

deployment.yaml

service.yaml

./root

...bashrc

...cache/

...config/

...docker/

...gnupg/

...hushlogin

...kube/

...minikube/

...profile

...ssh/

...vnc/

...vscode/

Desktop/

...deployment.yaml

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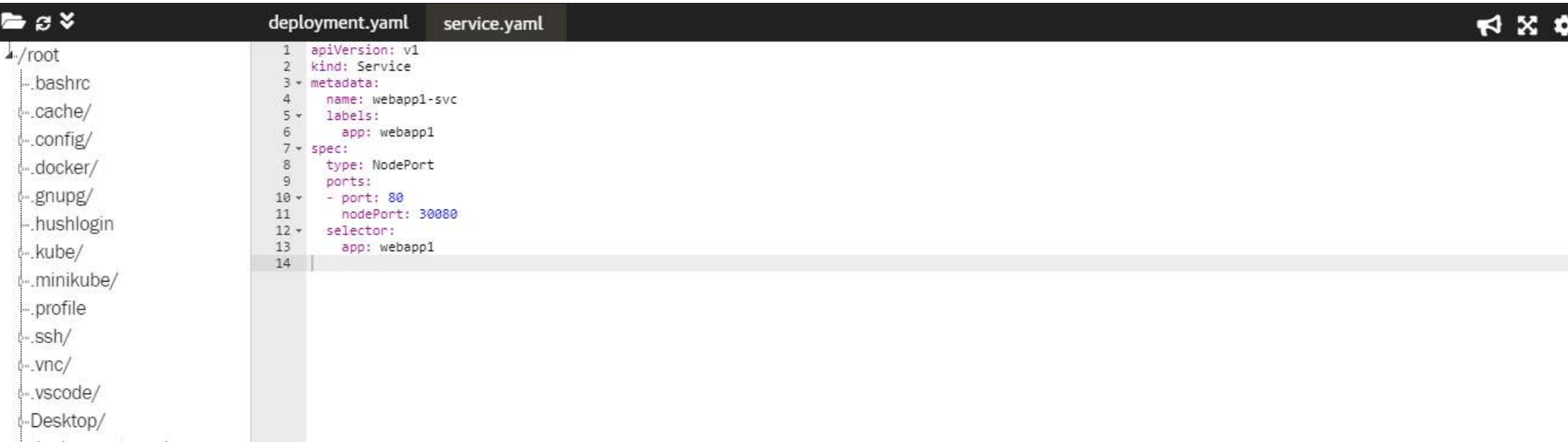
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```
apiVersion: apps/v1
kind: Deployment
metadata:
  name: webapp1
spec:
  replicas: 1
  selector:
    matchLabels:
      app: webapp1
  template:
    metadata:
      labels:
        app: webapp1
    spec:
      containers:
        - name: webapp1
          image: katacoda/docker-http-server:latest
          ports:
            - containerPort: 80
```

Terminal

Your Interactive Bash Terminal. A safe place to learn and execute commands.

```
$ minikube start --wait=false
* minikube v1.8.1 on Ubuntu 18.04
* Using the none driver based on user configuration
* Running on localhost (CPUs=2, Memory=2460MB, Disk=145651MB) ...
* OS release is Ubuntu 18.04.4 LTS
kubectl create -f deployment.yaml
* Preparing Kubernetes v1.17.3 on Docker 19.03.6 ...
  - kubelet.resolv-conf=/run/systemd/resolve/resolv.conf
* Launching Kubernetes ...
kubectl get deployment
kubectl describe deployment webapp1
* Enabling addons: default-storageclass, storage-provisioner
* Configuring local host environment ...
* Done! kubectl is now configured to use "minikube"
$
$
$ kubectl create -f deployment.yaml
deployment.apps/webapp1 created
```



+

```
$ kubectl create -f deployment.yaml
deployment.apps/webapp1 created
$ kubectl get deployment
NAME          READY    UP-TO-DATE    AVAILABLE    AGE
webapp1       0/1      0             0            0s
$ kubectl describe deployment webapp1
Name:          webapp1
Namespace:     default
CreationTimestamp: Mon, 22 Mar 2021 15:02:40 +0000
Labels:        <none>
Annotations:   <none>
Selector:      app=webapp1
Replicas:      1 desired | 0 updated | 0 total | 0 available | 0 unavailable
StrategyType:  RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=webapp1
  Containers:
```



```

TargetPort:      80/TCP
NodePort:        <unset> 30080/TCP
Endpoints:       172.18.0.2:80
Session Affinity: None
External Traffic Policy: Cluster
Events:          <none>

$ curl host01:30080
<h1>This request was processed by host: webapp1-6b54fb89d9-hs4w4</h1>

$ kubectl apply -f deployment.yaml
Warning: kubectl apply should be used on resource created by either kubectl create --save-config or kubectl apply
deployment.apps/webapp1 configured

$ kubectl get deployment
NAME          READY    UP-TO-DATE    AVAILABLE    AGE
webapp1       1/1      1             1            81s

$ kubectl get pods
NAME                                READY    STATUS      RESTARTS    AGE
webapp1-6b54fb89d9-hs4w4           1/1      Running     0           79s

$ curl host01:30080
<h1>This request was processed by host: webapp1-6b54fb89d9-hs4w4</h1>

```



```
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Namespace:     default
CreationTimestamp: Mon, 22 Mar 2021 15:02:40 +0000
Labels:        <none>
Annotations:   <none>
Selector:      app=webapp1
Replicas:      1 desired | 0 updated | 0 total | 0 available | 0 unavailable
StrategyType:  RollingUpdate
MinReadySeconds: 0
RollingUpdateStrategy: 25% max unavailable, 25% max surge
Pod Template:
  Labels:  app=webapp1
  Containers:
    webapp1:
      Image:      katacoda/docker-http-server:latest
      Port:      80/TCP
```



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NodePort:        <unset> 30080/TCP
Endpoints:       172.18.0.2:80
Session Affinity: None
External Traffic Policy: Cluster
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```