

ASIA'S FIRST ORACLE TO AMAZON AURORA POSTGRESQL-DATABASE MIGRATION FOR INDIA'S LEADING DIGITAL ENTERTAINMENT COMPANY, POWERED BY AMAZON WEB SERVICES



SUCCESS STORY

INDUSTRY:
Digital Media

OFFERING:
Database Migration
Amazon Aurora
(PostgreSQL compatible)

CUSTOMER OVERVIEW

The customer is India's leading digital entertainment company that launched India's first and largest on-demand digital entertainment storefront. The storefront has over 2 and half million pieces of content across genres and languages, in the form of music tracks, movies, music videos and dialogues; mobile content such as ringtones and wallpapers.

BUSINESS CHALLENGES & OBJECTIVE

- Achieving a better TCO on Database licensing
- Avoid downtime during upgrades and patching
- Ability to Scale-Up and Scale-Out Database as per changing demands
- Do away with the OS & Database patch management, backup and clustering for High Availability

To migrate existing Oracle database engine to Amazon Aurora PostgreSQL.

SOLUTION

Present Workload:

- Oracle Database as Production Database.
- Applications connected to Oracle Database

We implemented a completely cloud-based solution powered by Amazon Web Services to migrate database engine from Oracle database to Amazon Aurora (PostgreSQL compatible).

Below listed activities were performed:

- Installation of Oracle (on EC2 instance) and restoration of latest Recovery Manager (RMAN) backup of Production Oracle database on it.
- Schema migration from Oracle Database created above to Aurora PostgreSQL using AWS SCT (Schema Conversion Tool) installed in a Windows EC2 instance.
- Migration of existing data from production Oracle database to Aurora PostgreSQL using AWS DMS (Data Migration Service).
- Development of UAT environment.
- Testing of converted target database in UAT environment.

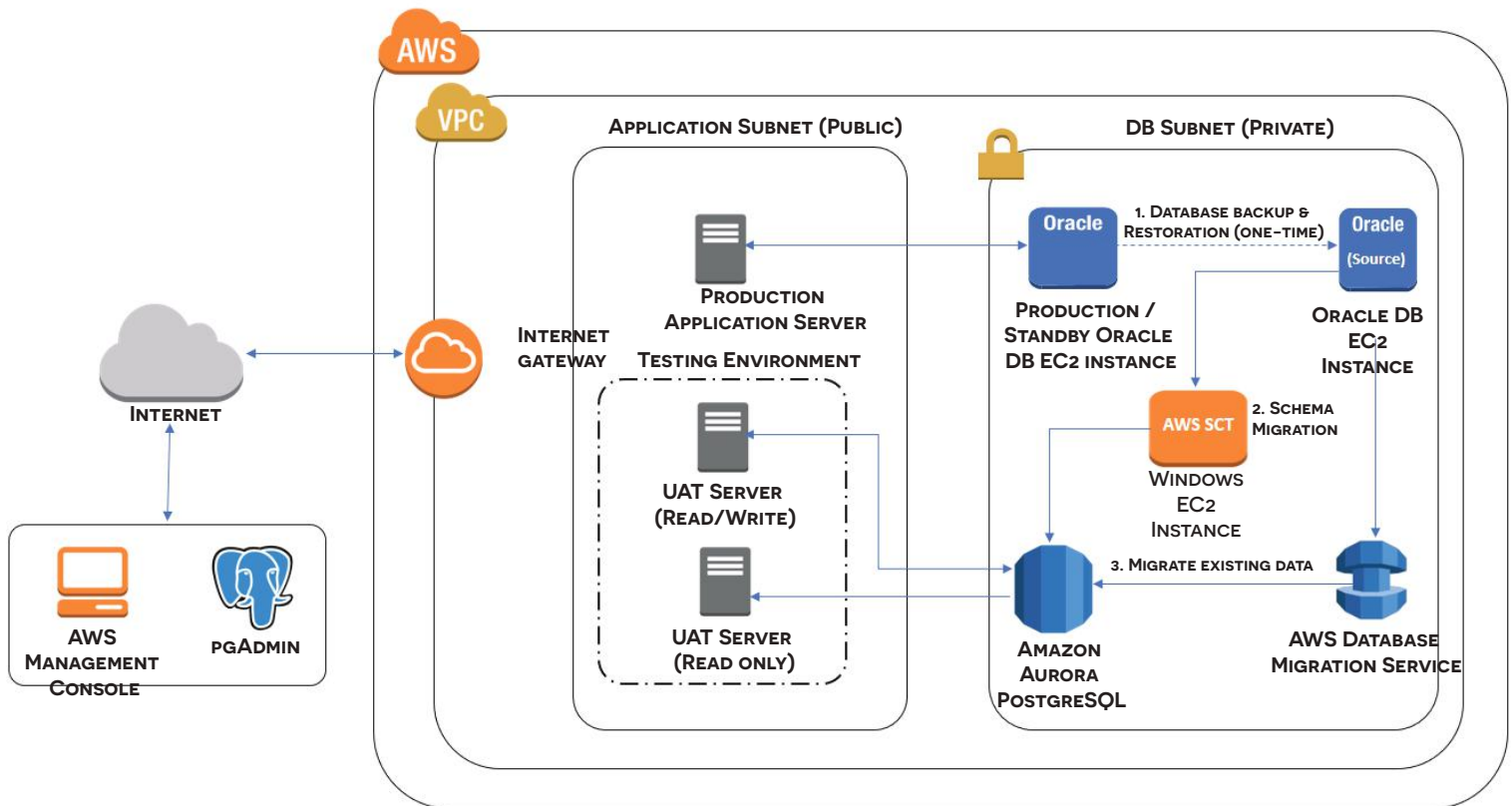
The solution leveraged the following services:

- **AWS Schema Conversion Tool (AWS SCT):** It is used to convert schema from one database engine to another. It was used to convert schema from Oracle to Aurora PostgreSQL database.
- **AWS Database Migration Service:** AWS Database Migration Service helps migrate databases to AWS quickly and securely. The source database remains fully operational during the migration, minimizing downtime to applications that rely on the database. It was used to migrate data from Oracle to Aurora PostgreSQL after successful schema conversion.
- **Amazon Aurora PostgreSQL:** It is a fully managed, PostgreSQL-compatible, relational database engine that combines the speed and reliability of high-end commercial databases with the simplicity and cost-effectiveness of open-source databases. It is the target database engine to which existing Oracle database was migrated.
- **Amazon EC2 Instance (Linux):** It was used as staging server to restore latest snapshot of source Oracle database.
- **Amazon EC2 Instance (Windows):** It was used to install AWS Schema Conversion Tool for schema conversion.

BENEFITS OF AMAZON RELATIONAL DATABASE SERVICE (RDS)

- Amazon RDS is a PaaS service which manages backups, software patching, automatic failure detection, and recovery
- You can get high availability with a primary instance and a synchronous secondary instance that you can fail over to when problems occur
- Upgrade and patch without downtime
- AWS RDS can enable organizations to save considerable cost as its available in pay-as-you-go model. Cost can be further saved using Reserved Instances

HIGH-LEVEL SOLUTION ARCHITECTURE



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