

Comparative Analysis of Different Cloud Computing Security Services offered By Microsoft Azure, Amazon Web Services and Google Cloud Platform

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Abstract: *This paper presents a novel approach toward a comprehensive analysis of various simulation-based tools to test and measure the Cloud Datacenter performance, scalability, robustness and complexity. There are different Cloud Datacenter resources in cloud Computing Infrastructure like Virtual Machine, CPU, RAM, SAN, LAN and WAN topologies. The server machines need to be analyzed for their utilization in terms of energy and service to clients in cloud computing. We have analyzed various Cloud resources using CloudSim, CloudReports and Cloud Analyst tools. Resources provisioning, Cloud Management, Load Balancing, Robustness and Cloud Scalability are this paper's primary scope of work. In this regard, some Simulation test results and Simulations are presented to compare them with real-time scenarios to bring the performance and scalability issues to our notice for future directions*

Keywords: Cloud Security, Honeypots, Cyber Threats, AWS, Azure, GCP, Adversarial Activity, Situational Awareness, Cloud Vulnerabilities, Cybersecurity

