Henri Siyapdje

PostgreSQL Database Administrator

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SKILLS

Certified AWS Solutions Architect with a wealth of experience and unwavering passion for PostgreSQL database administration. Possess extensive expertise in the installation, upgrade, configuration, backup, and recovery of PostgreSQL servers, spanning versions 9.6 to 14 across standard and cluster environments, and ensuring robust performance and reliability. Fluent in French.

- Implemented **High Availability solutions** with **PostgreSQL like Streaming Replication with EFM 3.9, 4.0**
- Configured **Logical Replication to Higher Versions**
- Performed **Point in time Recovery.**
- **Install, configure, test, monitor, upgrade, and tune new and existing PostgreSQL databases 9.6, 10, 11,12,13, and 14**.
- Recommends and oversees the implementation of database-level **configuration changes to optimize performance**. Ensures maintenance of the physical integrity of all production databases
- **Develop SQL reports** that meet client expectations for the application (used by the custom application)
- **Tuning autovacuum parameters** to ensure up-to-date table stats and reclaim space consumed by dead tuples.
- Ensure **night cron jobs** for **backups, re-Indexing & vacuuming & materialized views** executed properly on 24/7 **high availability Postgres production and development databases.**
- **Monitoring tools such Datadog with PagerDuty**
- Take backups with **pg_dump, pg_dumpall, pg_basebackup, BART.**
- Contributed to **decreasing the need for downtime** by developing and improving **procedures for automated monitoring and** proactive intervention.
- **Studied and stayed current on the features and functionality of PostgreSQL.**
- Proactive managing **standby replication methodologies like Streaming replication and hot standby for disaster recovery**.
- Scheduling daily **Point in time recovery (PITR)** to the development environment for proper product testing.
- **Skilled in implementing robust backup and recovery solutions for SQL Server.**
- **AWS** (Glue, EMR, EC2, ECS, Lambda, S3, SQS, SNS), **Docker,**
- **Experience with data manipulation** and processing techniques.

- **Hands-on experience using MERN stack open - source technology (MongoDB, EXPRESS, REACT, and Node.js)**

Acess Global Service Corporation – PostgreSQL Database Administrator
December 2021 – November 2023

- **Installing and Configuring PostgreSQL** from source or packages on Linux machines.
- Experience **designing database structures, indexes, views, and partitioning.** Implementing backup and recovery.
- **Install, configure, test, monitor, upgrade, and tune** new and existing **PostgreSQL databases 9.6, 10, 11, and 12,14.**
- **Monitored projects like streaming Replication, Logical Replication,**
- **Performed Point In Time Recovery**
- **Conducted a lot of capacity planning.**
- Experienced in **PostgreSQL Enterprise Edition version 9.6** and also in **PostgreSQL Community Edition open source 10, 11, 12, 13, 14, CPU patches**, database Upgrades, Migration, Backup, Recovery, troubleshooting, security, Streaming Replication, Logical Replication.
- **Plans and coordinates the administration of PostgreSQL databases** to ensure accurate, appropriate, and effective use of data, including database definition, structure, documentation, long-range requirements, and operational guidelines.
- **Managed and Administer PostgreSQL on AWS services such EC2, RDS and S3 bucket.**
- **importing data into PostgreSQL on Amazon**
- Used **Python** to create and connect to a database, **create tables, insert and update data.**
- Implemented **automation for Unix and Linux environments using Python and Shell scripts.**
- **Aided with application implementations using primarily Linux platform on AWS.**
- Refreshed the **Development, test, and UAT** environments with **production data**.
- Setup and maintenance of **Postgres master-slave clusters utilizing streaming replication with EFM for automatic failover**
- **Cross-datacenter disaster recovery and backup architecture**
- Performing **schema management, database sizing, and maintaining privileges**.
- **Planning, deploying RDBMS Upgrades/Patches, and performing** other weekend maintenance activities as a part of **On Call support**.
- Establish and maintain **security and integrity** controls.
- Perform **quality control audits** to ensure **accuracy, completeness, and proper usage of data in tables** and various **support tools, such as database dictionaries**.
- **Fixing the memory issues and suggesting the best practices.**
- Responsible for **monitoring environments using monitoring tools such as Datadog with PagerDuty**
- **Performance monitoring and optimization.**
- Experienced in **migrating from on-premises PostgreSQL to Amazon Aurora RDS database.**
- Installing and configuring **Object level replication (Logical Replication).**
  Installing and configuring **connection pooling tools like Pgbouncer and pgpool** etc.
- Configuring **log analysis** tools like **pgbadger**

- **Scheduled maintenance activities to vacuum and analyze to improve** the query response time.
- Maintaining **custom vacuum strategies at table and DB level, Query optimization, and troubleshooting.**
- **Troubleshoots problems regarding the databases.**
- Close collaboration with **engineering on schema** additions and updates.

BANK OF AMERICA - DETROIT, MI
June 2017 – August 2021
PostgreSQL/ Database Administrator

- **Provided comprehensive database administration for PostgreSQL databases**, ensuring optimal performance and data integrity.
- **Designed and optimized database structures, indexes, views, and partitioning** for efficient data retrieval.
- **Implemented robust backup and recovery strategies to ensure data availability** in case of disasters.
- **Monitored database performance and proactively identified** and resolved performance bottlenecks.
- **Maintained security and access controls to safeguard sensitive data.**
- **Collaborated with development teams to ensure smooth** database integration with applications.
- **Experience with AWS transit Gateways, direct connect, peering, VPC, VPC Flow logs, Insights, RT53**
- **Migrated from On-Premises PostgreSQL to Amazon RDS database.**
- **Managed and Administer PostgreSQL on AWS RDS**
- **Using SSL with PostgreSQL DB Instance.**
- **Managing upgrades of PostgreSQL database version from 9.6,10 to 11.**
- **Installed and configured SQL Server**
- **importing data into PostgreSQL on Amazon**
- Used **Python** to create and connect to a database, **create tables, insert and update data.**
- Implemented **automation for Unix and Linux environments using Python and Shell scripts.**
- Refreshed the **Development, test, and UAT** environments with **production data**.
- Active participant in discussions related to **Backup Strategy, and DR architecture**.
- **Patch, Upgrade and keep the PostgreSQL DBs current**.
- Develop and enhance **scripts to automate and execute various DBA tasks**.
- **Planning, deploying RDBMS Upgrades/Patches, and performing** other weekend maintenance activities as a part of **On Call support**.
- Perform **quality control audits** to ensure **accuracy, completeness, and proper usage of data in tables** and various **support tools, such as database dictionaries**.
- Establish and maintain **security and integrity** controls.

CVS - GREENSBORO, NC
Jan 2011 – May 2017
PostgreSQL/Oracle Database Administrator

- **Installing and Configuring PostgreSQL** from source or packages on Linux machines.
- Experience **designing database structures, indexes, views, and partitioning.** Implementing backup and recovery.
- Install and configure and troubleshoot **Ansible.**
- **Experienced in administering and maintaining medium enterprise database servers on Linux servers.**
- Responsible for **issue resolutions and participates in meetings and presentations**.
- Participating in daily meetings to discuss about the **new database design, modeling, and creation.**
- Controlling **migrations of the Schema, database** through the development life cycle.
- Setup and maintenance of **Postgres master-slave clusters utilizing streaming replication with EFM for automatic failover.**
- **Cross-datacenter disaster recovery and backup architecture**
- Performing **schema management, database sizing, and maintaining privileges**.
- Extensive experience with hot Standby (**PostgreSQL 9.6, 11, and 12**).
- **Fixing the memory issues and suggesting the best practices.**
- Responsible for **monitoring environments using monitoring tools PEM, Nagios, Check**
- **Performance monitoring and optimization.**
- Experienced in **migrating from Oracle to PostgreSQL with MTK.**
- Experienced in **migrating from on-premises PostgreSQL to Amazon Aurora RDS database.**

TECHNICAL SKILLS

- ❖ **Operating Systems**
  HP-UX, Sun Solaris OS (5.1, 5.2, 5.3, 5.9, 5,10, 6.1), Red Hat Enterprise Linux, CentOS 7, Oracle Enterprise Linux, and Windows 2008 and 2012 R2

- ❖ **Tools**
  TKPROF, EXPLAIN PLAN, STATSPACK, AWR, and ADDM. Toad, Putty, NX client, WinSCP, Remote Desktop Connection, VNC, Team Viewer, Git, Kubernetes, Jenkins, Docker Software, Ansible Software, Maven

- ❖ **POSTGRESQL**
  pg_pool, pg_dump, pg_dumpall, pg_basebackup, pg_restore, pg_bouncer, pg_pool, BART, pgadmin, PEM, pg_badger, EFM, MTK

CERTIFICATIONS:
- **Software Engineer**
- **AWS Solutions Architect-Associates**
- **EDB 13 Associate Certification**

EDUCATION

Per Scholas, Pittsburg, PA   May 2024
Software Engineering hand-on training

Western Governors University   May 2023 – April 2024
BS in Data Analytics

University of Yaoundé, Cameroon.   **2006 - 2009**
BS in Computer Sciences