RENATO BARROS

Senior Oracle Database Engineer | DBRE | OCI | Exadata | Performance Tuning | Automation | Python | SRE

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PROFESSIONAL SUMMARY

- **25+ Years of IT Experience:** Extensive expertise in infrastructure, enterprise platforms, Linux, Cloud, and Oracle Database, driving the design, operation, automation, and continuous improvement of mission-critical, high-availability environments for enterprise clients.
- **Database Reliability Engineering (DBRE) Specialist:** Responsible for building, operating, automating, and advancing mission-critical Oracle platforms using SRE principles, observability, automation, and Cloud technologies.
- **Collaborative Technical Leadership:** Proven track record in technical leadership, Root Cause Analysis (RCA) for critical incidents, architecture reviews, defining best practices, and collaborating with cross-functional teams in enterprise ecosystems.
- **Comprehensive Database Administration & Operations:** Solid experience in administration, advanced troubleshooting, performance tuning, high availability, backup/recovery, and maintenance of Oracle, PostgreSQL, SQL Server, and MySQL environments across 24x7 global operations and high-severity incidents.
- **Oracle & Cloud Modernization Projects:** Strong focus on migration, modernization, and architectural projects for Oracle environments, including Oracle RAC, ASM, Data Guard, GoldenGate, Oracle Cloud Infrastructure (OCI), Oracle Base Database Service, Exadata Cloud@Customer (ExaCC), Exadata Cloud Service (ExaCS), as well as AWS and Azure implementations.
- **Linux & Automation Expertise:** Hands-on experience with Enterprise Linux environments (Oracle Linux, RHEL, Ubuntu, Debian), infrastructure automation using Python, Terraform, Ansible, and Shell Script, along with containerized environments using Docker and Kubernetes.
- **SAP HANA Support & Integration:** Proficient in troubleshooting, performance analysis, and critical incident resolution for SAP HANA environments integrated with enterprise Linux and data platforms.
- **Advanced Troubleshooting & Tuning:** Deep expertise in AWR, ASH, ADDM, and SQL Tuning, data replication via GoldenGate, high availability, and disaster recovery solutions, serving as a strategic technical advisor.
- **AI-Driven Operational Efficiency:** Leveraging Artificial Intelligence for operational automation, script generation, technical documentation, advanced troubleshooting, and enhancing overall database engineering productivity.
- **Global Project Delivery:** Engaged in global initiatives, collaborating with international, multidisciplinary teams to deliver digital transformations, platform modernizations, and continuous support for high-complexity infrastructures.

CORE COMPETENCIES

- **Cloud & Platform:** AWS | OCI | Azure | Docker | Kubernetes | Terraform | DevOps | Platform Engineering | Observability
- **Automation & IaC:** Python | Shell Script | JavaScript | Terraform | Ansible | CI/CD | Infrastructure as Code (IaC)
- **Databases:** Oracle | PostgreSQL | SQL Server | MySQL | MongoDB (concepts/basic admin) | Cassandra (concepts/basic admin)
- **Database Reliability Engineering:** DBRE | SRE | Incident Management | RCA | High Availability | DR | Automation | Operational Excellence
- **High Availability & DR:** Oracle RAC | Data Guard | GoldenGate | RMAN | Disaster Recovery | Performance Tuning
- **Systems & Operating Systems:** Oracle Linux | Red Hat Enterprise Linux (RHEL) | Ubuntu | Debian | Windows Server | VMware vSphere
- **Containers & Cloud Native:** Kubernetes | OpenShift | Docker | Cloud Native Technologies
- **Oracle Cloud & AWS Solutions:** Oracle Database@AWS | Oracle Database on EC2 | ExaCC | ExaCS | AWS RDS | AWS VPC | Amazon EC2 | Amazon EBS | AWS IAM | CloudWatch | AWS Backup

PROFESSIONAL EXPERIENCE

ORACLE DO BRASIL — Principal Engineer | Senior Oracle Database Engineer (Global CSS)

Oct/2021 – Apr/2026

- **Global Technical Leader:** Global technical reference supporting mission-critical Oracle Database environments for enterprise clients across multiple regions, covering Oracle Database 11g, 12c, 19c, 21c, and 23ai.
- **Advanced Infrastructure Troubleshooting:** Specialized technical support, advanced troubleshooting, and environment analysis for Oracle Database running on Oracle Linux, Oracle Exadata, Oracle RAC, ASM, Grid Infrastructure, Data Guard, RMAN, and Oracle GoldenGate, resolving complex High Availability (HA) and Disaster Recovery (DR) issues.
- **Critical Incident Management:** Handled Sev1/Sev2 critical incidents, executing Root Cause Analysis (RCA), complex troubleshooting, and full recovery of highly complex environments.
- **Performance Tuning Specialist:** Expert in Performance Tuning using AWR, ASH, ADDM, SQL Monitor, and SQL Tuning Advisor to optimize CPU, memory, I/O, SQL queries, and reduce operational costs.
- **Backup & DR Strategy:** Delivered specialized support for Backup & Recovery strategies, high availability, data replication, and business continuity utilizing RMAN, Data Guard, and GoldenGate.
- **Multi-Cloud Architecture & Migrations:** Technical and advisory support for migration, modernization, and architecture projects moving Oracle workloads to OCI, AWS, and Azure, including hybrid architectures, Oracle Database@AWS, Amazon RDS, and cross-cloud integrations.
- **OCI & Specialized Cloud Services:** Supported Oracle Cloud Infrastructure (OCI) services including Compute, Networking, Block Storage, Marketplace, and MySQL HeatWave for modern distributed architectures.
- **Multi-Database Administration:** Managed and troubleshot multi-database platforms (Oracle, SQL Server, PostgreSQL, MySQL) supporting hybrid architectures and platform integrations.
- **Automation & IaC:** Developed automation scripts and pipelines for database administration and monitoring using Python, Shell Script, Terraform, and Ansible, significantly enhancing operational efficiency.
- **Consultative Performance & Capacity Planning:** Provided advisory services on performance analysis, capacity planning, and best practices, assisting clients with metric interpretation and systemic optimization.
- **Advanced Oracle Features:** Specialized technical support for advanced Oracle features including Data Safe, SQL Firewall, AI Vector Search, and new capabilities in Oracle Database 23ai focused on security and governance.

ACCENTURE DO BRASIL — Cloud Mobilization Associate Manager

Jul/2021 – Oct/2021

- **Multi-Cloud Advisory:** Provided technical consulting for large enterprise clients to design robust Multi-cloud migration strategies.
- **Resilient Architecture Delivery:** Served as technical lead in implementing resilient cloud architectures across AWS and OCI.

DB MASTER INFORMATICA CONSULTORIA (Now Sky One) — Senior DBA Consultant (Oracle & SQL Server)

Oct/2020 – Oct/2022

- **Enterprise Consulting:** Specialized consulting in critical Oracle and SQL Server environments with a primary focus on high availability, performance, and maintenance.
- **Oracle Core Administration:** Managed Oracle Database versions (8i through 12c), including RAC, ASM, Grid Infrastructure, and Data Guard.
- **RMAN Backup & Recovery:** Designed and administered automated backup and recovery procedures using RMAN.
- **Upgrades & Patching:** Executed database migrations, version upgrades, and patch applications across Oracle Database and Grid components.
- **Advanced Performance Analysis:** Conducted deep-dive troubleshooting and performance tuning utilizing AWR, ASH, ADDM, and SQL Tuning.
- **Exadata Management:** Administered Oracle Exadata environments (X5 and X7 models).
- **Routine Automation:** Developed administrative automation scripts using Shell Script and PL/SQL.

- **SQL Server Administration:** Managed Microsoft SQL Server platforms focusing on performance, security, backup/recovery, Always On availability groups, and Failover Clusters.

GAMA SAÚDE – QUALICORP GROUP — Senior DevOps Consultant / Infrastructure Specialist
Oct/2014 – Jul/2021

- **Datacenter-to-Cloud Migration:** Architected and led the end-to-end migration from physical datacenters to the cloud, ensuring high availability and scalability.
- **Heterogeneous Environment Tuning:** Optimized Oracle and SQL Server database performance, achieving a 40% reduction in application response times.
- **OS & Infrastructure Management:** Managed Windows and Linux infrastructure, including server provisioning, security hardening, and advanced troubleshooting.
- **Corporate Networking & Security:** Managed enterprise networking, firewalls, and Cisco hardware, guaranteeing security, network performance, and reliable connectivity.
- **DevOps Practice Implementation:** Implemented DevOps methodologies, including CI/CD pipeline automation and continuous support for application development teams.

CAREER HISTORY (INFRASTRUCTURE, NETWORKS & SECURITY)

- **TIVIT DATACENTER** | Senior Network/Security Consultant (2011 – 2012)
- **USS SOLUÇÕES / GAMA SAÚDE** | Network Analyst / Senior Security (2005 – 2011)
- **EUROPE MOVIES** | Senior Network/Security Analyst (2004 – 2005)
- **DM INDÚSTRIA FARMACÊUTICA (MONANGE)** | Senior Network/Security Administrator (2000 – 2004)
- **INFOGT INFORMÁTICA** | Senior Support Analyst (1999 – 2000)
- **TMI TECMONTAL (BANCO BCN)** | Senior Support Analyst (1994 – 1999)
- **JHS CONSTRUTORA E PLANEJAMENTO** | Senior Micro Operator (1991 – 1994)

TECHNICAL SPECIALIZATIONS

- **Cloud & Migration:** Proven experience migrating Oracle environments to AWS, Azure, and OCI (EC2, RDS, hybrid architectures), emphasizing modernization and operational cost efficiency.
- **Oracle Mastery:** Expertise in Exadata (ExaCC, ExaCS, on-premises), RAC, ASM, Data Guard, GoldenGate, RMAN, and advanced tuning tools (AWR, ASH, ADDM, SQL Tuning, RAT).
- **Multi-Database L3 Support:** Tier-3 support, performance troubleshooting, cross-platform migrations, and high-availability design for SQL Server, MySQL, PostgreSQL, and Oracle.
- **Strategic Advisory:** Strategic consulting for new implementations, major version upgrades, and technical interface with primary vendor engineering teams (Oracle, Microsoft, AWS).
- **Architecture Design:** Designing resilient, scalable, cost-optimized, and performance-tuned infrastructure architectures.
- **SAP HANA Ecosystem:** Hands-on experience in SAP HANA support, performance monitoring, troubleshooting, and incident investigation integrated with Linux platforms and enterprise data pipelines.

AUTOMATION & SOFTWARE DEVELOPMENT (DEVOPS)

- **Languages & Scripting:** Development in Python, Shell Script, and JavaScript for automation of critical administration tasks, metrics collection, environment monitoring, and internal engineering tooling.
- **IaC & Configuration Management:** Multi-cloud provisioning and configuration standardization using Terraform and Ansible.
- **Pipelines & CI/CD:** Deployment pipelines for automated database migrations and application integration.
- **Operational Tuning Scripts:** Custom tooling for automated diagnostic checks, health checks, and tuning recommendations.
- **Applied AI in Data Operations:** Utilizing analytical techniques and AI automation for anomaly detection, performance optimization, and predictive monitoring in mission-critical database platforms.

- **Containers & Kubernetes:** Administration, deployment, and support of containerized applications using Docker and Kubernetes to support modern cloud-native architectures.

EDUCATION & CERTIFICATIONS

ACADEMIC EDUCATION

- **Bachelor's Degree in Software Engineering |** Universidade Anhanguera (2024 – In Progress, Expected Completion: June/2027)
- **English Language Proficiency |** UpTIME School – Alphaville — Intermediate (Technical reading, meetings, and documentation)

CERTIFICATIONS

- **Oracle Certifications:** Oracle Database OCP 19c & 23c | Oracle Autonomous Database Cloud Professional | Oracle Linux Specialist | Oracle Performance | Oracle Cloud Database Migration Professional | Oracle Database RAC, ASM and Grid Professional | Oracle Cloud Infrastructure Professional | Oracle Exadata X9M | Oracle Multicloud Professional | Oracle GoldenGate 12c & 19c | MySQL Administrator | Oracle AI Vector Professional | OCI Specialist | Oracle Database@AWS Architect Professional
- **Networking & Security:** CCNA/CCNP (Cisco) | CCSA/CCSE (CheckPoint)

TECHNICAL PROJECTS & PORTFOLIO

- **DBATOOLKIT - Enterprise Database Administration Platform**

  Interactive enterprise platform for database administration, gathering command reference libraries for Oracle, SQL Server, MySQL, and PostgreSQL. Includes troubleshooting guides, performance tuning, backup & recovery routines, operational automation, and interactive learning modules for Database Engineers and Cloud professionals.

  Link: https://rsbarros43.github.io/DBATOOLKIT/

- **Imperva Data Security Enterprise Academy**

  Interactive corporate training platform for Data Security centered on Imperva Data Security. Features practical simulations of data protection, activity monitoring (DAM), security policy definition, compliance, incident response, executive dashboards, and hands-on exercises.

  Link: https://rsbarros43.github.io/Imperva DataSecurityAcademy/

- **Oracle AI Database 26ai - Data Guard Enterprise Academy**

  Interactive enterprise training platform for Oracle AI Database 26ai - Oracle Data Guard. Includes real-world shell simulations (SQL*Plus, RMAN, DGMGRL), architecture visualizations, animated switchovers, DR scenarios, troubleshooting labs, and certification tracks.

  Link: https://rsbarros43.github.io/OracleDataGuard EnterpriseAcademy/

- **Oracle Cloud Migrations Training Center**

  Interactive cloud migration platform covering migration planning, prerequisites, cloud architecture designs, migration strategies, and enterprise adoption best practices on Oracle Cloud Infrastructure (OCI).

  Link: https://rsbarros43.github.io/Oracle_cloud_migrations_training_center/

- **Oracle Database 19c on Oracle Linux 8 Command Center**

  Interactive installation, configuration, and administration platform for Oracle Database 19c running on Oracle Linux 8, featuring shell automation, pre-checks, operational procedures, and enterprise guidelines.

  Link: https://rsbarros43.github.io/Oracle19c_ol8_command_center/

- **Oracle Database Cheat Sheet**

  Interactive quick-reference hub for Oracle DB administration, containing SQL, RMAN, RAC, ASM, and Data Guard snippets, performance tuning commands, and backup/recovery procedures.

  Link: https://rsbarros43.github.io/Oracle_Cheat_Sheet/

- **Oracle Data Guard Interactive Command Center**

  Interactive training interface for Oracle Data Guard covering architecture, configuration, administration, health monitoring, troubleshooting, and High Availability/Disaster Recovery scenarios.

  Link: https://rsbarros43.github.io/Oracle_Dataguard_Command/

- **Oracle Exadata Bundle Patch Lifecycle**

  Interactive operational guide detailing the full patching lifecycle (Bundle Patch) for Oracle Exadata environments, including pre-checks, execution, rollback plans, and enterprise best practices.

  Link: https://rsbarros43.github.io/Exadata_Bundle_Patch_Lifecycle/

- **Oracle Cloud Infrastructure – OKE & File Storage Disaster Recovery Lab**

  Hands-on OCI laboratory demonstrating the implementation of Oracle Kubernetes Engine (OKE), Oracle File Storage (FSS), Full Stack Disaster Recovery (FSDR) strategies, and enterprise cloud resilience.

  Link: https://rsbarros43.github.io/Oci_fsdr_oke_blog_lab/

- **MySQL Administration Cheat Sheet**

  Reference platform for MySQL administration compiling operational commands, health troubleshooting, performance tuning, replication, and backup/recovery procedures.

  Link: https://rsbarros43.github.io/MySQL_Cheat_Sheet/

- **OpenShift Enterprise Academy**

  Interactive corporate training platform for Red Hat OpenShift, covering enterprise Kubernetes concepts, architecture, deployment pipelines, networking, persistent storage, security, and cluster operations.

  Link: https://rsbarros43.github.io/OpenShiftEnterpriseAcademy/