

# OPI API Meeting

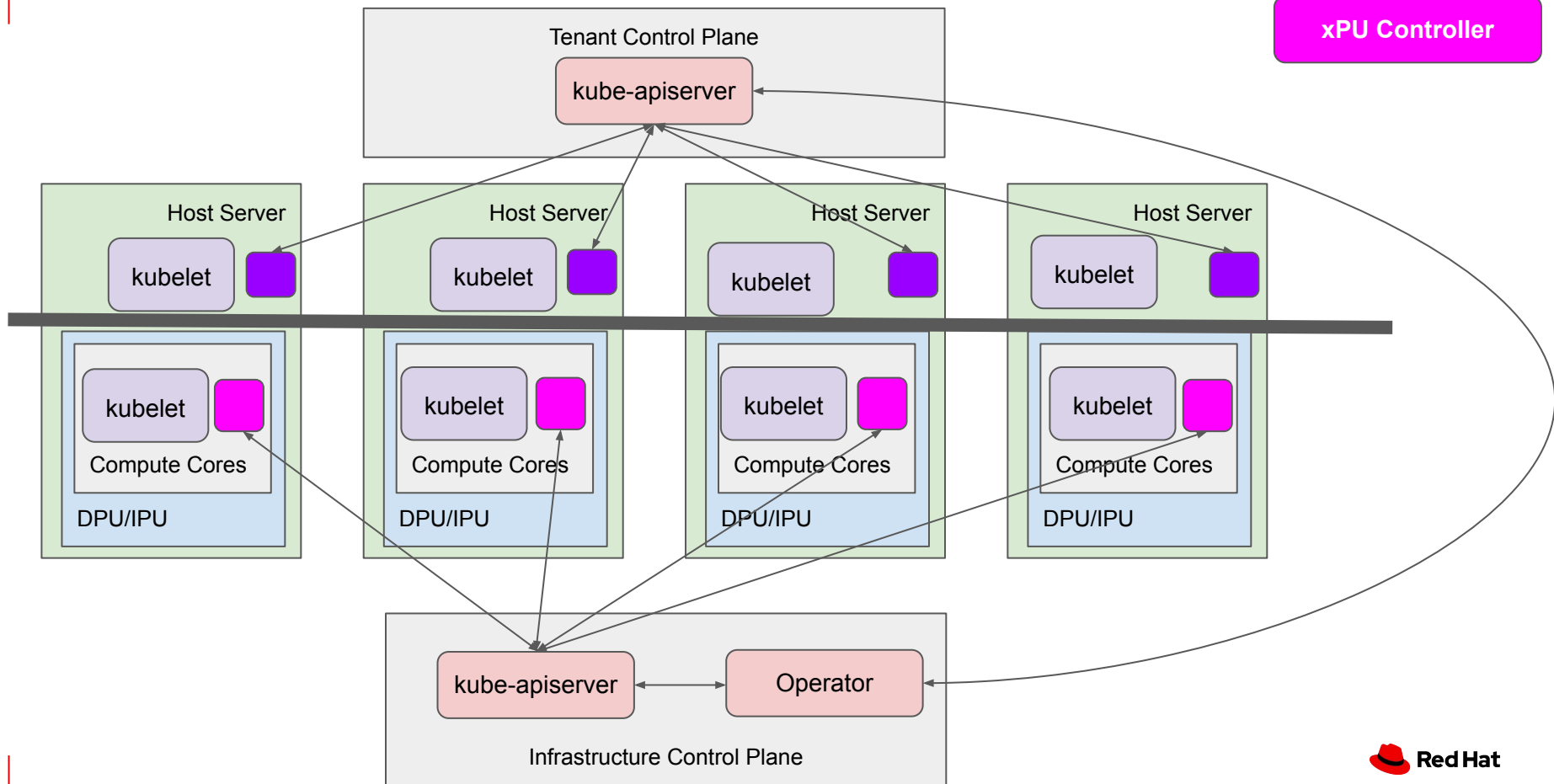
Billy McFall, Donald Hunter and Maryam Tahhan

April 13, 2023



**Red Hat**

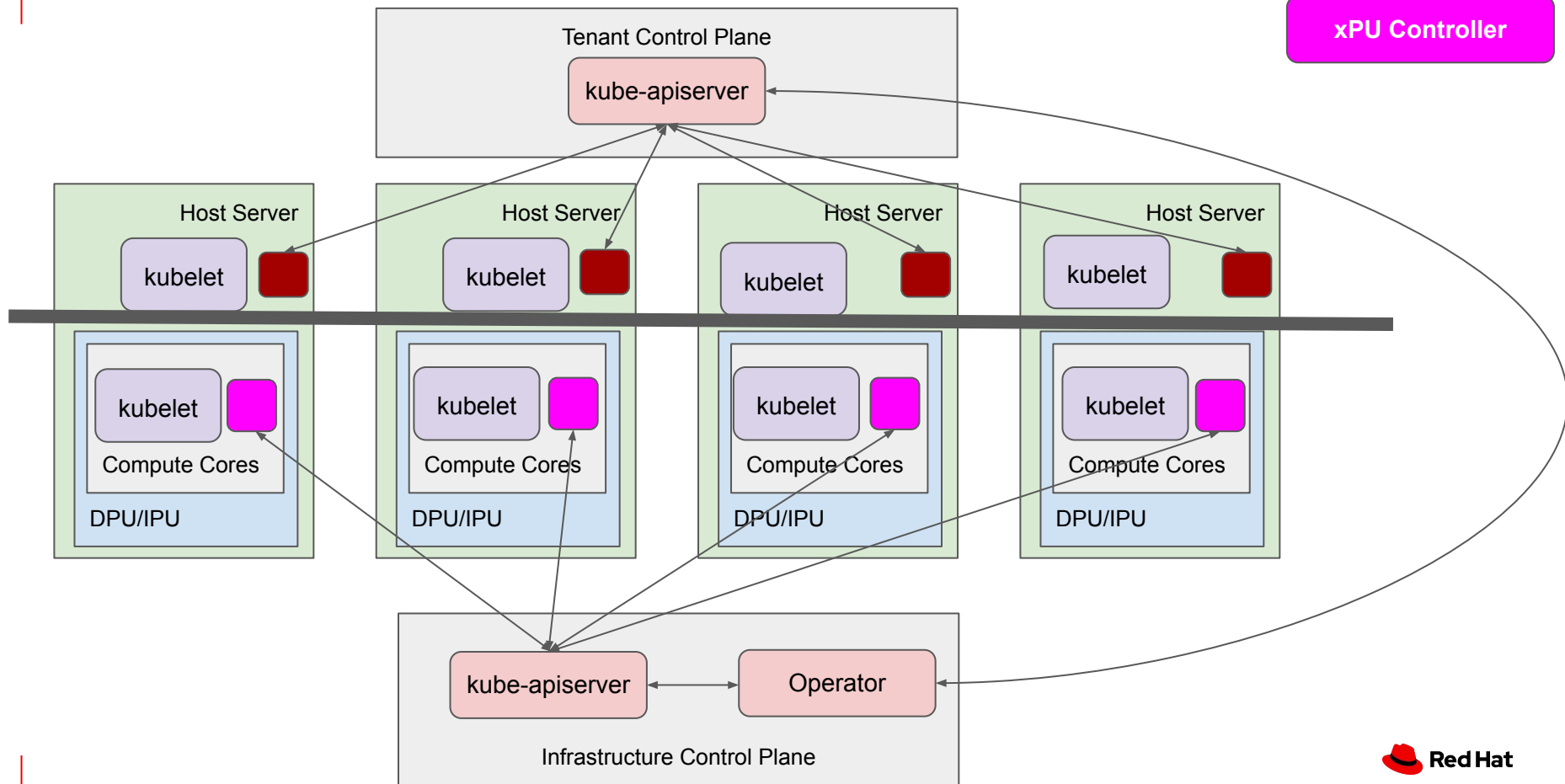
## 2 Cluster Scenario

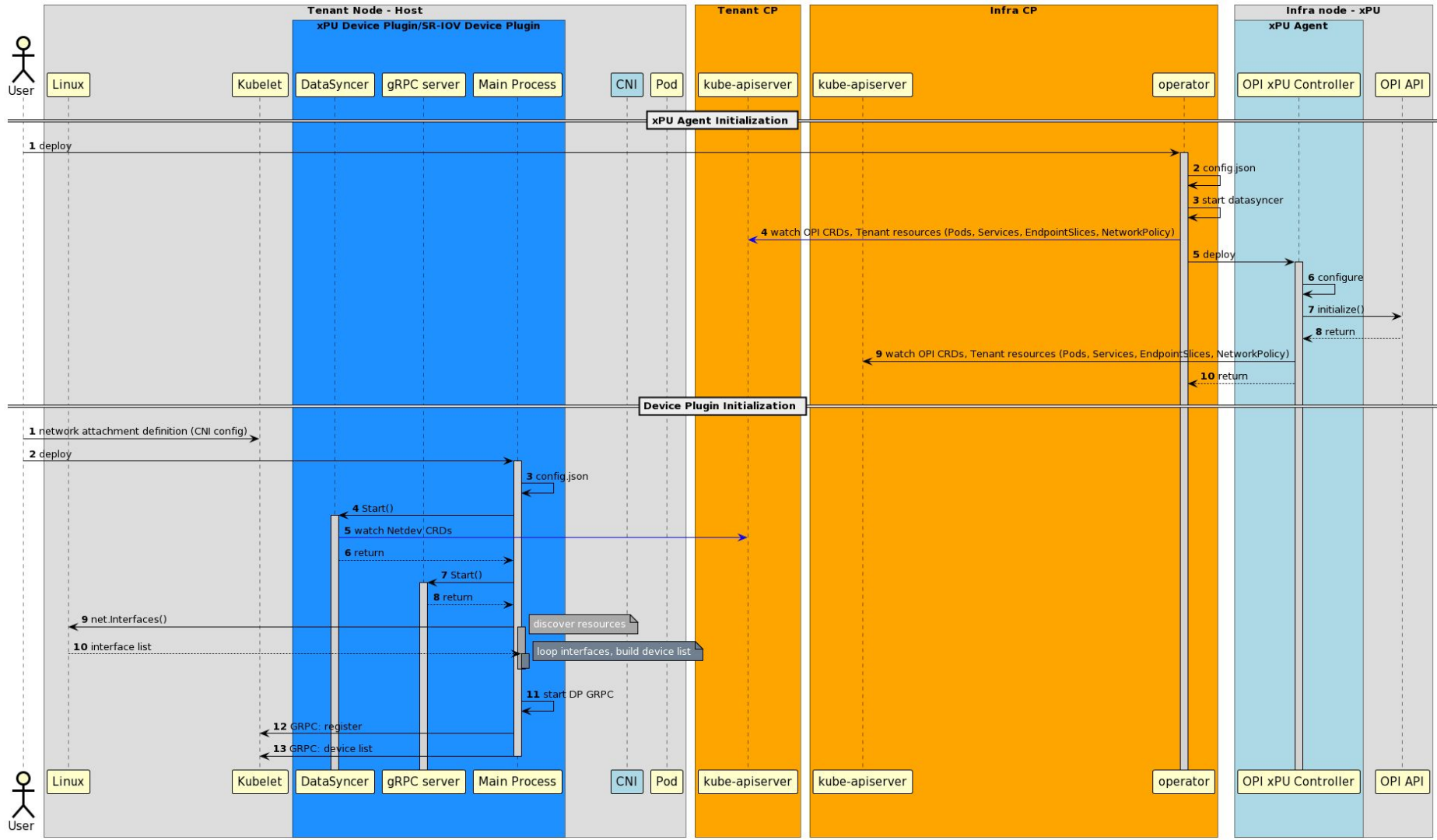


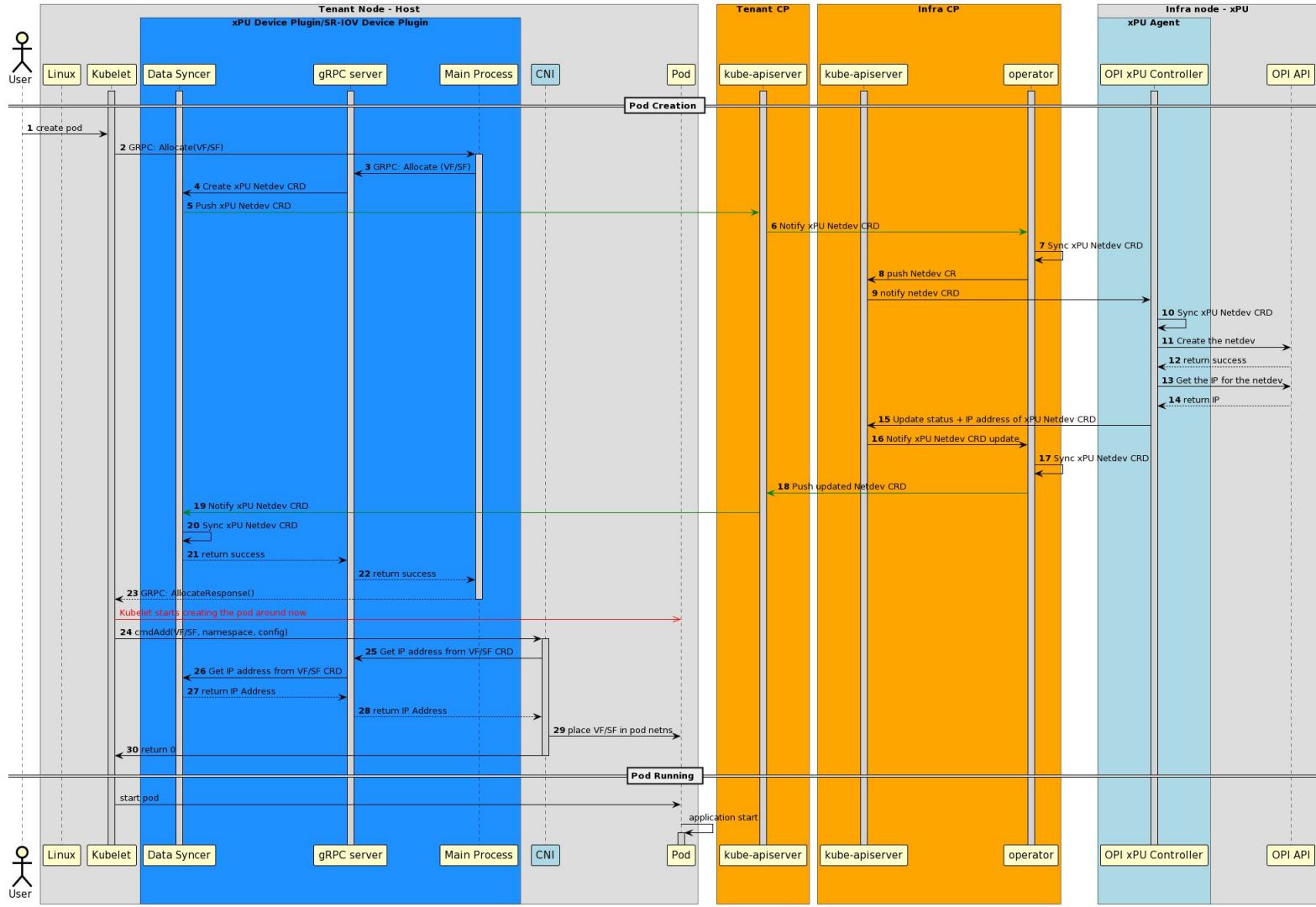
## 2 Cluster Scenario

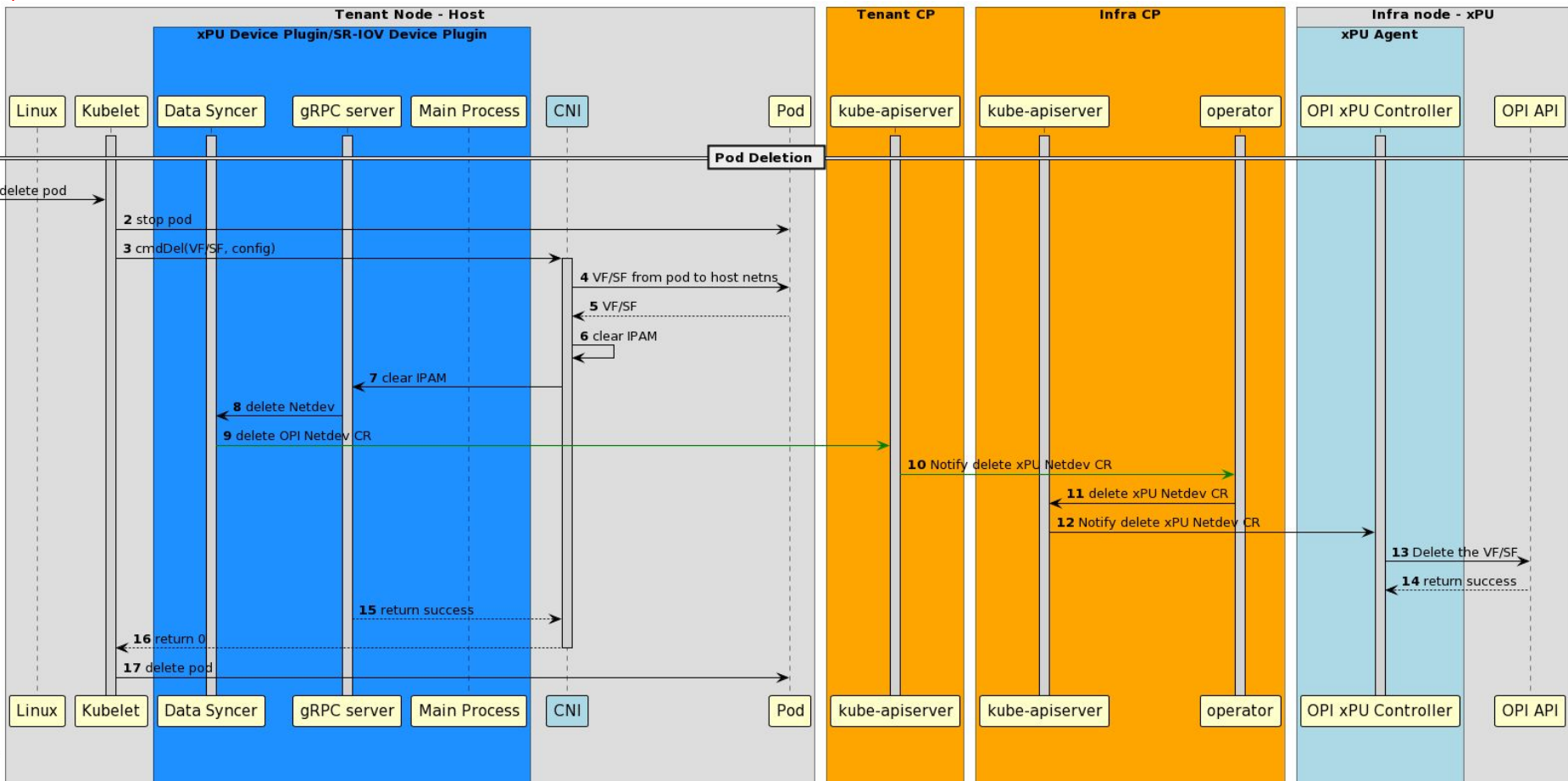
Device Plugin

xPU Controller



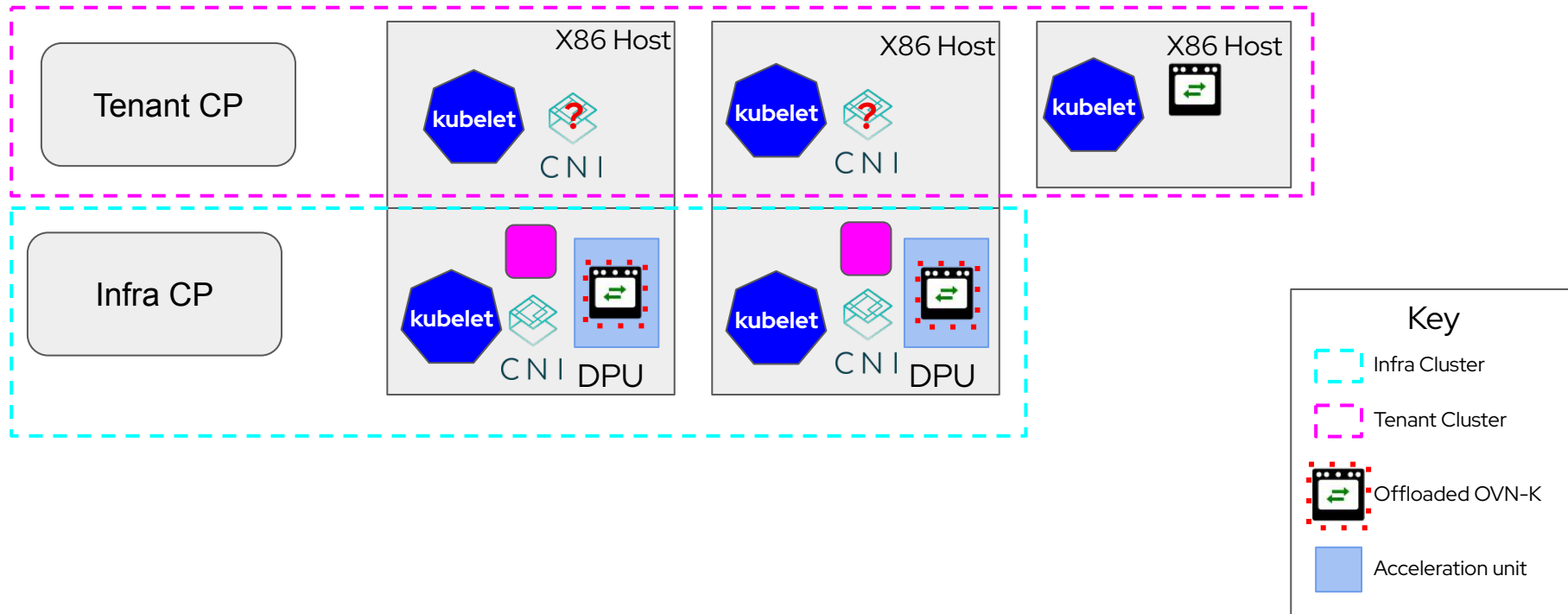




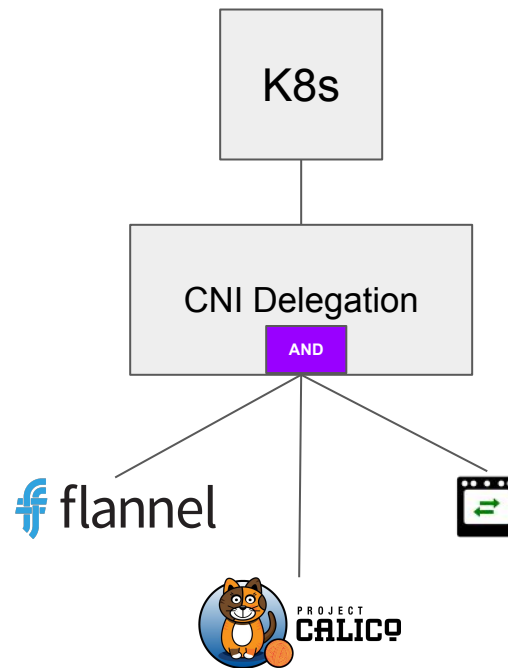
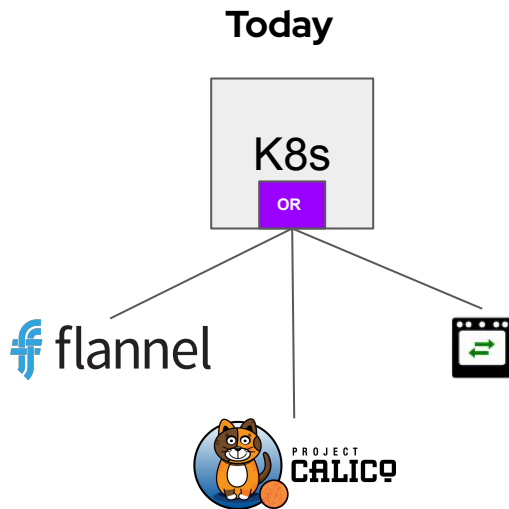


## 2 Cluster Scenario: Tenant networking Offload

xPU Controller



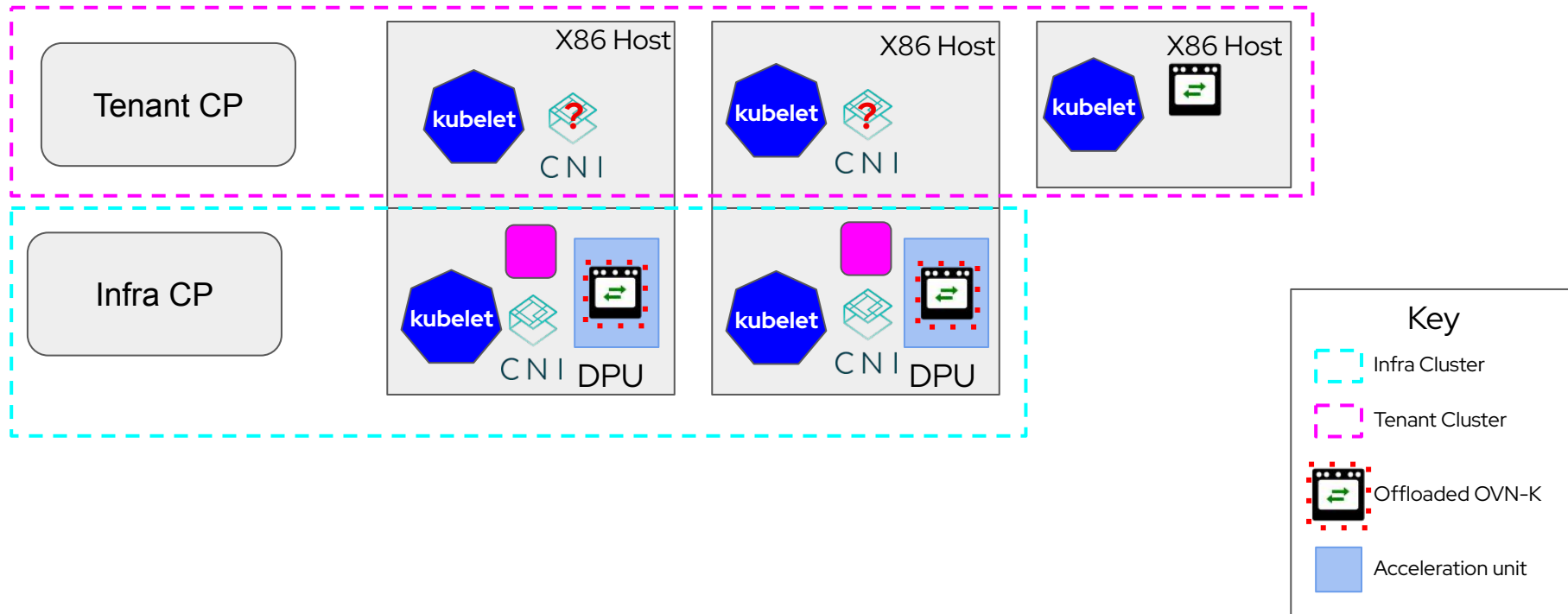
# Kubernetes CNI Delegation?





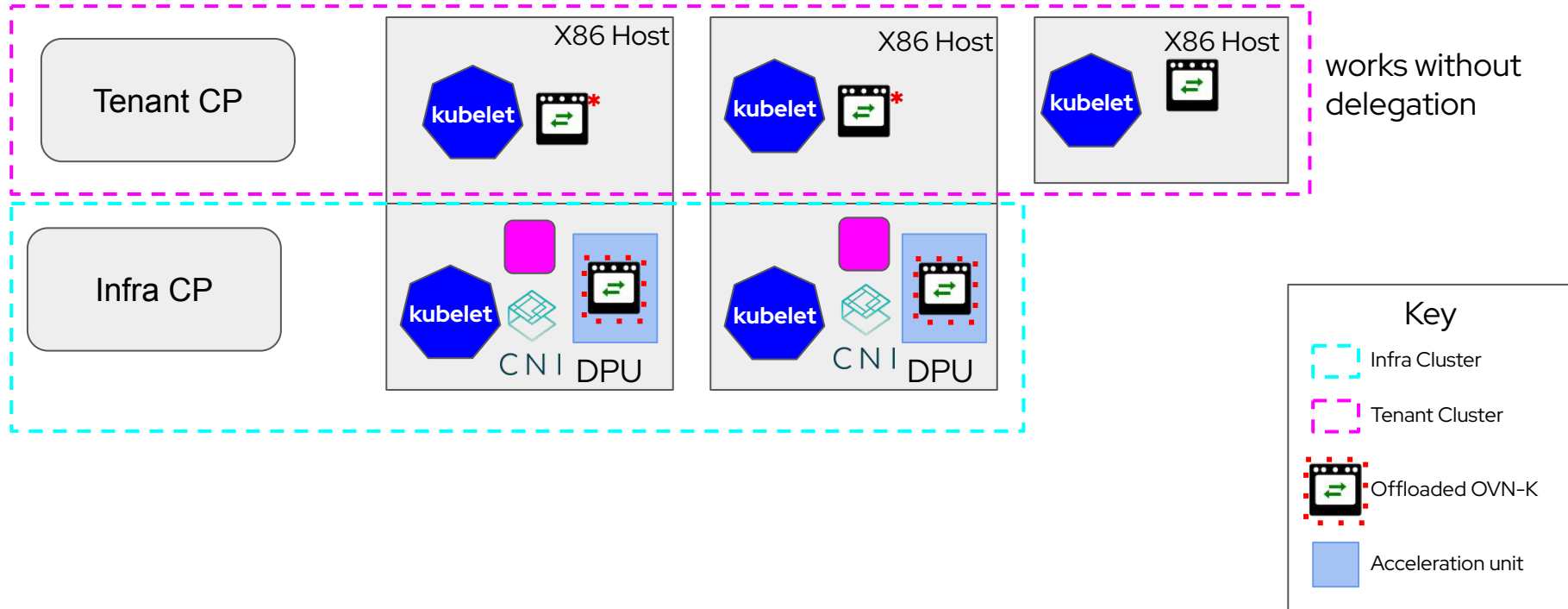
## 2 Cluster Scenario: Tenant networking Offload

xPU Controller



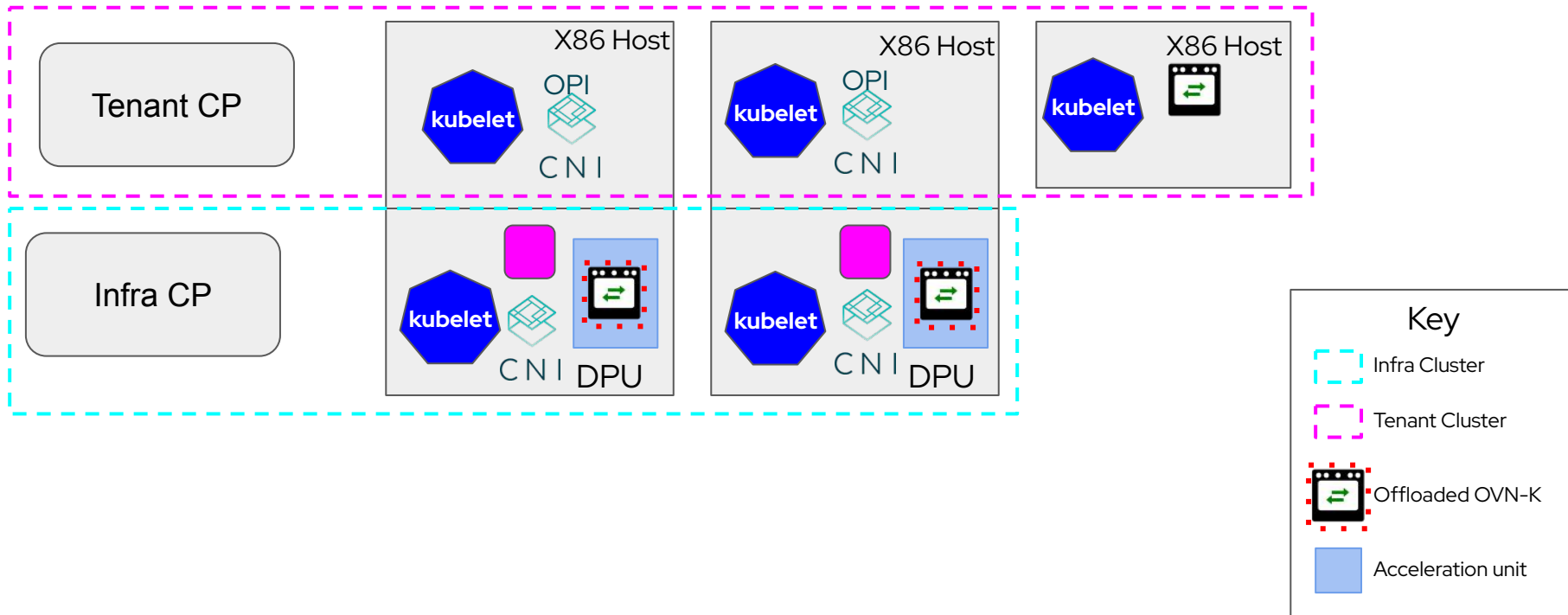
## 2 Cluster Scenario: Tenant CNI - modified brownfield

xPU Controller



## 2 Cluster Scenario: Tenant CNI - OPI CNI

xPU Controller



## Links to sequence diagrams

<https://raw.githubusercontent.com/redhat-et/opi-k8s-networking/4785da899ba23700606c972a65116b6d57a05c13/sequence-diagrams/images/host-provisioning-xPU-VF-pod-creation-host-cni-ipam.png>

<https://raw.githubusercontent.com/redhat-et/opi-k8s-networking/4785da899ba23700606c972a65116b6d57a05c13/sequence-diagrams/images/host-provisioning-xPU-VF-pod-creation-no-host-agent.png>

<https://raw.githubusercontent.com/redhat-et/opi-k8s-networking/4785da899ba23700606c972a65116b6d57a05c13/sequence-diagrams/images/host-provisioning-xPU-VF-pod-deletion-no-host-agent.png>

<https://raw.githubusercontent.com/redhat-et/opi-k8s-networking/4785da899ba23700606c972a65116b6d57a05c13/sequence-diagrams/images/host-provisioning-xPU-VF-init-no-host-agent.png>

<https://raw.githubusercontent.com/redhat-et/opi-k8s-networking/4785da899ba23700606c972a65116b6d57a05c13/sequence-diagrams/images/host-provisioning-xPU-VF-pod-creation.png>

Backup

# Tenant Resources to share with Infrastructure

(Non exhaustive list)

- ▶ Netdev CRD (New)
- ▶ Pod
- ▶ Service: reflecting the services in the tenant cluster.
- ▶ EndpointSlice: reflecting the endpoint slices in the tenant cluster.
- ▶ Network policy: reflecting the network policies in the tenant cluster.