

C:\WINDOWS\system32\cmd. × + v Microsoft Windows [Version 10.0.22621.1555] (c) Microsoft Corporation. All rights reserved. C:\Users\Sumukh G>minikube start \* minikube v1.30.1 on Microsoft Windows 11 Pro 10.0.22621.1555 Build 22621.1555 \* Using the docker driver based on existing profile \* Starting control plane node minikube in cluster minikube

\* Pulling base image ... \* Updating the running docker "minikube" container ... \* Preparing Kubernetes v1.26.3 on Docker 23.0.2 ... \* Configuring bridge CNI (Container Networking Interface) ... \* Verifying Kubernetes components... - Using image gcr.io/k8s-minikube/storage-provisioner:v5

\* Enabled addons: storage-provisioner, default-storageclass \* Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default

C:\Users\Sumukh G>eval \$(minikube docker-env) 'eval' is not recognized as an internal or external command, operable program or batch file.

C:\Users\Sumukh G>@FOR /f "tokens=\*" %i IN ('minikube docker-env') DO @%i

C:\Users\Sumukh G>





















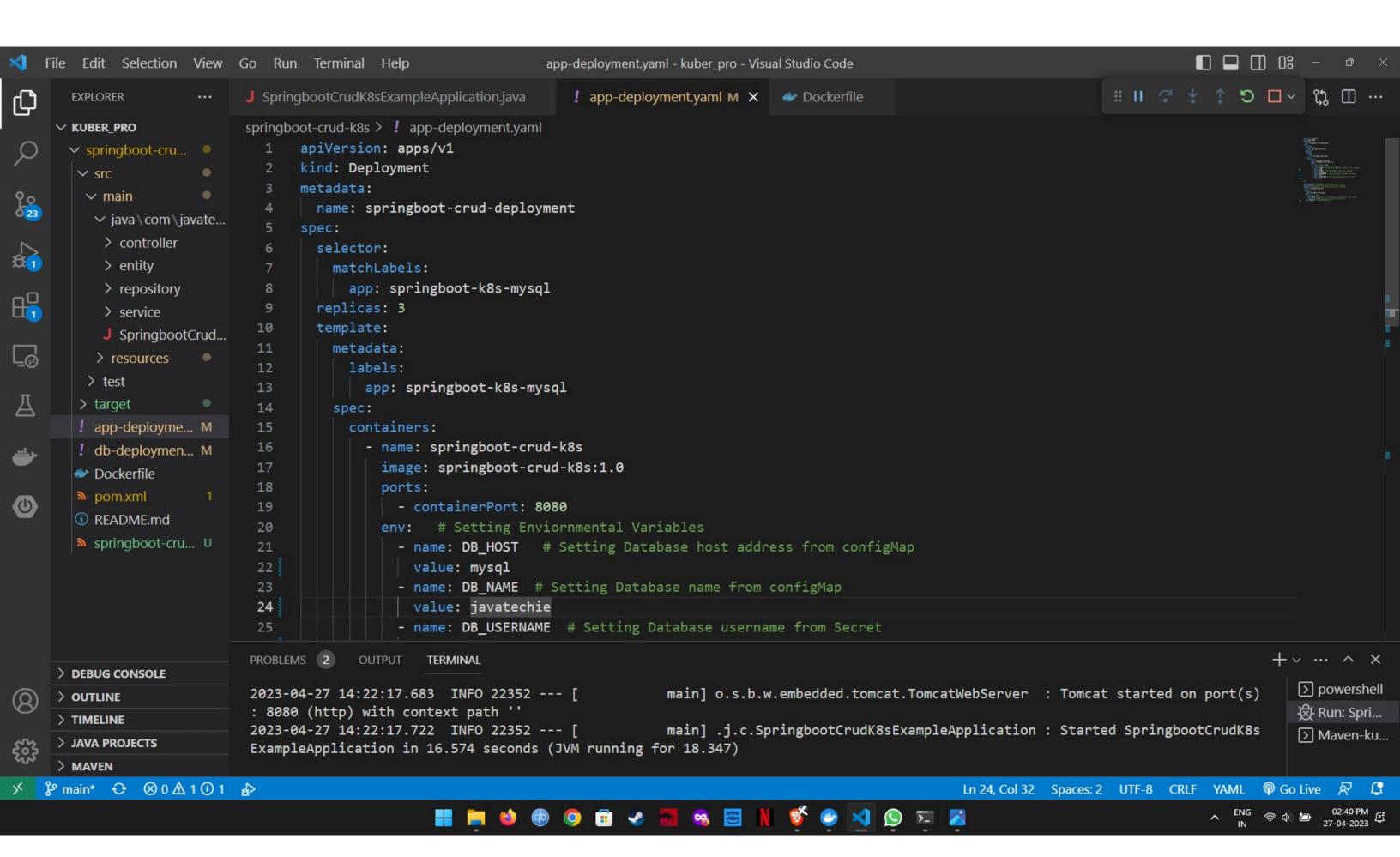












C:\Users\Sumukh G\Desktop\kuber\_pro\springboot-crud-k8s>kubectl apply -f app-deployment.yaml deployment.apps/springboot-crud-deployment created service/springboot-crud-svc unchanged

C:\Users\Sumukh G\Desktop\kuber\_pro\springboot-crud-k8s>kubectl get deployment

NAME READY UP-TO-DATE AVAILABLE AGE 1/1 1 136m mysql springboot-crud-deployment 3/3 3 115

C:\Users\Sumukh G\Desktop\kuber\_pro\springboot-crud-k8s>kubectl get service

NAME	TYPE	CLUSTER-IP	EXTERNAL-IP	PORT(S)	AGE
kubernetes	ClusterIP	10.96.0.1	<none></none>	443/TCP	25h
mysql	ClusterIP	None	<none></none>	3306/TCP	136m
ngnix-img	ClusterIP	10.111.0.39	<none></none>	8081/TCP	22h
springboot-crud-svc	NodePort	10.101.126.95	<none></none>	8080:31633/TCP	3m25s

C:\Users\Sumukh G\Desktop\kuber\_pro\springboot-crud-k8s>kubectl get pods

READY	STATUS	RESTARTS	AGE
1/1	Running	Θ	61m
1/1	Running	Θ	69s
1/1	Running	Θ	69s
1/1	Running	Θ	69s
	1/1 1/1 1/1	1/1 Running 1/1 Running 1/1 Running	1/1 Running 0 1/1 Running 0 1/1 Running 0

C:\Users\Sumukh G\Desktop\kuber\_pro\springboot-crud-k8s>kubectl logs springboot-crud-deployment-58b558cd4f-fhfgh

```
======|_|=======|__/=/=/_/
:: Spring Boot ::
                          (v2.6.1)
```

```
2023-04-27 09:08:44.903 INFO 1 --- [
                                               main] .j.c.SpringbootCrudK8sExampleApplication : Starting SpringbootCrudK8sExampleApplication v0.0.1-SNAPSHOT using Java 1.8.0_342 on springboot-crud-deployment-
58b558cd4f-fhfgh with PID 1 (/springboot-crud-k8s.jar started by root in /)
2023-04-27 09:08:44.992 INFO 1 --- [
                                               main] .j.c.SpringbootCrudK8sExampleApplication : No active profile set, falling back to default profiles: default
```

```
2023-04-27 09:09:17.691 INFO 1 --- [
                                               main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2023-04-27 09:09:19.492 INFO 1 --- [
                                               main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 1579 ms. Found 1 JPA repository interfaces.
```

main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 8080 (http) 2023-04-27 09:09:46.090 INFO 1 --- [ main] o.apache.catalina.core.StandardService : Starting service [Tomcat] 2023-04-27 09:09:46.497 INFO 1 --- [

main] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.55] 2023-04-27 09:09:46.498 INFO 1 --- [ 2023-04-27 09:09:48.187 INFO 1 --- [ main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext

2023-04-27 09:09:48.188 INFO 1 --- [ main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 61780 ms

C:\Users\Sumukh G\Desktop\kuber\_pro\springboot-crud-k8s>



























```
C:\Users\Sumukh G\Desktop\kuber_pro\springboot-crud-k8s>docker build -t springboot-crud-k8s:1.0 .
```

## [+] Building 111.8s (7/7) FINISHED C:\Users\Sumukh G\Desktop\kuber\_pro\springboot-crud-k8s>docker images

REPUSITORY	IAG	INAGE ID	CREATED	2175
springboot-crud-k8s	1.0	b58442cf8d60	27 seconds ago	565MB
mysql	5.7	dd6675b5cfea	9 days ago	569MB
nginx	latest	6efc10a0510f	2 weeks ago	142MB
registry.k8s.io/kube-apiserver	v1.26.3	1d9b3cbae03c	6 weeks ago	134MB
registry.k8s.io/kube-controller-manager	v1.26.3	ce8c2293ef09	6 weeks ago	123MB
registry.k8s.io/kube-scheduler	v1.26.3	5a7904736932	6 weeks ago	56.4MB
registry.k8s.io/kube-proxy	v1.26.3	92ed2bec97a6	6 weeks ago	65.6MB
registry.k8s.io/etcd	3.5.6-0	fce326961ae2	5 months ago	299MB
registry.k8s.io/pause	3.9	e6f181688397	6 months ago	744kB
registry.k8s.io/coredns/coredns	v1.9.3	5185b96f0bec	11 months ago	48.8MB
gcr.io/k8s-minikube/storage-provisioner	v5	6e38f40d628d	2 years ago	31.5MB
mysql	8.0.3	00400babc1b7	5 years ago	343MB

C:\Users\Sumukh G\Desktop\kuber\_pro\springboot-crud-k8s>

















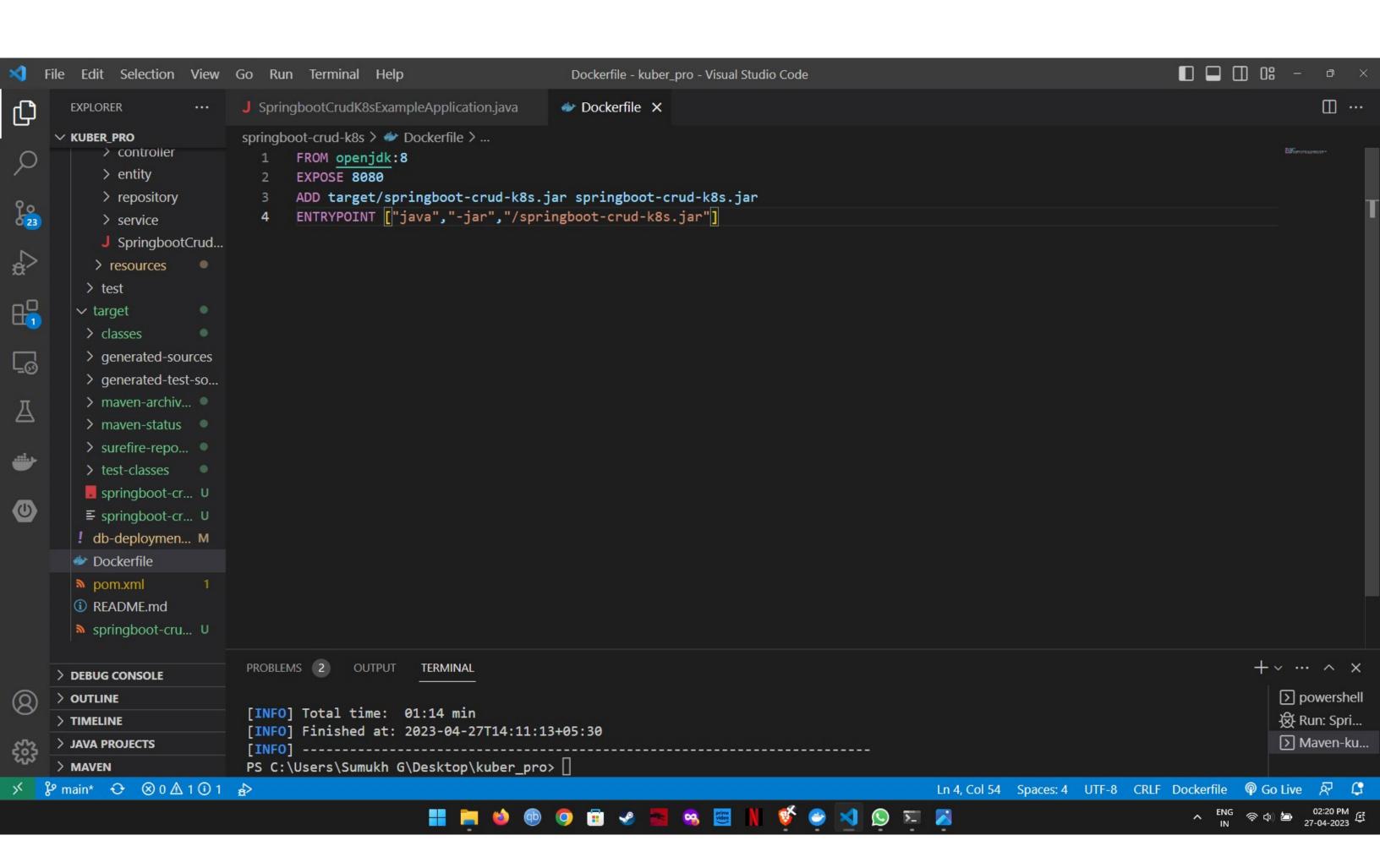












- 0 X Command Prompt - kubectl ( × + × Microsoft Windows [Version 10.0.22621.1555] (c) Microsoft Corporation. All rights reserved. C:\Users\Sumukh G>kubectl get pods READY STATUS RESTARTS AGE mysql-6fb5464f8c-npznk 1/1 Running 0 4m20s C:\Users\Sumukh G>kubectl exec -it mysql-6fb5464f8c-npznk /bin/bash kubectl exec [POD] [COMMAND] is DEPRECATED and will be removed in a future version. Use kubectl exec [POD] -- [COMMAND] instead.

bash-4.2# mysql -u root -p Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 2

Server version: 5.7.42 MySQL Community Server (GPL)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

## mysql> show databases;

```
Database
information_schema
javatechie
mysql
performance_schema
sys
```

5 rows in set (0.00 sec)

mysql> use javatechie Database changed mysql>





























```
C:\Users\Sumukh G\Desktop\kuber_pro\springboot-crud-k8s>kubectl apply -f db-deployment.yaml
persistentvolumeclaim/mysql-pv-claim unchanged
deployment.apps/mysql configured
service/mysql unchanged
C:\Users\Sumukh G\Desktop\kuber_pro\springboot-crud-k8s>kubectl get pods
                        READY STATUS RESTARTS AGE
mysql-6fb5464f8c-npznk 1/1
                                Running 0
                                                     55
C:\Users\Sumukh G\Desktop\kuber_pro\springboot-crud-k8s>kubectl logs mysql-6fb5464f8c-npznk
2023-04-27 08:07:46+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.42-1.el7 started.
2023-04-27 08:07:47+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
2023-04-27 08:07:48+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 5.7.42-1.el7 started.
2023-04-27 08:07:48+00:00 [Note] [Entrypoint]: Initializing database files
2023-04-27T08:07:48.821244Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).
2023-04-27T08:07:49.519922Z 0 [Warning] InnoDB: New log files created, LSN=45790
2023-04-27T08:07:49.638356Z 0 [Warning] InnoDB: Creating foreign key constraint system tables.
2023-04-27T08:07:49.730614Z 0 [Warning] No existing UUID has been found, so we assume that this is the first time that this server has been started. Generating a new UUID: 9a0f2e9a-e4d2-11ed-b652-566336076e60.
2023-04-27T08:07:49.740238Z 0 [Warning] Gtid table is not ready to be used. Table 'mysql.gtid_executed' cannot be opened.
2023-04-27T08:07:50.320429Z 0 [Warning] A deprecated TLS version TLSv1 is enabled. Please use TLSv1.2 or higher.
2023-04-27T08:07:50.320584Z 0 [Warning] A deprecated TLS version TLSv1.1 is enabled. Please use TLSv1.2 or higher.
2023-04-27T08:07:50.385742Z 0 [Warning] CA certificate ca.pem is self signed.
2023-04-27T08:07:51.914566Z 1 [Warning] root@localhost is created with an empty password ! Please consider switching off the --initialize-insecure option.
2023-04-27 08:07:58+00:00 [Note] [Entrypoint]: Database files initialized
2023-04-27 08:07:58+00:00 [Note] [Entrypoint]: Starting temporary server
2023-04-27 08:07:58+00:00 [Note] [Entrypoint]: Waiting for server startup
2023-04-27T08:08:02.437123Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).
2023-04-27T08:08:02.472689Z 0 [Note] mysqld (mysqld 5.7.42) starting as process 126 ...
2023-04-27T08:08:02.581953Z 0 [Note] InnoDB: PUNCH HOLE support available
2023-04-27T08:08:02.582771Z 0 [Note] InnoDB: Mutexes and rw_locks use GCC atomic builtins
```

C:\Users\Sumukh G\Desktop\kuber\_pro\springboot-crud-k8s>

2023-04-27T08:08:02.582800Z 0 [Note] InnoDB: Uses event mutexes

2023-04-27T08:08:02.582998Z 0 [Note] InnoDB: Using Linux native AIO 2023-04-27T08:08:02.596209Z 0 [Note] InnoDB: Number of pools: 1

2023-04-27T08:08:02.582965Z 0 [Note] InnoDB: Compressed tables use zlib 1.2.13

2023-04-27T08:08:02.600056Z 0 [Note] InnoDB: Using CPU crc32 instructions

2023-04-27T08:08:02.582816Z 0 [Note] InnoDB: GCC builtin \_\_atomic\_thread\_fence() is used for memory barrier

2023-04-27T08:08:02.900531Z 0 [Note] InnoDB: Initializing buffer pool, total size = 128M, instances = 1, chunk size = 128M



























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