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Implementation of Control Privilege and Anonymity with Fully Anonymous Attribute-Based Encryption Based on Cloud Data Access

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ABSTRACT: In a cipher text approach characteristic based encryption framework, a client'sprivate key is connected with an arrangement of qualities (portraying the client) and a scrambled cipher text will indicate an entrance strategy over traits. A client will have the capacity to decode if and just if his properties fulfill the figure content's arrangement. In this work, we show the primary development of a cipher text-approach characteristic based encryption plan having security evidence in view of a number theoretic presumption and supporting propelled access structures. Past CP-ABE frameworks could either bolster just exceptionally constrained access structures or had a proof of security just in the non specific gathering model. Our development can bolster access structures which can be spoken to by a limited size access tree with edge doors as its hubs. The bound on the extent of the entrance trees is picked at the season of the framework setup. Our security evidence depends on the standard Decisional Bilinear Daffier Hellman suspicion.

I. INTRODUCTION

Distributed computing is a progressive registering procedure, by which processing assets are given powerfully by means of Internet and the information stockpiling and calculation are outsourced to somebody or some gathering in a 'cloud'. It extraordinarily pulls in consideration and enthusiasm from both the scholarly world and industry because of the gainfulness, however it likewise has no less than three difficulties that must be taken care of before going to our genuine to the best of our insight. Most importantly, information privacy ought to be ensured. The information security is not just about the information substance. Since the most appealing part of the distributed computing is the calculation outsourcing, it is a long ways sufficiently past to simply lead an entrance control. More probable, clients need to control the benefits of information control over different clients or cloud servers. This is on the grounds that when delicate data or calculation is outsourced to the cloud servers or another client, which is out of clients' control much of the time, protection dangers would rise significantly on the grounds that the servers

may unlawfully investigate clients' information and access touchy data, or different clients may have the capacity to derive delicate data from the outsourced calculation. Accordingly, the entrance as well as the operation ought to be controlled. Also, individual data (characterized by every client's properties set) is at danger since one's personality is confirmed in light of his data with the end goal of access control (or benefit control in this paper). As individuals are turning out to be more worried about their character security nowadays, the personality protection likewise should be ensured before the cloud enters our life. Ideally, any power or server alone ought not know any customer's close to home data. To wrap things up, the distributed computing framework ought to be flexible on account of security rupture in which some a player in the framework is bargained by assailants. Different methods have been proposed to secure the information substance protection by means of access control. Character based encryption (IBE) was initially presented by Shamir, in which the sender of a message can indicate a personality to such an extent that lone a beneficiary with coordinating character can unscramble it. Couple of years after the fact, Fuzzy Identity-Based Encryption is proposed, which is otherwise called Attribute-Based Encryption (ABE). In such encryption plot, a character is seen as an arrangement of illustrative qualities, and decoding is conceivable if a descriptor's personality has a few covers with the one determined in the cipher text. Before long, more broad tree-based ABE plans,

II. JAVA CLOUD CODING

JTabbedPaneclass: The JTabbed Panecontainer allows many panels to occupy the same area of the interface, and the user may select which to show by clicking on a tab.



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Constructor

JTabbedPanetp = new JTabbedPane();

Adding tabs to the J Tabbed Pane

Add tabs to a tabbed pane by calling addTab and passing it a String title and aninstance of a class which should be called when we pressed a tab. That class should be a subclass of JPanel. addTab("String",instance);

```
Example program:
}
class Count extends JPanel
{
Count()
{
JButton b1 = new JButton("India");
JButton b2 = new JButton("SriLanka");
JButton b3 = new JButton("Australia");
add(b1);
add(b2);
import javax.swing.*;
import java.awt.*;
public class TabbedPaneDemo extends JFrame
{
TabbedPaneDemo()
{
setLayout(new
FlowLayout(FlowLayout.LEFT)); setTitle("Tabbed Demo");
setVisible(true);
setSize(500,500);
                             setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
JTabbedPane pane = new JTabbedPane();
pane.addTab("Countries",new Count());
```



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```
pane.addTab("Cities",newCit());
add(pane);
}
public static void main(String a[])
                                                    add(b3);
}
class Cit extends JPanel
{
Cit()
{
JCheckBox cb1 = new JCheckBox("Hyderabad");
JCheckBox cb2 = new JCheckBox("Banglore");
JCheckBox cb3 = new JCheckBox("Pune");
                                                   add(cb1);
                                                   add(cb2);
                                                   add(cb3);
}
}
```

2.1 JMenuBar, JMenu, JMenuItem



{

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new TabbedPaneDemo();

A top-level window can have a menu bar connected with it. A menu bar shows a rundown of top-level menu decisions. Every decision is connected with a drop-down menu. This idea is executed in Java by the accompanying classes: JMenuBar, JMenu, and JMenuItem. By and large, a menu bar contains one or more JMenu articles. Each JMenu object contains a rundown of JMenuItem articles. Each JMenuItem object speaks to something that can be chosen by the client. To make a menu bar, first make an example of JMenuBar. This class just characterizes the default constructor. Next, make occasions of JMenu that will characterize the determinations showed on the bar. Taking after are the constructors for Menu:JMenu()

JMenu(String optionName)

Here, option Name indicates the name of the menu choice. The principal structure makes a void menu. Singular menu things are of sort Menu Item. It characterizes these constructors : JMenuItem()

JMenuItem(String itemName)

Here, itemName is the name shown in the menu.

2.2. Sample code

package privilege; import javax.swing.JFrame; import javax.swing.JLabel; import javax.swing.JButton; import javax.swing.JPanel; import java.awt.event.ActionEvent; import java.awt.event.ActionListener; import javax.swing.UIManager; import java.awt.BorderLayout; import java.awt.Dimension; import java.awt.Color; import java.awt.Font; import java.io.File; import javax.swing.JFileChooser; import java.io.FileInputStream; import java.net.Socket; import java.io.ObjectOutputStream; import java.io.ObjectInputStream;



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```
import javax.swing.JOptionPane;
public class DataOwner extends JFrame{
GradientPanel p1;
JPanel p2;
JLabel 11,12;
JButton b1,b2,b3,b4;
Font f1;
Login login;
JFileChooser chooser;
public DataOwner(Login log){ super("Data Owner Modules"); login = log;
p1 = new GradientPanel(600,200);
p1.setLayout(null);
f1 = new Font("Courier New",Font.BOLD,14);
p2 = new JPanel();
p2.setBackground(new Color(204, 110, 155));
11
                                             new
JLabel("<HTML><BODY><CENTER>CONTROL CLOUD DATA ACCESS PRIVILEGE AND
ANONYMITY<BR/>WITH
FULLY ANONYMOUS ATTRIBUTE-BASED ENCRYPTION</CENTER></BODY></HTML>");
11.setFont(new Font("Courier New",Font.BOLD,16));
p2.add(11);
a. DataOwner.java
 12 = new JLabel("Data Owner Modules");
                                                                                               Object
 12.setFont(new Font("Courier New",Font.PLAIN,20));
                                                     req[] = {"upload",file.getName(),enc};
 12.setBounds(180,20,300,30);
 p1.add(l2);
                                                      out.writeObject(req);
 b4 = new JButton("Add Data User");
                                                                                                        ne
 b4.setFont(f1);
                                                      ObjectInputStream
                                                                                    in
 b4.setBounds(180,60,240,30);
                                                      ObjectInputStream(socket.getInputStream());
 p1.add(b4);
                                                                                               Object
 b4.addActionListener(new ActionListener(){
                                                     res[] = (Object[])in.readObject();
                      void actionPerformed(ActionEve
 public
```



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```
nt
                                                         JOptionPane.showMessageDialog(DataOwner.this,res[
 ae){
                        AddUser au = new AddUser();
                                                         0].toString());
                        au.setVisible(true);
                                                                                         }catch(Exception e){
                        au.setSize(500,600)
                                                         e.printStackTrace();
 }
 });
                                                                                         }
 b1 = new JButton("Upload File");
 b1.setFont(f1);
 b1.setBounds(180,110,240,30);
 p1.add(b1);
                                                         b3 = new JButton("Logout");
 b1.addActionListener(new ActionListener(){
                                                         b3.setFont(f1);
                              actionPerformed(ActionEve
 public
                                                       ntb3.setBounds(180,160,240,30);
                        void
                                                         p1.add(b3);
 ae){
                                                        =b3.addActionListener(new ActionListener(){
                        int
                             option
 chooser.showOpenDialog(DataOwner.this)
                                                                                          actionPerformed(Action
                                                         public void
                                                                                                            Event
                        if(option
                                                      ==ae){}
 chooser.APPROVE_OPTIO
 N){
                                                         setVisible(false);
                             File
                                           file
                                                        =login.clear();
 chooser.getSelectedFil
 e();
                                                         login.setVisible(true);
                             try{
                                                         });
 FileInputStream fin = new
 FileInputStream(file);
                                           byte
                                                    b[] =chooser = new JFileChooser(new File("."));
 byte[fin.available()];
                                                         getContentPane().add(p1,BorderLayout.CENTER);
                                                         getContentPane().add(p2,BorderLayout.NORTH);
 fin.read(b,0,b.length);
                                           fin.close();
                                                         }
                                           byte
                                                    enc[]}
 = AES.encrypt(b);
                                                         b.CloudServer.java
Socket
package privilege;
socket = new Socket("localhost",3333);
import javax.swing.JFrame;
ObjectOutputStream
import javax.swing.JButton;
out = new ObjectOutputStream(socket.getOutputStream());
import java.awt.event.ActionEvent;
 import java.awt.event.ActionListener;
                                                 table.setFont(f1);
 import javax.swing.UIManager;
                                                 table.setRowHeight(40);
 import java.awt.BorderLayout;
                                                 jsp = new JScrollPane(table);
                                                 dtm.addColumn("Cloud Server Request Processing
 import java.awt.Dimension;
```



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import java.awt.Color; Status"); import java.awt.Font; jsp.getViewport().setBackground(Color.white); import javax.swing.JOptionPane; getContentPane().add(jsp,BorderLayout.CENTER); import javax.swing.JTable; import javax.swing.table.DefaultTableModel; public static void main(String a[])throws Exception{ import javax.swing.JScrollPane; UIManager.setLookAndFeel("com.sun.java.swing.plaf. import java.net.Socket; nimbus.NimbusLookAndFeel"); import java.net.ServerSocket; CloudServercs = new CloudServer(); public class CloudServer extends JFrame{ cs.setVisible(true); cs.setSize(600,550); Font f1; JTable table; new CloudThread(cs); DefaultTableModeldtm; } JScrollPaneisp; } ServerSocket server; RequestHandler thread; public void start(){ try{



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```
server = new ServerSocket(3333);
Object res[] = {"Cloud Server Started"};
dtm.addRow(res);
while(true){
                                                                                      Socket socket = server.accept();
socket.setKeepAlive(true);
thread
                                                 new
RequestHandler(socket,dtm);
                                                    thread.start();
}
}catch(Exception e){
e.printStackTrace();
public CloudServer(){
super("Cloud Server Screen");
f1 = new Font("Courier New",Font.BOLD,13); dtm = new DefaultTableModel(){
public booleanisCellEditable(intr,int c){ return false;
}
};
table = new JTable(dtm);
```

III. TESTING

3.1 EXECUTION AND TESTING

Execution is a standout amongst the most essential errands in venture is the stage in which one must be alerts since every one of the endeavors embraced amid the undertaking will be exceptionally intuitive. Execution is the most critical stage in accomplishing fruitful framework and giving the clients certainty that the new framework is workable and compelling. Every project is tried exclusively at the season of improvement utilizing the specimen information and has confirmed that these projects connect together in the route determined in the system particular. The PC framework and its surroundings are tried as per the general inclination of the client.

3.2 EXECUTION

The execution stage is less imaginative than framework plan. It is essentially worried with client preparing, and document transformation. The framework might require broad client preparing. The underlying parameters of the framework ought to be adjusts as a consequence of a programming. A straightforward working methodology is given so that the client can comprehend the distinctive capacities obviously and rapidly. The diverse reports can be gotten



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either on the inkjet or spot network printer, which is accessible at the transfer of the client. The proposed framework is anything but difficult to actualize. When all is said in done usage is utilized to mean the way toward changing over another or amended framework plan into an operational one.

3.3 FRAME WORK TESTING

Testing has turned into a fundamental part of any framework or venture particularly in the field of data innovation. The significance of testing is a technique for defending, in the event that one is prepared to move further, be it to be check on the off chance that one is skilled to with stand the rigors of a specific circumstance can't be underplayed and that is the reason testing before improvement is so basic. At the point when the product is created before it is given to client to client the product must be tried whether it is illuminating the reason for which it is created. This testing includes different sorts through which one can guarantee the product is solid. The project was tried coherently and example of execution of the system for an arrangement of information are rehashed. Subsequently the code was comprehensively checked for all conceivable right information and the results were additionally checked.

3.4 MODULE TESTING

To find blunders, every module is tried independently. This empowers us to recognize blunder and right it without influencing some other modules. At whatever point the system is not fulfilling the required capacity, it must be revised to get the required result. Along these lines every one of the modules are separately tried from base up beginning with the littlest and most reduced modules and continuing to the following level. Every module in the framework is tried independently. For instance the occupation characterization module is tried independently. This module is tried with various employment and its surmised execution time and the aftereffect of the test is contrasted and the outcomes that are arranged physically. The examination demonstrates that the outcomes proposed framework works productively than the current framework. Every module in the framework is tried independently. In this framework the asset arrangement and occupation booking modules are tried independently and their relating results are acquired which lessens the procedure holding up time.

3.5 MIX TESTING

After the module testing, the mix testing is connected. While connecting the modules there might be chance for blunders to happen, these mistakes are adjusted by utilizing this testing. In this framework all modules are associated and tried. The testing results are extremely right. In this manner the mapping of occupations with assets is done accurately by the framework.

3.6 ACKNOWLEDGMENT TESTING

At the point when that client fined no real issues with its precision, the framework passers through a last acknowledgment test. This test affirms that the framework needs the first objectives, goals and necessities built up amid examination without genuine execution which end wastage of time and cash acknowledgment tests on the shoulders of clients and administration, it is at last worthy and prepared for the operation.

3.7 TEST CASES:

Test Case Id	Test Case Name	Test Case Desc		Test Steps	Test Case	Test Priority	
			Step	Expecte d	Actual	Status	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Dut	A 1	The said to		F	D' 1 1	TT'.1	TT:-L

Data	Admin	To verify	If entered	Error in	Displayed	High	High
Owner	login	the admin	wrong	login	data owner		
Login		either	details		Modules		
01		authorized					



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		or not					
Add	Adding	Data	If leave	Error in	Registratio	Medium	Medium
Data	Data Users	Owner	any field	registrati	n process		
Users 02		register	empty	on	completed		
		the data	when				
		users with	register				
		different					
		privileges					
		privileges					
Upload	Uploading	To access	If file not	Users	After	High	High
File 03	the file	the data,	uploaded	cannot	uploading		
		data		access	we get		
		owner		the files	message		
		uploading			like file		
		file			uploaded		
					successfull		
					V		
					ľ		
User	Login	To verify	If we	Error in	It will	High	High
Login	users	the user	enter	login	display the		
04		either	wrong		user		
		registered	details of		modules		
		or not	login				

Request	Request for	To access	If we are	File	Key	High	High	
Key 05	Key	the files	not keep	cannot	received			
		from	a request	encrypte	successfull			
		cloud	for key	d or	У			
		keep a		cannot				
		request		decrypte				
		for keys		D				



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Encrypt	File	By using	If we are	File	File	High	High
06	Encryption	key we	not keep	cannot	encrypted		
		can	a request	encrypte	successfull		
		encrypt	for key	D	у		
		the file					
Decrypt	File	By using	If we are	File	File	High	High
07	Decryption	key we	not keep	cannot	Decrypted		
		can	a request	decrypte	successfull		
		decrypt	for key	D	у		
		the file					
Downlo	File	Based on	If we are	We	File	High	High
ad 08	Download	privileges	not	cannot	downloade		
		download	decrypt	downloa	d		
		the	the file	d the			
		decrypted		files			
		files					

IV. OUTPUTS OF PROJECT

FORMULATION

Fig. 1 Cloud server:

Fig 2.Open the authority1 folder.click on run file





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Fig 3.Open the authority2 folder.click on run file



Fig 4 Open user_ownerfolder.click on run file Login screen



Fig 5 Login as admin.



4.1 DATA OWNER MODULES SCREEN

Fig 6 Click on add data user(data owner adds the data users).





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Fig 7 User registration screen.



Fig 8 Register as phd(privilege)

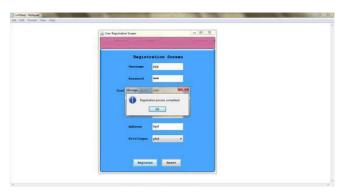


Fig 9 Register as master

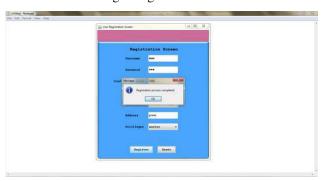


Fig 10 Register as graduate.





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Fig 11 After complete the registration process see the cloud server.

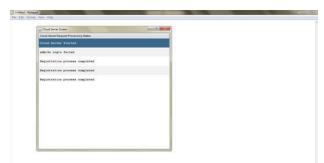


Fig 12 And also see the authority1 & authority2 screens

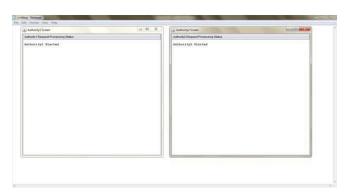
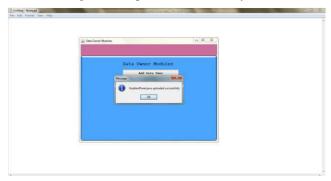


Fig 13 Next Click on upload file.



Fig 14 File uploaded successfully.





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Fig 15 Click on logout.



Fig 16 Login as ph d

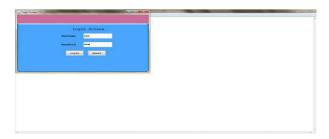


Fig 17 User screen



Fig 18 Click on request key utton.(privilege phd asks the request key to N-Authorities for uploaded file).





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Fig 19 Authority1 generate the key for user, Authority2 send the generate key to user.

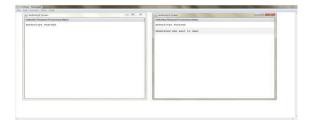


Fig 20 Click on encryption button. the uploaded file converted in ciphertext format(see in clouddata folder).



Fig 21 Click on decryption button. The encrypted file converted into plaintext format.



Fig 22 Click on downloadfile button.

Downloaded file stored into d directory.



Click on logout.



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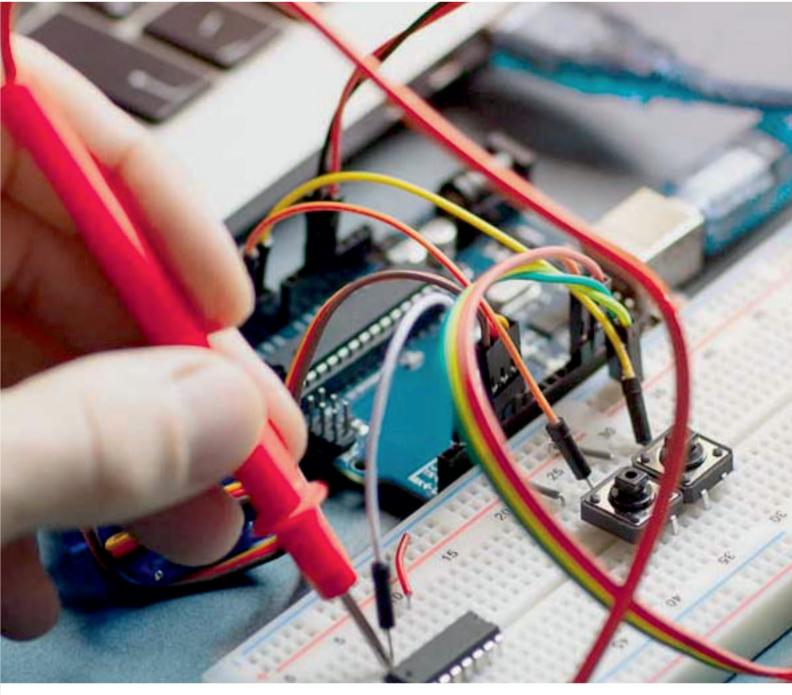
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V. CONCLUSION

This paper proposes a semi-mysterious trait based benefit control plan AnonyControl and a completely unknown characteristic based benefit control plan AnonyControl-F to address the client security issue in a distributed storage server. Utilizing various powers as a part of the distributed computing framework, our proposed plans accomplish fine-grained benefit control as well as character obscurity while leading benefit control in light of clients' personality data. All the more imperatively, our framework can endure up to N-2 power bargain, which is profoundly ideal particularly in Internet-based distributed computing environment. We additionally led nitty gritty security and execution examination which demonstrates that Anony Control both secure and productive for distributed storage framework. The Anony Control-F straightforwardly acquires the security of the Anony Control and hence is comparably secure as it, yet additional correspondence overhead is caused amid the 1-out-of-n absent exchange.

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