



Pod YAML



POD YAML

```
kubectl run --generator=run-pod/v1 nginx-pod --image=nginx  
pod/nginx-pod created
```

```
cat nginx-pod.yaml
```

```
apiVersion: v1  
kind: Pod  
metadata:  
  name: nginx-pod  
  labels:  
    app: nginx  
    tier: dev  
spec:  
  containers:  
  - name: nginx-container  
    image: nginx  
    env:  
    - name: DEMO_GREETING  
      value: "Hello from the environment"  
    ports:  
    - containerPort: 80
```

POD YAML – API VERSION

```
cat nginx-pod.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-pod
  labels:
    app: nginx
    tier: dev
spec:
  containers:
  - name: nginx-container
    image: nginx
    env:
    - name: DEMO_GREETING
      value: "Hello from the environment"
    ports:
    - containerPort: 80
```

`apiVersion:` **GROUP_NAME/VERSION**

`apiVersion:` `v1`

`apiVersion:` `apps/v1`

`apiVersion:` `rbac.authorization.k8s.io/v1`

`apiVersion:` `batch/v1`

`apiVersion:` `batch/v1beta1`

`apiVersion:` `extensions/v1beta1`

POD YAML – KIND

```
cat nginx-pod.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-pod
  labels:
    app: nginx
    tier: dev
spec:
  containers:
  - name: nginx-container
    image: nginx
    env:
    - name: DEMO_GREETING
      value: "Hello from the environment"
    ports:
    - containerPort: 80
```

Kind

Pod

ReplicationController

Service

Secret

ServiceAccount

PersistentVolume

PersistentVolumeClaim

ConfigMap

Namespace

ComponentStatus

Kind

ReplicaSet

Deployment

DaemonSet

StatefulSet

Role

RoleBinding

ClusterRole

ClusterRoleBinding

Job

CronJob

POD YAML – METADATA

```
cat nginx-pod.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-pod
  labels:
    app: nginx
    tier: dev
spec:
  containers:
  - name: nginx-container
    image: nginx
    env:
    - name: DEMO_GREETING
      value: "Hello from the environment"
    ports:
    - containerPort: 80
```

POD YAML – SPEC

```
cat nginx-pod.yaml
```

```
apiVersion: v1
kind: Pod
metadata:
  name: nginx-pod
  labels:
    app: nginx
    tier: dev
spec:
  containers:
  - name: nginx-container
    image: nginx
    env:
    - name: DEMO_GREETING
      value: "Hello from the environment"
    ports:
    - containerPort: 8080
```

KIND VS API-VERSION

Kind	API Version
Pod	v1
ReplicationController	v1
Service	v1
Secret	v1
ServiceAccount	v1
PersistentVolume	v1
PersistentVolumeClaim	v1
ConfigMap	v1
Namespace	v1
ComponentStatus	v1

Kind	API Version
ReplicaSet	apps/v1
Deployment	apps/v1
DaemonSet	apps/v1
StatefulSet	apps/v1

Kind	API Version
Job	batch/v1

Kind	API Version
CronJob	batch/v1beta1

Kind	API Version
Role	rbac.authorization.k8s.io/v1
RoleBinding	rbac.authorization.k8s.io/v1
ClusterRole	rbac.authorization.k8s.io/v1
ClusterRoleBinding	rbac.authorization.k8s.io/v1