

Open Science Data Federation - OSDF

Kubernetes - docker - containers

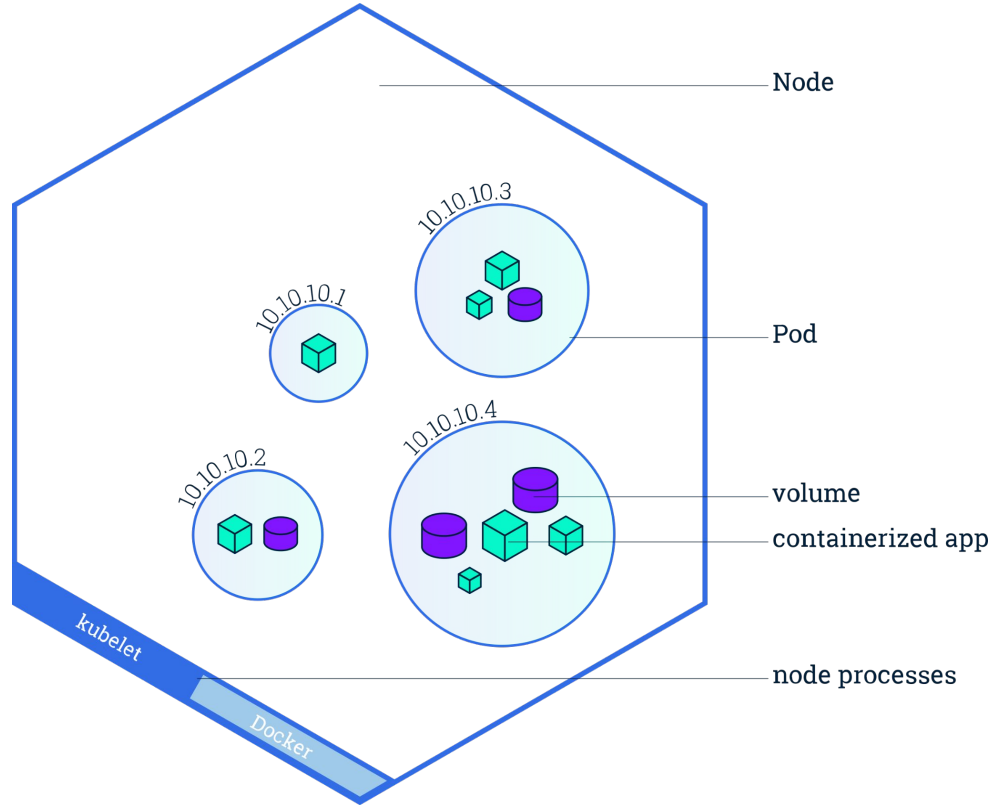
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UCSD

K8S



K8S



K8S - OSDF

- env:

- name: XC_SHOVELER

value: dtn-pas.jack.nrp.internet2.edu:9993

- name: XRDHOST

value: dtn-pas.jack.nrp.internet2.edu

- name: XC_ROOTDIR

value: /xcache

- name: SITENAME

value: JACKSONVILLE_INTERNET2_OSDF_CACHE

- name: XC_RESOURCENAME

value: JACKSONVILLE_INTERNET2_OSDF_CACHE

- name: CACHE_FQDN

value: dtn-pas.jack.nrp.internet2.edu

- name: XC_RAMSIZE

value: 10g

- name: OSG_RESOURCE_NAME

value: SDSC_NRP_OSDF_CACHE

image: opensciencegrid/stash-cache:3.6-release

imagePullPolicy: Always

name: cache

ports:

- containerPort: 1094

K8S

OSDF - cache or origin

Cache/Origin

Shoveler

K8S - OSDF

Good things:

- Easy way to change versions;
- Standard machine monitoring;
- Template to create new hosts;
- Easy form to rebuild the system;
- “Only” 2% overhead

K8S - OSDF

“Bad” things:

- Hostname and certificates (quick pool: who hates certs??)
- “Need” to use HostNetwork
- Log persistence