

# JESSICA CLAIRE

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## PROFESSIONAL SUMMARY

Dynamic Database Engineer devoted to maintaining reliable computer systems for uninterrupted workflows. Delivers up-to-date methods to increase database stability and lower likelihood of security breaches and data corruption. Offers detailed training and reference materials to teach best practices for system navigation and minor troubleshooting.

## SKILLS

### Technical Skills:

- Oracle 19c/18c/12c/11g/10g/9i, 18c/12c/11g RAC/ASM, EXADATA, MS SQL Server 2016/12/08, MySQL, MariaDB, MongoDB
- RedHat Linux 4.x, 5.x, 6.x 7.x, Solaris 10, 11, AIX 7.1, HP-UX 11i, Windows 2008/12.
- SQL, PL/SQL, T-SQL, UNIX Shell scripting, C, C++, Perl
- Amazon Web Services(AWS), Oracle Cloud Infrastructure(OCI)
- Interfacing with Oracle Corporation for technical support.
- Environments: Oracle 10g/11g, MS SQL Server 2005/2008, Redhat Linux 4.x/5.x, Sun-Solaris 10, RMAN backup & recovery, AWR & ADDM, STATPACK, TKPROF, SQL Trace

## WORK HISTORY

### Senior Database Engineer, 08/2017 - Current

**Humana Inc.** – Ormond Beach, FL

- Installation, Configuration and Maintenance of Oracle 19c/12c RAC on new servers with Redhat Linux 7.0/6.0
- Upgraded several databases from 11g/10g to 12c and then 12c to 18c/19c with databases sizing 1 TB to 10 TB
- Migration of Databases from Non-RAC to RAC clusters and also between cross-platform HP-UX to Redhat Linux
- Troubleshooting RAC issues like bugs, network issues, configuration files issues, OCR issue, and Node eviction issue
- On RAC systems did CRS upgrade, ASM upgrade, DB Upgrade and OEM Agent Upgrade
- Supported SAN Migrations: Moved ASM disk groups from server to server and Add/drop disks from the existing Diskgroups
- Breaking up RAC for few instances and Added new cluster nodes to the existing clusters (Added 4 nodes to the existing 3 node cluster )
- Configuration and Implementation of Dataguard Physical / Logical Standby Databases and Automating the Monitoring / Resolving on and off Gap or lagging issues
- Installed, configured and upgraded Golden gate for Oracle database and enable real-time data integration and continuous data availability by capturing and delivering updates of critical information as the changes occur and providing continuous data synchronization across heterogeneous environments
- Capture, Propagation, Apply using Golden Gate
- Worked on Implementing Disaster Recovery strategies for RDS Oracle databases and documented into confluence page
- Hands on experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, S3, Elastic Beanstalk, ELB (Load Balancers), RDS, VPC, Direct Connect, Route53, Cloud Watch, Cloud Formation, IAM, SNS etc
- Configured and installed, involved using AWS services such as EC2, Data Pipeline, S3, RDS and EMR
- Architecting new DBA solutions in AWS
- Provide domain expertise of open-source and commercial relational DBMS products and services (Oracle 11g/12c, SQL Server, PostgreSQL, AWS RDS) and NoSQL databases (e.g
- MongoDB, Cassandra databases
- Defined AWS Security Groups, which acted as virtual firewalls that controlled the traffic, allowed reaching one or more AWS EC2 instances
- Installed the application on AWS EC2 instances and configured the storage on S3 buckets
- Worked on migrating Oracle databases to AWS RDS using utility AWS Database Migration Service (DMS)
- Implemented and maintained the monitoring and alerting of production and corporate servers such as EC2 and storage such as S3 buckets using AWS Cloud Watch
- Creating S3 buckets and managing policies for S3 buckets and Utilized S3 bucket and backup on AWS
- Worked on AWS Oracle databases for App migration into private cloud
- Worked on AWS Database Migration Services for migrating data from Oracle to RDS
- Hands on experience in implementing DataGuard High Availability Environment on RDS Oracle Databases
- Worked on Configuring and installation of DataGuard Broker on AWS Servers
- Worked on configuring and installing Data Guard Broker and implemented FSFO in Higher Environment
- Implement and maintain database security (create and maintain users and roles, assign privileges)
- Implemented RAT (Real Application Testing) Testing to run POC test for 12c upgrade on most critical databases
- Configuration and implementing various RMAN Backup and Recovery using Catalog or controlfile
- Configuration and implementing DBDOOST and TAPE (TDPD) Backup and Recovery
- Configuration and implementing Automating Datapump Backup jobs (Full DB, Schema Level, Table Level)
- Frequently Cloning/Refresh Databases using RMAN, DBDOOST, Datapump export and import utilities
- Configuring and performing Flashback, Restore point, Archivelogs managing and Recovering Block-corruption using RMAN
- Pro-actively Monitoring and Management Databases using OEM GRID Control
- PL/SQL and Shell scripting to Automate Monitoring, Backup jobs, cleanup and Reporting jobs using CRONTAB as well as DBMS\_SCHEDULER utilities
- Performance tuning by Fine Tuning Initialization parameters, I/O, Memory, storage and Operating System kernel parameters, Oracle SQL, optimizer, and query plan, optimize queries and performing PL/SQL code profiling
- Troubleshooting the Database Performance issues by analyzing Automated Workload Repository (AWR), Active Session History (ASH), Automatic Database Diagnostics Monitor (ADDM) reports, using SQL Adviser & UNDO Adviser tools, OEM GRID, TOAD
- Tracing Blocking / Locking and Long Running sessions, Wait Interface
- Capacity Planning as per Data growth and work-load by working closely with other decision making Teams such as Development, Business / Clients
- Apply CPU, DST, RDBMS patches to RAC Databases as per the requirement
- Supporting OS Patching activity for all RAC Servers
- Create databases for development, testing and production (including RAC databases and NON-RAC databases)
- OEM / GRID (OGC) installation and configuration for monitoring and performance tuning
- Performed Range Partitioning as a cause to improve the performance of the database
- Database monitoring and maintenance activities which include checking alert logs, space management, undo management, gathering database statistics, database locking issues, scheduling of jobs, creation of users, schemas, table spaces and other database objects
- Environments: Oracle 19c/18c/12c/11g RAC/ASM, Golden Gate, SharePlex, SAN, OEM 13c/12c, DataGuard, Toad, DataPump, AWR/ ADDM, ASH, SQL
- LOADER, PL/SQL, UNIX Shell scripting, RMAN, Oracle Enterprise Linux 5/6/7, Sun Solaris, HP-UX 11, Windows, AWS, OCI.
- Contributed to internal activities for overall process improvements, efficiencies and innovation.

### Senior Database Administrator, 01/2014 - 07/2017

**Solute** – Philadelphia, PA

Performing all the Database Administration activity like space management in database, user and roles administration, schema management of all databases

- Set up and controlled user profiles and access levels for each database segment to protect important data.
- Experienced in automating routine server tasks and alerts using various scripting technologies Unix Shell scripting, batch files, configure alerts through OEM.
- Implementing 11g Data guard with one physical database
- Used OEM Grid Diagnostic and tuning packs to tune application and SQL queries
- Installation, Configuration & Administration of Oracle 11gR2 RAC
- 7 production support for day to day operations and On Call responsibilities
- Working knowledge of Exadata
- Involved in moving of OLTP databases to Exadata environment
- Attended EXADATA workshop familiar with Smart scan, Hybrid column compression, Flash cache and IROM
- Implemented Hugepages and performed Exadata health check on newly build Exadata environments
- Optimization and tuning SQL queries using TRACE FILE, TKPROF, EXPLAIN PLAN
- Extensive usage of ADDM, AWR, ASSM, features of 10g/11gR2
- Database structure changes, table/index sizing, SGA sizing, SQL, I/O and Application tuning, transaction monitoring, detecting lock contentions, tuning sort operations
- Timely Reorganization of tables and rebuilt of indexes to improve the performance of the SQL queries as part of scheduled maintenance window
- Developing online RMAN backup scripts to automate backup procedures
- Database Export/Import and evaluating the Backup and Recovery Procedures periodically & performing backups using RMAN
- Restoration and recovery from backup as timely manner to support application development team for testing
- Cloning of application from production environment to test environment using 11g new feature active database cloning and application of patches
- Configure and manage Oracle Advanced Security features Oracle Database Vault and Oracle Wallet manager for Encryption
- Security Administration including the management of profiles, roles, users and their privileges
- Providing controls on users with the required permissions and preventing them from performing unauthorized changes to databases
- Administrated User accounts by creating users, roles and privilege and managing those using grants and profiles
- Configure and manage Database Auditing
- Configure and manage Database Gateway for Oracle Heterogenous Services
- Clone RAC databases with various strategies like Cold/Hot/Logical Refresh and RMAN Backup
- On RAC systems did CRS upgrade, ASM upgrade, DB Upgrade and OEM Agent Upgrade
- Cloning from cluster database to Normal database and Cloning from Normal database to cluster database
- Handled all standard database administrative tasks, such as: proactive performance tuning and monitoring, trouble-shooting, back-up and recovery, installations and configurations on an as needed basis
- Transformed logical database designs into physical databases
- Build and implement test, quality assurance, and production databases and environments
- Coordinated strategies to move data between databases
- Created SQL tuning sets and SQL profiles for better optimization
- Database monitoring and maintenance activities which include checking alert logs, space management, undo management, gathering database statistics, database locking issues, scheduling of jobs, creation of users, schemas, table spaces and other database objects
- Have used different tools like TOAD, DBArtisan, EXPLAIN PLAN, AWR, ADDM, TKprof, Oracle Enterprise Manager (GRID CONTROL) 12c to solve the performance issues
- Helped developer in installing Oracle Client, troubleshoot and establish the connection to Oracle database through JDBC
- Responsible for monitoring RMAN backup jobs and analyze tables and indexes of Oracle database periodically for better performance
- Extensively used SQL, PL/SQL
- Designed Data Model using Erwin
- Installed, Configured & Supported MySQL databases
- Managed Data Repository / Datawarehouse Databases, performing necessary structural changes and ETL activities using Pentaho tool
- Environments: Oracle 11g, RAC/ASM 11gR2, MySQL, OEM 12c, DataGuard, RMAN, DataPump Expdp/Impdp, Erwin Data Modeling, Pentaho, RHEL 4/5, AIX 6.1/7.1, Windows 2008 server.

### Database Administrator, 07/2012 - 12/2013

**Sentry** – Little Rock, AR

On-Call 24x7 DBA support for production databases

- Implemented and supported 10g/11R2 RAC consisting of 2 to 8 nodes
- Managed multiple terabytes of databases
- Created database users, roles; manage database user security, passwords for all Development engineers/users
- Implemented 10g/11g Data guard with one physical database
- Automated housekeeping and monitoring jobs using Global scripting
- Installed and upgraded OEM 12.1.0.1 and 12.1.0.2 to 12.1.0.3
- Implemented Oracle Stream replication on database, Schema level and table level
- Implemented Oracle streams replication for both DML and DDL operations
- Trouble shooting of various database performances by proper diagnosis at all levels including SQL, PL/SQL, database design, database tables, indexes, Instance, memory, operating system and java calls
- Installed RAC on Oracle 10g and 11gR2 and worked on ASM feature of Oracle
- Security User Management, Privileges, Roles, Auditing, Profiling, Authentication
- Upgraded multiple databases from 9i,10gR1,10.2.0.4 to 11.2.0.3
- Performed DR test in regular intervals for mission critical environments
- AS a part of database upgrade Involved in Upgrade Oracle TDE Encryption from 10g to 11.2.0.3
- Installed agents for MySQL and Timesten and DB2 databases as part of OEM 12C configuration
- According to the end user business requirement implemented transparent data encryption on RAC 11g
- Extensive Performance Tuning, Memory (SGA) Tuning, RAC tuning, Net backup, EMC (Time finder and SRDF), RAID, RAW Devices
- Data Migration as part of enterprise data warehouse project
- Used Triggers for database activities, including delete, update, and insert triggers for multi-master Replication
- Cloning databases using scripts as well as RMAN
- Installation, setup and configuration of DataGuard
- Used PL/SQL, SQL Loader as part of ETL process to populate the operational data store
- Perform Oracle replication (advanced Queues, materialized views etc.)
- Recovery of Database (Recovering from Media Failure, Recovering tables dropped accidentally, Recovering data files, Recovering from Block Corruption)
- Supported development effort by providing SQL statement tuning and optimizing ETL procedures and removing load and query performance bottlenecks by using tools Explain Plan, SQL Trace, TKPROF and Oracle Enterprise Manager
- Based on user scope and security purpose restricted users by using virtual private database (VPD)
- Also implemented VPD for sensitive information protection
- Solid discipline in providing end-users timely updates on their problems
- Installing server software
- Addition of users, objects etc
- As and when required and granting proper privileges for Database access
- Taking care of database by checking the size the database and addition of table spaces, data files
- Extensively worked with ASMCMRD for managing ASM environment
- Made use of the REF CURSORS in stored procedures for report generation
- Daily Health Check Up of the Database using STATSPACK, AWR, ADDM
- Optimal Space utilization in tablespace by avoiding fragmentation
- Tuning SGA, I/O Tuning, Identifying contention, waits and tuning
- Taking periodic Backup of the Database and the software using RMAN and VERITAS NETBACKUP
- Able to work effectively with multiple teams at once
- Able to thrive in a fast-paced, time compressed and dynamic environment
- Solid skills and discipline for Change Management practices processes
- Involved in the process of tuning and refining queries of various applications
- Written scripts for Health Check of Databases, Analyzing of Tables and Rebuilding of Indexes

## EDUCATION

### Master of Science: 12/2012

**Cvs Health** – Champaign, IL

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### Bachelor of Technology: Electronics And Communication Engineering, 05/2011

**Jawaharlal Nehru Technological University** - Hyderabad, India

## ACCOMPLISHMENTS

- 10+ years of experience in Information Technology in various roles as an Database Administrator having hands on experience in database administration and performed different tasks like installation, Configuration, Upgrades, Patches, Performance Tuning, Golden Gate, Backup and Recovery, Production Support, Cloning, Space Management, Database Security, Enterprise Manager(OEM) and Shell Scripting
- Install and configure Container and Non - Container databases, Pluggable databases - Architecture, Installation and the concepts associated with database
- Hands on experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, S3, Elastic Beanstalk, ELB (Load Balancers), RDS, VPC, Direct Connect, Route53, Cloud Watch, Cloud Formation, IAM, SNS etc
- Automated RMAN Backups, Data pump, cloning, space management, database security, cloning, migration, AWS DMS, AWS KMS, AWS IAM, AWS ADG, AWS RDS, AWS EC2 and documentation
- Configured and installed, involved using AWS services such as EC2, Data Pipeline, S3, RDS and EMR
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