Cloud computing is clearly one of today’s most enticing technology areas due, at least in part, to its cost-efficiency and flexibility. However, despite the surge in activity and interest, there are significant, persistent concerns about cloud computing that are impeding momentum and will eventually compromise the vision of cloud computing as a new IT procurement model.

Cloud computing is an emerging computing paradigm in which resources of the computing infrastructure are provided as services over the Internet.

The field of cloud computing is still in its infancy as far as implementation and usage, partly because it is heavily promoted by technology advancement and is so high resource dependent that researches in academic institutions have not had many opportunities to analyze and experiment with it. However, cloud computing arises from the IT technicians desire to add another layer of separation in processing information. Nevertheless, academia is developing in a significant presence, being able to address numerous issues.

Data Security concerns are the biggest among these issues. Security is one of the most important issues associated with the real world use to the cloud. Also, Cloud performance analysis and modeling are not easy tasks because of the complexity and large scale of the system. As promising as it is, this paradigm also brings forth many new challenges for data security and access control when users outsource sensitive data for sharing on cloud servers, which are not within the same trusted domain as data owners.

We aim to attain, a better understanding to the subject and to make it more reliable and secure to store confidential data through giving a solution to data security.