CERTIFICATE NO : ICASEMH /2023/C0223228

ANALYSING MULTICLOUD MANAGING FOR BUSINESS CHALLENGES

MALEGE SANDEEP

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

ABSTRACT

Multicloud management has become an essential strategy for businesses aiming to address growing complexities in cloud computing. In a multicloud environment, organizations utilize services from multiple cloud providers, which allows for greater flexibility, risk mitigation, and cost optimization. However, managing multicloud solutions presents significant challenges, especially in terms of integration, data security, and cost control. One of the key challenges is ensuring interoperability between different cloud platforms, which often have distinct architectures and standards. This can complicate data migration, system communication, and workflow integration. Moreover, businesses must tackle security concerns, as multiple clouds increase the attack surface, making it harder to implement consistent security policies and compliance measures across platforms. Another challenge is the rising operational costs, as businesses may face unexpected charges from inefficient resource allocation or lack of comprehensive cost management tools across providers. To address these challenges, businesses must invest in robust multicloud management platforms that enable seamless integration, security management, and cost monitoring across multiple providers. In study, while multicloud environments offer numerous benefits such as reduced vendor lock-in and enhanced resilience, effective multicloud management requires comprehensive tools and strategies to overcome these operational and security hurdles.