**Chakravarthi Ayyala**

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Professional Summary

20+ years experience in IT, of which 15+ years experience in databases as an Administrator & Programmer. Well versed with Unix Shell Scripting as well. In the current position, supporting Oracle/Postgres/Redshift & AWS Cloud Infrastructure & migrated databases of an ERP from Oracle to PostgreSQL. Worked in smaller to bigger companies like Yahoo!, Fox and Intuit. Have experience in all phases of a Project/Product(SDLC) Life Cycle. Played vital roles in ProdOps/DevOps and Data Center moves.

Technical Skills

Oracle 10g, 11g, 12c, 13c for OEM, Oracle 19c, RDS Postgres, Aurora Postgres, Redshift, MySQL, MongoDB(NoSQL), SQL Server, SQL, PL/SQL, T-SQL, Procedures/Triggers/Packages, Solaris, Linux, AIX, Golden Gate, Unix Shell Scripting, Tableau.

AWS Cloud Infra/DevOps support, EC2s, S3, EBS Storage, Security Groups, IoT, GitLab, Airflow, Cloudwatch, SNS Topics/Notifications, CFTs (YAML), CA Certificates, Ansible.

Backups (RMAN/OS/Storage Snapshots), Database Server Turning, Query Tuning, Database Patching/Upgrades/Migrations, ASM, DB cloning(RMAN/Storage Snapshots).

Professional Experience

Deloitte Feb 2021 - Sep 2021

Database Administrator

This is a huge project migrating from legacy Mainframe to Salesforce. Mulesoft, tcVision and PostgreSQL were involved as part of the migration. Supported multiple Development Teams on AWS Aurora PostgreSQL. Reviewing the code, writing the Triggers/Functions, writing background jobs, working with replication slots, performing upgrades, participating in the Design Spikes. Used JIRA for issue tracking and we followed monthly sprints here.

Thomson Reuters Sep 2020 – Dec 2020

Database Architect

Lead database migrations from Oracle to PostgreSQL as well Aurora PostgreSQL. Prior to the migration, all the source databases were hosted in Oracle and which were the backend databases for multiple customer facing applications running on EC2s in Amazon Managed Services in various AWS regions. There were around 20 Business Applications to be migrated from Oracle to Postgres. Lead the pilot projec, designed & created templates for the issue tracking reported by AWS SCT, searched in Oracle to Aurora PostgreSQL playbook for Recommended fixes and created support cases where needed and successfully carried out the migrations. The Pilot application lead by me, helped the subsequest database migrations.

Reliance Steel & Aluminum Co., Cypress, CA 01/2017 – 06/2020

DBA/DBRE/AWS Support

Supported on-prem Data Warehouse teams for smooth running of their nightly load jobs. Performed Partition Maintenance as some data was sitting in different partitions to achieve an ideal partition situation. Also, responsible for building an Enterprise Data Warehouse in AWS cloud, by taking data from 2 ERP systems as the source. While building the Enterprise Data Warehouse in the cloud, I was an influencer in the Data Governance team so as to decide who should see what data, who are the producers and who are the consumers so that tight security is implemented. Created Aurora PostgreSQL clusters as well Postgres RDS. Performed upgrades of PostgreSQL. Cloned RedShift from the snapshots. Used MongoDB for storing warehouse issues/complaints.

Participated in Team discussions to understand the business requirements and contributed for modelling Enterprise Data Warehouse. Responsible for one of the Mission Critical Database, which is responsible for 40% Revenue of the Company. This was running in Oracle. Troubleshoot critical issue on SQL server related to a metal center ERP.

Wrote shell scripts for archive log generation monitoring, alert monitoring, SageMaker Notebooks.

Helped Data/Business Analysts in tuning the queires used in the On-prem data warehouse applications involving millions of rows and multiple tables.

Aided SysAdmins in troubleshooting an important & critical issue during an OS upgrade, which reduced the maintenance window, which resulted in opening the application for business much quicker.

Documented all the work on GitLab wiki pages and shared the same with the team members. Examples include:

The steps for upgrading GitLab to 12.x and the issues during the upgrade

Slack notifications for monitoring the running EMRs and SageMaker Notebooks using AWS CLI & Bash Shell scripts to save Revenue for the Company.

Installed Airflow from scratch on AWS EC2. Administered Airflow, which involves creating users, changing passwords, deleteing users. Used Role Based Access Control(RBAC) here. Documented all the steps in GitLab wiki pages. This setup also involves Celery Executor for asynchronous task execution and RabbitMQ as a message broker for communication among multiple services.

Designed & defined Security Groups involving Ports & Protocols needed for various components/services in AWS.

Followed weekly sprints for a data pipeline project. Launched/Managed EC2 instnaces Linux/Windows/Ubuntu. Defined retention policies for EBS Storage Snapshots, restored snapshots & launched other EC2 instnaces and for recovery purposes. Understood gp2 SSD Volumes and Provisioned IOPS SSD Volumes and chosen the volumes appropriate to the application needs from time to time.

Installed/configured/performance tuned Postgres on RedHat Linux and Ubuntu.

Created Roles, Users, Tables in Postgres. Monitered databases for growth and kept alerting in place. Was involved in Capacity Planning meetings to discuss growth requirements from Application Owners. Was part of 24x7 support rotation. Written CFTs using YAML for launching Redshift & Aurora Postgres in AWS. Analyzed and troubleshot a situation when Java based daily CDC jobs were failing on a Windows EC2. Worked with SysAdmins to give them access on sudo on the needed commands adhering to the company’s security policies on Linux ec2 instances.

Intuit Inc., Woodland Hills, CA 02/2016 – 12/2016

Sr. Database Consultant

Agile methodologies, quarterly security patches, mentoring other Sr. DBA team members/Sr. Developers, KTs with Sr. DBAs in off shore team in Bangalore, Database and SQL tuning

Supported load testing, monitored the sar and DB session waits, identified the problematic queries, generated AWR reports, thought about improvements, tested the thoughts and recommended the solutions.

Documented the process/steps used/followed.

Performed data center swithcovers

Setup/monitoring Oracle Golden Gate replication

Administering Oracle 12c cloud control

Veros, Santa Ana, CA 10/2010 – 08/2015

Sr. Database Administrator

Environment: Oracle 9i thru 12c, SQL 2008/2012, DB2, AIX, Linux, Nagios, Grid Control, BB, NetApp, 3PAR

Responsibilites handled:

Upgraded databases from 11.2.0.1 to 11.2.0.3 and 11.2.0.3 to 12c, migrated one database from RAC to Stand-alone

Converted DBs from non-ASM to ASM, Migrated DBs from AIX to Linux

User/application security. VPDs.

Setting up and monitoring Data Guard

Shell scripting, Switchover/switchback exercises of ADG

Setting-up Grid Control

Helped TIM/TAM security admins

Fox, Beverly Hills, CA 09/2008 – 09/2010

Lead DBA

Environment: Oracle 10g, 11g, MySQL, SQL Server 2008, Red Hat Linux, Nagios, Oracle Enterprise Manager(OEM), WebLogic, HP DL580

Responsibilities in the role of a Database Administrator:

Responsibilities include:

General DB administration, backups, restore tests, assisting in load tests

Setting up and monitoring Active Data Guard, switchover/switchbacks

Administering replication using Golden Gate

Helped application development team in accessing Oracle DB through App servers using J2EE technology

Involved and helped with a data center move

Monitoring the number of database sessions for any increase in the connection

Yahoo! Inc., Burbank, CA 01/2006 – 09/2008

Sr. DBA/Security Analyst

As a Database Administrator

Managed one of World's biggest databases. Primary DBA responsibilities for Yahoo!'s biggest Advertiser database(s), project widely and worldly known as Panama.

As a Change Management Representative

Represented database team in the Daily Change Management meetings presenting the Production Database Change cases

As a Database Security Analyst

Project: Removal of direct login facility as "oracle" OS user.

With mentoring from Manager, well tested all the important scenarios viz. killing pmon process, starting/stopping CRS. Implemented Transparent Data Encryption (TDE).

Project: Enabling Database Auditing in Production Databases.

Tavant Technologies/Argent Mortgage, CA 12/2002 – 01/2006

Senior Database Administrator

Environment: Compaq, Dell 4600, HP-UX, Linux Advanced Server, Sun OS, Oracle v 9.2.0.4, Oracle 8.1.7.4.0, J2EE, Apache

Responsibilities:

Setting up and maintaining Hot Standby databases and Multimaster Replication

Setting up a standby database in Sacramento for Eircom in Ireland

Setting up Oracle 10g RAC as a pilot project and eventually all the environments

Training other DBAs on the RAC setup

Client: Franklin-Templeton Technologies, Dublin, CA 09/2001 – 09/2002

Database Administrator

Several applications running in various operating environments. Responsible for Production databases running on AIX, Sun OS and Windows NT. Used RMAN and SQL BackTrack for database backups.

Responsibilities include:

Estimating database sizing by taking volummetrics from user groups

Working with Oracle support on TARs

shell scripts in Solaris for DB related tasks like for taking backups, monitoring listener, pmon process, checking for certain errors in the alert log etc.

Monitoring backups, TS sizes, RBS

Statspack

Data Modeling

Making the databases compliant to company's security standards

Used SQL BackTrack and RMAN for database backup and recovery

Environment: E10 K/E4500 Sun Enterprise Servers, Sun Solaris v 2.7, 2.8, 8, IBM AIX, Oracle v 9.0.2.1.0, 8.1.7.2.0, 8.0.6, SQL, PL/SQL, Import, Export, Statspack, Oracle Enterprise Manager (OEM), DB Artisan, Oracle Designer, SQL BackTrack v 3.3, RMAN, Veritas HA Clusters

Client: TelePost Inc., Los Gatos, CA 02/2000 - 07/2001

Communication Centric Database Management (CCDM)

Database Consultant & DBA

TelePost Inc. offers various Telecom and Internet based services viz. Conference Center (web conferencing), Presentation Center and Message Center. TelePost Inc. has large customer base in UK, US and Norway.

Responsible for 3 Production databases located in UK, US and Norway and two in-house databases, one for QA and one for development. All production and development databases are replicated using Oracle Multi-Master Replication.

My Responsibilities:

Database Design for User-Signup, Services & Telecom Billing

Development of Telecom Customer Billing. Involved in Data Modeling for this application

Environment: Solaris, Linux, Oracle 8.1.7, Oracle Replication Manager, OEM

Client: Texas Instruments, Houston, TX 04/99 – 01/2000

Engineering Database Management System(EDMS)

DB Consultant & DBA

Responsibilities:

DW DB Design, Uploading Data into Oracle, Backup and DR Strategies by collecting volumetrics and certain information from the user groups

Sizing the Database and Rollback Segments

Interacting with Oracle Word Wide Support for patch loading and other issues

Forms Generation from Designer

Database Modeling and Server Generation using Designer 6

Used crontab for job scheduling

Environment: E3500 Sun Enterprise servers, Solaris R 5.7, Oracle 8.1.5, Developer 6, Designer 6, SQL\* Plus, PL/SQL, Perl, SQL\* Loader, Import, Export

Mahindra-British Telecom Ltd., Pune, India 05/1998 – 03/1999

Software Design Engineer

Involved in the design and development of the system for MITSUBISHI and CHRYSLER. The system has modules Spare Parts, Work Shop Information and Vehicle Information. The system is designed with complete parameter base.

Responsibilities include interaction with the business groups, design review with Dev teams of FHDs and ERDs. Extensively used Designer/2000 to design and generate the database.

Environment: Solaris, Oracle8, Oracle Dev/2000, Designer/2000, SQL, PL/SQL

S K Advanced Technologies Pvt. Ltd., India 02/1995 – 04/1998

Prasad Consultancy Services , India 02/1992 – 01/1995

Education

1998 - MS (Computer Science) – BITS, Pilani, India

1994 - MS (Mathematics) - Osmania University, India

Oracle 9i RAC training - Oracle University

References Available on Request