National Conference on Recent Advances in Science, Engineering, Humanities, and Management (NCRASETHM - 2024)
28th January, 2024, Banquet, Noida, India.

CERTIFICATE NO : NCRASETHM /2024/C0124139

IMPACT OF MULTICLOUD MANAGEMENT ON OPTIMAL WORKLOAD MANAGEMENT

MALEGE SANDEEP

Research Scholar, Ph. D. in Computer Science & Engineering
P. K. University, Shivpuri, M.P., India

ABSTRACT

The impact of multicloud management on optimal workload management is profound, as businesses increasingly adopt multiple cloud platforms to distribute and manage their workloads more efficiently. Multicloud strategies allow organizations to leverage the strengths of different cloud providers, ensuring that specific workloads are executed in the most suitable environment. This flexibility enhances performance, improves resource utilization, and reduces downtime, leading to better overall workload optimization. One of the key advantages of multicloud management is its ability to dynamically distribute workloads based on performance, cost, and availability. By managing workloads across different clouds, businesses can avoid overburdening a single platform, thus preventing bottlenecks and ensuring more efficient processing. This also allows for scaling on demand, enabling companies to handle fluctuating workloads without compromising performance. However, managing workloads in a multicloud environment presents its challenges. Without proper management tools, it can be difficult to monitor performance and balance resources across platforms. Multicloud management solutions help organizations address this by providing centralized control, automation, and real-time analytics to ensure that workloads are distributed optimally. Overall, effective multicloud management enhances workload efficiency by enabling businesses to take advantage of multiple cloud environments, ensuring that resources are allocated effectively while minimizing costs and maximizing performance.