

The illustration is a full-page background. At the top, a dark blue sky is filled with soft, pinkish-purple clouds. Below the sky is a solid blue band. Underneath that, there are stylized mountains in shades of pink, brown, and dark grey. At the bottom, a person with dark hair, wearing a grey long-sleeved shirt and brown pants, is sitting on a light grey slope, facing away from the viewer. A dark blue bag is on the ground next to them.

Prepare for Cloud Migration

written & illustrated by
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Migrating Oracle EBS and Database to Oracle Cloud Infrastructure (OCI)

About This Book

This e-book is designed for IT leaders, solution architects, DBAs, and Oracle E-Business Suite (EBS) administrators preparing to migrate EBS and Oracle Database from on-premises environments to Oracle Cloud Infrastructure (OCI). It serves as a practical guide, combining proven migration strategies with real-world success stories and industry-standard toolkits.

Whether you're seeking to reduce costs, improve performance, enable high availability, or enhance disaster recovery, this book walks you through every phase of cloud adoption—from planning to post-go-live optimization. It also highlights automation tools and methods such as DBFullView, EbizFullView, ZDM, and EBS Cloud Manager.

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1. Introduction & Business Case

Migrating Oracle E-Business Suite (EBS) and Oracle Database to Oracle Cloud Infrastructure (OCI) is a strategic move to enhance scalability, performance, and cost efficiency. OCI is optimized for Oracle workloads and offers native integration, high availability, and managed services for faster modernization.

Proven success stories, such as Mutual Materials and leading healthcare and construction companies, have demonstrated up to 75% reduction in planned cutover windows, improved performance, and scalable failover capabilities. Customers have also benefited from integrated tools like Ansible, OCI CLI, and observability platforms like Grafana to streamline the cloud journey.

2. Phase 0: Planning & Assessment

- **Gather & Analyze:**

Inventory all EBS environments, customizations (CEMLIs), and integration points.

- **Set Goals:**

Define business objectives like downtime tolerance, DR RPO/RTO, and compliance.

- **Evaluate Options:**

Compare cloud providers and finalize Cloud Infrastructure based on fit for Oracle workloads.

- **Team Readiness:**

Build a team charter, communication, and escalation plan. Assess training needs.

- **PoC:**

Start with a sandbox migration to validate tooling and architecture.

Deliverables: Business goals baseline, migration roadmap, team roles, infra and training plans.

3. Phase 1: Prep & Readiness

OCI Setup:

- Design network (VCNs, subnets, security lists, NAT gateways).
- Configure IAM roles, policies, and compartments.
- Set up Object and Block Storage for backups and data migration.

Toolkit & Automation:

- Use **DBFullView** and **EbizFullView** to capture complete Oracle DB and EBS configurations.
- Deploy EBS Cloud Manager from OCI Marketplace.
- Prepare Oracle Database Migration tools: Data Pump, Zero Downtime Migration (ZDM), or Physical Standby (same OS only).
- Enable observability with Ansible scripts and Grafana dashboards.

Deliverables:

- OCI network and IAM configuration
- Compute and Storage setup
- DBFullView and Ebizfullview outputs
- Deployed EBS Cloud Manager

- Prepared migration tools (ZDM, Data Pump, Standby setup)
- Observability Setup
- Initial Test Plan and Environment Readiness checklist

4. Phase 2: Migration Execution

A. EBS Application Migration

- Leverage EBS Cloud Manager for automated lift-and-shift.
- Manual option: replicate directories, update configs, and validate.

B. Database Migration Options

1. Same OS Flavor: - Use **Physical Standby** method. - Sync redo logs, switch to primary role during cutover.

2. Cross-Platform (Different OS): - Use **expdp/impdp** via Object Storage.

3. Online Zero-Downtime Migration: - Use **ZDM** and **Oracle GoldenGate** for near-zero outage.

Environment Promotion Lifecycle:

1. **Sandbox** – Initial test migration
2. **Non-PROD/DEV** – Refreshed with latest PROD data
3. **SIT** – System Integration Testing
4. **UAT** – User validation
5. **Dry Run** – Final rehearsal with full cutover steps
6. **Production** – Go-live migration

Deliverables:

- Cloud Solution Design Document
- Application and Database Cluster Plan
- Executed Migration for Sandbox, DEV, SIT, UAT
- Revised Migration and Testing Plan
- Updated Knowledge Management Repository
- Dry Run Validation Reports
- Initial Risk & Mitigation Tracker
- Status Reports

5. Phase 3: Cutover & Go-Live

- Conduct cutover during a planned window.
- Finalize DB migration (standby switch or latest delta import).
- Update all EBS configurations.

- Validate key flows, integrations, and backups.
- Execute the scripted failover if applicable.

Deliverables:

- UAT Sign-off Document
- Updated Migration Plan with Cutover Window
- Production Environment Build
- Business Flow and Integration Validation Sign-off
- Final Risk and Mitigation Plan
- Updated Defect Tracker
- Cutover Checklist and Script
- Updated Knowledge Repository

6. Phase 4: Post-Migration Optimization

- **Performance Tuning:** Adjust memory, IOPS, and SQL plans.
- **Cost Review:** Optimize with autoscaling, reserved instances.
- **Security:** Apply hardening policies and encryption (Vault/Key Mgmt).
- **High Availability:** Enable DR using Oracle Data Guard, test RTO/RPO.
- **Knowledge Transfer:** Deliver updated KM documents, issue resolutions, and defect logs.

Deliverables:

- Production Migration Confirmation
- Solution Design Document (Finalized)
- Performance and Cost Optimization Reports
- Applied Security & Compliance Reports
- High Availability and DR Readiness Plan
- Knowledge Transfer Documents
- Issue Resolution Logs and Final Defect Report
- Customer Sign-off and Feedback Summary.

Summary

Migrating Oracle EBS and Database to OCI can transform your IT operations—offering better performance, scalability, cost control, and availability. This book presented:

- A proven, phased approach to migration
- Use of tools like DBFullView, EbizFullView, ZDM, and EBS Cloud Manager

- Automation techniques and checklists
- Real-world case studies showing reduced downtime and improved outcomes

By following this guide, you can de-risk your cloud transition and position your enterprise for long-term success on Oracle Cloud.

About the Author

Narasimha Rao Karanam is a seasoned Oracle Cloud and Applications Architect with over two decades of hands-on experience in Oracle E-Business Suite, Oracle Cloud Infrastructure (OCI), and enterprise cloud transformations. As a thought leader and practitioner, he has led complex migrations and modernization projects across industries, including manufacturing, healthcare, and public sector.

Currently serving as **Service Delivery Manager - Cloud Services at Doyensys**, Narasimha helps enterprises achieve digital transformation through strategic cloud adoption, automation, and performance optimization. His expertise spans Oracle ERP, Cloud DevOps, architecture design, and IT leadership. He holds certifications as an **Oracle Certified Cloud Infrastructure Architect, Cloud Database Architect, and AI Architect**.

He is passionate about sharing practical knowledge and simplifying cloud journeys. This e-book reflects his real-world insights and commitment to empowering teams with tested, tool-driven strategies.

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Doyensys has helped organizations across industries successfully move their mission-critical workloads to Oracle Cloud Infrastructure with reduced downtime, improved availability, and proven automation strategies.

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Final Thoughts

A methodical, validated migration—powered by toolkits like DBFullView and EbizFullView and leveraging OCI-native services—minimizes risk and maximizes ROI. Customers should take advantage of automation, performance tuning, and DR best practices to future-proof Oracle workloads in the cloud.