

INTEGRATION OF MULTI AUTHORITY AUTHENTICATION FOR FILE ENCRYPTION WITH ENHANCED SECURITY IN CLOUD STORAGE SYSTEM

V Ananda Naga Sai Pramodu, Student,
V Dhanush, Student,
Dr. M. Saravanan M.E., Ph.D., Assistant Professor,
Department of Computer Science and Engineering
Sathyabama Institute of Science and Technology – Chennai

In order to improve data security and access management in cloud computing environments, the Multi-Authority Authentication Mechanism File Encryption System (MA-AMFES) is presented in this abstract. Several identification and authentication authorities are integrated into the proposed system to ensure reliable authentication and authorisation processes. ABE approaches are used by MA-AMFES to enable fine-grained access control to encrypted data depending on user traits. In order to ensure a flexible and scalable configuration, the system makes use of a new key management technique that enables safe key production and distribution across several authorities. Moreover, MA-AMFES uses a hybrid encryption strategy that combines symmetric and ABE-based encryption to strike the ideal balance between security and computing efficiency. The proposed system's efficacy in terms of authentication accuracy, efficiency, and security is shown through experimental findings.