

## Namespace

It's like to split environment in slices.

↳ like default, Production, Development

→ Create namespace

kubectl create namespace my-namespace

→ To assign object in a namespace,

- ↳ 1. pass `--namespace=<name>` while running 'kubectl'
- ↳ 2. specify 'namespace' in metadata

## DNS

In same namespace

only name of service

In outside namespace

db-service.dev.svc.cluster.local



## Resource Quota

→ Only for Namespace

```
apiVersion: v1
kind: ResourceQuota
metadata:
  name: compute-quota
  namespace: dev
```

spec:

hard:

pod: "10"

requests.cpu: "4"

requests.memory: 5Gi

limits.cpu: "10"

limits.memory: 10Gi

Note

If quota is enabled in a namespace for compute resources like cpu and memory, users must specify requests or limits for those values; otherwise, the quota system may reject pod creation.

Each container template of each pod definition must have this spec

```
resources:
  requests:
    memory: "10Gi"
    cpu: "500m"
  limits:
    memory: "10Gi"
    cpu: "500m"
```

We can also create priorityClasses, check this URL

<https://kubernetes.io/docs/concepts/policy/resource-quotas/#resource-quota-per-priorityclass>