A
Major Project Report II
On

A Novel Cryptography Based Security In Cloud Computing

Submitted in Partial Fulfillment of the Requirement
For the Award of the Degree of

Master of Technology

In

Software Engineering

By

Raju Kumar
University Roll No. 2K13/SWE/14

Under the Esteemed Guidance of

Dr. S. K. Saxena
Computer Science & Engineering Department, DTU

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COMPUTER SCIENCE & ENGINEERING DEPARTMENT

DELHI TECHNOLOGICAL UNIVERSITY

DELHI – 110042, INDIA

DECLARATION

I hereby declare that the Major Project-II work entitled **"A Novel Cryptography Based Security In Cloud Computing"** which is being submitted to the Delhi Technological University, in partial fulfillment of requirements for the award of degree of Master of Technology (SWE) in the Department of Computer Science & Engineering, is a bonafidereport of the Major Project-II carried out by me. The material contained in this report has not been submitted to any University or Institution for the award of any degree.

Raju Kumar
Roll no:- 2K13/SWE/14
M.Tech.(Software Engineering)
Email:-yadavraju03@yahoo.com

CERTIFICATE

This is certify that the Major Project-II Report entitled **"A Novel Cryptography Based Security In Cloud Computing"** is the work of Raju Kumar (Roll no. 2K13/SWE/14). This project was completed under my supervision and form a part of Master of Technology (Software Engineering) course curriculum in the Department of Computer Science & Engineering, Delhi Technological University, Delhi.

Date:
(Dr. S. K. Saxena)
Project Guide
Dept. of Computer Science & Engineering
Delhi Technological University

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Date:

Raju Kumar
University Roll no: 2K13/SWE/14
M.Tech (Software Engineering)
Department of Computer Science & Engineering
Delhi Technological University,Delhi – 110042

ABSTRACT

Cloud computing is in demand nowadays because of its reliability. It provide us better platform for sharing data, messages, hardware, software and so on without fear of losing data. The number of users in cloud environment and number of threats on their cloud data are also increasing. In cloud computing, most of the researchers focused mainly on three areas, namely security at client’s side, security at network and security at server’s side. In this research I have focused both on security aspect of outsourced data and minimization of the duplication data, which also impacts the security of cloud. I have proposed an effective cryptography based security model which is more effective and secure than existing models in terms of performance and reliability. I have used a novel cryptography technique at client side before transmitting the data for increasing the trust of data owner as well as providing the security. I have also used a hashing function for checking the duplication of data so as to minimize space and bandwidth needed to store and upload the duplicate file.

Keywords: Cloud Computing, Network Security, Hashing, Cryptography.

CONTENTS

Chapter 1

INTRODUCTION

Chapter 2

CLOUD COMPUTING OVERVIEW

Chapter 3

CRYPTOGRAPHY & NETWORK SECURITY OVERVIEW

Chapter 4

PROPOSED METHODOLOGY

Chapter 5

IMPLEMENTATION AND RESULT ANALYSIS

LIST OF FIGURES

List of Tables