

MAYANK SINGH

Senior Analyst - IT



11 Years 2
Months



9718755333



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il.com



PostgreSQL Database Administrator



Core Competencies

- Linux System
- pg_basebackup
- Replication
- pg_dump
- pg_archivecleanup
- pg_restore
- pg_pool
- Barman
- Postgresql Administration
- pg_badger
- timescale_db



Technical Skills

- PostgreSQL-9/10/12/13 [Pg_dump pg_dumpall pg_restore pg_upgrade pg_ctl vacuumdb initdb pgAgent archiving pg_archivecleanup]
- Linux- RHEL-6/7/8 Ubuntu Centos.
- Monitoring Tools- NAGIOS and PEM
- Backup- Barman dump dumpall pgbasebackup
- High Availability: Streaming Replication-Synchronous & Asynchronous Replication Replication Manager.
- Log Analyzer Tool: pgbadger
- Pgadmin



Profile Summary

- **Years of Experience:** 8+ years of hands-on experience in different versions[9.6/10/12/13] of PostgreSQL database administration.
- **Skills:** Proficient in database installation, configuration, tuning, backup and recovery, monitoring, and security.
- **Tools:** pg_basebackup, pgbadger, pgbarman, pg_archivecleanup, pgpool, pg_stat_statements
- **Monitoring Tool:** PEM, Nagios.
- **Team Player:** Collaborative communicator and effective problem solver, with a strong commitment to meeting project deadlines and exceeding expectations.
- **Adaptable:** Quick learner and adaptable to new technologies and environments.
- **Detail-Oriented:** Meticulous in database maintenance, ensuring optimal performance and data reliability.



Education

MCA, 2012

Indira Gandhi National Open University (IGNOU)

BCA, 2010

Indira Gandhi National Open University (IGNOU)



Personal Information

Date of birth **31-Jan-1991**

Gender **Male**

Address
**110, II Floor, Manav Enclave,
Mohali, Punjab**

City **Mohali**

Country **INDIA**

12th, 2007

Uttar Pradesh, Hindi

10th, 2005

CBSE, English



Work Experience

Jul 2023 - Present

Senior Analyst - IT

In2IT Systems & Services Pvt. Ltd.

Client: SITA SOC Ltd. (South Africa)

Project Details:

- CATS OSS/BSS (operations support systems)/(business support systems)
- Pro-Watch (Employee Productivity Management System)
- iProvision (Workflow Building Management System)
- iProcess (Infrastructure Management System)

Responsibilities:

- Administering large PostgreSQL databases, ability to do performance tuning/index maintenance, experience of backing up and restoring PostgreSQL database on a regular basis.
- Designing and Managing PostgreSQL database schemas, experience in Security access control experience with testing experience with configuration management experience with version control.
- Responsible for all backup, recovery, and upgrading of PostgreSQL databases.g, Development, Staging and Production PostgreSQL databases.
- Hands on position responsible for configuring, integrating, and maintaining, Development, Staging and Production PostgreSQL databases.
- Responsible for all backup, recovery, and upgrading of PostgreSQL databases.
- Monitoring databases to optimize database performance and diagnosing any issues.
- Manage and maintains all production and non-production databases.
- Participate in on-call rotation to provide 24/7 support for critical production databases.
- Providing Different Database Environments for Development Team to work on DEV environment.

- Automate routine database tasks using scripting languages and tools (e.g. Bash).

Jun 2023 - Jul 2023

Database Administrator

Orbit Techsol India Pvt. Ltd

Client: RailTel Corporation of India Ltd (Data Centre Gurgaon).

Project Details:

- E-Sushrut C-DAC's Hospital Management Information System
- E-Office NIC's Paperless Office Solution

Responsibilities:

- Administered, supported and monitored databases by proactively resolving database issues and maintaining servers.
- Monitoring of all the DB Instances, using Nagios and PEM (Postgres Enterprise Manager) monitoring tool.
- Analyzing Database logs by using pgBadger PostgreSQL log analyzer tool.
- Scheduling the Postgresql Database jobs by using pgAgent job scheduler.
- Maintenance of Production (45+) and Staging (15+) Database Servers.
- Installation of PostgreSQL Community version or EDB Postgresql Advanced Server for New production or staging Servers on Linux environment
- Performed Memory tuning, WAL Configuration, Archiving, Replication, Checkpoint configuration, connection settings, etc
- Preparing Staging Instance for UAT Team.
- Tracing, troubleshooting with database performance, and tuning issues Set up and controlled user access levels across databases to protect important data.
- Hands-on in implementing backup and recovery strategies using Hot/Cold backup
- Responsible for all backup, recovery, and upgrading of all PostgreSQL databases.
- Monitoring databases to optimize database performance and diagnosing any issues.
- Accomplished Migration of PostgreSQL Servers: 9.6 to 10
- On-call support 24x7

Sep 2022 - Jun 2023

Database Administrator

Akiko Sherman Infotech Pvt Ltd

Client: RailTel Corporation of India Ltd (Data Centre Gurgaon).

Project Details:

- E-Sushrut C-DAC's Hospital Management Information System
- E-Office NIC's Paperless Office Solution

Responsibilities:

- Administered, supported and monitored databases by proactively resolving database issues and maintaining servers.
- Monitoring of all the DB Instances, using Nagios and PEM (Postgres Enterprise Manager) monitoring tool.
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- Tracing, troubleshooting with database performance, and tuning issues Set up and controlled user access levels across databases to protect important data.
- Hands-on in implementing backup and recovery strategies using Hot/Cold backup
- Responsible for all backup, recovery, and upgrading of all PostgreSQL databases.
- Monitoring databases to optimize database performance and diagnosing any issues.
- On-call support 24x7

Aug 2022 - Sep 2022

Project Manager

Akal Information Systems Ltd.

Client: RailTel Corporation of India Ltd (Data Centre Gurgaon).

Project Details:

- E-Sushrut C-DAC's Hospital Management Information System
- E-Office NIC's Paperless Office Solution

Responsibilities:

- Administered, supported and monitored databases by proactively resolving database issues and maintaining servers.
- Monitoring of all the DB Instances, using Nagios and PEM (Postgres Enterprise Manager) monitoring tool.
- Analyzing Database logs by using pgBadger PostgreSQL log analyzer tool.
- Scheduling the Postgresql Database jobs by using pgAgent job scheduler.
- Maintenance of Production (45+) and Staging (15+) Database Servers.
- Installation of PostgreSQL Community version or EDB Postgresql Advanced Server for New production or staging Servers on Linux environment
- Performed Memory tuning, WAL Configuration, Archiving, Replication, Checkpoint configuration, connection settings, etc
- Preparing Staging Instance for UAT Team.
- Tracing, troubleshooting with database performance, and tuning issues Set up and controlled user access levels across databases to protect important data.
- Hands-on in implementing backup and recovery strategies using Hot/Cold backup
- Responsible for all backup, recovery, and upgrading of all PostgreSQL databases.
- Monitoring databases to optimize database performance and diagnosing any issues.
- On-call support 24x7

Jun 2019 - Aug 2022

Sr DBA

PS QuickIT Pvt. Ltd.

Client: National Data Center (NDCSP), New Delhi

Project Details:

- eHospital Management System
- eBloodBank Management System
- ORS
- Telemedicine

Responsibilities:

- Maintenance of Production (100+) and Staging (10+) Database Servers
- Installation of PostgreSQL for New production or staging Servers on Linux or Windows environment
- Performed Memory tuning, WAL Configuration, Archiving,

Replication, Checkpoint configuration, connection settings, etc

- Deployment of Build on Production Server: Script execution, Log monitoring, and Error Detection Tracing, troubleshooting with database
- performance, and tuning issues Hands-on in implementing backup and recovery strategies using Hot/Cold backup
- Responsible for all backup, recovery, and upgrading of all PostgreSQL databases.
- Monitoring databases to optimize database performance and diagnosing any issues.
- Accomplished Migration of PostgreSQL Servers: 9.6 to 10
- Providing On-call support 24x7

Aug 2016 - Jun 2019

Database Administrator

Silver Touch Technologies Pvt Ltd.

Client: Government Medical College and Hospital (GMCH), Sector 32, Chandigarh

Project Details:

- eHospital Management System.
- eBloodbank Management System.

Responsibilities:

- Performed Monitoring and Maintenance of Production(5) and Staging Database Servers
- Accomplished Installation of PostgreSQL-10 for staging Server on Linux VM Machine.
- Memory tuning, WAL Configuration, Archiving, Replication Deployment of Build on Production Server
- Script execution, Log monitoring, and Error Detection Sharing Log Errors with Developer to work on application issues.
- Tracing, troubleshooting with database performance, and tuning issues.
- Established VM Machine for staging.
- Dump Backups in different formats

May 2016 - Aug 2016

Sr. Software Developer

Velocis Systems Pvt Ltd.

Client: All India Institute of Medical Sciences (AIIMS, New Delhi)

Project Details:

- eHospital Management System.
- eBloodbank Management System.

- ORS

Responsibilities:

- Understanding user requirements and functional specifications of all modules of the Project.
- Designing test cases defect reporting and tracking using Mantis Bug tracker Tool to open up bugs to resolve issues.
- Perform various black methodologies like functionality, usability, regression, retesting.
- Ensure proper manual testing to ensure quality of software with latest builds Provide onsite training to Client as sitting on client site.
- Accomplished the Deployment of the Builds on Staging and production server.
- Established staging environment to perform the Testing.

Aug 2015 - Apr 2016

Sr. Programmer

Silver Touch Technologies Pvt Ltd.

Client: All India Institute of Medical Sciences (AIIMS, New Delhi)

Project Details:

- eHospital Management System.
- eBloodbank Management System.
- ORS

Responsibilities:

- Well acquainted with all phases and stages of Software Development Life Cycle (SDLC) and Software Testing Life Cycle (STLC) with good working knowledge of testing methodologies, disciplines, tasks, resources and scheduling.
- Understanding user requirements and functional specifications of all modules of the Project.
- Designing test cases defect reporting and tracking using Mantis Bug tracker Tool to open up bugs to resolve issues.
- Perform various black methodologies like functionality, usability, regression, retesting.
- Ensure proper manual testing to ensure quality of software with latest builds Provide onsite training to Client as sitting on client site.
- Accomplished the Deployment of the Builds on production server.
- Established staging environment to perform the Testing.
- My entire experience spans all phases of Software Testing Life Cycle (STLC) and has been involved in Agile Testing, Adhoc Testing, Functional Testing, Regression

Testing, Exploratory Testing, Cycles including CUI and GUI. Analyzing & Documenting Test Results for Applications developed on Windows Platforms within timescales against plan.

Oct 2012 - Aug 2015

Operation Manager

Nelito Systems Ltd.

Client: All India Institute of Medical Sciences (AIIMS, New Delhi)

Project Details:

- eHospital Management System.
- eBloodbank Management System.

Responsibilities:

- Understanding user requirements and functional specifications of all modules of the Project and consolidating it into a document and sharing with concern team
- Designing test cases, defect reporting and tracking using Mantis BT Bug tracker Tool to open up bugs to resolve issues.
- Provide onsite training to the Client as sitting on client site
- Perform various black methodologies like functionality, usability, regression, retesting.
- Ensure proper manual testing to ensure quality of software with latest builds Provide onsite training to Client as sitting on client site.
- Accomplished the Deployment of the Builds on production server.
- Established staging environment to perform the Testing.



Courses & Certifications

- ISTQB Foundation level 2018
- ISTQB Agile certified 2018