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Basic Pod YAML Example
apiVersion: v1
kind: Pod
metadata:
  name: mypod
spec:
  containers:
    - name: nginx-container
      image: nginx
      ports:
        - containerPort: 80
Pod Template
✓ What is a Pod Template?
    A Pod Template is the Pod definition that is used inside other resources
like:
        Deployments
        ReplicaSets
        Jobs
        DaemonSets
    It's not a standalone object. It's used to define how Pods should be
created.
Pod Template Example (inside a Deployment)
apiVersion: apps/v1
kind: Deployment
metadata:
  name: nginx-deploy
spec:
  replicas: 3
  selector:
    matchLabels:
      app: nginx
  template:
                  # 👈 Pod Template starts here
    metadata:
      labels:
        app: nginx
    spec:
      containers:
        - name: nginx
          image: nginx:latest
apiVersion: v1
kind: Pod
metadata:
  name: labeled-pod
  labels:
    app: web
    env: dev
spec:
```

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containers:
    - name: web-container
      image: nginx
Pod with Environment Variables
apiVersion: v1
kind: Pod
metadata:
  name: env-pod
spec:
  containers:
    - name: app-container
      image: busybox
      command: ["sh", "-c", "echo Hello $MY_NAME && sleep 3600"]
      env:
        - name: MY_NAME
          value: "DevOps Student"
Pod with Volume Mount
apiVersion: v1
kind: Pod
metadata:
  name: volume-pod
spec:
  containers:
    - name: volume-container
      image: nginx
      volumeMounts:
        - name: html
          mountPath: /usr/share/nginx/html
  volumes:
    - name: html
      hostPath:
        path: /data/html
Multi-container Pod (Sidecar Pattern)
apiVersion: v1
kind: Pod
metadata:
  name: sidecar-pod
spec:
  containers:
    - name: main-container
      image: nginx
    - name: sidecar
      image: busybox
      command: ["sh", "-c", "while true; do echo Hello; sleep 5; done"]
Pod with Resource Limits
apiVersion: v1
kind: Pod
metadata:
  name: limited-pod
spec:
  containers:
```

- name: app image: nginx resources: requests:
 memory: "64Mi"
 cpu: "250m"
limits:

memory: "128Mi" cpu: "500m"