A Study on Cloud Computing and Virtualization

Prof. Palak Agarwat and Shubham Yadav

Asst. Professor and Research Scholar

St. Rock's College of Commerce and Science, Borivali (W), Mumbai, India

Abstract: *Cloud computing and virtualization are two fundamental technologies that have revolutionized the IT landscape. Cloud computing provides on-demand access to a vast array of computing resources, enabling organizations to scale and deploy applications with unprecedented flexibility. Virtualization, on the other hand, abstracts physical hardware, creating virtual machines that can run multiple operating systems and applications on a single server. Together, these technologies have transformed the way we deploy and manage IT infrastructure, offering cost-efficiency, scalability, and agility. This abstract explores the symbiotic relationship between cloud computing and virtualization, highlighting their significance in modern IT ecosystems and their potential to drive innovation and business growth..*

Keywords: Cloud, Computing, Virtualization, IT, Infrastructure, Scalability