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How to create and change the Kubernetes yaml using dry-run and edit



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indentation issue or we are lazy to create a whole file or we may experience it is time consuming work. What if we say, you no need to type complete file, instead you can run *kubectrl* command, it can create the files for you...!!! Yes, you can use *kubectrl run* and *kubectrl create* with the *-dry-run=client* flag for creating pods and deployments it should give the skeleton file. Let's check with some examples, so it will be easy to understand.

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Create a basic NGINX Pod

Here is the command we use to run the sample Nginx pod with *kubectl*.

```
# kubectl run nginx --image=nginx
```

This will create a nginx pod on the cluster.

```
# kubectl get pods
```

NAME	READY	STATUS	RESTARTS	AGE
nginx	1/1	Running	0	34s

As this is quite easy to run the command, but what if need to document the changes in IAC or any place for future purpose? We should keep as *yaml*, this should be tricky for the newbies or beginners.

```
# kubectl run nginx --image=nginx --dry-run=client -o yaml
```

This will output a yaml file you can then apply/create or update as needed.

```
apiVersion: v1
kind: Pod
metadata:
  creationTimestamp: null
  labels:
    run: nginx
  name: nginx
spec:
  containers:
  - image: nginx
    name: nginx
    resources: {}
  dnsPolicy: ClusterFirst
  restartPolicy: Always
status: {}
```

Create a deployment

```
# kubectl create deployment --image=nginx nginx
```

This creates a deployment without needing to go fetch a deployment yaml.

```
# kubectl get deployments
```

NAME	READY	UP-TO-DATE	AVAILABLE	AGE
nginx	1/1	1	1	34s

As like before for pods, we can try below command for deployment.

```
# kubectl create deployment --image=nginx nginx --dry-run=client -o  
yaml
```

This will give you a template for creating a deployment.

```
apiVersion: apps/v1  
kind: Deployment  
metadata:  
  creationTimestamp: null  
  labels:  
    app: nginx  
  name: nginx  
spec:  
  replicas: 1  
  selector:  
    matchLabels:  
      app: nginx  
  strategy: {}  
  template:  
    metadata:  
      creationTimestamp: null  
      labels:  
        app: nginx  
    spec:  
      containers:  
        - image: nginx  
          name: nginx  
          resources: {}  
status: {}
```

As we see now, the files are just shown on the command line, we can redirect that to file, as below.

```
# kubectl create deployment --image=nginx nginx --dry-run=client -o  
yaml > nginx-deployment.yaml
```

With this you can make any changes, like number of replicas or change any image name/version using your favorite edition like *vim*.

So far, we have seen, how to create new one, but another challenge we may have been, we may need to make the change on the fly or existing running pods or deployments. For that *kubectl* contains *edit*, which you can use to make quick updates to your yaml. For example, after applying the previously created file:

```
# kubectl apply -f nginx-deployment.yaml  
deployment.apps/nginx created
```

You can directly edit the deployment yaml as follows:

```
# kubectl edit deployment/nginx
```

Please be informed, any changes you make using *kubectl edit* won't be applied directly to the yaml file, it's just making changes on the running resource. If you wish record the changes, you should make an entry on yaml directly and use *kubectl apply*. Check the difference between *kubectl apply* and *kubectl create* on <https://foxutech.com/kubectl-apply-vs-kubectl-create/>

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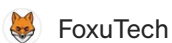
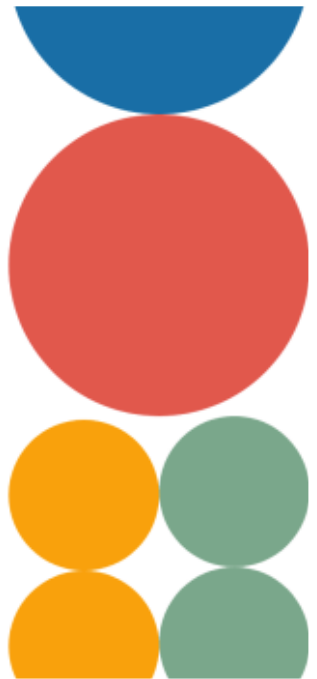
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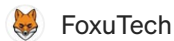


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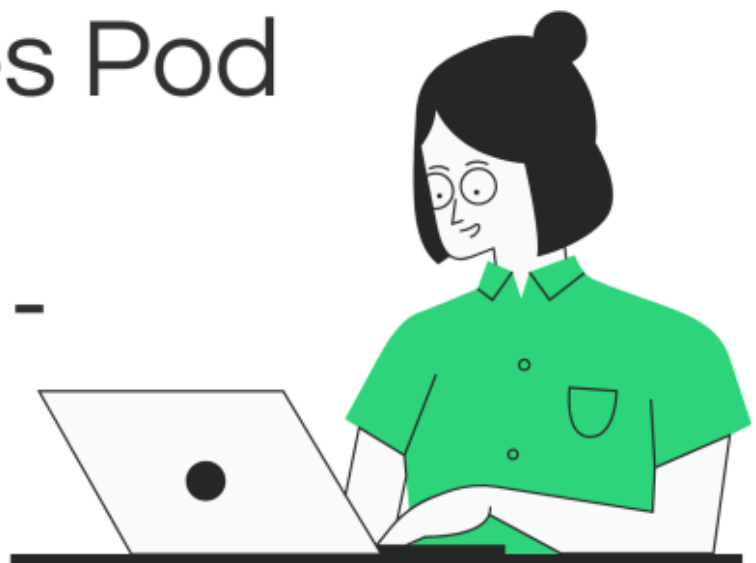


kubect apply -f



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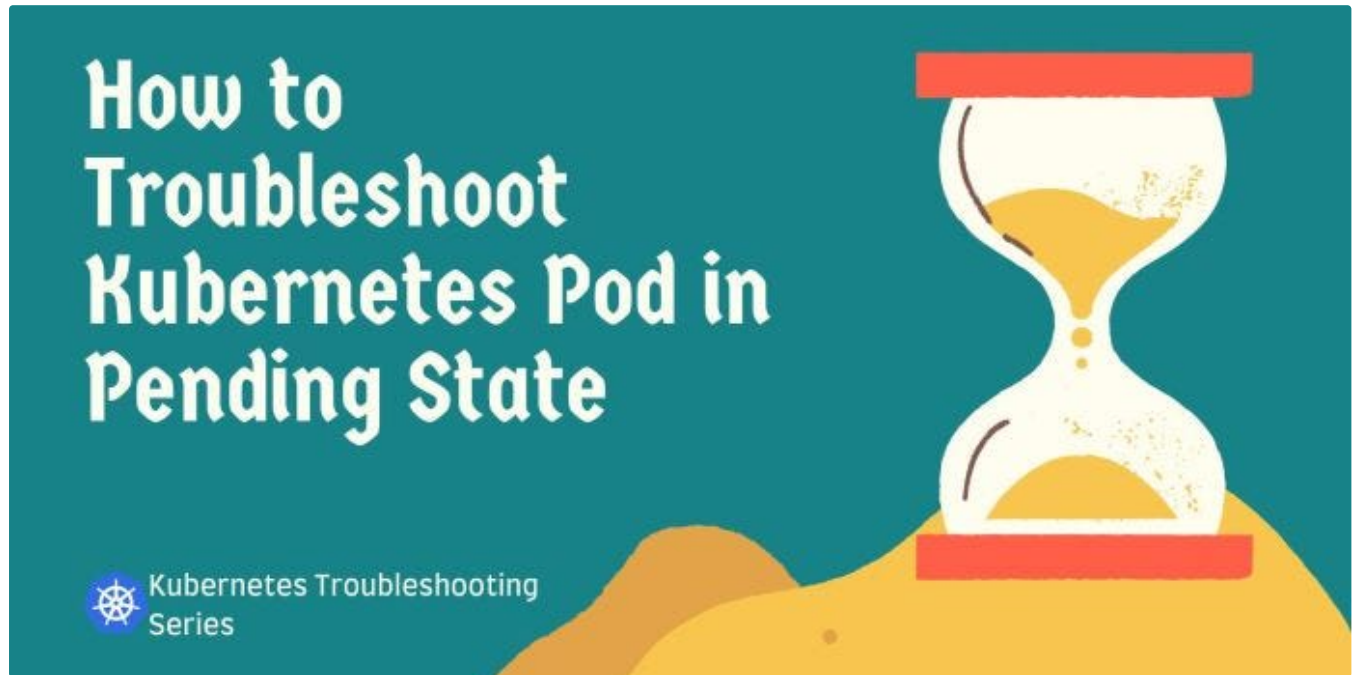
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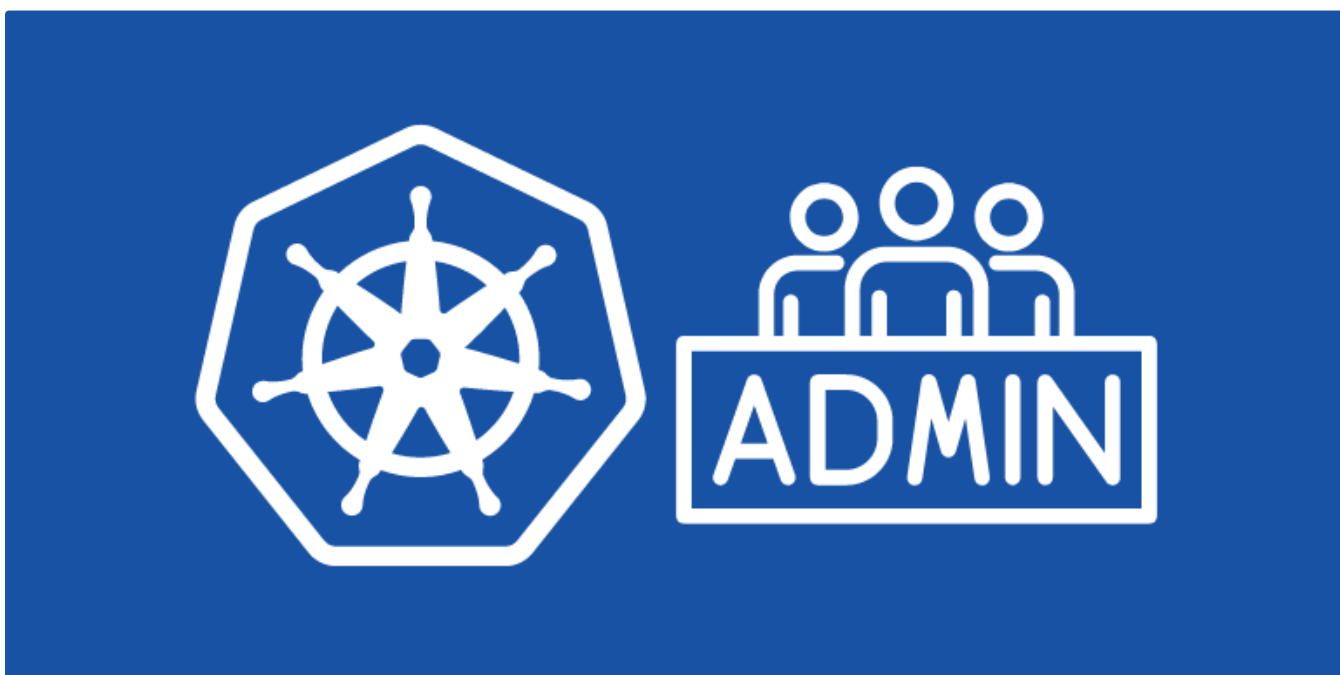
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