



Department of Computer Science & Engineering

The National Institute of Engineering



Public Cloud Deployment Model

DataBase As A Service

WHAT IS DBaaS?

Oracle's public cloud solution provides Database as a service (DBaaS) offering that provides customers with access to a database without having to deploy and manage and underlying infrastructure. DBaaS is delivered as a managed database service, which means that the provider takes care of patching, upgrading, and backing up the underlying database.

HISTORY

While the history of database as a service may not be as long when compared to other cloud database services, it has already undergone a significant evolution. In the early days of DBaaS, the focus was primarily on providing a self-service interface for provisioning and managing databases. However, as the market has matured, DBaaS has shifted to delivering turnkey solutions for running a cloud database.

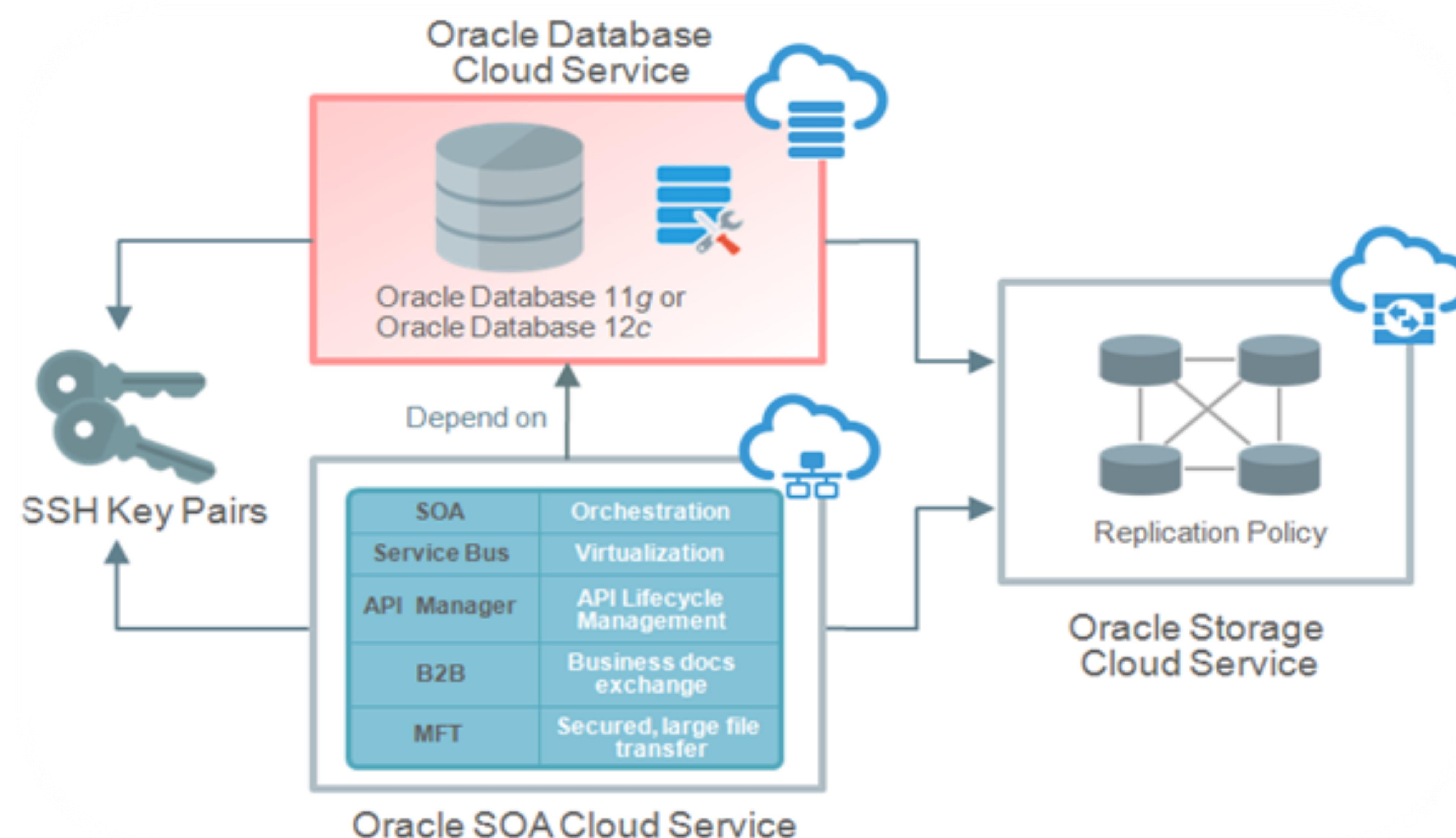
FEATURES

- **Setup and installation:** Oracle handles all the initial setup and configuration of your database for DBaaS.
- **Backup and recovery:** Oracle creates regular backups of your database in DBaaS.
- **Security:** Oracle provides all security aspects of your database, including user permissions and access control.
- **Scalability:** database service by oracle can scale seamlessly as your business grows.

CAPABILITIES

- **Data integration:** All data types are accessible across all applications as desired.
- **Analytics:** possible to apply analytics across multiple types of data, such as relational, text, spatial, and graph. products or services.
- **Machine learning:** Databases with built-in machine learning modelling and inference capabilities.

ARCHITECTURE



HOW DOES DBaaS WORK?

- The service is typically delivered over the internet, and users can access it through a web-based interface or API. DBaaS providers typically offer a variety of features and tools, including data backup and recovery, scalability, and performance monitoring. One of the main benefits of DBaaS is that it can help to reduce the complexity and cost of managing databases.
- By offloading these tasks to a service provider, organizations can free up resources to focus on more strategic initiatives.
- In addition, DBaaS can help to improve the availability and performance of databases and provide disaster recovery capability. As businesses become increasingly reliant on data, DBaaS is likely to become an essential part of their IT infrastructure.

BENEFITS

- **Time and Money:** DBaaS enables companies to save time and money while simplifying complex data management tasks.
- **High availability:** DBaaS is a reliable solution that can help ensure your data is always available and accessible, minimizing downtime and maximizing productivity.
- **Security:** DBaaS technology has enhanced security features to protect your data.

Team Members

AAGAM JAIN	-	4NI19CS001
AAYUSHI MISHRA	-	4NI19CS002
AKSHANSH VIJOY	-	4NI19CS014
AKSHANTULA NEHA	-	4NI19CS015
M N R SAI MAMATHA	-	4NI19CS062