**K. Santosh**

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**Over** **8+ years** of experience in Oracle Databaseadministration, installation, configuration, production support, performance tuning, backup and recovery, space management, database security, cloning and migration in production and development environments of Oracle Databases.

**Summary:**

* Excellent experience in **installation,** setup and **configuration** of Oracle **9i, 10g** and **11gin HP-UX, Sun Solaris, IBM AIX, Windows and UNIX/Linux** environment, **RAC, Golden Gate** especially in **Exadata..**
* Experience in designing and configuring high-availability systems using **physical standby (Active Data Guard).**
* Provided and implemented **Performance tuning** recommendations of all components in **Exadata database machine.**
* **Golden gate** setup to achieve unidirectional replication and **Golden gate database** user with necessary privileges.
* Hand on experience in cloning the non-multitenant container database to **pluggable database i**n **12c** using the **PDB Metadata clone, PDB Remote Clone and PDB Snapshot** cloning feature.
* Troubleshoot memory leaks related to Oracle 12c database instance, ASM instance and tuning applications related issues, queries associated **with pluggable databases**. Troubleshoot complex problems with root cause analysis during product deployment/release.
* Created container and **pluggable** databases.
* Advised guidance and developed **Disaster Recovery** strategies for the **Exadata Database machine.**
* Participated in Oracle **golden gate 12c** installation, configuration and management, and supporting **Bi-directional** data replication.
* Expertise in Implementation and managing of High Availability solutions like **Oracle RAC, Data Guard, Golden gate Bi-directional replication.**
* Worked with **migrations** from **MySQL**. For exact versions of supported databases.
* **11g/10g** **Automated Storage Management (ASM)**installation , configuration  and maintenance
* Expertise in setting up Data Guard **Failover, Switchover**, Read-Only scenarios.
* Fabricated multiple **CLONING** databases using manual method and **RMAN** utility.
* Implemented development, testing, staging, production, **RAC** and standby databases for **OLTP**, **DSS** and **Data Warehousing** using **customized shell scripts** and stepwise.
* Installation, maintenance and tuning of Oracle 12c, 11g, 10g **RAC** databases including **ASM** and **CRS**, **Oracle e-Business Suit.**
* Expertise in Installation, maintenance, up gradation, administration, backup and recovery of **Oracle RAC** Databases.
* Implementation of Oracle Backup and Recovery strategies in **Data guard** and **RAC** environment.
* Performed **FLASHBACK** features to handle efficient database recovery.
* Experience in using **RMAN** for backup and recovery, **Materialized Views**, **Export/Import**, **Data Pump** and **Data Guard**.
* Having hands on experience **in Hot/Cold Backup, Recovery, RMAN backup and recovery, Data Guard Broker, Disaster Recovery environment.**
* Expert in implementing **development, testing, staging, production** and **standby databases** for **OLTP**, **DSS** and **Data Warehousing** using customized **shell scripts** and stepwise.
* Implementing **standby database** and **database replication** to provide high availability of database.
* Expert in implementing **oracle streams**, and two types of standby databases supported by **data guard**, **logical standby** and **physical standby databases.**
* Performed tuning of Oracle Wait Events/Latches-Enqueues/Memory structures using Automatic shared memory management (ASMM), ASH and Buffer Cache Advisors.
* Hands on experience in **Performance Tuning** and **Memory (SGA) Tuning.**
* Expert in **Performance Tuning** i.e. tuning applications, shared pool, I/O distribution, rollback segments, buffer cache, redo mechanisms.
* Performance monitoring and tuning using **Stats pack, Automated Workload Repository (AWR) and Automatic Database Diagnostics Monitor (ADDM).**
* Monitoring & Reorganizing **Tablespaces /Tables/Indexes**.
* Effective troubleshooting of database and performance problems.
* In-depth understanding of Logical and Physical Design of Databases.
* Managing **Database Structure, Storage Allocation, Table/Index segments**, **and Rollback segments, Constraints, Database Access, Roles and Privileges.**
* Excellent experience in **OLTP/DSS** database systems, implementing and managing large Oracle databases **(VLDB).**
* Extensive knowledge of **Oracle Architecture**, **SGA**, **PGA**, **Binary structure**, **Listener**, **TNS Names**, **SQL Net**, **V$ views**, **DBA views** and **Data modeling**, **Logical and Physical databases** design using tools like **Erwin** and **Visio**.
* Proficient in managing Oracle Instance, database storage structure, schema objects.
* Good experience in **applying Patches (Patching), Critical Patch Update (CPU)/Patch Set Update (PSU)** and **One-off Patches using O-Patch and run installer,** also involved in Upgrading and Migration of a Oracle server to higher version available.
* Supported the system **24x7.** Ability to work **beyond regular hours**. Carried primary and secondary support roles with pager rotation to support during weekends, Holidays and beyond regular hours.
* Excellent interpersonal, analytical and communications skills.

**Technical Skills:**

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| **RDBMS** | Oracle 12c, Oracle 11g(11.2.0.2, 11.1.0.7) Oracle 10g (10.2.0.2, 10.2.0.5) , Oracle(9i),(8i), XML/XQuery Database, Teradata SQL Assistant, Oracle X2/X3/X4 full rack Exadata machine |
| **Operating Systems** | Red Hat Enterprise Linux, SunOS, IBM-AIX, HP-UX, SUSE Linux, Windows 2000/XP. |
| **Web Technologies** | C, C++, SQL Server, PL/SQL, MySQL 2000,2005, Java, J2EE, Shell Scripting, Perl, PHP, XML, HTML/XHTML. |
| **Utilities & Tools**: | Oracle Enterprise Manager/Grid Control, SQL Trace, Oracle Data Guard, RMAN, EXP, IMP, Data Pump (expdp, impdp), TOAD, DBLINK, EXPLAIN PLAN, TKPROF, STATSPACK, ASH, AWR, and ADDM. |
| **High Availability.** | Cloning, Active Data Guard, RMAN, Export/Import, Data pump, RAC, Oracle 12c PDB, Golden gate replication(DB2, Kafka, Mongo DB,MS SQL Server). |

**PROFESSIONAL EXPERIENCE:**

**Client: Anthem, Mason, OH. Feb 2018 ---till date**

**Role: Database Admin Goldengate SME**

Responsibilities:

* **Installation, configuration and maintenance** of **Oracle11gR1** and **11gR2** databases.
* Installation, maintenance and tuning of **Oracle 12c**, 11g, 10g **RAC.**
* **Upgraded** Oracle databases from **10g to 11gR2**.
* Tuned **GG** to handle large volumes of data for high transaction tables
* Installed **GG for heterogeneous** environments such as **DB2, mssql** server.
* Worked on Goldengate replication with **kafka team and Mongo DB**.
* Monitored **real-time unidirectional** data movement.
* Setting up **Before and After Image captures** for Conflict Detection and Resolution
* **Installation, Upgradation**, Configuration and Troubleshooting **GoldenGate 12c** software.
* Configured **GoldenGate Downstream Mining and Integrated** components for Active-Passive and Active-Active replication.
* Configured **GoldenGate High Availability** using Active DataGuard.
* Installed and configured GoldenGate to work with **OEM GoldenGate Plugin**.
* Performed Schema level and Table level data refreshes from Production to Development environments using **Datapump EXPDP/IMPDP**.
* Monitored the various database activities such as Backup, Error Logs, Space, Object, Performance, User and Session monitoring.
* Involved in **User Management** and Database Security by granting appropriate Roles, Privileges, and Profiles.
* Creating the **database, tablespaces, tables, indexes**, settings privileges and user logins.
* Troubleshoot system issues, monitored scheduled jobs and set up maintenance plans for proactive Monitoring.
* Troubleshooting archive log transport failures for standby database
* Performed DBA **day-to-day** activities like monitoring space availability, adding data files, user security
* Provided technical support for Oracle Server to customers for Production Database
* Supported customers to manage their operational data ranging from **GB to TB** in Oracle database, solving space allocation issues
* Refresh schema using **Export/Import.**
* Mentor / Help team members for resolving various db related issues.
* Installations / upgrades of 11GR2 Grid Infrastructure and RDBMS for Prod and Non Prod environments.
* Production Support for **11Gg/10g RAC** & Standalone databases.
* Migration of databases from **Non-ASM to ASM** Storage including conversion from Standalone to Cluster environments.
* DB cloning using **RMAN from RAC** to Standalone database.
* Developing **shell scripts for RAC** & Standalone databases.
* Managing ASM disk groups & tablespaces.
* Monitoring the availability of system, **listener, database, alter log file, trace file**.

**Environment:** Oracle 12c, 11g R1, R2 (11.2.0.1) (11.2.0.2) (11.2.0.4), RHEL 4.2, IBM AIX 5.2, Windows XP, SQL\*Plus, SQL\*Loader, OLTP, OLAP,RAC, OEM, PL/SQL Developer, Exadata, Oracle 12c PDB, Import/Export, Golden gate Bi-directional replications, Oracle Golden Gate 11g,12C.

**Client: Hosparus Health, Louisville, KY. April 2016 – Jan 2018**

**Role: Sr. Oracle DBA/Goldengate**

**Responsibilities:**

* 24x7 production database and applications support.
* **Installation, configuration and maintenance** of **Oracle11gR1** and **11gR2** databases.
* Installation, maintenance and tuning of **Oracle 12c**, 11g, 10g **RAC.**
* **Upgraded** Oracle databases from **10g to 11gR2**.
* Implemented High availability using **Golden Gate Replication**. Implanted **bi-directional** replication using Golden Gate.
* Setting up High Availability **Oracle Golden Gate** OGG systems on Oracle 11gR2 RAC environments with **Oracle Exadata** X4 Full Rack
* Configured **Oracle Golden gate Bi-directional replication** to meet the reporting and backup database needs.
* Creating a new **PDB**, Plugging in an **unplugged PDB**, cloning a **PDB,** migrating a non-CDB as a PDB.
* Unplugging and dropping a **PDB** and deleting a **PDB.**
* **Cloned plugged database in** existing **container database** and Installed apex in oracle **12c pluggable databases.**
* Configured **ASM** file system and administering **ASM Instances and Disk Groups in RAC**.
* Performing day-to-day database administration tasks like Table space usage, checking alert log, trace files, monitoring disk usage, Table/index analyze jobs, database backup logs etc.
* Integrated of **Exadata** monitoring into our existing IT monitoring **framework**. Provide and implement **performance** and **tuning** recommendations of all components in the **Exadata** **machines**
* Migrated Database between servers using **Data pump Export/Import**.
* Experience in **Performance Tuning** and **Memory (SGA) Tuning.**
* Managing services on multiple nodes using **SVRCTL.**
* Involved in the implementation of Oracle **11g Data Guard** on physical standby databases.
* Planning **Backup/Restoration** Strategy, Planning and scheduling Backups, taking **Logical Backups** (with **Export/Import Data pump** utilities).
* Installation on **Unidirectional** Oracle **Golden Gate** Databases.
* Configured and administered **Golden Gate**.
* Maintained databases in OLTP and OLAP environments.
* **Performed tuning** of Oracle Wait Events/Latches-Enqueues/Memory structures.
* Creating database objects in operational data store and maintaining them in **Golden Gate.**
* Implemented initial **Data Load, Batch/Online replication**, Security in **Golden Gate.**
* Automated many common tasks including Backups, exports and imports, archiving old records and verification of such processes.
* Creating & Managing Database Structures**, Storage Allocations**, **Table/Index segments,** Constraints, Database Access, **Roles and Privileges.**
* Successfully **Migrated** database from **11g** to **12c** versions.
* Regular DBA activities like **Undo segments**, **Rollback segments**, database **auditing**, **space management**, database issues, locking, managing user groups and tuning.
* Monitored production database using automatic workload repository **(AWR),** automatic database diagnostic monitor **(ADDM)** and Active Session History (**ASH**).
* **Refresh/Cloning** of huge database (3 TB to 10 TB) using **RMAN**.
* Configuration of **RAC Database** for Track Wise 8.0 and logical standby for reporting needs.
* Check **Blocking Sessions** Any Blocking run away session.
* Implemented 11g Oracle **STREAMS** for **DATA REPLICATION** across databases in a high transactional 11g **RAC** data environment.

**Environment:** Oracle 12c, 11g R1, R2 (11.2.0.1) (11.2.0.2) (11.2.0.4), RHEL 4.2, IBM AIX 5.2, Windows XP, SQL\*Plus, SQL\*Loader, OLTP, OLAP,RAC, OEM, PL/SQL Developer, Exadata, Oracle 12c PDB, Import/Export, Golden gate Bi-directional replications, Oracle Golden Gate release 2.

**Client: Uptake, Chicago, Il. Jan 2014 – March 2016**

**Role: Sr. Oracle DBA**

**Responsibilities:**

* Provide database administration on Production, testing and development database servers.
* Install, configure and administer of databases for applications on **Red Hat Linux systems** in various environments.
* Implemented Golden Gate **unidirectional and Bi-directional** replication on RAC using ACFS file system.
* **Golden gate Bi-directional** (Active-Active), Broadcasting and unidirectional.
* Installation and Configuration of Oracle 10g Real Application Clusters (**RAC**) on 4 nodes with Automatic Storage Management (**ASM**).
* Performed database cloning to setup test and development database.
* Upgrading production and development databases to Oracle 11g.
* Applied Oracle Applications and database patches.
* Implementation of high availability solutions with Oracle 11g **RAC**, **Physical** and **Logical Standby database** (**Data Guard**), Materialized views, **Golden Gate**.
* Troubleshoot memory leaks related to Oracle 12c database instance, ASM instance and tuning applications related issues, queries associated **with pluggable databases.**
* **Node** addition and deletion during election to serve business needs. Moved **Pluggable databases** between the **container databases** and created **pluggable database** from seed database.
* **Golden Gate** Heterogeneous replication using Log miner utility.
* Monitoring and Troubleshooting of **Database Replication** issues using **Golden Gate** dealt with conflict resolution and performance issues.
* Monitor and maintain security by managing roles/privileges for users of the databases.
* Apply the **PSU patches** and **RMAN patches** to the binaries as well as to the databases.
* Cloned/Refreshed Oracle Databases and Oracle Applications for development and testing.
* **Performance tuning** of Oracle Database, applications and queries.
* Conduct Pre-patch analysis for different types of patches as requested by customer.
* Set up boxes and install required software and prepare operation guides for the same.
* Work closely with application teams in troubleshooting issues, support root cause analysis and resolve issues.
* Frequently tested and updated development databases to production as well as used database cloning.
* Applying Patches 11.2.0.3 and **applying Oracle DST Patches on Oracle database**.
* Actively involved in security administration adopting the principle of least privilege, managing default user accounts, implemented standard password security features, auditing database activity, and registering & applying security updates and Advanced Oracle security.
* Performed and maintained database backups using Enterprise Manager or RMAN as well as OS utilities.
* Supported **OLTP** & **OLAP** systems across multiple platforms.
* Configured and utilized **Recovery Manager Catalog.**
* Responsible for the installation of **Oracle Patches** and **software upgrades** and Delivery to customers.
* Responsible for configuring high availability solutions like **Active Dataguard**.

**Environment**: Oracle 11g R1, Java, SQL 2008, PL/SQL, Toad, Pl/SQL Developer, Erwin , OLTP , OLAP, Oracle 12c Pluggable database, O/S: RHEL 4.2, Windows 2003 with Active Directory, RAC, Golden gate bi-directional replication, OEM, RMAN, Export/Import, ASM Packages.

**Client: BASF, Raleigh, NC. June 2013 – Dec 2013**

**Role: Sr. Oracle DBA**

**Responsibilities:**

* Oracle Apps Database Migration using **11g RMAN Transportable table space**.
* Implementation of high availability solutions with Oracle 11g, **Physical** and **Logical Standby database** (**Data Guard**), Materialized views.
* Review of Database logical and Physical design.
* Performed Tuning, coding and Monitored Oracle **Real Application Clusters (RAC)** nodes on **OEM.**
* Used to deal with **Oracle e-Business Suit.**
* Install, upgrade and maintain **Oracle11g R2** on, Sun Solaris and Windows xp, Redhat4.
* Database monitoring and performance tuning using **OEM (Oracle Enterprise Manager) and STATS-PACK**.
* Application Tuning by tuning queries, identifying problematic code, creation of indexes, re-writing queries using an optimized path, Creation of Materialized Views and gathering necessary statistics on objects etc.
* Implementing Database Security, Management of role-based security.
* Expertised in **backup and recovery**.
* Database Restore **using RMAN, Cold Backup and Export**.
* Supported **TERADATA** utilities **FASTLOAD**, **MULTILOAD**, **TPUMP** to load data
* Applying Patches 11.2.0.3 and **applying Oracle DST Patches on Oracle database**.
* Performing day-to-day database administration tasks like Tablespace usage, checking alert log, trace files, monitoring disk usage, Table/index analyze jobs, database backup logs etc.
* Problem analysis involving interactions/dependencies between UNIX and Oracle.
* Extensive Performance Tuning, Memory (SGA) Tuning, Cloning databases using **scripts** as well as **RMAN.**
* **Installation, setup and configuration of Data guard**..
* Security User Management**, Privileges, Roles, Auditing, Profiling, Authentication**.
* Provided Database Technology training to the IT staff and users.

**Environment:** Sun Solaris, SUN SPARC, HP-UX, Windows 98/NT/2000, IBM X Series Server, Oracle 11g R1, 10g, Oracle Enterprise Manager, STATSPACK, TKPROF, TPUMP, EXPLAIN PLAN.

**Client: Genworth Financial, Stamford, CT. Nov 2012 – May 2013**

**Role: Oracle Core DBA**

**Responsibilities:**

* **Refresh/Cloning of Database** and applications for development and testing purpose.
* **Design, document, implement, and maintain all backup, recovery** including disaster recovery procedures.
* Responsible for **Installation** and **configuring** of **10.2.0.4, 11.1.0 R1 Database** in **ASM file system** on **4 node RAC** database.
* Responsible for **Exporting and importing** database using **Data Pump**.
* Created physical standby database (for disaster recovery) from hot backup of primary database.
* Write monitoring/health check scripts to alert team of database uptime/downtime status, sizing issues, which ensured availability 99.98% of the time.
* Creating Tables, indexes, & triggers to assist developers.
* Refresh/Cloning of Database and applications for development and testing purpose.
* Was involved in developing a **disaster recovery (DR) plan.**
* Performing Backup/Recovery of all the **Oracle databases using RMAN**.
* Collecting statistics of the objects etc.
* Performing Backup/Recovery of all the Oracle databases using RMAN.
* Check Database backups completed successfully No errors in backup logs.
* Moving data between databases using Data Pump.
* Involved in implementing **Load balancing and testing failover** on **4 node RAC Database.**
* Performed logical backup of database, schemas, and tables using **Exp/Imp.**
* Responsible for continuous **Monitoring of CPU usage, I/O contention, memory paging and identify the resource and performance bottleneck** and reorganization for ensuring performance.
* Configured Auditing to audit information about database activity

**Environment**: Oracle 10.2.0.4, 11.1.0 R1, OEL 5.3, HP-Unix 11.11, Windows XP, SQL\*Plus, SQL\*Loader, OEM, PL/SQL Developer, Data Pump, TOAD.

**Client: Osair Technologies, Hyderabad, India. March 2011 – Oct 2012**

**Role: Oracle DBA**

**Responsibilities:**

* Planning and scheduling RMAN, hot, cold and Logical Backups.
* Setup and configured 3 node Oracle 10g **RAC with ASM.**
* Upgrading database from Oracle version 9i to 10g and migration of data.
* Involved in the project implementing and configuring Real Application Clusters (RAC) 2 nodes on Oracle 10g with Automatic Storage Management (ASM).
* **Installation** and **maintenance** of **Oracle 9i** on Linux OS.
* **Installed, upgraded** and **patched** Oracle installations.
* Using **Statspack** report for checking the Performance of Database.
* Collecting the statistics of the objects, schema and Database with the help of **DBMS\_STATS** package & Analyze command. .
* Tuning oracle memory (Shared Pool, Buffer Cache).
* Created Users for the Applications, giving them different level of permissions.
* Monitored **database** and **system performance**.
* Configured the **Event Manager** to notify support personnel.
* Worked on application and **database security** (data access, passwords, network, etc).
* Handled daily production problems/change requests with Oracle.
* Installing and troubleshooting Red Hat Enterprise Linux 5.0 for Oracle 9i and 10g and **RAC** setup.
* Performed daily database administration tasks: **User management**, **Space monitoring**,
* Detecting Data Block corruption using DB verify utility & Analyze command.

**Environment:** Oracle 9.2.0.8, 10.2.0.4 & 11.1.0.6, RHEL 4.2, IBM AIX 5.2, Windows XP, SQL\*Plus, SQL\*Loader, OEM, PL/SQL Developer, Import/Export, TOAD.

**Client: Luensen Technologies Pvt Ltd., Hyderabad, India. Aug 2010 – Feb 2011**

**Role: Oracle Core DBA**

**Responsibilities:**

* Database Set up and administer database security (creating new users, roles, profiles, etc.).
* The work involves overall **Maintenance of ORACLE Database**, Performance **Tuning, Backup, Recovery** and other database related activities.
* Monitoring the growth of the database like table, index and tablespaces etc.
* Measuring Instance Performance.
* Refreshed schema using **Export/Import**.
* Created the database, tablespace, tables, indexes, set privileges and user logins.
* Tuning oracle memory (Shared Pool, Buffer Cache)
* Support and performance tuning post go-live.
* Implemented OLAP on Oracle platform using Oracle Express (OLAP server), Relational Access Administrator (RAM), Oracle Sales Analyzer (OLAP front-end) in Oracle 8i / 9i environment, Data Migration as part of enterprise data warehouse project.
* Coordination of the activities with Customizations and System Administration team.
* Worked with Oracle Support to resolve issues.
* Provide Support for all the client-side issues.
* Responsible for setting and managinguser accounts, Granting required privileges to users.
* Reorganization of tables and indexes
* Performed backup (hot backup, cold backup and export) of the databases.
* Worked extensively on **Performance Tuning, Memory (SGA) Tuning, Net backup, EMC (Time finder and SRDF), RAID, RAW** Devices.
* Cloned databases using scripts as well as **RMAN**.
* Installation, setup and configuration of Data guard.
* Analyze the tables and indexes.
* Configured recovery catalog for databases to replicate target database control file.
* Configured and managed Dataguard environment.

**Environment:** Oracle 9i,10.2.0.4,11.1.0.7, OEM 10g grid, SQL\*Loader, Windows XP, IBM AIX 5.3, Solaris5.9, UNIX Shell Scripting, Quest software tools, PL/SQL navigator.

**Education:**

**Bachelor of Technology in Electronics and communications, India.**