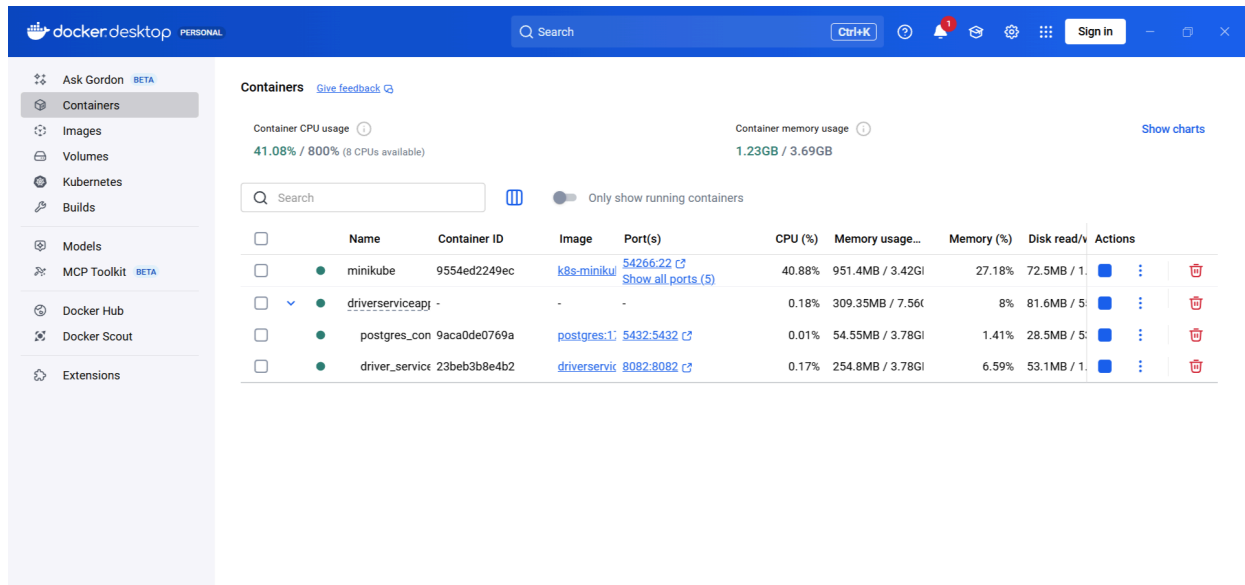
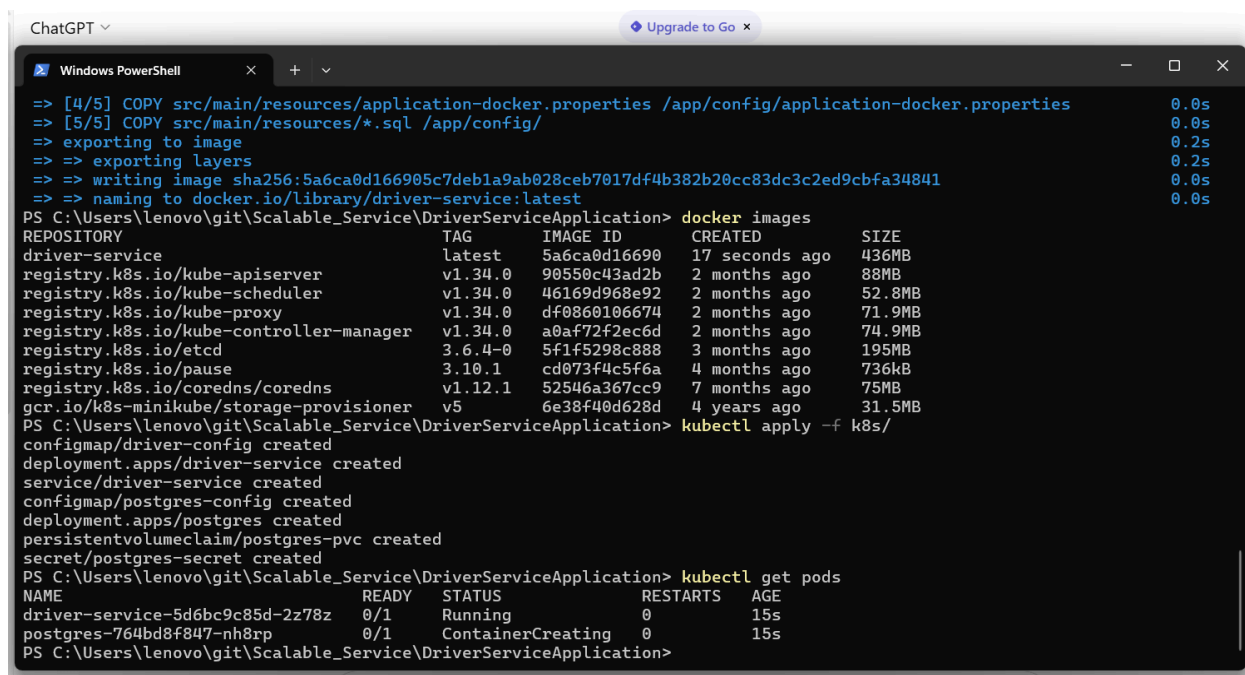


Kubernetes Deployment Verification Screenshots

1. Docker Desktop View



2.Docker Images



3.Kubectl get pods

```
Windows PowerShell
driver-service-6c6f6b5469-vfcrw 0/1 Init:0/1 0 15s
PS C:\Users\lenovo\git\Scalable_Service\DriverServiceApplication> kubectl apply -f postgres-service.yaml
error: the path "postgres-service.yaml" does not exist
PS C:\Users\lenovo\git\Scalable_Service\DriverServiceApplication> kubectl delete -f k8s/
configmap "driver-config" deleted from default namespace
deployment.apps "driver-service" deleted from default namespace
service "driver-service" deleted from default namespace
configmap "postgres-config" deleted from default namespace
deployment.apps "postgres" deleted from default namespace
persistentvolumeclaim "postgres-pvc" deleted from default namespace
secret "postgres-secret" deleted from default namespace
Error from server (NotFound): error when deleting "k8s\postgres-service.yaml": services "postgres" not found
PS C:\Users\lenovo\git\Scalable_Service\DriverServiceApplication> kubectl apply -f k8s/
configmap/driver-config created
deployment.apps/driver-service created
service/driver-service created
configmap/postgres-config created
deployment.apps/postgres created
persistentvolumeclaim/postgres-pvc created
secret/postgres-secret created
service/postgres created
PS C:\Users\lenovo\git\Scalable_Service\DriverServiceApplication> kubectl get pods -w
NAME READY STATUS RESTARTS AGE
driver-service-6c6f6b5469-pvh6p 0/1 Running 0 14s
postgres-764bd8f847-956dm 1/1 Running 0 14s
driver-service-6c6f6b5469-pvh6p 0/1 Running 1 (1s ago) 84s
driver-service-6c6f6b5469-pvh6p 0/1 Running 2 (1s ago) 2m18s
driver-service-6c6f6b5469-pvh6p 0/1 Running 3 (1s ago) 3m13s
driver-service-6c6f6b5469-pvh6p 1/1 Running 3 (32s ago) 3m44s
```

4.Kubectl get svc

```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\lenovo> kubectl get svc
NAME TYPE CLUSTER-IP EXTERNAL-IP PORT(S) AGE
driver-service NodePort 10.104.80.42 <none> 8082:30082/TCP 101m
kubernetes ClusterIP 10.96.0.1 <none> 443/TCP 145m
postgres ClusterIP 10.100.70.181 <none> 5432/TCP 101m
PS C:\Users\lenovo> |
```

5. Kubectl get logs

```
Windows PowerShell
kube-system storage-provisioner 1/1 Running 1 (148m ago) 149m
PS C:\Users\lenovo> kubectl get pods -n default
NAME READY STATUS RESTARTS AGE
driver-service-6c6f6b5469-pvh6p 1/1 Running 3 (103m ago) 106m
postgres-764b48f947-956dm 1/1 Running 0 106m
PS C:\Users\lenovo> kubectl logs driver-service-6c6f6b5469-pvh6p
Defaulted container "driver-service" out of: driver-service, wait-for-postgres (init)

:: Spring Boot :: (v3.5.7)

2025-11-02T05:30:41.772Z INFO 1 --- [DriverServiceApplication] [main] c.d.DriverServiceApplication : Starting DriverServiceApplication on v0.0.1-SNAPSHOT using Java 17.0.2 with PID 1 (/app/app.jar started by root in /app)
2025-11-02T05:30:41.776Z INFO 1 --- [DriverServiceApplication] [main] c.d.DriverServiceApplication : The following 1 profile is active: "docker"
2025-11-02T05:30:48.277Z INFO 1 --- [DriverServiceApplication] [main] s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JDBC repositories in DEFAULT mode.
2025-11-02T05:30:48.380Z INFO 1 --- [DriverServiceApplication] [main] s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 93 ms. Found 0 JDBC repository interfaces.
2025-11-02T05:30:50.573Z INFO 1 --- [DriverServiceApplication] [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8082 (http)
2025-11-02T05:30:50.584Z INFO 1 --- [DriverServiceApplication] [main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-11-02T05:30:50.584Z INFO 1 --- [DriverServiceApplication] [main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.40]
2025-11-02T05:30:51.170Z INFO 1 --- [DriverServiceApplication] [main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2025-11-02T05:30:51.172Z INFO 1 --- [DriverServiceApplication] [main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 9184 ms
2025-11-02T05:30:53.185Z INFO 1 --- [DriverServiceApplication] [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2025-11-02T05:30:54.482Z INFO 1 --- [DriverServiceApplication] [main] com.zaxxer.hikari.pool.HikariPool : HikariPool-1 - Added connection
2025-11-02T05:30:54.488Z INFO 1 --- [DriverServiceApplication] [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2025-11-02T05:30:58.775Z INFO 1 --- [DriverServiceApplication] [main] o.s.b.a.e.web.EndpointLinksResolver : Exposing 3 endpoints beneath base path '/actuator'
2025-11-02T05:30:59.182Z INFO 1 --- [DriverServiceApplication] [main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8082 (http)
```

6. Curl Or Postman Test

```
MINGW64/C:/Users/lenovo
lenovo@DESKTOP-30087V8 MINGW64 ~
$ curl http://127.0.0.1:65471/actuator/health
{"status":"UP","groups":{"liveness":{"readiness":true}}}
lenovo@DESKTOP-30087V8 MINGW64 ~
$ curl http://127.0.0.1:65471/v1/drivers
[{"driverId":1,"name":"Driver1","phone":"9743818076","vehicleType":"Bike","vehiclePlate":"KA9804023","active":false},{"driverId":2,"name":"Driver2","phone":"9857811574","vehicleType":"Hatchback","vehiclePlate":"KA13178615","active":true},{"driverId":3,"name":"Driver3","phone":"9807180007","vehicleType":"SUV","vehiclePlate":"KA89007833","active":false},{"driverId":4,"name":"Driver4","phone":"9101752240","vehicleType":"Auto","vehiclePlate":"KA87853232","active":false},{"driverId":5,"name":"Driver5","phone":"9331760835","vehicleType":"SUV","vehiclePlate":"KA65502215","active":true},{"driverId":6,"name":"Driver6","phone":"9750242404","vehicleType":"Hatchback","vehiclePlate":"KA94806223","active":true},{"driverId":7,"name":"Driver7","phone":"9395403264","vehicleType":"Sedan","vehiclePlate":"KA9534444","active":false},{"driverId":8,"name":"Driver8","phone":"9503863051","vehicleType":"Sedan","vehiclePlate":"KA6785215","active":true},{"driverId":9,"name":"Driver9","phone":"9610089761","vehicleType":"Bike","vehiclePlate":"KA659K5901","active":false},{"driverId":10,"name":"Driver10","phone":"9388667223","vehicleType":"Auto","vehiclePlate":"KA5213513","active":false},{"driverId":11,"name":"Driver11","phone":"9912408611","vehicleType":"Hatchback","vehiclePlate":"KA10460251","active":true},{"driverId":12,"name":"Driver12","phone":"9344461236","vehicleType":"Hatchback","vehiclePlate":"KA42XV1990","active":false},{"driverId":13,"name":"Driver13","phone":"9221078366","vehicleType":"SUV","vehiclePlate":"KA26W6767","active":true},{"driverId":14,"name":"Driver14","phone":"9444693492","vehicleType":"SUV","vehiclePlate":"KA25F5832","active":true},{"driverId":15,"name":"Driver15","phone":"9503626167","vehicleType":"Hatchback","vehiclePlate":"KA83NF4837","active":true},{"driverId":16,"name":"Driver16","phone":"9281376149","vehicleType":"Bike","vehiclePlate":"KA592V6023","active":true},{"driverId":17,"name":"Driver17","phone":"9708870122","vehicleType":"Sedan","vehiclePlate":"KA95X0256","active":true},{"driverId":18,"name":"Driver18","phone":"938156176","vehicleType":"SUV","vehiclePlate":"KA66X1229","active":true},{"driverId":19,"name":"Driver19","phone":"9991616574","vehicleType":"Sedan","vehiclePlate":"KA89B3878","active":true},{"driverId":20,"name":"Driver20","phone":"9653198305","vehicleType":"Sedan","vehiclePlate":"KA73H05409","active":false},{"driverId":21,"name":"Driver21","phone":"9743483930","vehicleType":"Bike","vehiclePlate":"KA531J1254","active":false},{"driverId":22,"name":"Driver22","phone":"9666894492","vehicleType":"SUV","vehiclePlate":"KA12529930","active":true},{"driverId":23,"name":"Driver23","phone":"9533738774","vehicleType":"Sedan","vehiclePlate":"KA9K04592","active":true},{"driverId":24,"name":"Driver24","phone":"942345916","vehicleType":"Bike","vehiclePlate":"KA24E2399","active":false},{"driverId":25,"name":"Driver25","phone":"9651736128","vehicleType":"Auto","vehiclePlate":"KA49BC3792","active":false},{"driverId":26,"name":"Driver26","phone":"9475992253","vehicleType":"Auto","vehiclePlate":"KA63025136","active":false},{"driverId":27,"name":"Driver27","phone":"9735779209","vehicleType":"Bike","vehiclePlate":"KA27XV5682","active":true},{"driverId":28,"name":"Driver28","phone":"9304780799","vehicleType":"Sedan","vehiclePlate":"KA73H4136","active":true},{"driverId":29,"name":"Driver29","phone":"9671410403","vehicleType":"Hatchback","vehiclePlate":"KA88N09977","active":true},{"driverId":30,"name":"Driver30","phone":"9314257623","vehicleType":"Auto","vehiclePlate":"KA26XK5909","active":true},{"driverId":31,"name":"Driver31","phone":"9277751155","vehicleType":"SUV","vehiclePlate":"KA85N38525","active":true},{"driverId":32,"name":"Driver32","phone":"9318911630","vehicleType":"SUV","vehiclePlate":"KA67H1369","active":true},{"driverId":33,"name":"Driver33","phone":"9981591029","vehicleType":"SUV","vehiclePlate":"KA69VG6268","active":false},{"driverId":34,"name":"Driver34","phone":"9605242544","vehicleType":"Hatchback","vehiclePlate":"KA73386200","active":true},{"driverId":35,"name":"Driver35","phone":"9645782
```

```
127.0.0.1:65471/v1/drivers
Pretty-print
[[{"driverId": "1", "name": "Driver1", "phone": "9743818976", "vehicleType": "Bike", "vehiclePlate": "KA98DX4733", "active": false}, {"driverId": "2", "name": "Driver2", "phone": "9857811574", "vehicleType": "Hatchback", "vehiclePlate": "KA13IT8615", "active": true}, {"driverId": "3", "name": "Driver3", "phone": "9807180807", "vehicleType": "SUV", "vehiclePlate": "KA95QZ7883", "active": false}, {"driverId": "4", "name": "Driver4", "phone": "9181752240", "vehicleType": "Auto", "vehiclePlate": "KA87RS3232", "active": false}, {"driverId": "5", "name": "Driver5", "phone": "9331760835", "vehicleType": "SUV", "vehiclePlate": "KA65SH2215", "active": true}, {"driverId": "6", "name": "Driver6", "phone": "9750242404", "vehicleType": "Hatchback", "vehiclePlate": "KA94B06223", "active": true}, {"driverId": "7", "name": "Driver7", "phone": "9395405264", "vehicleType": "Sedan", "vehiclePlate": "KA95E34447", "active": false}, {"driverId": "8", "name": "Driver8", "phone": "9503863051", "vehicleType": "Sedan", "vehiclePlate": "KA67EB5215", "active": true}, {"driverId": "9", "name": "Driver9", "phone": "9610089761", "vehicleType": "Bike", "vehiclePlate": "KA65HK5901", "active": false}, {"driverId": "10", "name": "Driver10", "phone": "9388667223", "vehicleType": "Auto", "vehiclePlate": "KA52LT3513", "active": false}, {"driverId": "11", "name": "Driver11", "phone": "9912408611", "vehicleType": "Hatchback", "vehiclePlate": "KA16ML6251", "active": true}, {"driverId": "12", "name": "Driver12", "phone": "9344461236", "vehicleType": "Hatchback", "vehiclePlate": "KA42KV9900", "active": false}, {"driverId": "13", "name": "Driver13", "phone": "9221078366", "vehicleType": "SUV", "vehiclePlate": "KA28MG8767", "active": true}, {"driverId": "14", "name": "Driver14", "phone": "9444693492", "vehicleType": "SUV", "vehiclePlate": "KA25F55832", "active": true}, {"driverId": "15", "name": "Driver15", "phone": "9503626167", "vehicleType": "Hatchback", "vehiclePlate": "KA83NF8487", "active": true}, 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"vehicleType": "Sedan", "vehiclePlate": "KA99KD4592", "active": true}, {"driverId": "24", "name": "Driver24", "phone": "9423345916", "vehicleType": "Bike", "vehiclePlate": "KA24EZ2339", "active": false}, {"driverId": "25", "name": "Driver25", "phone": "9651736120", "vehicleType": "Auto", "vehiclePlate": "KA69EC9792", "active": false}, {"driverId": "26", "name": "Driver26", "phone": "9475993253", "vehicleType": "Auto", "vehiclePlate": "KA610Z5136", "active": false}, {"driverId": "27", "name": "Driver27", "phone": "9735779209", "vehicleType": "Bike", "vehiclePlate": "KA27XV5682", "active": true}, {"driverId": "28", "name": "Driver28", "phone": "9384780799", "vehicleType": "Sedan", "vehiclePlate": "KA73HB4136", "active": true}, {"driverId": "29", "name": "Driver29", "phone": "9671410403", "vehicleType": "Hatchback", "vehiclePlate": "KA68NO9977", "active": true}, {"driverId": "30", "name": "Driver30", "phone": "9141257625", "vehicleType": "Auto", "vehiclePlate": "KA26XX5909", "active": true}, {"driverId": "31", "name": "Driver31", "phone": "9277751155", "vehicleType": "SUV", "vehiclePlate": "KA85HJ8525", "active": true}, {"driverId": "32", "name": "Driver32", "phone": "9134915638", "vehicleType": "SUV", "vehiclePlate": "KA67HP1369", "active": true}, {"driverId": "33", "name": "Driver33", "phone": "9981591029", "vehicleType": "SUV", "vehiclePlate": "KA69G66208", "active": false}, {"driverId": "34", "name": "Driver34", "phone": "9605242544", "vehicleType": "Hatchback", "vehiclePlate": "KA73JM8200", "active": true}, {"driverId": "35", "name": "Driver35", "phone": "9645282279", "vehicleType": "Auto", "vehiclePlate": "KA96OB9370", "active": true}, {"driverId": "36", "name": "Driver36", "phone": "9583632053", "vehicleType": "Hatchback", "vehiclePlate": "KA57TZ8435", "active": true}, {"driverId": "37", "name": "Driver37", "phone": "9730402355", "vehicleType": "Sedan", "vehiclePlate": "KA84U05677", "active": true}, {"driverId": "38", "name": "Driver38", "phone": 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"active": true}, {"driverId": "46", "name": "Driver46", "phone": "9975021149", "vehicleType": "Bike", "vehiclePlate": "KA16FM344", "active": true}]
```