

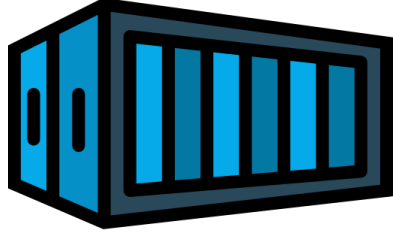
# Kubernetes Dans La Vraie Vie



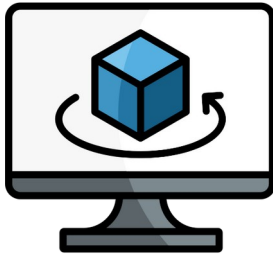
Rappelez moi de démarrer le cluster



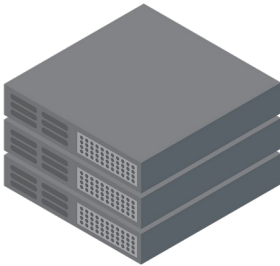
Kubernetes



Containers



Machine Virtuelle

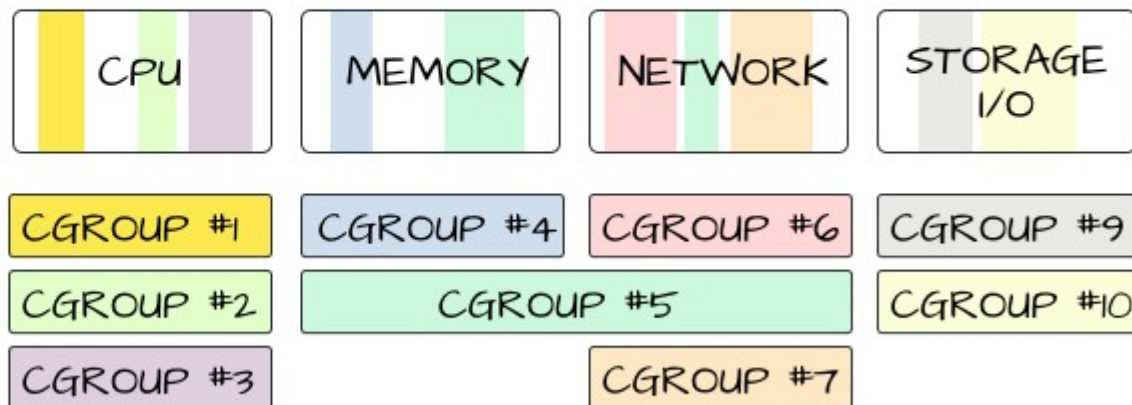


Bare Metal

## Docker Grounds up: Resource Isolation

### Cgroups : Isolation and accounting

- cpu
- memory
- block i/o
- devices
- network
- numa
- freezer



ends up: Reso

## Cgroups .

- cpu
- memory
- block i/o
- devices
- network
- num
- 

WORK

STORAGE  
I/O

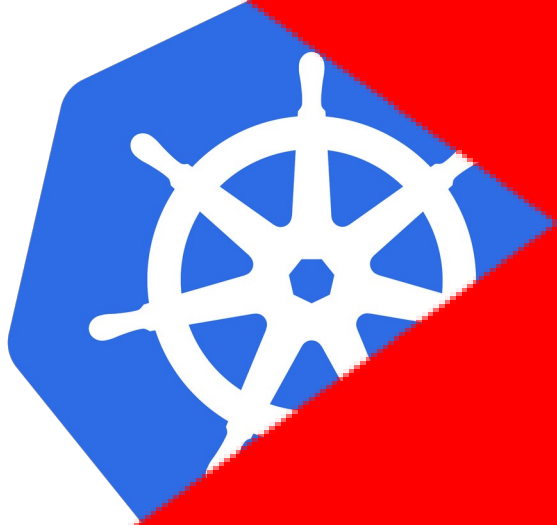
#6

CGROUP #9

CGROUP #10



- Kube API Server
- ETCD
- Kube Scheduler
- Kube Controller Manager
- Kubelet
- Kube Proxy

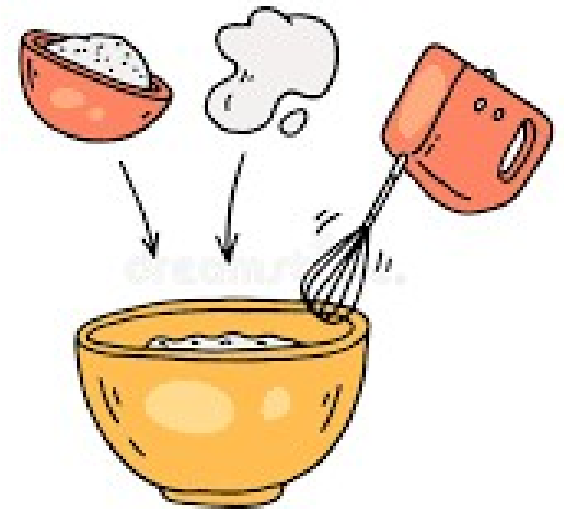


er  
duler  
r Manager  
- Kube P

Déclaratif  
et  
Idempotent

# Impératif

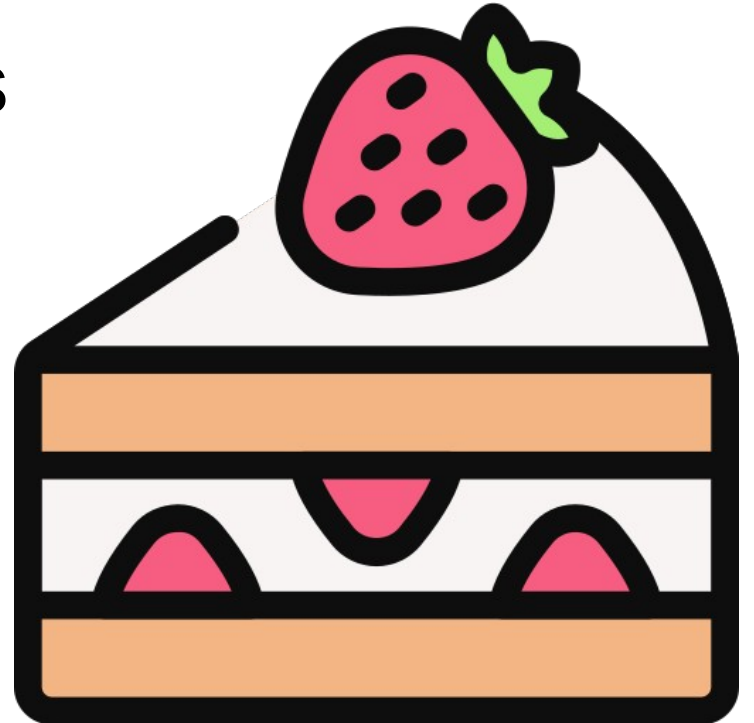
- Peser les ingrédients
- Mélanger les ingrédients
- Ajouter les fraises
- Cuisson du gâteau

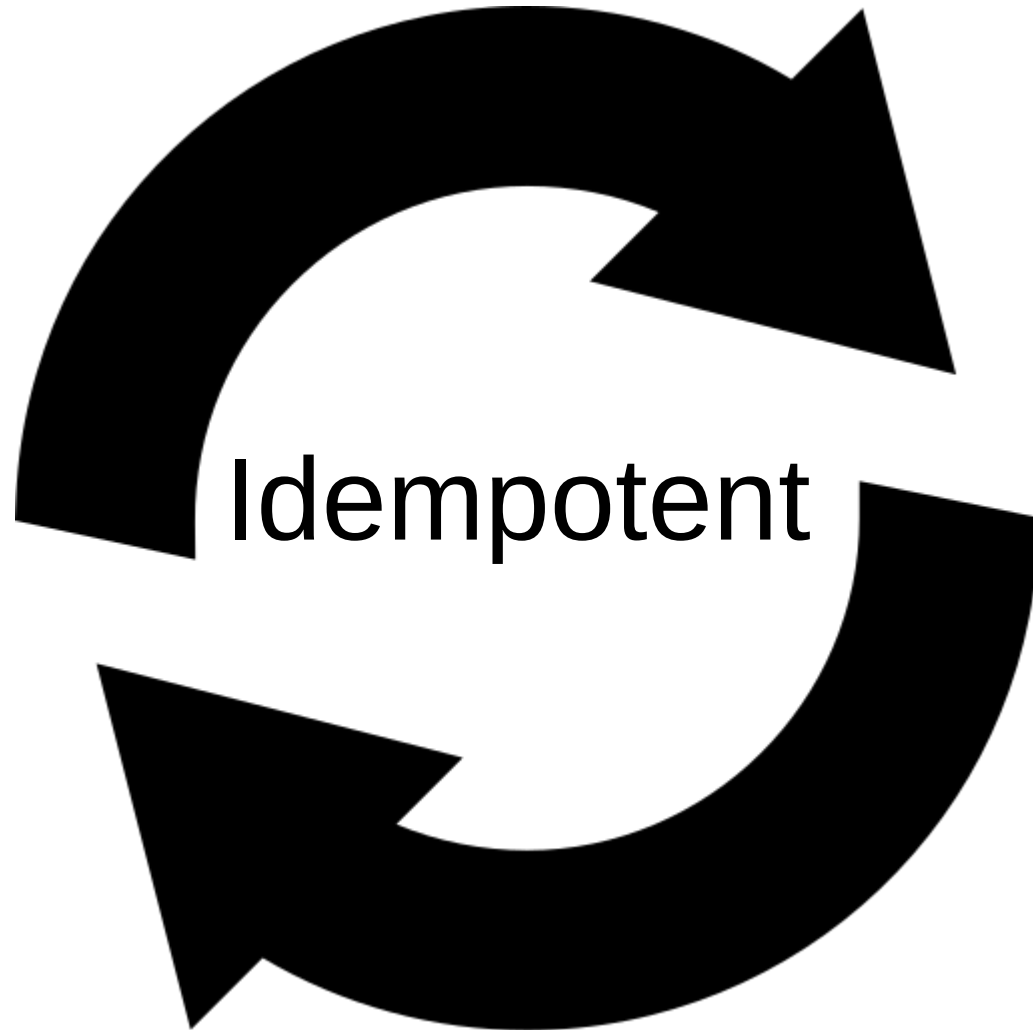




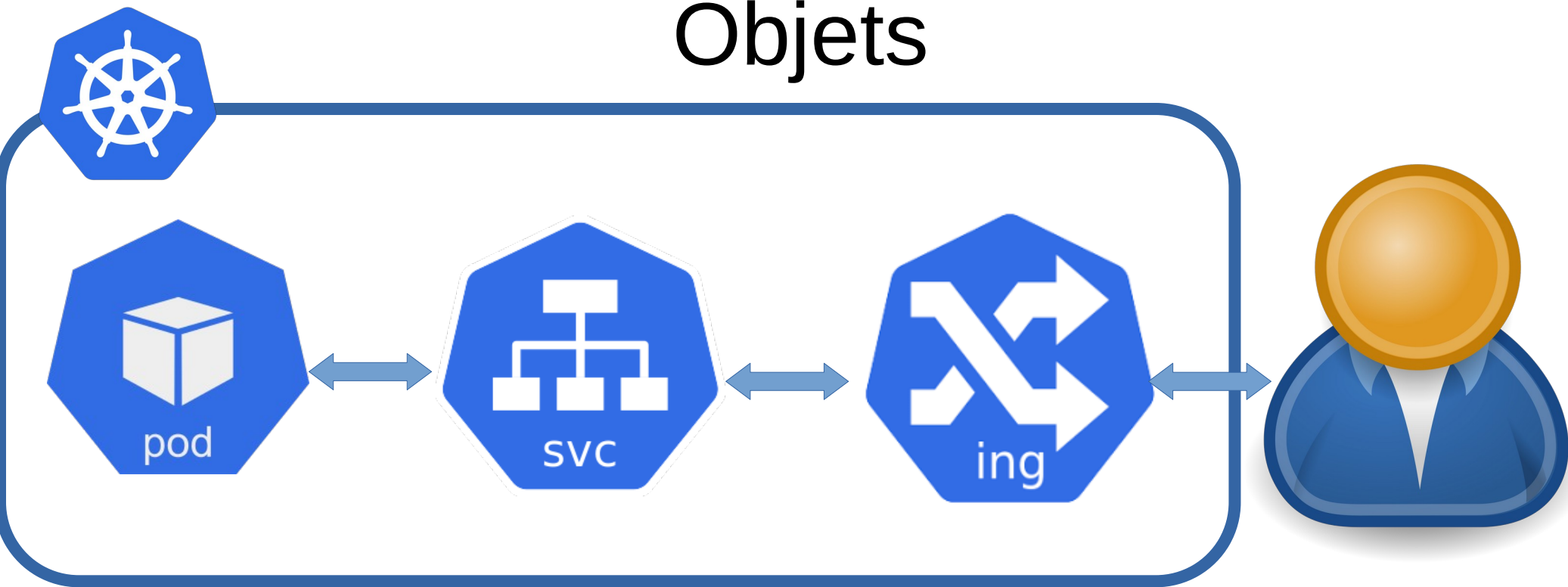
# Déclaratif

- Je veux 1 gâteau aux fraises





# Objets



# Manifestes

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-pod
  namespace: kube-dlvv
spec:
  containers:
    - name: nginx
      image: nginx
      ports:
        - containerPort: 80
```

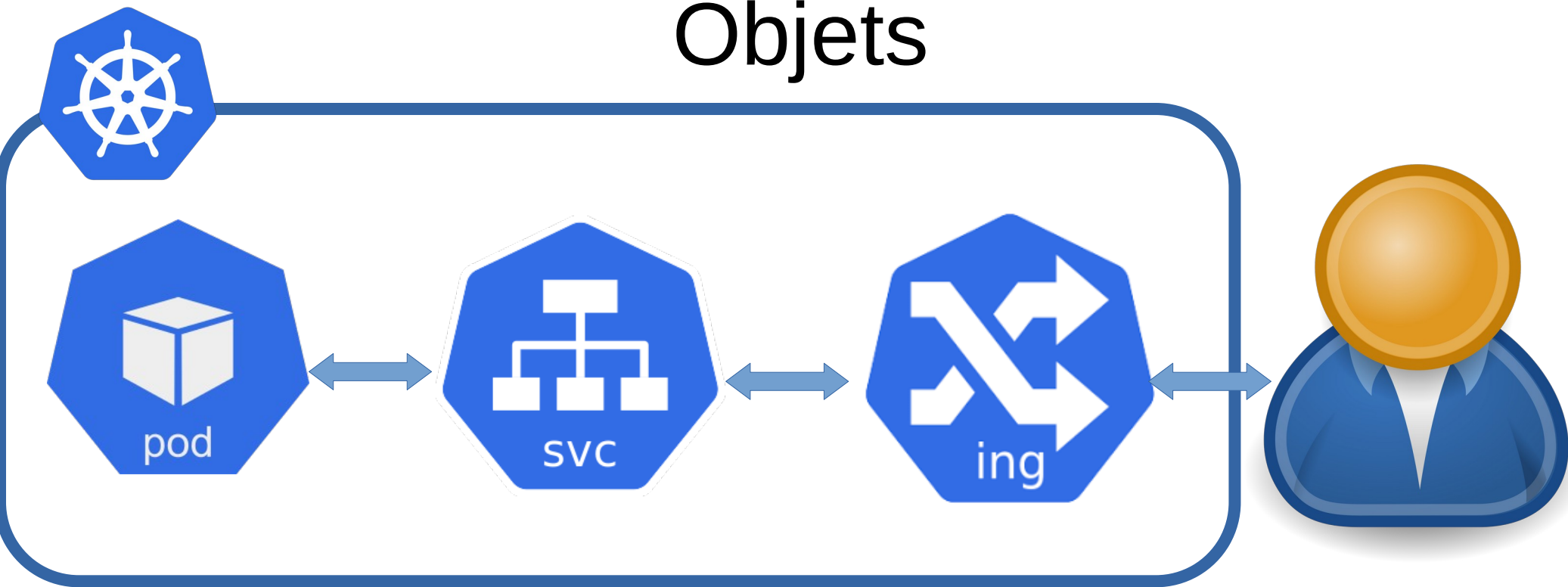
Atelier

# À Retenir

Ce sont vos briques élémentaires :

- Déploiements
- Services
- Ingress
- Configmaps

# Objets



# À Retenir

Verbes Kubectl :

- Get
- Apply
- Delete
- Describe
- Exec



# Aller + loin

- Autres objets : Statefulsets, Volumes, Secrets
- Templatisation et Packaging : Helm
- Extensibilité : Opérateurs et Custom Resource Definitions