DESIGN AND ANALYSIS OF A SECURE DATA STORAGE IN CLOUD BY USING ABE ALGORITHM

A project report submitted in partial fulfillment of the requirements for the award of the Degree of

BACHELOR OF TECHNOLOGY

In
COMPUTER SCIENCE AND ENGINEERING

Submitted by;

G.S.L.YAMINI
Regd. No.14811A0520

D.ROJA
Regd.No.14811A0515

K.V.MOUNIKA PADMA
Regd.No.14811A0531

N.V.MANIKANTA REDDY
Regd.No.14811A0545

P.GANGADHAR
Regd.No.14811A0551

Under the guidance of

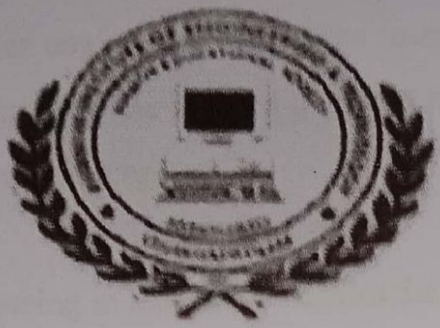
Mr. N.V.ASHOK KUMAR
ASSISTANT Professor
Department of Computer Science and Engineering

AVANTHI INSTITUTE OF ENGINEERING &TECHNOLOGY

(Approved by AICTE, New Delhi & Permanently affiliated to JNTU Kakinada)
(Accredited by NAAC, UGC & NBA, AICTE)
MAKAVARAPALEM, NARSIPATNAM,
VISAKHAPATNAM DIST

(2014-2018)

AVANTHI INSTITUTE OF ENGINEERING & TECHNOLOGY
(Approved by AICTE, New Delhi & Permanently affiliated to JNTU Kakinada)
(Accredited by NAAC, UGC & NBA, AICTE)
MAKAVARAPALEM, NARSIPATNAM,
VISAKHAPATNAM-531113



CERTIFICATE

This is to certify that the project entitled "**DESIGN AND ANALYSIS OF A SECURE DATA STORAGE IN CLOUD BY USING ABE ALGORITHM**" in partial fulfillment for the of degree of Bachelor of Technology in COMPUTER SCIENCE AND ENGINEERING, at AVANTHI INSTITUTEOF ENGINEERING AND TECHNOLOGY, MAKAVARAPALEM,VISAKHAPATNAMis an bonafied work carried out by G.S.L YAMINI (14811A0520), D.ROJA(14811A0515),K.MOUNIKA(14811A0531), N.V MANIKANTA (14811A0545),P.GANGADHAR(14811A0551) under the guidance and supervision during 2017-2018.

Project Guide

Head of the Department
Computer Science and Engineering
Avanthi Institute of Engg. & Technology
Tamaram (Vill), Makavarapalem (MD)
Narsipatnam, Visakhapatnam-531113

6/4/18

External Examiner

ABSTRACT

Cloud computing would be one of technologies which is going to play a vital role in the next generation of computer engineering field. The increased scalability and flexibility provided by the cloud computing has reduced the costs to a greater extent and therefore the technology has gained wide acceptance.

The facility of Data outsourcing in the clouds enables the owner of the data to upload the data and other users can access the same. But, the data stored should be secure in the cloud servers. The data owner has lot of concern about security aspects present with the cloud computing. The data owners hesitate to adopt cloud computing services because of privacy protection issues of data and security of data.

The proposed research work aims to undertake the critical issue of identity revocation wherein outsourcing computation into IBE has been introduced for the first time and a revocable IBE scheme in the server-aided setting has been proposed. This scheme offloads most of the key generation related operations to a Key Update Cloud Service Provider for key-issuing and key-update processes.

Only a constant number of simple operations for PKG and users are left to perform locally. Data security is provided by using encryption, user authentication; re-encryption in the proposed data storage security model. The proposed system has also introduced outsourcing computation into IBE revocation, formalizes the security definition of outsourced revocable IBE for the first time to the best of our knowledge. Finally, experimental results have demonstrated the efficiency of the proposed construction.