https://github.com/DennisPYu/SIT323-2024-t1prac6.1p

Deployment.yaml file that deploy app on kubernetes

```yaml
deployment.yaml > {} spec > {} template > {} spec > [ ] containers > {} 0 > [ ] ports > {} 0
1    apiVersion: apps/v1
2    kind: Deployment
3    metadata:
4      name: calculator-app-deployment
5    spec:
6      replicas: 2
7      selector:
8        matchLabels:
9          app: nodejs-app
10     template:
11       metadata:
12         labels:
13           app: nodejs-app
14       spec:
15         containers:
16         - name: nodejs-app
17           image: dennisyup/calculator-app:latest
18           ports:
19           - containerPort: 4000
20
```

Command that created the deployment

```
● PS I:\Study\BachelorD\2024T1\SIT323-Cloud Native Application Development\6.1p\docker_calculator-upgrade> kubectl apply -f deployment.yaml
deployment.apps/calculator-app-deployment created
```

Expose app to the outside

```yaml
service.yaml > {} metadata > [abc] name
1    apiVersion: v1
2    kind: Service
3    metadata:
4      name: calculator-app-service
5    spec:
6      type: LoadBalancer
7      ports:
8      - port: 4000
9        targetPort: 4000
10     selector:
11       app: nodejs-app
12
```

Command that apply the services to Kubernetes cluster

```
● PS I:\Study\BachelorD\2024T1\SIT323-Cloud Native Application Development\6.1p\docker_calculator-upgrade> kubectl apply -f service.yaml
service/calculator-app-service created
```

Docker image

docker desktop

Search for images, containers, volume... Ctrl+K

dennisyup/calculator-app:latest IN USE
db315254326e

CREATED   SIZE
9 days ago   918.05 MB

Recommended fixes ⌄

Run ⌄

Analyzed by docker scout

Image hierarchy

	FROM	debian:10, 10.13, buster, buster-20230904	❗
	FROM	buildpack-deps:buster-curl, oldoldstable-curl	❗
	FROM	buildpack-deps:buster-scm, oldoldstable-scm	❗
	FROM	buildpack-deps:buster, oldoldstable	❗
	FROM	node:16, 16-buster, 16.20, 16.20-buster, 16.20.2, 16.20.2-b...	❗
	ALL	dennisyup/calculator-app:latest	❗

Layers (19)

	0	ADD file:d9c3e291731c1f06d615709ebc66...	114.17 MB	❗
	1	CMD ["bash"]	0 B	✅
	2	set -eux; apt-get update; apt-get install -y --n...	33.04 MB	❗
	3	apt-get update && apt-get install -y --no-inst...	145.62 MB	❗

Images (6)   **Vulnerabilities (343)**   Packages (815)

Give feedback 💬

🔍 Package or CVE name   ☰   ☐ Fixable packages

Reset filters

Package	Vulnerabilities				
›	debian/python2.7 2.7.16-2+deb10u2	1	2	4	7	0
›	debian/python3.7 3.7.3-2+deb10u5	1	0	3	8	0
›	debian/libde265 1.0.11-0+deb10u4	0	5	2	0	0
›	debian/postgresql-11 11.20-0+deb10	0	3	2	0	0
›	debian/libssh2 1.8.0-2.1	0	2	0	1	0

1–10 of 60   ‹ ›

RAM 6.93 GB   CPU 0.67%   🛡 Signed in   🛡 v4.29.0 🔔 1