

Muhammad Shaban

Oracle Database Administrator — Oracle 19c — Linux — RMAN — Production Support

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Professional Summary

Oracle Database Administrator (DBA) aspirant with hands-on experience supporting Oracle and MongoDB database environments across Linux infrastructure. Practical exposure to Oracle 19c administration, RMAN Backup & Recovery, Oracle Wallet (TDE), database security, production deployments, patching, performance monitoring, and database migration. Experienced with Oracle Linux, ServiceNow, Jira, Ansible, Bash scripting, and Oracle Cloud Infrastructure (OCI). Passionate about database reliability, automation, and production database operations.

Core Skills

Database	Oracle Database 19c, MongoDB, SQL, PL/SQL, RMAN Backup & Recovery, Oracle Wallet (TDE), Oracle PKI (orapki), Tablespace Management, User & Role Administration
Performance	AWR, ASH, Alert Log Analysis, Session Monitoring, Blocking Sessions, Execution Plans, Database Health Monitoring
Database Security	Transparent Data Encryption (TDE), MongoDB Encryption, Entrust HSM Vault, Certificate Management
Linux	Oracle Linux, RHEL, Bash Scripting, YUM, Cron Jobs, Linux Administration
Automation	Ansible (Playbooks, Roles, Inventory) Terraform, Git
Installation	Oracle Silent Installation, DBCA, Oracle Net Configuration, OPatch, MongoDB Installation
Operations	ServiceNow, Jira, Microsoft Teams, Microsoft Outlook, Production Support, Change Management

Professional Experience

Oracle Database Administration & Production Support (Confidential Client) Apr 2026 – Present

- Supporting Oracle and MongoDB database environments across Linux infrastructure with focus on database administration, monitoring, deployment, and operational support.
- Executed database migration activities by retrieving release-based SQL scripts from version control, transferring them to Linux servers, and assisting with controlled production deployments.
- Performed Oracle administration tasks including tablespace management, user and role administration, schema validation, object recompilation, alert log analysis, and database health monitoring.
- Worked on Oracle Wallet (Transparent Data Encryption) administration including wallet recreation, keystore merge, password reset, auto-login configuration, validation, and recovery using Oracle PKI (orapki).
- Configured MongoDB Encryption using Entrust HSM Vault by deploying certificates, updating configuration files, validating encrypted database startup, and supporting encryption migration.
- Participated in Oracle database patching using OPatch, Oracle 19c silent installation, DBCA database creation, Oracle Linux administration, and RHEL YUM package updates.
- Validated RMAN backups, startup/shutdown procedures, database recovery operations, and post-maintenance health checks.
- Worked with ServiceNow and Jira for incident management, change requests, release coordination, and operational documentation.

- Prepared Standard Operating Procedures (SOPs) for Oracle Wallet administration, MongoDB encryption, Oracle installation, backup procedures, and production operational activities.

Cloud Exposure

- Hands-on exposure to Oracle Cloud Infrastructure (OCI) including IAM, Compute, Networking (VCN), Object Storage, Cloud Guard, and basic Oracle Kubernetes Engine (OKE).
- Basic exposure to AWS EC2 provisioning and Infrastructure as Code (Terraform).

Education

COER University, Roorkee

2024 – 2028

Bachelor of Technology (Computer Science & Engineering) CGPA: **9.24/10**

Projects

Oracle Database Monitoring System (Telegram Bot)

- Built a real-time Oracle monitoring bot using Python and Telegram Bot API for proactive database administration.
- Automated monitoring of tablespace usage, active sessions, blocking sessions, long-running SQL, database status, and Linux server health.
- Implemented threshold-based alerts, secure command execution, logging, and monitoring using Oracle dynamic performance views.

Technologies: Oracle 19c, Python, Telegram Bot API, Linux

Oracle Wallet (TDE) & MongoDB Encryption

- Performed Oracle Wallet (TDE) administration including wallet creation, keystore management, password reset, auto-login configuration, validation, and recovery using Oracle PKI (orapki).
- Configured MongoDB Encryption using Entrust HSM Vault by deploying certificates, updating configuration files, and validating encrypted database environments.
- Prepared Standard Operating Procedures (SOPs) for Oracle Wallet administration and MongoDB encryption.

Technologies: Oracle Wallet, Oracle PKI, MongoDB, Entrust HSM Vault, Linux

Oracle RMAN Backup & Recovery

- Implemented full and incremental RMAN backup strategies with ARCHIVELOG mode.
- Simulated database recovery scenarios including datafile recovery, control file recovery, and point-in-time recovery.
- Validated backup integrity using RESTORE and RECOVER operations.

GitHub: github.com/muhmmadshaban/oracle-rman-backup-recovery-lab

Oracle 19c Silent Installation

- Installed Oracle Database 19c on Oracle Linux using silent installation and DBCA.
- Configured response files, Oracle Net, multitenant database (CDB/PDB), and resolved installation issues.
- Performed post-installation validation and database configuration.

GitHub: github.com/muhmmadshaban/oracle-19c-silent-install-ol8

Certifications

- Oracle Cloud Infrastructure Foundations Associate
- Oracle Cloud Infrastructure AI Foundations Associate
- Oracle Cloud Infrastructure Generative AI Professional