Abstract

Cloud computing is a popular theme of research in information systems. It has revolutionized
the perspective of distributed computing from existing methods. Although cloud offers great
benefits, it does introduce security threats to the information and data which is currently moved
from on-premises to off-premises. Due to the openness of data, cloud computing has been
experiencing security threats that must be overcome for this service to be fully utilised. One
such threat is data breach, this is because data is stored in different places across the globe
hence difficult for security to be monitored. Therefore, security and privacy of data are the two
major concerns of users in the cloud technology. Internet banking applications have become
popular within banks and almost each bank has got its own service. The login and signature
security vary from user/static password authentication method (it is alleged as the weakest way
to manage one’s accounts) to certificates and tokens. Considering the confidentiality of this
information, for instance passwords and bank accounts, banks need to identify, evaluate and
solve distinct risks to security in regard to cloud computing in their management information
security system. This paper sought to establish the available security measures employed in
curbing data breaches, their shortcomings and suggest possible solutions. The paper employed
a descriptive survey research design; a pre-tested questionnaire was used to collect data from
the 46 banks that use internet banking in Kenya. The study found that the banks had employees
who were certified in security matters but none was certified in cloud computing security and
recommended Staff Training and certification on Cloud Computing Security, cloud computing
and resource management

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**Index Terms**

Computer Science Distributed Systems

**Keywords**

Curbing, Cloud computing, Cloud security, internet banking, data breaches