

Some Important Terms:

- Pods (pod)
- Services (svc)
- ReplicaSet (rs)
- Persistent Volume (pv)
- Persistent Volume Claims (pvc)
- ConfigMaps (cm)
- Secrets
- Deployment (deploy)
- BuildConfig (bc)
- Routes

In OpenShift:

kubectl = oc

Running a Container using oc

Ex.

oc run webserver --rm --restart Always --image [docker.io/httpd](#)

More Options:

- command -- <command>
- restart
  1. Always
  2. OnFailure
  3. Never
- rm

Skopeo

Ex.

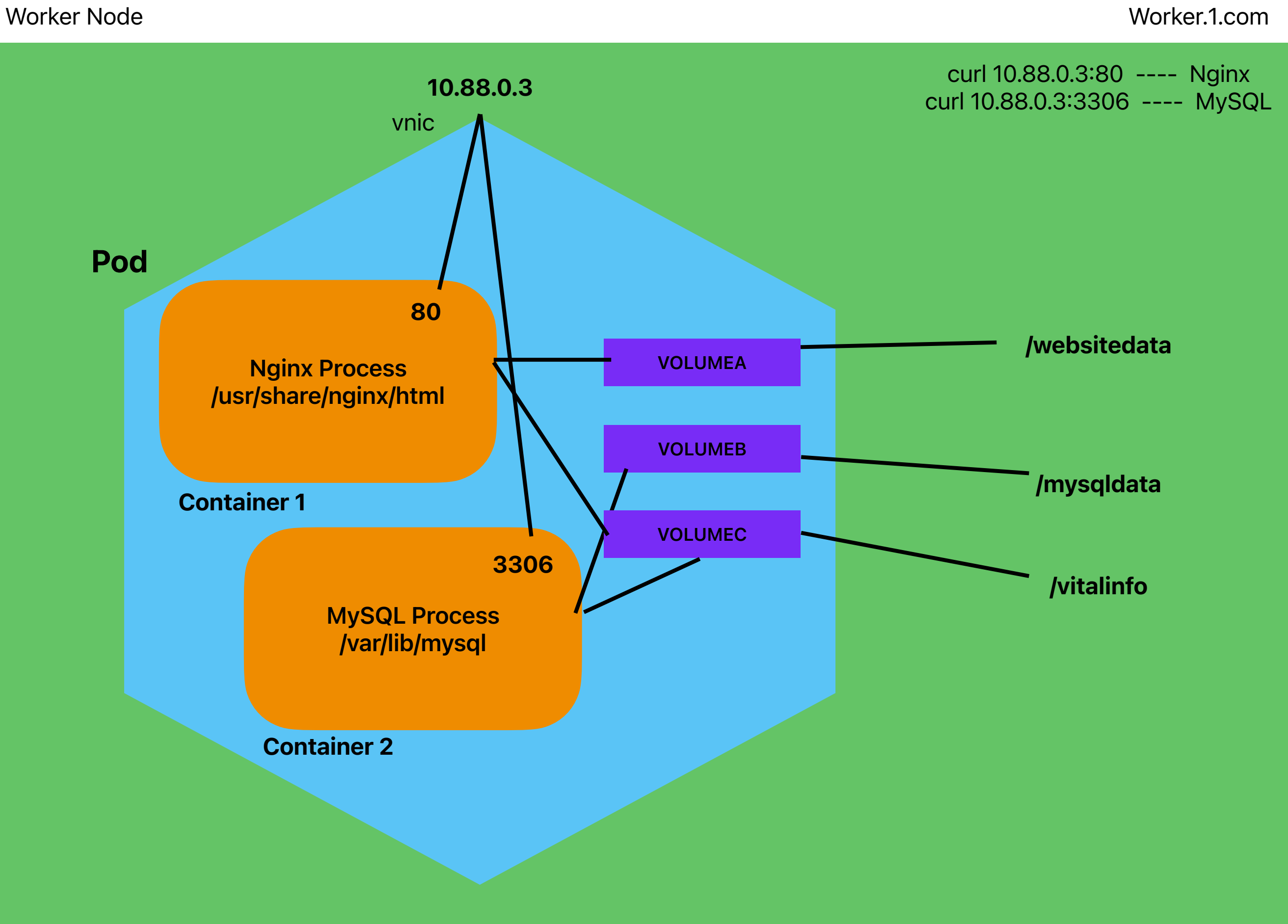
skopeo [docker://quay.io/httpd:latest](#)

Sample Dockerfile / Containerfile

```
FROM      docker.io/centos:centos7
MAINTAINER Deep Shah deep.shah.7677@gmail.com
LABEL     file_info Apache Webserver
ENV       FIRM REDHAT
RUN       yum install httpd -y
WORKDIR   /var/www/html
COPY      ./abc.txt      /var/
CMD       ["/usr/sbin/httpd", "-D", "FOREGROUND"]
```

POD

Group of Containers which share the same network and storage namespace



Pod.yaml

```
apiVersion:v1
kind: Pod
metadata:
  name: webserverpod
  namespace: production
spec:
  nodeName: Worker.1.com
  containers:
    - name: nginxcontainer
      image: docker.io/nginx

    volumeMounts:
      - name: VOLUMEA
        mountPath: /usr/share/nginx/html

    - name: mysqlcontainer
      image: docker.io/mysql
      env:
        - name: MY_ROOT_PASSWORD
          value: redhat
      volumeMounts:
        - name: VOLUMEB
          mountPath: /var/lib/mysql

  volumes:
    - name: VOLUMEA
      hostPath:
        path: /websitedata
        type: Directory

    - name: VOLUMEB
      hostPath:
        path: /mysqldata
        type: Directory
```