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# Oracle Database Migration to Cloud



BY - ANURAG KUMAR PANDEY

(Database Migration Expert)



[www.scholaritinc.com](http://www.scholaritinc.com)



**Pleasanton, CA, USA**

For More Information Please Contact



**+1 (925) 999-0678**



**Sreelekha@scholaritinc.com**

## Agenda

- Why migrate the database to the cloud?
- Oracle database in the cloud
- Database Migration Lifecycle
- Migration Strategies (7R's)
- Deep Dive with lift & Shift
- Q&A





## Why migrate the database to the cloud?



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**Sreelekha@scholaritinc.com**

## Why Migrate Database to the Cloud ?

Database Migrate means to move database/data from one platform to another platform.

There are possible reasons:

- Lack of Hardware/Compute Resources
- Database Features
- Move to cloud to reduce the current cost
- Move away from Datacenter

We all know that moving data from one place to another place is not very easy and this could be a big problem when we are not follow any strategy/planning



# Oracle Database in cloud



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## Oracle Database in Cloud

Oracle database is RDBMS developed by Oracle company. This is a very popular database and is commonly used for running OLTP, OLAP, and mixed database workload.

Major options are available to support the Oracle database in cloud :

- IAAS (Infrastructure as a Service)
- DBaaS (Database as a service)
- Bare Metal Solutions

	<b>AWS</b>	<b>Azure</b>	<b>Google</b>	<b>Oracle</b>
<b>IaaS</b>	EC2	VM	VM	VM
<b>DBaaS</b>	Oracle RDS	Not yet	Not yet	Oracle Autonomous
<b>Bare Metal</b>	Yes	Yes	Yes	Yes



## Database Migration Lifecycle



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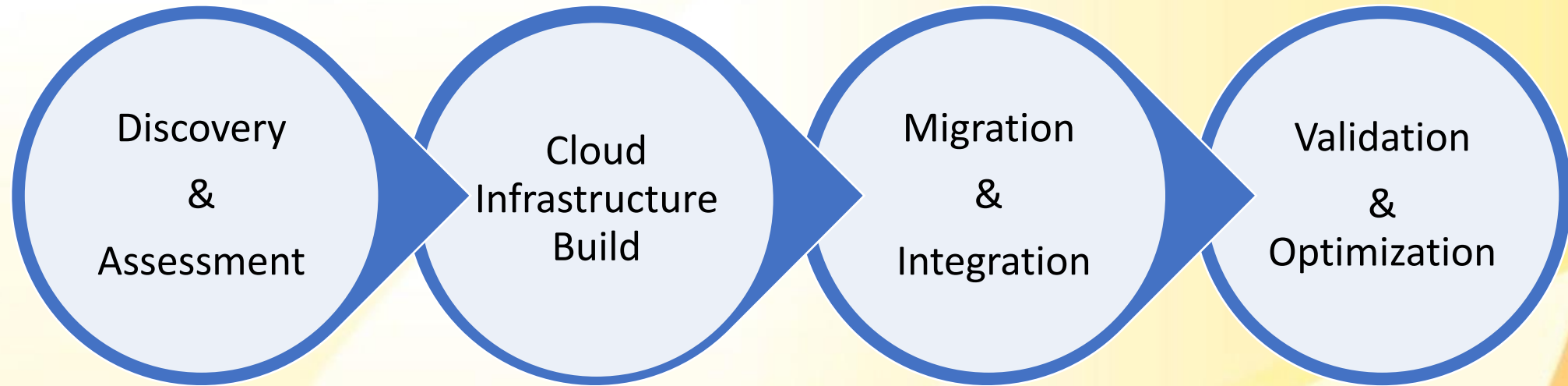
**+1 (925) 999-0678**



**Sreelekha@scholaritinc.com**



## Database Migration Lifecycle



- **Discovery & Assessment :**

Focus on cloud readiness, understand current database landscape using input provided by customers during the workshop, analyze AWR report, blockers, application dependency, etc.

- **Cloud Infrastructure Build:**

Provision and configure cloud landing zone as cloud services that support workloads

- **Migration & Integration:**

Once the Landing zone is ready, migrate the database workload and integrate it with the application

- **Validation & Optimization:**

After Migration is done, monitor the resources and ensure that everything is working as per requirement .



## Migration Strategy (7R's)



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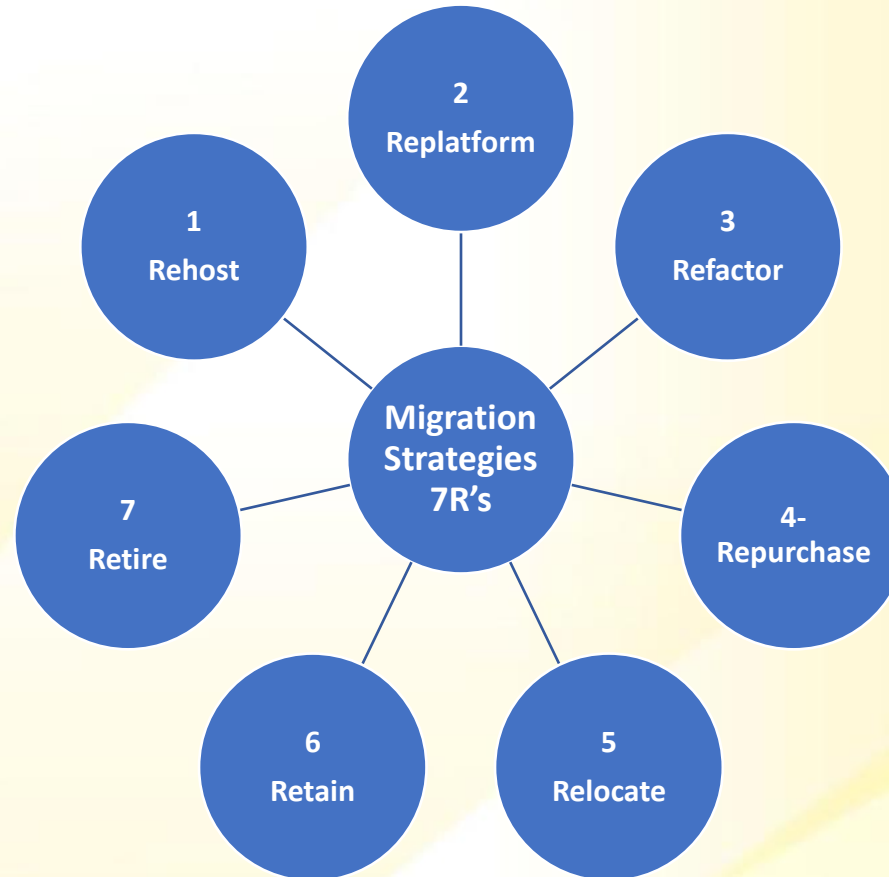


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## Migration Strategies – 7R's





- **Rehost:**

Lift & Shift as a migrating database without any change in respect of database and Operating System (OS).

**Example:** Oracle to Oracle

- **Replatform:**

Lift & Reshape as migration database with change version or OS version or platform.

Migrate to DBaaS as Oracle RDS, Oracle Autonomous

**Example:** Oracle12 to Oracle 19c, Oracle to AWS Oracle RDS

- **Refactor:**

Re-architect as migration database to one database engine to another engine

**Example:** Oracle to Postgres



- **Repurchase:**

Replace as leverage cloud-native solutions/services SAAS Model

- **Relocate:**

Database services running on VMware and migrate to the cloud without purchasing new hardware and leveraging existing licenses.

- **Retain:**

Re-visit as stay with on-premise because not able to migrate due to the legacy application or compatibility issues

- **Retire:**

Decommission the database as No longer in use or End of Life



## Deep Dive with Lift & Shift



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## Deep Dive with Lift & Shift : Oracle Database

Lift & Shift migration approach is about migrating the database to the cloud without any change in the database or OS with minimal change.

- Database Native Tools
  - Data pump
  - RMAN
  - Data guard
  - Goldengate
- Cloud Native Tools
  - Cloud Endure, AWS MGN (Application Migration Service )
  - Azure Migrate





## Summary

- Why migrate the database to the cloud?
- Oracle database in the cloud
- Database Migration Lifecycle
- Migration Strategies (7R's)
- Deep Dive with lift & Shift



## Additional Resources

- **Accelerate your cloud adoption with Microsoft and Oracle:** <https://azure.microsoft.com/en-us/solutions/oracle/>
- **Oracle and Amazon Web Services:** <https://aws.amazon.com/oracle/>
- **Oracle workloads to Google Cloud:** <https://cloud.google.com/solutions/migrate-oracle-workloads>
- **Cloud adoption with Oracle Cloud :** <https://docs.oracle.com/en-us/iaas/Content/GSG/Concepts/baremetalintro.htm>



