Placement Empowerment Program

Cloud Computing and DevOps Centre

100 Days of DevOps Challenge

Day 09 : MariaDB Troubleshooting

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MariaDB Troubleshooting

Objective :

To complete this task, you need to fix the MariaDB service on the database server. The service is down, and the application cannot connect to the database.

Steps Performed :

1. SSH into the Database Server
Connect to the database server using the provided credentials.
- **ssh peter@stdb01**

2. Prepare the Database Directory
Stop the mariadb service, remove the existing data directory, and then recreate it with the correct permissions.
- **sudo systemctl stop mariadb**
- **sudo rm -rf /var/lib/mysql**
- **sudo mkdir /var/lib/mysql**
- **sudo chown mysql:mysql /var/lib/mysql**

3. Manually Initialize the Database
Run the initialization script as the correct user to prepare the database.
- **sudo -u mysql /usr/libexec/mariadb-prepare-db-dir**

4. Start and Verify the Service
Start the service and check its status to confirm it's running.
- **sudo systemctl start mariadb**
- **sudo systemctl status mariadb**

✓

You're done!

CONGRATULATIONS!!!!

You have successfully completed the challenge.Results have been saved. Ref ID:68066f695500bdf7ab9a7b27

That might have been an easy task for you. But don't worry. Depending on the tasks you complete, you will get more difficult and advanced tasks assigned in the future.

You can also view your results in your dashboard under the "Active Practice" page.

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able to connect as any of these users with a password and without sudo

See the MariaDB Knowledgebase at https://mariadb.com/kb

Please report any problems at https://mariadb.org/jira

The latest information about MariaDB is available at https://mariadb.org/.

Consider joining MariaDB's strong and vibrant community:
https://mariadb.org/get-involved/

[peter@stdb01 ~]$ sudo systemctl start mariadb
[peter@stdb01 ~]$ sudo systemctl status mariadb
● mariadb.service - MariaDB 10.5 database server
     Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; preset: disabled)
     Active: active (running) since Wed 2025-08-13 17:44:16 UTC; 11s ago
       Docs: man:mariadbd(8)
             https://mariadb.com/kb/en/library/systemd/
    Process: 2408 ExecStartPre=/usr/libexec/mariadb-check-socket (code=exited, status=0/S
UCCESS)
    Process: 2442 ExecStartPre=/usr/libexec/mariadb-prepare-db-dir mariadb.service (code=
exited, status=0/SUCCESS)
    Process: 2582 ExecStartPost=/usr/libexec/mariadb-check-upgrade (code=exited, status=0
/SUCCESS)
   Main PID: 2537 (mariadbd)
     Status: "Taking your SQL requests now..."
      Tasks: 26 (limit: 411434)
     Memory: 62.9M
     CGroup: /docker/ae0acb8aafe36de1b7ed612d9e7f1e8650567df2063a80503705d07d9d8e6898/sys
tem.slice/mariadb.service
             └─2537 /usr/libexec/mariadbd --basedir=/usr
```

✦ Feedback

✓

Congrats!

You have completed the task successfully.

100 Days of DevOps   Day 9: MariaDB Troubleshooting ✓

30 🪙   300 🔷   ◁ Share your success card