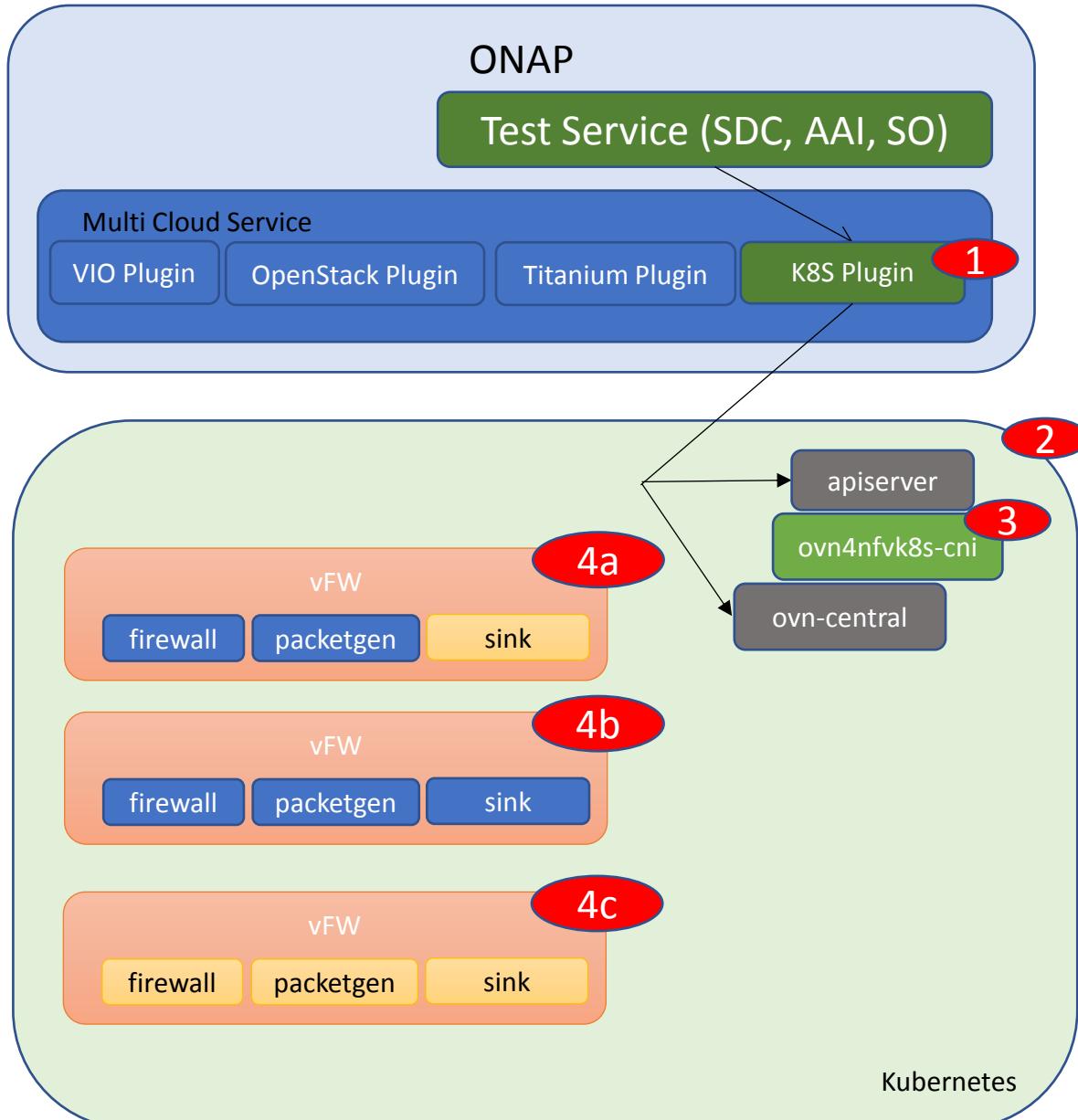


ONAP MultiCloud/K8s Casablanca

Victor Morales

<https://about.me/electrocucaracha>

Casablanca's Accomplishments



1. MultiCloud/K8S plugin (<https://github.com/onap/multicloud-k8s/tree/master/src/k8splugin>)
2. Kubernetes Reference Deployment (<https://github.com/onap/multicloud-k8s/tree/master/vagrant>)
3. OVN4NFVK8S (<https://github.com/opnfv/ovn4nfv-k8s-plugin>)
4. vFirewall Use case:
 - a. Hybrid (https://github.com/onap/multicloud-k8s/blob/master/vagrant/tests/integration_vcFW.sh)
 - b. VMs (https://github.com/onap/multicloud-k8s/blob/master/vagrant/tests/integration_vFW.sh)
 - c. Containers (https://github.com/onap/multicloud-k8s/blob/master/vagrant/tests/integration_cFW.sh)

MultiCloud/K8S plugin

ONAP Multi-Cloud plugin written in Go programming language which offers an API for interacting with Cloud regions supporting Kubernetes.

Requirements:

- Go 1.11
- Docker
- docker-compose

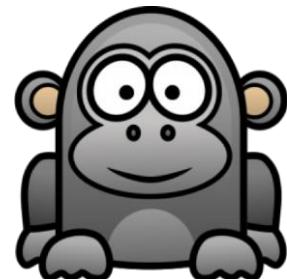


Installation:

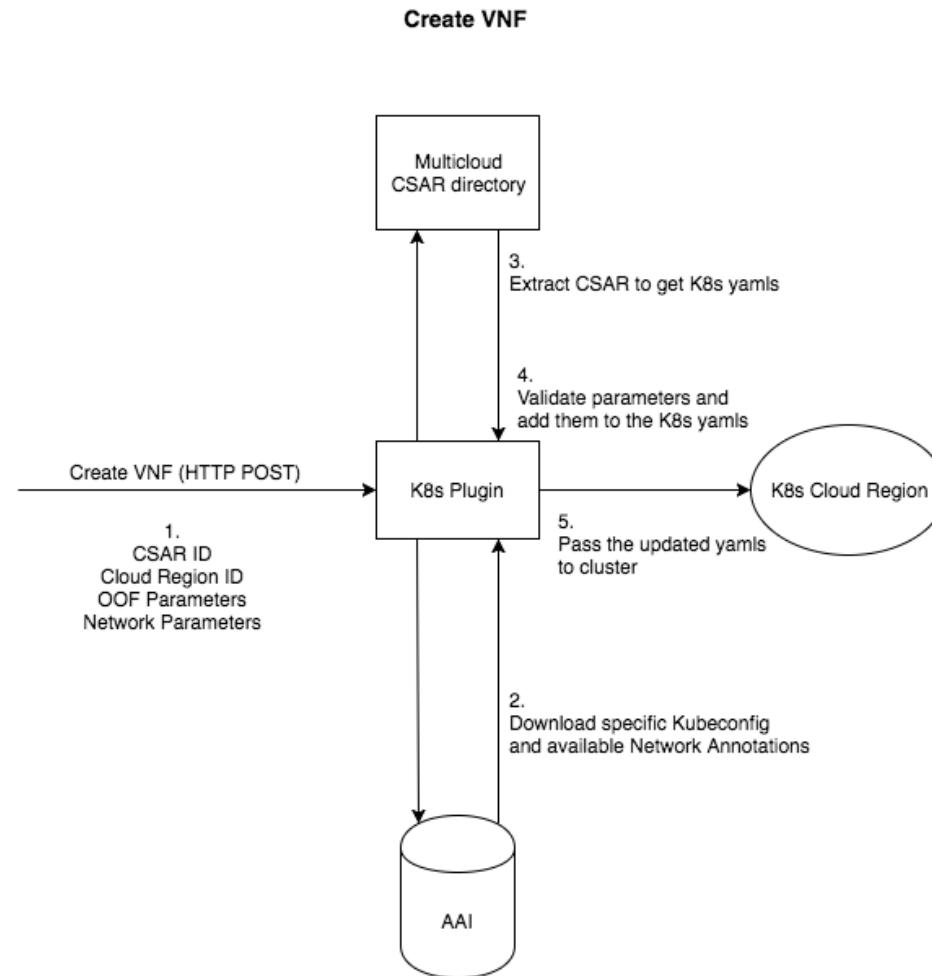
```
$ mkdir -p /opt/{kubeconfig,consul/config}  
$ cp $HOME/.kube/config /opt/kubeconfig/krd  
$ export KUBE_CONFIG_DIR=/opt/kubeconfig  
$ git clone https://git.onap.org/multicloud/k8s/  
$ cd deployments  
$ ./build.sh  
$ docker-compose up -d
```

API

```
POST - /v1/vnf_instances/  
GET - /v1/vnf_instances/{cloudRegionID}/{namespace}  
DELETE - /v1/vnf_instances/{cloudRegionID}/{namespace}/{externalVNFID}  
GET - /v1/vnf_instances/{cloudRegionID}/{namespace}/{externalVNFID}
```

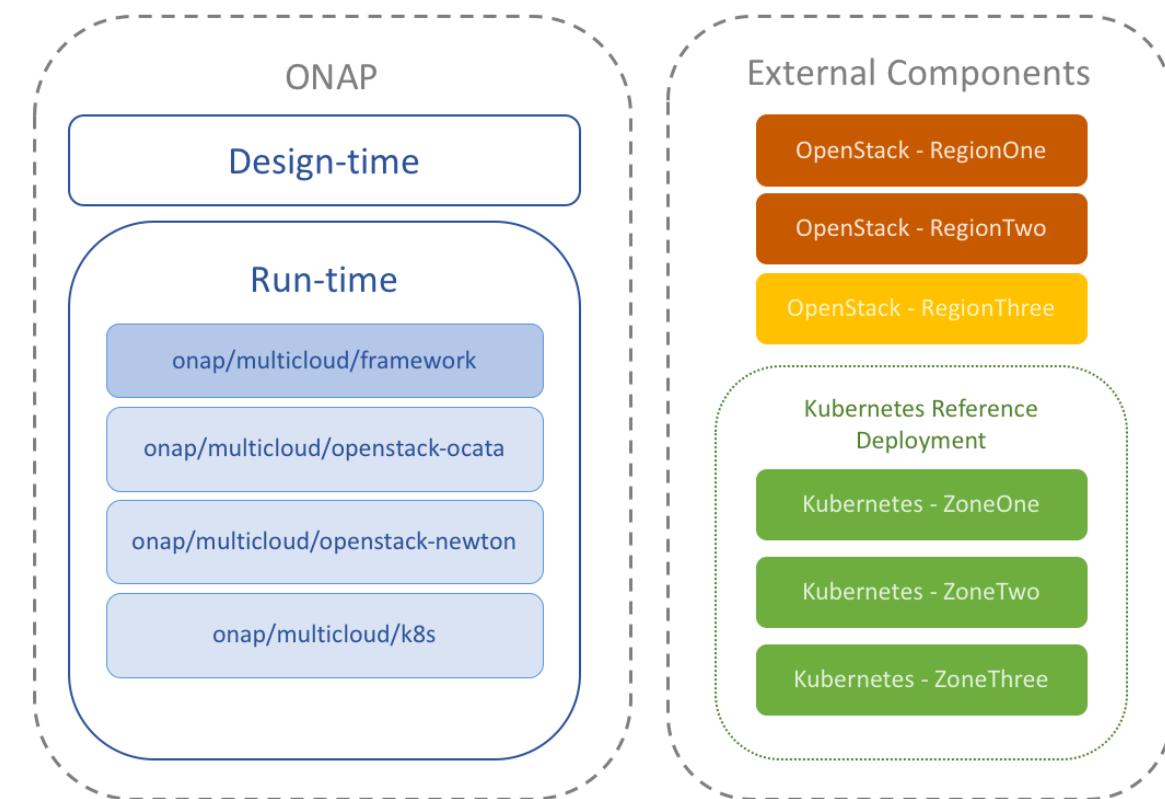


POST - /v1/vnf_instances/

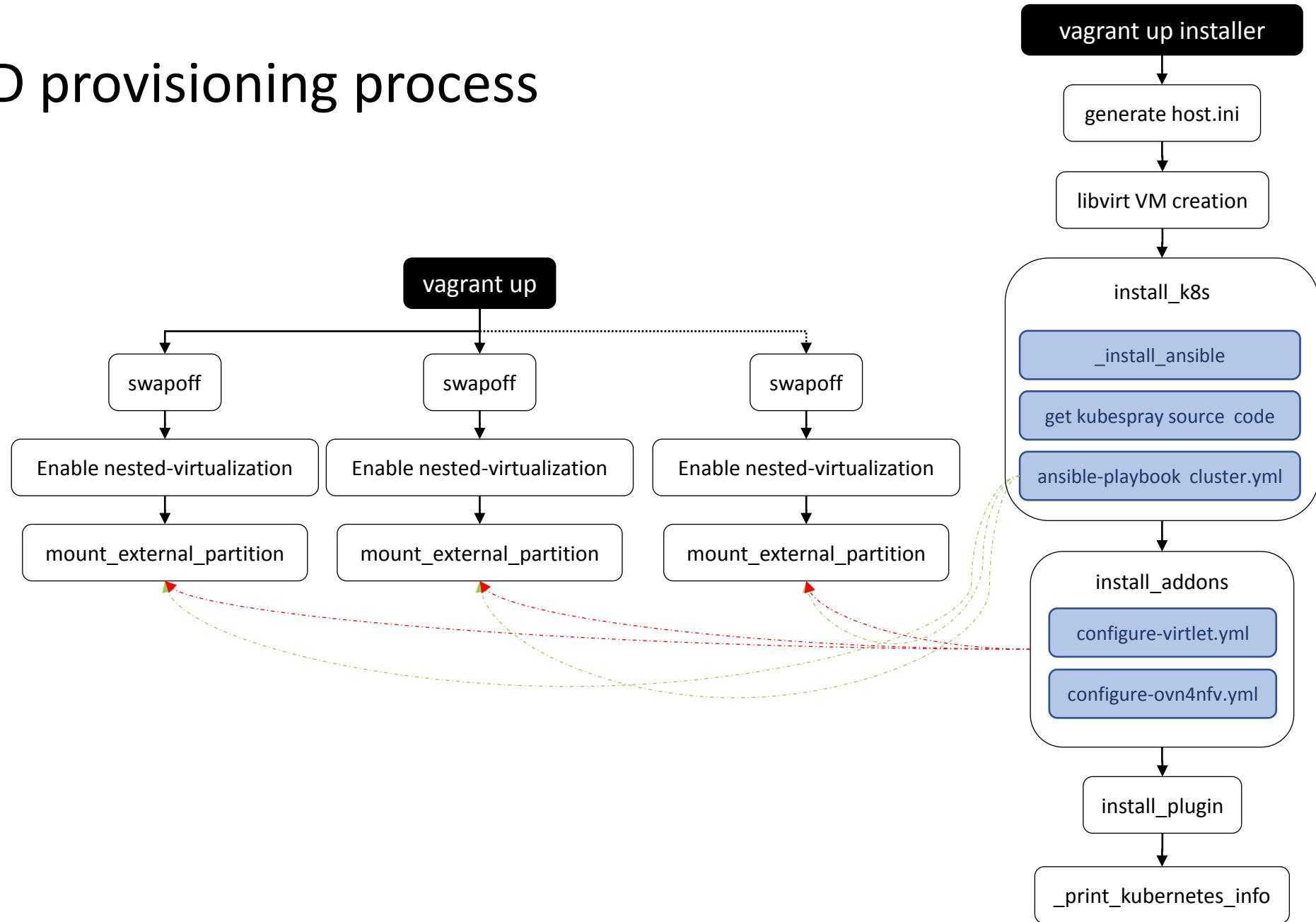


Kubernetes Reference Deployment (KRD)

Offers a reference for deploying a Kubernetes cluster that satisfies the requirements of [ONAP multicloud/k8s plugin](#). Its ansible playbooks allow to provision a deployment on Bare-metal or Virtual Machines.



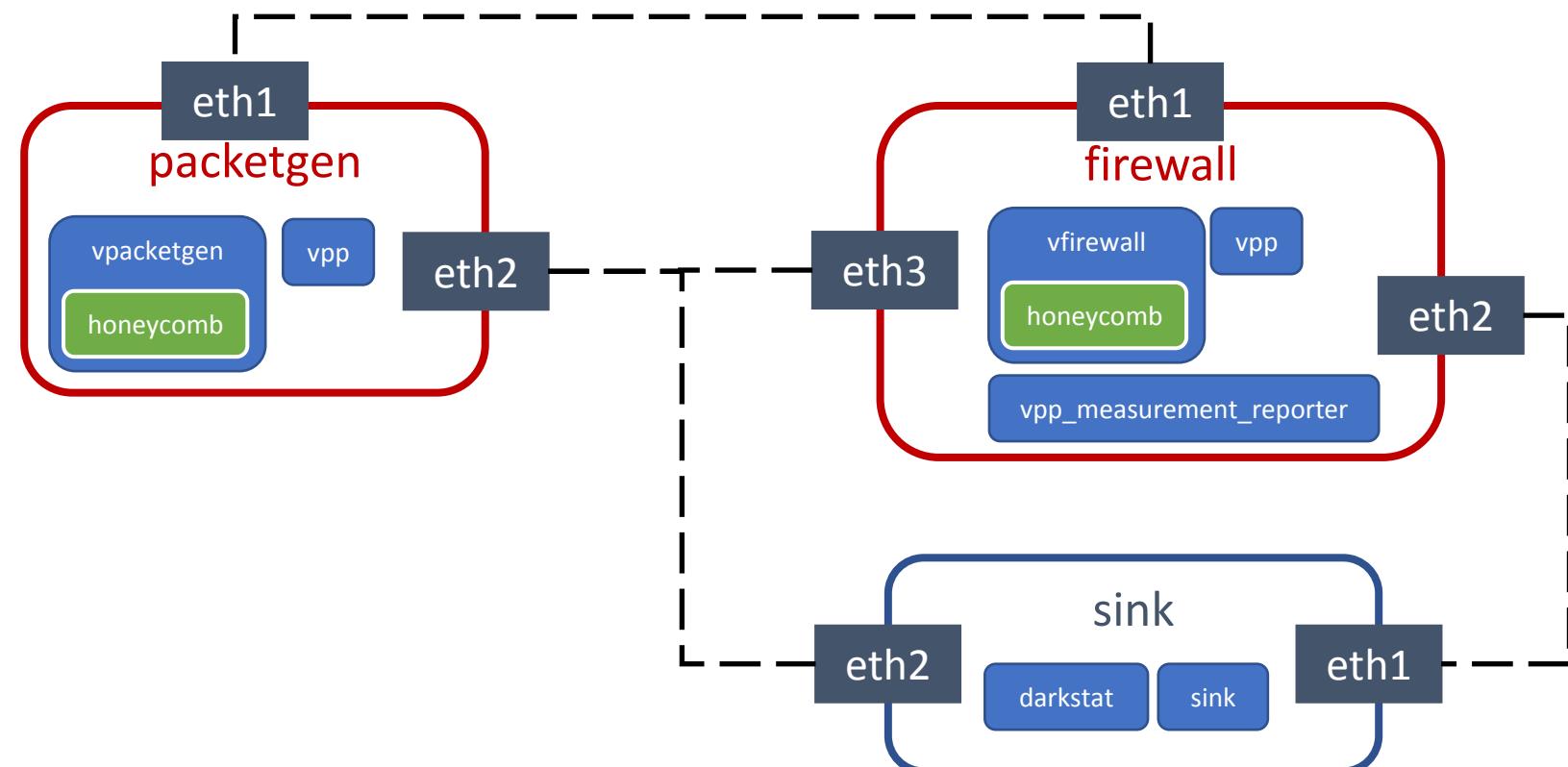
KRD provisioning process



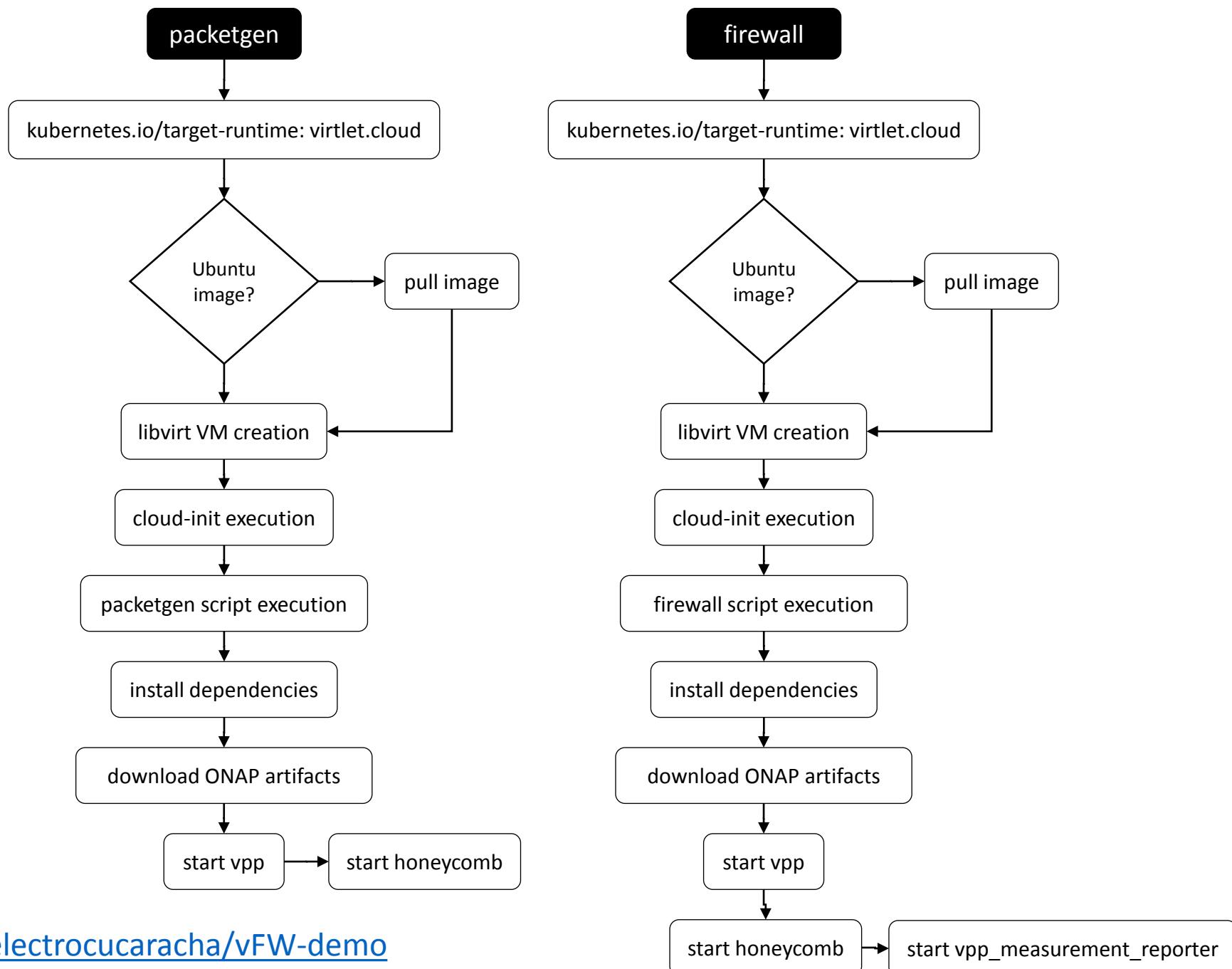
vFirewall ONAP Use Case

It is composed of three virtual functions (VFs):

- **Packet generator:** Sends packets to the traffic sink through the firewall. This includes a script that periodically generates different volumes of traffic.
- **Firewall:** Reports the volume of traffic passing though to the ONAP DCAE collector.
- **Traffic sink:** Displays the traffic volume that lands at the sink using the link <http://192.168.20.250:667> through your browser and enable automatic page refresh by clicking the "Off" button. You can see the traffic volume in the charts.



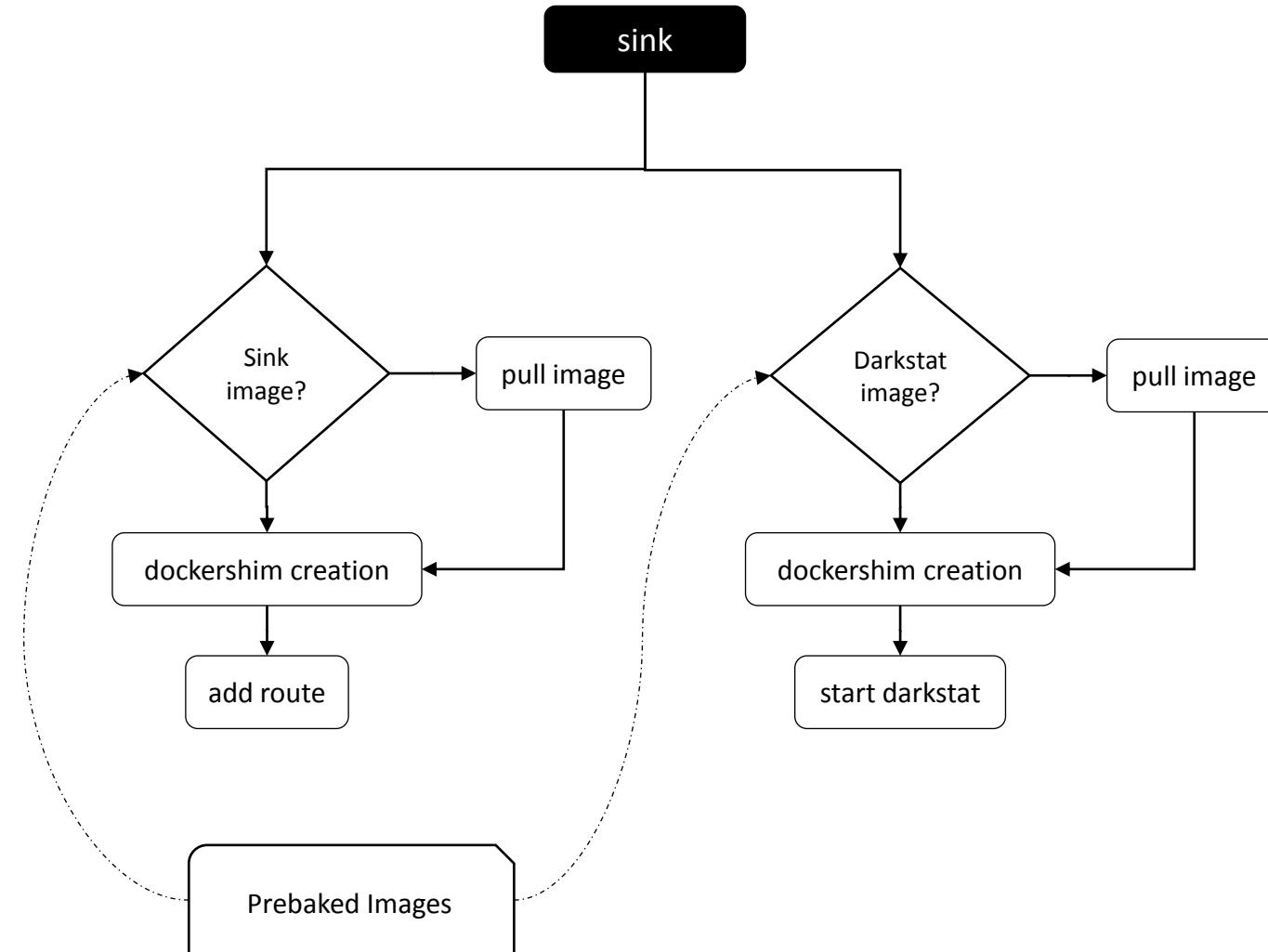
VMs Provisioning

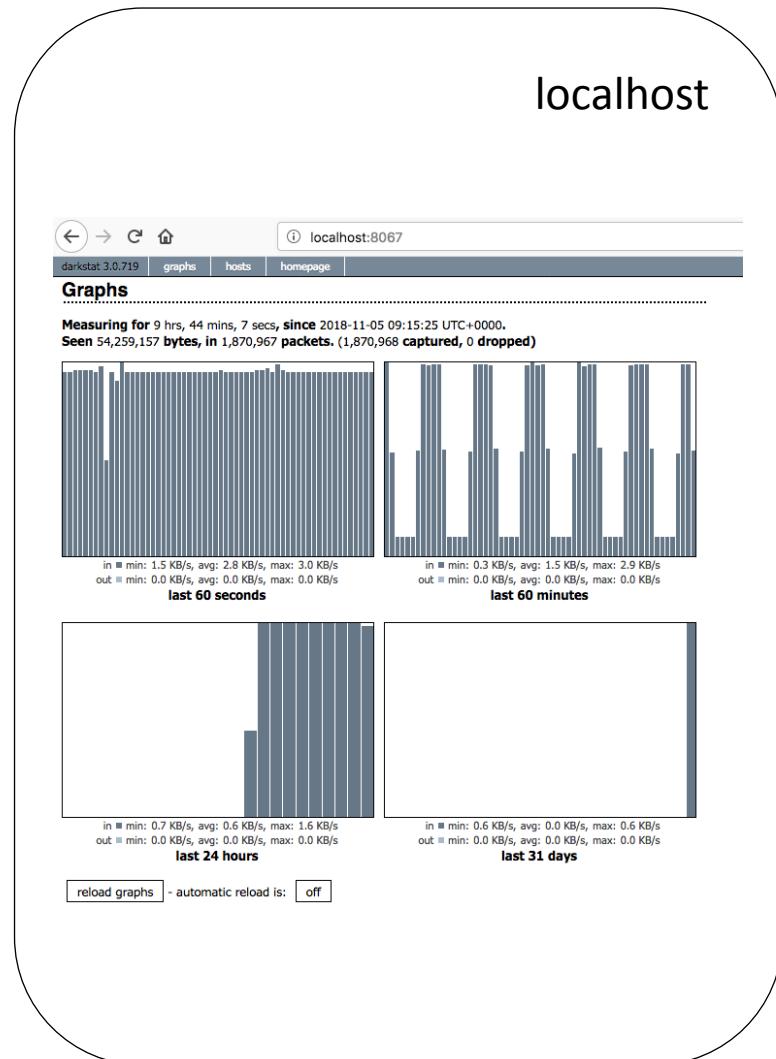


<https://github.com/electrocucaracha/vFW-demo>

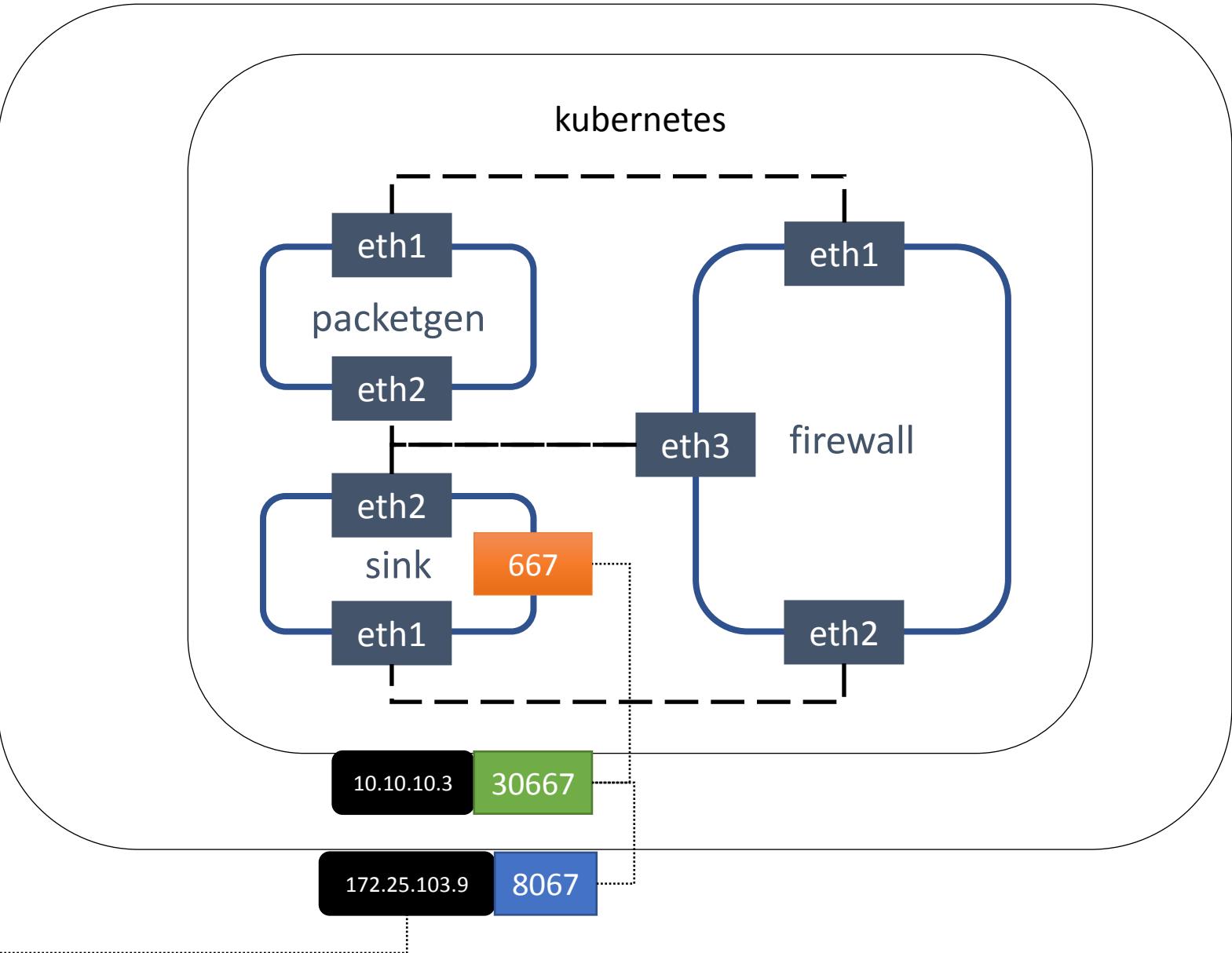
Containers Provisioning

<https://github.com/electrocucaracha/cFW-demo>





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Q & A