5. Object - Namespace, ResourceQuota, LimitRange

Namespace


```
apiVersion: v1
kind: Namespace
metadata:
    name: nm-1
```

```
apiVersion: v1
kind: Namespace
metadata:
    name: nm-2
```

```
apiVersion: v1
kind: Pod
metadata:
    name: pod-1
    namespace: nm-1
    labels:
       nm: pod1
spec:
    containers:
    ...
```

```
apiVersion: v1
kind: Service
metadata:
    name: svc-1
    namespace: nm-2
spec:
    selector:
       nm: pod1
    ports:
    ....
```

ResourceQuota


```
apiVersion: v1
kind: ResourceQuota
metadata:
    name: rq-1
    namespace: nm-1
spec:
    hard:
       requests.memory: 3Gi
       limits.memory: 6Gi
```
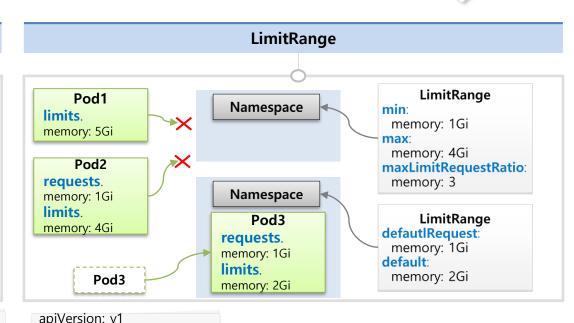
```
apiVersion: v1
kind: Pod
metadata:
    name: pod-2
spec:
    containers:
    - name: container
      image:
tmkube/app
      resources:
         requests:
            memory: 2Gi
         limits:
            memory: 2Gi
```

Compute Resource : cpu, memory, storage
Objects Count : Pod, Service, ConfigMap, PVC, ...

LimitRange


```
apiVersion: v1
kind: LimitRange
metadata:
    name: lr-1
    namespace: nm-1
spec:
    limits:
    - type: Container
      min:
         memory: 1Gi
      max:
         memory: 4Gi
      defaultRequest:
         memory: 1Gi
      default:
         memroy: 2Gi
      maxLimitRequestRatio:
         memory: 3
```