

```
---  
apiVersion: v1  
kind: Pod  
metadata:  
  name: my-pod  
spec:  
  containers:  
    - name: nginx  
      image: nginx  
  
---  
apiVersion: apps/v1  
kind: ReplicaSet  
metadata:  
  name: my-replicaset  
spec:  
  replicas: 2  
  selector:  
    matchLabels:  
      app: myapp  
  template:  
    metadata:  
      labels:  
        app: myapp  
    spec:  
      containers:  
        - name: nginx  
          image: nginx  
  
---  
apiVersion: apps/v1  
kind: Deployment  
metadata:  
  name: my-deployment  
spec:  
  replicas: 2  
  selector:  
    matchLabels:  
      app: myapp  
  template:  
    metadata:  
      labels:  
        app: myapp  
    spec:  
      containers:  
        - name: nginx  
          image: nginx  
  
---  
apiVersion: apps/v1  
kind: StatefulSet  
metadata:  
  name: web  
spec:  
  serviceName: "nginx"  
  replicas: 2  
  selector:  
    matchLabels:  
      app: nginx  
  template:  
    metadata:  
      labels:  
        app: nginx  
    spec:  
      containers:  
        - name: nginx
```

```

image: nginx
volumeMounts:
  - name: www
    mountPath: /usr/share/nginx/html
volumeClaimTemplates:
- metadata:
  name: www
  spec:
    accessModes: [ "ReadWriteOnce" ]
    resources:
      requests:
        storage: 1Gi

---
apiVersion: v1
kind: Service
metadata:
  name: my-service
spec:
  selector:
    app: myapp
  ports:
    - protocol: TCP
      port: 80
      targetPort: 80

---
apiVersion: networking.k8s.io/v1
kind: Ingress
metadata:
  name: example-ingress
spec:
  rules:
    - host: example.com
      http:
        paths:
          - path: /
            pathType: Prefix
            backend:
              service:
                name: my-service
                port:
                  number: 80

---
apiVersion: v1
kind: ConfigMap
metadata:
  name: my-config
data:
  key: value

---
apiVersion: v1
kind: Secret
metadata:
  name: my-secret
type: Opaque
data:
  password: cGFzc3dvcmQ= # base64 encoded "password"

---
apiVersion: rbac.authorization.k8s.io/v1
kind: Role
metadata:
  name: pod-reader

```

```
rules:
- apiGroups: [ "" ]
  resources: [ "pods" ]
  verbs: [ "get", "watch", "list" ]

---
apiVersion: v1
kind: Namespace
metadata:
  name: my-namespace
```