Manage Container in Kubernetes

Manage Container Resources

Container Resources

➔ **Resource Request**

➔ **Resource Limit**

➔ **Hands-On Demonstration**

Resource Request

➢ Resource request allows user to define a resource limit, user expect a container to use.

➢ Kube Scheduler will manage resource request and avoid scheduling on node, which don't have enough resources.

➢ *Note : Containers are allowed to use more or less than the request resource. Resource Request is to manage the scheduling only.*

Resource Request

➤ Memory is measure in Bytes. User is allowed to define in MegaByte as well.

➤ Requests for CPU resources are measured in cpu units. 1 vCPU means 1000 CPU Unit.

```yaml
apiVersion: v1
kind: Pod
metadata:
 name: frontend
spec:
 containers:
 - name: app
   image: nginx
   resources:
    requests:
     memory: "64Mi"
     cpu: "250m"
```

Resource Limit

➢ Resource Limits used to Limit the container's resource uses.

➢ Limits are imposed at RunTime Container.

```
apiVersion: v1
kind: Pod
metadata:
 name: frontend
spec:
 containers:
 - name: app
   image: nginx
   resources:
    limits:
     memory: "128Mi"
     cpu: "500m"
```

Hands On Demonstration

Thank You...

Don't be the Same! Be Better!!!