## Private Cloud Setup with User Storage Management

Introduction

With the rapid growth of the internal volume of enterprise data, it causes many problems in terms of storage, such as the lack of adequate hardware storage devices, high maintenance costs, and incomplete storage environment and so on. Cloud Computing technology can provide customers with the corresponding demand services that can effectively address these issues.

Cloud Computing provides us by which we can access the applications as utilities, over the Internet. It allows us to create, configure, and customize applications online. With Cloud Computing users can access database resources via the internet from anywhere for as long as they need without worrying about any maintenance or management of actual resources.

**Purpose**

We will design and configure an algorithm to cloud user storage management on HADOOP (VMWARE) at operating system of Linux. Manage user directory by using HDFS (Hadoop Distributed File System) as well create remote user interface. User also managed or checked its storage capacity either available or used.

In this Report we also highlight the feature (Scalability, storage management, Network management, user I.D, multiple node,) of different platform like (Amazon, Google, iCloud, Apache Hadoop)

## Cloud Storage Features

* **Scalability :** When they store data on-premises, organizations have to forecast their needs far into the future and purchase excess capacity in order to have enough space as their data continues to grow. But with cloud storage, more resources are automatically available as the organization needs them, with no need for over provisioning.
* **Security and File Encryption :** Security is a top concern when you take your business to the cloud. Your company's private data [could be compromised](https://www.businessnewsdaily.com/5215-dangers-cloud-computing.html) if the service you use lacks the right features. Make sure your service encrypts your data at least once before it ever leaves your servers. The best services also allow you to pick your own encryption key so that not even that company's employees can view your files. You should also have the ability to protect your files with a password, particularly when accessing them from a mobile device, as well as the capability to set different levels of access for different employees. Top-notch security features will let you relax when sending private information about your clients to the cloud.