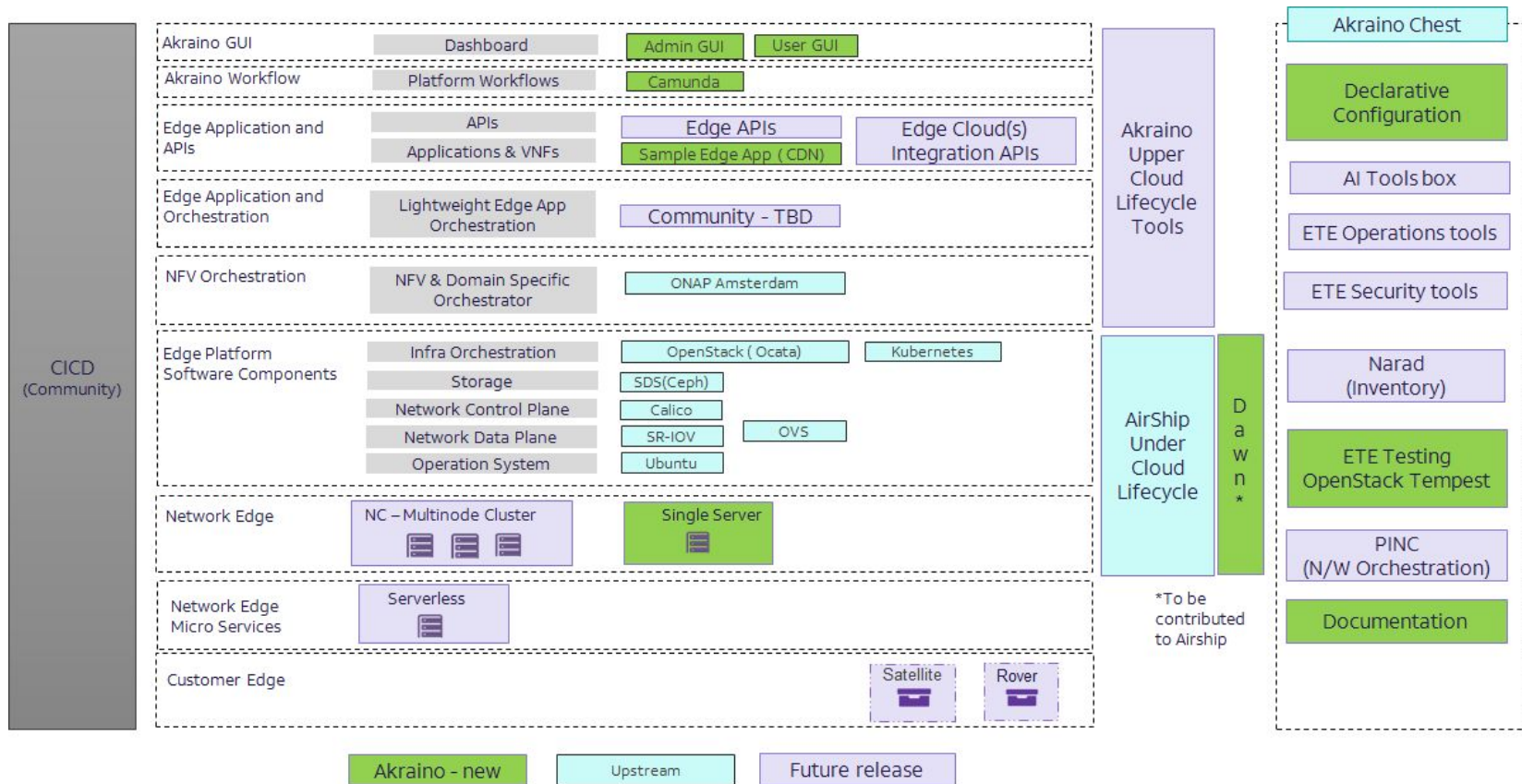
- IP Services
- 5G Access

- IoT, Wireline (PON), Store
- Remote Edge (Analytics etc.)

- Over the top edge applications.

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- SD-WAN

What is a POD (from <https://wiki.akraino.org/pages/viewpage.action?pageId=1147248>)



Example of a reference architecture (from <https://wiki.akraio.org/display/AK/Akraio+Network+Cloud+Blueprint+-+Reference+Architecture>)

Akraino Technical Community, chapter 4



Roles in Akraino community

- The Technical Steering Committee will be elected by the active contributors, with a limit on the number of members from a single company
- This change will happen at Transition Point (to be decided)
- TSC Members consist of a **chair**, a **co-chair**, an elected subset of 18 people from the community's Active Contributors (after the change)
- The TSC has multiple **coordinator** roles. Each coordinator role comes with its own set of responsibilities to discharge in serving the community via coordinating among various parties

