Runbook: Restarting a Database Server

☐ Title: Safe Restart Procedure for Database Server

Applies To: MySQL / PostgreSQL / MSSQL (Adjust steps as per your DB

engine)

Priority: High

Owner: DevOps / DBA Team
Last Updated: July 2025

✓ Objective

To safely restart the database server without data loss or prolonged downtime.

Pre-checks Before Restart

- 1. Inform Stakeholders
 - Notify impacted teams (backend, frontend, analytics).
 - Schedule during a maintenance window (preferably off-peak).
- 2. Check Active Sessions
 - MySQL: SHOW PROCESSLIST;
- PostgreSQL:

sql

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SELECT * FROM pg_stat_activity WHERE state = 'active';

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MSSOL:

sql

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SELECT session_id, login_name, status FROM sys.dm_exec_sessions;

3. Check for Ongoing Backups or Jobs

o Ensure no backups, migrations, or batch jobs are running.

- 4. Take a Snapshot / Backup (If not automated)
 - MySQL: mysqldump -u root -p --all-databases > backup.sql
 - PostgreSQL: pg_dumpall > full_backup.sql
 - o MSSQL: Use SQL Server Management Studio (SSMS) or sqlcmd.

Restart Instructions

- Linux (Ubuntu/CentOS)
- MySQL / MariaDB

bash

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- sudo systemctl status mysql
- sudo systemctl stop mysql
- sleep 10
- sudo systemctl start mysql
- sudo systemctl status mysql

PostgreSQL

bash

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- sudo systemctl status postgresql
- sudo systemctl stop postgresql
- sleep 10
- sudo systemctl start postgresql
- sudo systemctl status postgresql

- 1. Open Services (services.msc)
- 2. Find your DB engine (e.g., MySQL, PostgreSQL, or SQL Server
 (MSSQLSERVER))
- 3. Right-click → **Restart**
- 4. Wait until the status changes to Running

Alternatively (CMD or PowerShell):

powershell

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• Restart-Service -Name "MSSQLSERVER" -Force

Post-Restart Verification

- 1. Check Logs
 - o Linux: /var/log/mysql/error.log or /var/log/postgresql/postgresql-*.log
 - Windows: Event Viewer → Application Logs
- 2. Verify DB Connectivity
 - Use a client (e.g., DBeaver, MySQL Workbench) to connect.
- Run a simple query:

sql

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SELECT NOW(); -- PostgreSQL/MySQL

• SELECT GETDATE(); -- MSSQL

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- 3. Application Health Check
 - Verify the app is connecting to the DB and running correctly.
- 4. Monitor for 10-15 mins
 - Keep an eye on CPU, memory, and disk I/O
 - Linux: htop, iostat, vmstat
 - Windows: Task Manager or Resource Monitor

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