

# CLOUD ADOPTION IN INDIAN BANKS

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**Abstract :** Cloud Banking in India helps to optimize the various relationship with technology for stimulating to market, mechanization and strengthening security increasing different stakeholders value and customers experiences reducing cost. Though, Banks can also request and adopt a cloud service without any interaction with the selected service provider based on their needs. At the same time, banks need to deal with the changing customer expectations driven by the digital revolution. Cloud banking provides to access the largest eco-system of consulting and technology partners and business solution that evaluate its performance. There are various types of bank clouding Public clouding, Private clouding, Hybrid clouding, Cloud bursting.

**IndexTerms-** Cloud Banking, Security, Bank.

## I. INTRODUCTION

Cloud computing is the future of banking technology. It's just a matter of time before all financial institutions move their technology to the cloud. A banks adapt to market changes and new technology landscapes, cloud computing is playing a major role, providing alternative ways to access to core banking technology. With cloud computing banks will not have to invest in hardware, software, dedicated servers and manpower to monitor the same. Also the unique nature of cloud computing allows financial institutions to pick and choose the services required and pay for whatever they have consumed. Cloud technology will help banks to improve profitability while also transforming their various customer engagement transactions. Cloud technology also providing hardware and software resources over the Internet, cloud computing drives down costs and enables innovation. Cloud also gives banks the ability to respond quickly to changing market, customer and technological needs, which is an important competitive edge. Most Indian banks are still on the fence when it comes to adoption of cloud computing. However, the benefits that cloud brings are making it increasingly attractive for Indian banks.

### 1.1 Statement of the problem

The important phenomenon of cloud banking are the issues that limit its widespread adoption. In the present scenario, cloud computing is seen as a fast developing area that can instantly supply extensible services by using internet with the help of hardware and software. The cloud service provider needs to establish clear and different policies that describe how the data that is processed or stored within the cloud to prevent unauthorized access. In this paper represent what kind of problems having in cloud adoption in India and how to solve the problems.

### 1.2 Objectives

- To identify the factors influencing the Indian banks to adopt Cloud banking.
- To give a suitable suggestions to the Cloud adoption in Indian banks.

### 1.3 Importance of the study

Cloud banking became a worldwide in recent era. Due to some problems our Indian banks became very challenging to the Indian economy. However, the concept of cloud computing appeared to gain steam, with 56% of the major European technology decision-makers seeing the cloud as a priority in last year. The cloud budget may reach 30% of the overall IT budget.

## II CHALLENGES AND PROBLEMS OF CLOUD COMPUTING

Cloud computing is expected to be one of the fastest growing in the coming years. Business application will be largest market for cloud services spending with a gradual transition from on premise to cloud based services especially for general business application like customer relationship management (CRM) and enterprise resource planning.

- 1 First, the issues related to the cloud security that the cloud providers face (like software provided to the organizations, infrastructure as a service).
- 2 Secondly, the issues related to the cloud security that the customers experience( organizations who store data on the cloud)
- 3 Most of the issues start from the fact that the user loses control of his or her data, because its stored on a computer belonging to someone else.
- 4 The cloud services users can encrypt data that is processed or stored within the cloud to prevent unauthorized access.
- 5 Other issues hampering the adoption of cloud technologies include the uncertainties related to guaranteed QoS provisioning, automated management, and remediation in cloud systems.
- 6 Banks will face different types of challenges with the introduction new e-banking services to retain and attract new customers and they are force to adopt new technologies to preserve their market shares and work to increase their profit.
- 7 Where Business challenges in banks cannot meet customers expectation on services and facilities offered by the banks.
- 8 As the advent of e-banking quickly changes the financial landscape and increases the potential quick cross border capital moment, macro economic policy makers face several questions.

### III SUITABLE SUGGESTIONS

- 1 Solutions to privacy in cloud banking include policy and legislation as well as end users choices for how data is stored.
- 2 The cloud service provider needs to establish clear relevant policies that describe how the data of each cloud user will be accessed and used.
- 3 Cloud service users can encrypt data that is processes or stored within the cloud to prevent unauthorized access.
- 4 Strong authentication is a mandatory requirement for any cloud deployment.
- 5 As cloud banking should achieve increasing popularity, concerns are being voiced about the security issues introduced through adoption of new mode.
- 6 Physical control of the Private cloud equipment is more secure than having the equipment off site and under someone else control.
- 7 The relative security of cloud computing services is a contentious issue that may be delaying its adoption.

### IV Data Privacy

May be the most important issue when considering a cloud solution is the data privacy, each organization is bound to store the data securely and used it on the in its regular business routines . Therefore it is necessary to strongly evaluate to providers security policy and trust worthiness, current accounts and associated services the entire world wide accepted credit and debit card. The board perspective loans and savings as well as highly secured online and mobile banking services.

#### 4.1 COUNTRIES USES OF CLOUD BANKING AS PER RESEARCH 2017-18

CZECH REPUBLIC	67%
SCOVANIA	64%
AUSTRIA	49%
INDIA	43%
HUNGARY	44%
CROATIA	29%
SERBIA	19%

#### 4.2 CLOUD CRITICAL TO E-GOVERNANCE IN INDIA

The Government of India is trying to expanding e-governance throughout the country and is working on accepting the cloud computing for it.

The concept of e-governance is pointed at reducing unchecked corruption and providing government services to the people living on the margin lines of the society. E-governance optimizes the use of available resources and infrastructure. This results in faster delivery of services and removes agent that tend to take advantage of loopholes in the system to make a quick buck.

Per the latest report by specialist research and analyst company DCD Intelligence, India is one of the leading investors in the data center power sector. This means that the national government is serious about implementing cloud computing.

#### 4.3 UNIQUE IDENTIFICATION PROJECT AND THE CLOUD

The unique identification project that the Indian government is trying out should also be mentioned in this discussion about cloud computing. This project gives a unique identity to every citizen and removes any chances of misusing of resources. As part of the project, the government has already collected biometric and demographic information of about 20 million people. All Indian citizens will receive an ID card that authenticates their identity through biometric checks. Enrollment will include 600 million people, and each person registered will have an estimated 5 megabytes of data. The data center that will hold the information will have 4 terabytes of data coming into it every day during peak enrollment periods, making it about the biggest non-commercial datacenter in the world.

### V CONCLUSION

Cloud banking is the fastest technology where the Indian banks are accepted this technology. Most of the Indian banks are adopting this technology for providing the good service to their customers. However there is a different kinds of research which is still required in cloud banking as many of issues which are related to security and privacy.

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