

Rajesh Govindan

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Summary

- ❖ Over 20 years of experience with expertise in Database Architecture and Design, System Administration and Application Management.
- ❖ Experience in administration, migration and production support for AWS RDS Postgresql/Aurora and Oracle databases.
- ❖ Expertise in leading/managing team of DBAs in large, complex mission critical environments

Technical Summary

Platforms	:	AMI, OEL/Centos 7.6, Solaris, HP Unix 11i, Windows
RDBMS	:	Postgres SQL, Aurora, Oracle 12c, 11g, 10g, 9i, 8.x Couchbase, MongoDB, Mysql 5.5, Appengine, Google Cloud SQL
Languages	:	Shell Scripting, Perl, Python, PL/SQL, VB 5.0,6.0
Data Replication	:	AWS DMS, Debezium, Data Coral, Postgres native replication, GoldenGate 12.2, Streams
Database Tools	:	DataDog, Grafana, Cloudwatch, SQL Developer, SQL Loader, DPA(Solarwinds)
Data warehousing	:	Datanet, Informatica 7.1, DAC, Cognos 10.2, OBIEE, Microstrategy 7
Hardware/Storage	:	EC2, Dell, Cisco UCS, Pure Storage, EMC DataDomain(DDBoost), Pure Flashblade, Compaq Proliant and HP servers
Other Tools	:	Cyral, Snowflake Cloudwatch, S3, Oracle Exadata, Terraform, Cloudformation, Chef Cookbook, Git, Github, Athena, Quicksight, OCI, Oracle RAC/ASM, OEM 13c

PROFESSIONAL EXPERIENCE

Flexport Inc

June 2023 – Oct 2023

Sr Cloud Database Engineer

- Administered and managed high volume Amazon RDS/Aurora databases using Terraform(IaC) and Gitlab in high availability environment spanning multiple regions (FE, EU and NA)
- Architected seamless promotion of unencrypted Amazon RDS instances to encrypted in RDS Postgresql using near zero downtime replication technologies such as DMS and logical replication.
- Setup monitoring of RDS/Aurora instances using Datadog and scaling of RDS/Aurora instances and replicas based on usage using Terraform modules.
- Enabled simple and safe access management of database instances (RDS/Aurora/Mongo) in a self service model using Cyral sidecar repo with SlackBot integration
- Worked on setting up data streaming framework to transfer data from Postgres to Kafka Topics/Debezium and moving data to Snowflake.
- Periodical schema refreshes were created and scheduled using Lambda step functions.
- Experience in managing 3 node Mongo DB cluster and addressed performance bottlenecks.
- Data obfuscation to secure PII data was also done using Dagster.

- Worked extensively on query tuning for Postgres instances and made recommendation for faster access of data.
- Handled database upgrades from Postgres 11.x to Postgres 14.x and higher with rollback instances to facilitate application requirements

Amazon Inc

Feb 2021 – May 2023

Database Engineer

- Administered and managed Amazon RDS databases in Aurora Postgresql/Mysql in high availability environment spanning multiple regions (FE, EU and NA)
- Migrated Amazon RDS instances in Postgresql/Aurora to higher versions with near zero downtime replication mechanism using AWS DMS.
- Performed Point in Time restore(PITR), restored databases from snapshots and manual failovers to reduce application downtime as part of DR strategy in MAZ(Multi AZ) environment.
- Worked extensively on query tuning for Postgres instances and made recommendation for faster access of data.
- Handled database upgrades from Postgres 9.x to Postgres 13.x and higher with rollback instances to facilitate application requirements
- Performed capacity planning on RDS instances and completed instance class upgrades based on the performance criteria to support Prime week traffic.
- Monitored job runs in Datanet(Amazon BI) and optimized long running Quicksight queries to troubleshoot and fix performance issues.
- Designed and automated jobs by triggering Boto3 calls for making changes in RDS instances or fixing violations using Python.
- Exported Databases/tables from RDS snapshots to S3 using parquet format removing so that Production databases remain untouched for such requests.
- Experience in managing code versioning tools like Git, Github as part of sending CR requests for automation projects..
- Deployed RDS Proxy using Target groups/Load balancer/VPC endpoint service leveraging Python/Cloudformation/Lambda across the fleet in multiple regions to support application requirements.
- Encrypted keys using KMS as well as rotated secrets using Secrets Manager for RDS proxy setup as well as new database creations.
- Extensively worked on IAM policies for Database setups as well as RDS proxy setups.
- Deployed and monitored pipelines as part of Production CR push spanning multiple regions
- Managed multiple Redshift clusters and performed parameter changes to queue configuration based on the job priority.
- Designed dashboards using AWS cloudwatch metrics to review performance metrics on granular level as well as troubleshooting performance issues.
- Used performance insights and enhanced monitoring for troubleshooting performance issues on RDS instances
- Periodical cleanup of any unused schemas/databases based on custom built dashboards thereby saving on operational costs.

Xactly Corporation

Jun 2014 – Jan 2021

DBA Lead

- Migrated Pod and performed Infrastructure upgrades using Oracle Goldengate with near zero downtime migration.
- Experience in Oracle 11G RAC Administration with 18c Cluster/ASM environment.

- Performed POC as well as production OCI setup using Terraform CLI.
- Managed multiple OLTP and Data warehouse Databases running several Terabytes.
- Monitor the growth of businesses and identify the list of sub-partitioning candidates
- Proactively monitoring ASM Diskgroups and adding space by creating disks from Pure and adding it in Oracle ASM.
- Completed POC on Exadata RAC with 11g RAT testing and presented a holistic view on the Database performance to the management.
- Setup Couchbase Cluster with design of XDCR replication between geographical sites to meet application requirements.
- Experience with OUD(12c) and Oracle Security features like using Oracle Wallet Manager for encryption.
- Completed POC for AWS on EC2 cluster and performed a detailed analysis on the performance.
- Migrating 3 Node Couchbase Cluster to 5 Node cluster across Datacenters using XDCR.
- Installation, configuration and support of Postgres Cluster DBs(EDB) with Primary/Standby and Witness on VMs and Physical hosts.
- Migrated Non ASM DB to ASM setup on 2 Node RAC as well as Single Node RAC.
- Worked on setting up RMAN backups on DataDomain(DDBoost) as well Pure Flashblade.
- Worked extensively on taking snapshots/replication from Pure as part of Staging/Data restore refreshes.
- Automate Oracle Database Installs using Chef Cookbook and customized recipes.
- Monitoring poorly running queries, identifying performance bottlenecks using SQLT and creating SQL Baselines/Profiles to make efficient plans.
- Developed and implemented backup, restore and recovery procedures and disaster recovery plans as part of random drills for Oracle database systems.

PREVIOUS EXPERIENCE

E-Touch Systems Inc

- **Google Inc, Mountain view (Sr. Oracle DBA)**
- **NASA (Sr. Oracle DBA)**

Feb 2011 – Jun 2014

Jan 2008 – Jan 2011

Citibank, LIC, NY (Oracle DBA)

June 2007 – Dec 2007

Verizon Data Services (Oracle DBA)

Mar 2006 – May 2007

Citigroup (Oracle DBA)

Jan 2005 – Mar 2006

Brigade Corporation , India (Technical Analyst)

Jan 2003 – Dec 2004

EDUCATION & CERTIFICATIONS

- ❖ **Master of Science in Computer Information System MS(CIS) - SNHU, USA**
- ❖ **Associate In Science (AS) - SNHU, USA**
- ❖ **Microsoft Certified System Engineer (MCSE)**