

DHEERAJ KUMAR REDDY K

e-mail_id: dheeraj.kandula890@gmail.com

phone: +91-6304352540

PROFESSIONAL SUMMARY:

- **Cloud DBA** with **4+ years** of hands-on experience in managing and administering **PostgreSQL** databases on **AWS Cloud**.
- Extensive knowledge on **PostgreSQL Architecture**, including **replication**.
- Proficient in **installation, configuration, and maintenance** of PostgreSQL database systems.
- Experience in **creating and managing** Databases, schema deployment (To support application team) user creation, Role creation & granting privileges.
- Experience in implementing database **backup, retention policies** and **recovering** procedures using **pg_dump, pg_dumpall** and **pg_restore**.
- Proficient in performing PostgreSQL database **upgrades**.
- Experience in generating **pgbadger report** using PostgreSQL log files on daily, hourly basis and analyzing the past performance of the database.
- Experience in **benchmarking** the database.
- Skilled in **performance tuning** and troubleshooting to maximize database efficiency and minimize downtime.
- Experience in **monitoring, alerting** and **troubleshooting** database issues, identifying **bottlenecks**, and implementing **effective solutions**.
- Proficient in **shell scripting** language, to automate routine tasks and enhance productivity.
- Experience in **scheduling** the maintaining jobs such as Analyze, Vacuum, reindex and Vacuum full using **crontab**.
- Skilled on creating and managing **Amazon web Services** such as **EC2** (Load balancing, Auto scaling), **ECR, VPC** (Subnet, Route table), **S3, RDS/AURORA, ECS, IAM, EBS, CLOUD WATCH** and have leveraged RDS and AURORA to create and manage database instances, configure replication, and implement **disaster recovery solutions, failover mechanisms**.
- Skilled on **managing** both **Aurora** and **RDS** for PostgreSQL databases, ensuring **high availability, scalability, and performance**.

TECHNICAL SKILLS:

Operating system	Linux (Centos, RHEL)
SCM tools	GIT, Github
Continuous Integration and Continuous deployment Tools	Jenkins
Build tools	Maven
Code Analysis	SonarQube
Artifactory tools	Nexus
Web Servers	Apache Tomcat
Containerization tools	Docker
Configuration Management tool	Ansible
Orchestration Tools	Kubernetes
Cloud Environment	AWS
RDBMS	PostgreSQL (10.x/11.x/12.x...), RDS, RDS AURORA, MySQL
Database Tools/Utilities	PgAdmin, Pgbadger, pg_dump ...,

WORK EXPERIENCE:

- Working as **Cloud DBA** in **Capgemini** from June 2019 till date.

EDUCATIONAL QUALIFICATION:

- Bachelor of Technology (B.Tech) from **CBIT Engineering College, J.N.T.U.A** in **2019** with **9.12** CGPA.

PROJECT DETAILS:**PROJECT 2:**

Client : Abbott
Role : Cloud DBA
Environment : PostgreSQL 10.x/11.x/12.x,
RDS, AURORA
Operating System : LINUX REDHAT 7.x, 8.x,

ROLES AND RESPONSIBILITIES:

- Proficient in managing and administering **Amazon RDS** and **RDS Aurora** database instances.
- Skilled in **deploying, configuring, and maintaining** RDS instances across various database engines such as PostgreSQL, MySQL Server.
- Part of Implementing **failover** mechanisms and performed seamless **promotions** in **high availability** by ensuring features like **Aurora Replicas, Read Replicas, and Multi-AZ deployments** PostgreSQL setups, offering continuous database availability for critical applications.
- Worked on **Upgrading** databases.
- Created **alerts** on RDS/Aurora postgres for **monitoring** CPU, freeable memory, Read IOPS, Write IOPS, etc...,
- Performed installing, configuring, and fine-tuning **PGWatch** to gather and analyze **performance metrics** such as CPU Utilization, Memory Usage, Disk I/O, Database Connections...,
- **Monitoring** databases and database Backup failures and re-run failed production **backups**.
- Automation of Monitoring to generate mail **alerts** for resources and backup failures.
- Resolving **DB resource issues** and **user connection issues**.
- Troubleshooting issues found in **alert log** and requests received.
- **Automated** PostgreSQL Database Tasks to improve operational efficiency.
- Good knowledge in **integrating** PostgreSQL database automation processes into **CI/CD** pipelines, ensuring rapid and reliable deployment of database changes.
- Knowledge in configuration management tools like **Ansible** to automate provisioning, configuration, and deployment of PostgreSQL databases, with guaranteeing consistency across environments.
- Designed and implemented **backup and restore processes** for PostgreSQL databases, utilizing tools like **pg_dump** and **pg_restore**.
- Implemented and managed PostgreSQL **extensions** such as **pg_stat_statements, pg_stat_monitor, TimescaleDB...**, to enhance database functionality
- Monitoring the **scheduled jobs** and resolve the issues if failed.
- Responsible for **DB availability, security and reliability**.
- Monitoring and maintaining DB's for their **Optimal Performance** and ensuring 100% availability of the DB's.
- Supported On-duty work for the production support **24*7**

PROJECT 1:

Client : Sprint
Role : PostgreSQL DBA.
Environment : PostgreSQL 10.x/11.x/12.x,
AWS EC2.
Operating system : LINUX REDHAT 7.x, 8.x,

ROLES AND RESPONSIBILITIES:

- **Installing, configuring** PostgreSQL using source code, RPM and one-click installation.
- **Backup and Recovery** of PostgreSQL Databases
- Configuring **PG_Admin** tool for database connectivity from the client locations.
- Maintained and optimized database and application **performance** through **tuning**.
- Strong experience in handling Database **Logical** and **Physical Backups**.
- Expertise in Applying database **patches** and **upgrading** database from lower version to higher version.
- **Refresh** Test, Dev and QA ENV to the latest data from the production.
- Analyze Log report and **optimize queries** through query plan.
- Database **maintenance** activities (Vacuum) on quarterly/half yearly basis.
- Developed **Shell scripts** and automation of the regular database tasks.
- Attending weekly and scheduled **meetings**.
- Responsible for **DB availability, security, reliability, Performance efficiency** and operational excellence with observability.
- Install customized **extensions** like pg_stat_statements.
- **Capacity management** for effective resource utilization and optimization.

