Time to embrace and adopt Cloud Computing Technology in The Indian Healthcare Industry

Authors: P.R.Kunekar, K.R.Metha ,G.R.Mali

Department of Computer Engineering, G.M.Vedak Institute of Technology,Tala-Raigad (MH) India
Department of Computer Engineering, A.C.Patil College of Engineering, Kharghar,Navi Mumbai (MH) India.
Email Id:gayatrimali25@gmail.com, kunekarpankaj30@gmail.com, kadambarimetha@gmail.com

Abstract: Healthcare industry has traditionally been one of the slowest field to adopt new technologies. Generally this has to do with fears around security and privacy of patient's data. Healthcare companies have always preferred to keep data behind secured firewall or even on-site as opposed to have something as intangible as cloud computing. From a digital viewpoint, healthcare in India has evolved in the last decade across both patient care and hospitals. Indian hospitals have invested in digital technologies such as social media services to interact with patients and build relationships, as well as in cloud services to maintain and keep track of health records and insurance transactions of patients all over the world. Hospitals are starting to use analytics more rigorously for clinical and nonclinical data. Automation solutions are still in the proof-of-concept stage and are predominantly used in operations and other support functions but not directly in medical functions. Many of the healthcare centers have not adopted cloud technology completely for their system as their primary focus has been on automation of back office systems, payment and reimbursement, digitization of medical records, and business intelligence for regulatory compliance and accreditation. In many emerging/developing countries like India, IT budgets are very low. Investments in IT compete with other priorities like radiological equipment or operational expansion. Cloud plays a vital role in providing cost-effective services to today's consumer-driven market, and ensures efficiency and productivity by maintaining records and providing ease of access to the professionals. There has been a notable rise in the use of cloud services in the recent past and the spending on healthcare cloud-based platform is expected to rise to an estimated $9.5 billion by 2020, according to research firm Markets and Markets.

Keywords: *Cloud computing, Cloud services, digitization, healthcare*