



Vidyavardhini's College of Engineering and Technology

Department of Artificial Intelligence & Data Science

Experiment No. 6

Aim: To study and Implement Database as a Service on SQL/NOSQL databases like AWS RDS, AZURE SQL/ MongoDB Lab/ Firebase.

Objective: To learn concept of DBaaS and implement using Own Cloud which gives universal access to files through a web interface.

Theory:

- Database as a Service (DBaaS) is self service/ on demand database consumption coupled with automation of operations.
- Cloud computing services are like pay per use so DBaaS also based on same payment structure like how much you will use just pay for your usage.
- This DBaaS provides same function as like standard traditional and relational database models. So using DBaaS, organizations can avoid data base configuration, management, upgradation and security.
- A fully managed info service helps to line up, manage, and administer your info within the cloud and conjointly offer services for hardware provisioning and Backup.
- DBaaS permits the availability of info's effortlessly to Database shoppers from numerous backgrounds and IT expertise.
- Provides on demand services.
- Supported the resources offered, it delivers a versatile info platform that tailors itself to the environment's current desires.
- A team of consultants at your disposal, endlessly watching the Databases.
- Automates info administration and watching.
- Leverages existing servers and storage
- Advantages of DBaaS :
 - DBaaS is responsible of the info supplier to manage and maintain info hardware and code.
 - The hefty power bills for ventilation and cooling bills to stay the servers running area unit eliminated.
 - An organization that subscribes to DBaaS is free from hiring info developers or constructing a info system in-house.
 - Make use of the most recent automation, straightforward outs of clouds area unit possible at low price and fewer time.
 - Human resources needed to manage the upkeep of the system is eliminated.
 - Since DBaaS is hosted off-site, the organization is free from the hassles of power or network failure.
 - Explore the portfolio of Oracle info as a service.