



# Vidyavardhini's College of Engineering and Technology

## Department of Artificial Intelligence & Data Science

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### Experiment No. 5

**Aim:** To study and Implement Storage as a Service using OwnCloud/ AWS S3, Glaciers/ Azure Storage.

**Objective:** Understand the concept of SaaS and implement using Own Cloud which gives universal access to files through a web interface.

#### Theory:

- SaaS is defined as the software distribution model deployed on the internet in which a cloud service provider provides applications.
- It is also known as "on-demand software" or "pay-as-you-go application". Here the customer licenses their product via SaaS-providers.
- SaaS market is a rapid-growing one, and with this fast-growing service, SaaS will soon become an active cloud service technology for every organization and company.
- In SaaS, the software & the applications associated with it are centrally located on the cloud server. Users can access them via a thin client connecting application, i.e., using a web browser.
- The SaaS provides various applications such as: CRM applications, Solution to Human Resource (HR), Pre-existing Billing & Invoicing systems, Other daily usable application suites.
- Advantages of SaaS
  - Easy to buy: SaaS's cost is based on monthly or yearly fees allowing new organizations to access the world of business at a low-cost, at least lesser than licensed application.
  - Minimization of Hardware Requirement: All SaaS software is hosted remotely & so there is no or lesser need for hardware for the organizations.
  - Special Software: No special software versions are required, as all the users will use the same software version. SaaS reduces IT costs by outsourcing hardware & software maintenance.
  - Low Maintenance: SaaS removes the daily problem of installing, maintaining, and updating software. The set-up cost of SaaS is also less in comparison to enterprise software.
- Disadvantages of SaaS
  - Latency factor: comes due to a variable distance of data between the cloud & the end-user, and hence a possibility of latency may arise while interacting with applications.
  - Internet Connection: is a major issue. Without an internet connection, SaaS applications are unusable.
  - Switching between SaaS vendors in case of any change is very difficult.
  - The SaaS cloud service is not very secure as in-house deployment.