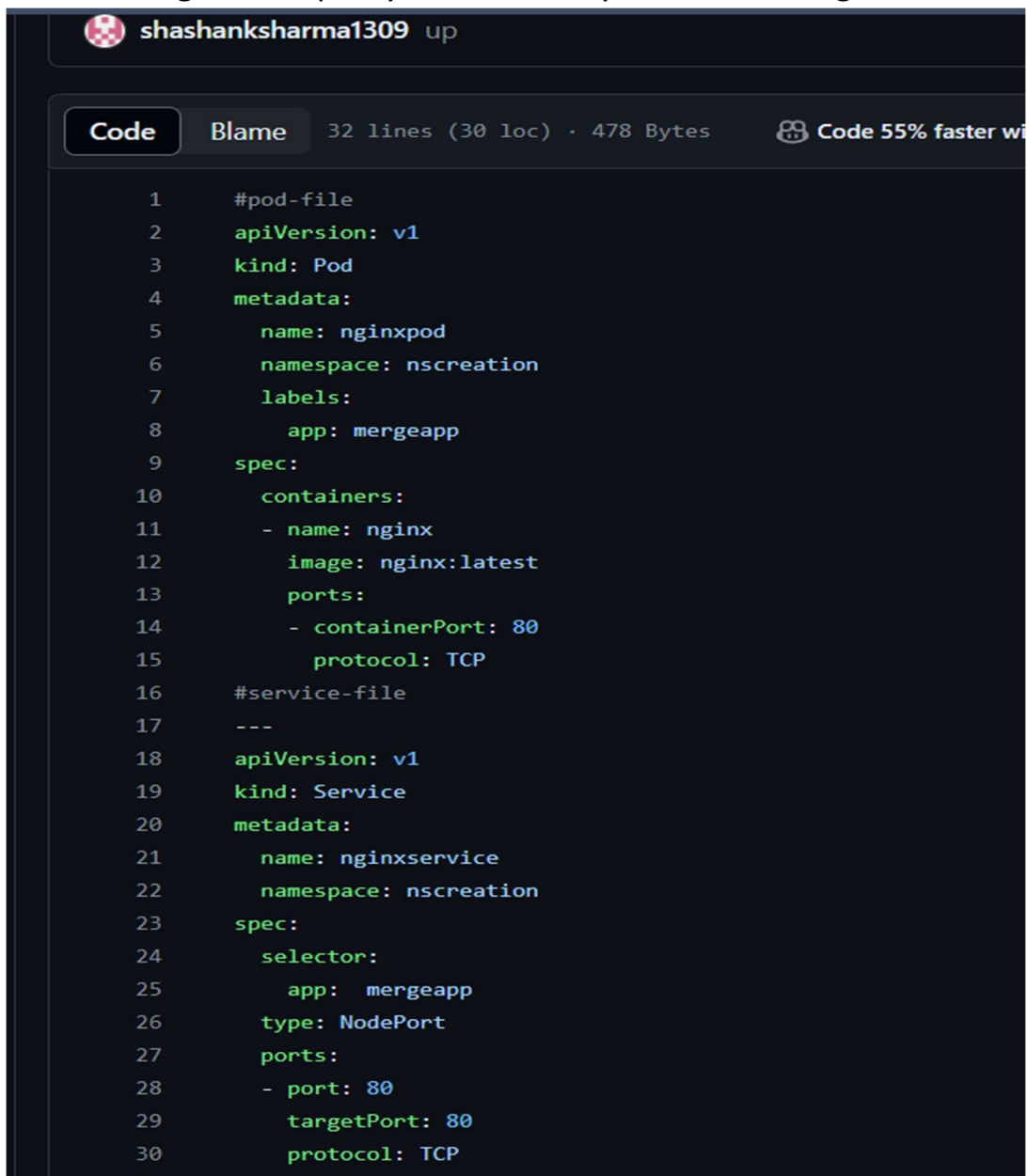


Task

Merging of pod.yml & service.yml file
(using killercoda)

Name – Shashank Sharma

1. Create merge file of pod.yml & service.yml in VS code/git.dev.



```
1  #pod-file
2  apiVersion: v1
3  kind: Pod
4  metadata:
5    name: nginxpod
6    namespace: nscreation
7    labels:
8      app: mergeapp
9  spec:
10   containers:
11   - name: nginx
12     image: nginx:latest
13     ports:
14     - containerPort: 80
15       protocol: TCP
16  #service-file
17  ---
18  apiVersion: v1
19  kind: Service
20  metadata:
21    name: nginxservice
22    namespace: nscreation
23  spec:
24    selector:
25      app: mergeapp
26    type: NodePort
27    ports:
28    - port: 80
29      targetPort: 80
30      protocol: TCP
31
```

2. Open Killercoda on chrome tab.
3. Make clone of your git.

git clone

<https://github.com/shashanksharma1309/kubernetes.git>

```
Editor  Tab1  +
Initialising Kubernetes... done

controlplane $ git clone https://github.com/shashanksharma1309/kubernetes.git
Cloning into 'kubernetes'...
remote: Enumerating objects: 109, done.
remote: Counting objects: 100% (109/109), done.
remote: Compressing objects: 100% (105/105), done.
remote: Total 109 (delta 52), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (109/109), 3.11 MiB | 6.11 MiB/s, done.
Resolving deltas: 100% (52/52), done.
controlplane $ ls
```

4. Goes up to your merge file.
5. To create namespace use command.

kubectl create namespace <namespace-name>

In my case;

kubectl create namespace nscreation

```
controlplane $ kubectl create namespace nscreation
namespace/nscreation created
```

6. Create pod & service using command.

kubectl apply -f <merge-file-name>

In my case;

kubectl apply -f pod-service-merge.yml

(it will create both pod & service)

```
controlplane $ kubectl apply -f pod-service-merge.yml
pod/nginxpod created
service/nginxservice created
```

7. To see pod use command.

kubectl get pods -n <namespace-name>

In my case;

kubectl get pods -n nscreation

```
controlplane $ kubectl get pods -n nscreation
NAME          READY   STATUS    RESTARTS   AGE
nginxpod      1/1     Running   0           3m53s
```

8. To see services use command.

kubectl get -n <namespace-name> svc (services)

In my case;

kubectl get -n nscreation svc

```
controlplane $ kubectl get -n nscreation svc
NAME          TYPE       CLUSTER-IP   EXTERNAL-IP  PORT(S)          AGE
nginxservice  NodePort   10.101.245.43 <none>       80:30430/TCP     6m11s
```

9. Use command to see nginx page in killerkoda use command.

curl localhost:<service-port>

In my case;

curl localhost:30430

```
controlplane $ curl localhost:30430
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
html { color-scheme: light dark; }
body { width: 35em; margin: 0 auto;
font-family: Tahoma, Verdana, Arial, sans-serif; }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>
```

All commands

```
controlplane $ kubectl create namespace nscreation
namespace/nscreation created
controlplane $ kubectl apply -f pod-service-merge.yml
pod/nginxpod created
service/nginxservice created
controlplane $ kubectl get pods
No resources found in default namespace.
controlplane $ kubectl get -n nscreation
You must specify the type of resource to get. Use "kubectl api-resources" for a complete list of supported resources.

error: Required resource not specified.
Use "kubectl explain <resource>" for a detailed description of that resource (e.g. kubectl explain pods).
See 'kubectl get -h' for help and examples
controlplane $ kubectl get -n namespace nscreation
error: the server doesn't have a resource type "nscreation"
controlplane $ kubectl get pods -n nscreation
NAME      READY   STATUS    RESTARTS   AGE
nginxpod  1/1     Running   0           3m53s
controlplane $ kubectl get -n nscreation svc
NAME            TYPE        CLUSTER-IP      EXTERNAL-IP   PORT(S)          AGE
nginxservice    NodePort    10.101.245.43    <none>        80:30430/TCP     6m11s
controlplane $ curl localhost:30430
<!DOCTYPE html>
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```