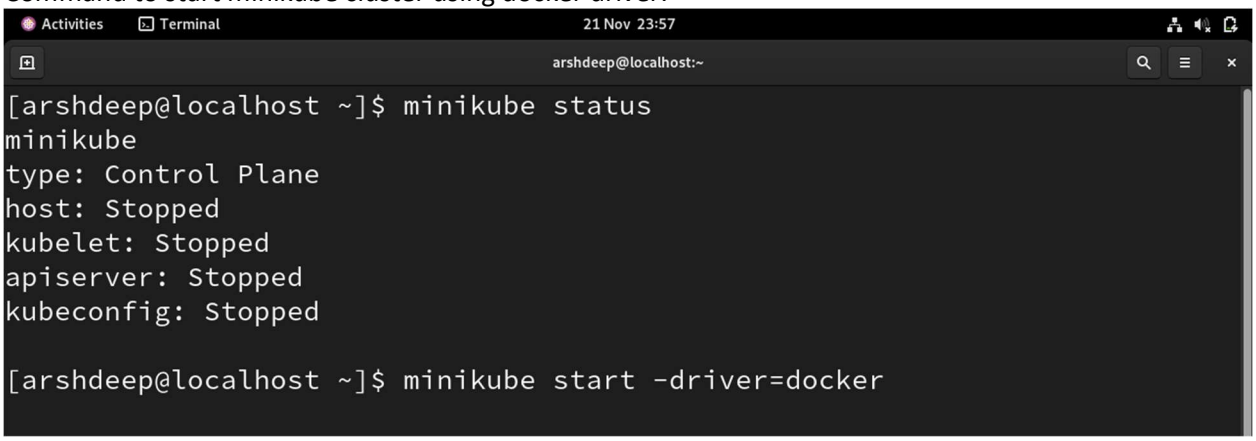
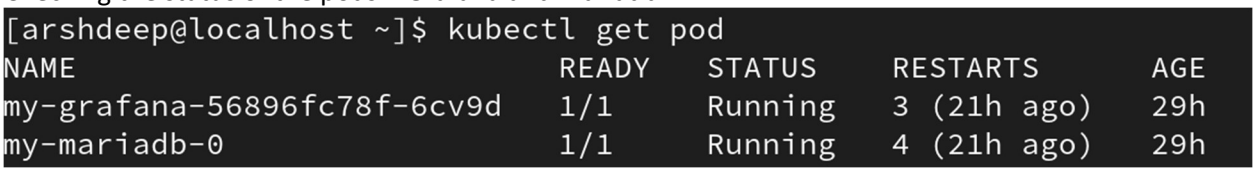
SCREENSHOTS OF EACH STEP:

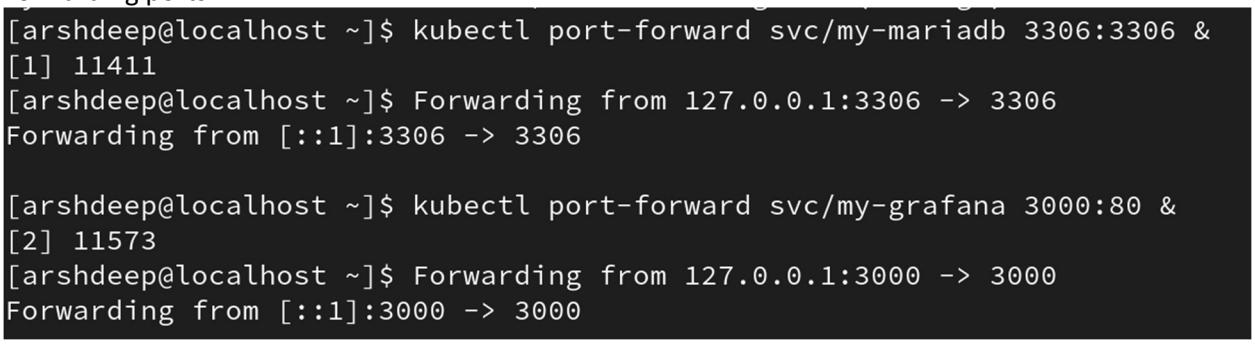
Command to start minikube cluster using docker driver:



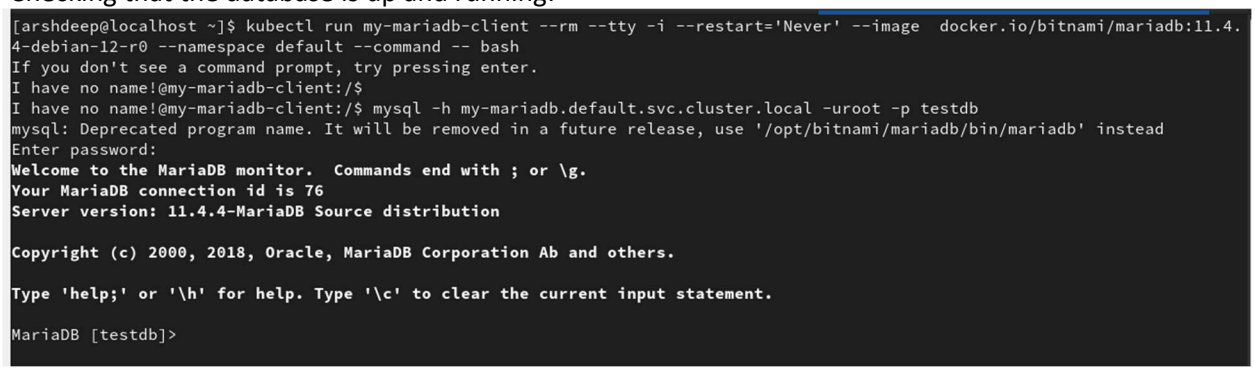
Checking the status of the pods – Grafana and mariadb:



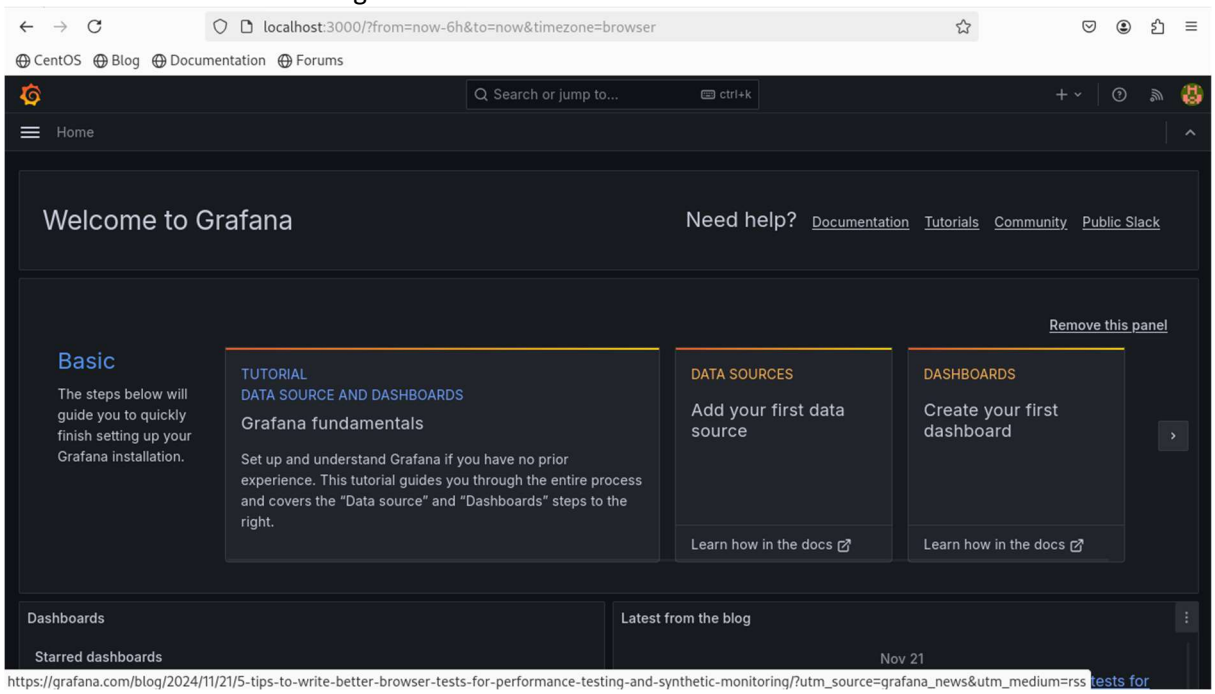
Forwarding ports:



Checking that the database is up and running:



Connection of Grafana through localhost:



Running the robortframe work to create a table in the database:

```
[arshdeep@localhost k8s-automation]$ robot tests/database.robot
==============================================================================
Database
==============================================================================
Create Table and Load Data                                            | PASS |
------------------------------------------------------------------------------
Database                                                              | PASS |
1 test, 1 passed, 0 failed
==============================================================================
Output:  /home/arshdeep/k8s-automation/output.xml
Log:     /home/arshdeep/k8s-automation/log.html
Report:  /home/arshdeep/k8s-automation/report.html
[arshdeep@localhost k8s-automation]$
```

Verifying the database and checking the tables:

```
MariaDB [testdb]> use testdb;
Database changed
MariaDB [testdb]> show tables;
+------------------+
| Tables_in_testdb |
+------------------+
| metrics          |
+------------------+
1 row in set (0.001 sec)

MariaDB [testdb]>
MariaDB [testdb]> select * from metrics;
+----+---------------------+-------+
| id | timestamp           | value |
+----+---------------------+-------+
|  1 | 2024-11-21 19:10:34 |  10.5 |
|  2 | 2024-11-21 19:10:34 |  20.7 |
|  3 | 2024-11-21 19:10:34 |  30.1 |
+----+---------------------+-------+
3 rows in set (0.004 sec)

MariaDB [testdb]>
```

s

Running the command to create datasource and dashboard on Grafana

```
[arshdeep@localhost k8s-automation]$ robot tests/grafana.robot
==============================================================================
Grafana
==============================================================================
Configure Grafana                                                     | PASS |
------------------------------------------------------------------------------
Grafana                                                               | PASS |
1 test, 1 passed, 0 failed
==============================================================================
Output:  /home/arshdeep/k8s-automation/output.xml
Log:     /home/arshdeep/k8s-automation/log.html
Report:  /home/arshdeep/k8s-automation/report.html
[arshdeep@localhost k8s-automation]$
```