

Job Title: Database Engineer & Site Reliability Engineer (SRE)

Experience: 4-5 Years

Location: Bangalore

Employment Type: Full-Time

Job Summary:

We are seeking an experienced **Database Engineer & Site Reliability Engineer (SRE)** with **4-5 years** of expertise in managing both **relational and non-relational databases** within AWS Cloud environments. The ideal candidate will be responsible for optimizing, securing, and maintaining cloud-based databases while ensuring high availability and reliability through **SRE best practices**. This role requires close collaboration with cross-functional teams to drive **database performance, scalability, and reliability**, supporting the **development and release management lifecycle**.

Key Responsibilities:

1. Database Design & Implementation:

- Extensive experience working with **relational databases** (PostgreSQL, MySQL) and **non-relational databases** (MongoDB).
- Expertise in managing cloud-based databases using **AWS RDS, DynamoDB, Aurora**, etc.
- Design and implement **efficient database architectures, data models, and schemas**.
- Optimize **indexing, partitioning, and storage strategies** to enhance scalability and performance.

2. Database Maintenance & Optimization:

- Oversee **AWS Cloud DB instances**, ensuring optimal resource allocation and performance monitoring using **AWS CloudWatch** and other tools.
- Continuously enhance database **performance** through query optimization, indexing, and performance tuning.
- Execute database **migrations, upgrades, and patch management** with minimal downtime and risk.
- Develop and implement **backup, recovery, and disaster recovery strategies** for cloud-based databases.

3. Site Reliability Engineering (SRE) Responsibilities:

- Implement and manage **Infrastructure as Code (IaC)** for database provisioning and management using **Terraform or AWS CloudFormation**.
- Ensure database **reliability, availability, and performance** by leveraging **SRE principles** (SLAs, SLOs, and SLIs).
- Establish **monitoring and alerting** systems for proactive issue detection (AWS CloudWatch, Prometheus, Grafana).
- Automate routine **database operations and troubleshooting** to enhance availability and minimize manual intervention.

4. Release & Deployment Planning:

- Collaborate with development teams to manage **database scripting and release management**.
- Utilize **version control systems** (Git, SVN) to maintain database releases with traceability.
- Develop and execute **robust deployment strategies** for database schema changes and upgrades.

5. Database Monitoring & Performance Analysis:

- Set up and maintain **monitoring tools** to track **database usage, query execution times, and resource utilization**.
- Generate regular reports and statistics to optimize resource allocation and scalability.
- Identify and resolve **database bottlenecks** to improve system efficiency and cost management.

6. Collaboration & Communication:

- Work closely with **development, QA, and IT teams** to troubleshoot and resolve complex database-related issues.
- Effectively communicate with stakeholders to ensure database changes align with business goals.
- Support **application performance optimization** by identifying and addressing database-related bottlenecks.

7. Documentation & Reporting:

- Maintain comprehensive **documentation** for database structures, configurations, and procedures.

- Develop **detailed reports and dashboards** using BI tools such as **Power BI, QuickSight, or Tableau**.

Qualifications & Skills:

- Bachelor's / Master's degree in **Computer Science, Information Technology, or a related field**.
- **4-5 years** of experience as a **Database Engineer / DBA**, managing **relational (PostgreSQL, MySQL, SQL Server) and non-relational (MongoDB) databases**.
- Strong expertise in managing **AWS cloud databases** (AWS RDS, Aurora, DynamoDB).
- Deep understanding of **database architecture, data modeling, and schema design**.
- Proficiency in **performance tuning, indexing, and query optimization**.
- Knowledge of **backup and recovery strategies, disaster recovery planning, and security best practices**.
- Experience in **release management, deployment strategies, and version control systems** (Git, SVN).
- Hands-on experience with **monitoring and automation tools** (AWS CloudWatch, Prometheus, Grafana).
- Strong grasp of **SRE best practices**, including SLAs, SLOs, and SLIs.
- Excellent **communication and collaboration** skills with cross-functional teams.
- Experience with **Business Intelligence (BI) tools** (Power BI, QuickSight, Tableau) is a plus.