**4: Create Pods with YAML**

---Reference - <https://github.com/stacksimplify/kubernetes-fundamentals/tree/master/07-PODs-with-YAML>

--- **note** - we are going to create pods with yml and also will crate nodeport service for pods.

Kubernetes YAML Top level Objects

**Discuss about the k8s YAML top level objects**

--- **kube-base-definition.yml**

apiVersion:

kind:

metadata:

spec:

--- **note** – in kubernetes everything is an object, the core objects are pods, ReplicaSet, Deployment, service and more.

--- Pod API Objects Reference: https://kubernetes.io/docs/reference/generated/kubernetes-api/v1.18/#pod-v1-core

**Create Simple Pod Definition using YAML**

--- **note** - We are going to create a very basic pod definition

--- **pod-definition.yml**

apiVersion: v1 # String

kind: Pod # String

metadata: # Dictionary

  name: myapp-pod

  labels: # Dictionary

    app: myapp

spec:

  containers: # List

    - name: myapp

      image: stacksimplify/kubenginx:1.0.0

      ports:

        - containerPort: 80

--- **note** – spec: containers – under this you can define multiple containers that is why containers as a list object.

**Create Pod**

**# Create Pod**

--- **kubectl create -f 02-pod-definition.yml**

[or]

**kubectl apply -f 02-pod-definition.yml**

**# List Pods**

--- **kubectl get pods**