**MONITORING LOAD PROCESSOR DAN JARINGAN PADA CLOUD COMPUTING DENGAN FUZZY LOGIC**

Tamara Kharisma Restu (09011281419045)

Jurusan Sistem Komputer, Fakultas Ilmu Komputer, Universitas Sriwijaya

Email : tamara.khares[@gmail.com](mailto:restihandayani77@gmail.com)

**Abstrak**

Monitoring pada Cloud penting dilakukan untuk mendeteksi anomali. Performa Cloud dipengaruhi oleh Processor, RAM, dan kecepatan Hardisk yang dipasang pada Cloud. Penelitian ini bertujuan untuk monitoring Performa Cloud dengan beberapa skenario menggunakan Logika Fuzzy. Langkah-langkah penelitian ini adalah membangun Topologi Cloud, melakukan skenario serangan brute force terhadap Cloud, melakukan serangan DDoS terhadap Cloud, dan skenario unggah file besar pada Server Cloud . Berdasarkan pengujian yang telah dilakukan, hasil Performa Cloud pada skenario serangan brute force menunjukkan Performa Cloud termasuk ke kategori Normal dengan RAM usage 832MB, CPU usage 32%, dan kecepatan Hardisk 233MB/s. Untuk Performa Cloud pada skenario dilakukan serangan DDoS menunjukkan Performa Cloud termasuk ke kategori Ringan dengan RAM usage 943MB, CPU usage 17%, dan kecepatan Hardisk 80MB/s. Performa Cloud pada skenario unggah file besar menunjukkan termasuk ke kategori Berat dengan RAM usage 981MB, CPU usage 42% dan kecepatan Hardisk 7422MB/s.

**Kata Kunci** : *Cloud Performance**, Brute Force, Logika Fuzzy, DDoS*

**LOAD PROCESSOR AND NETWORK MONITORING IN CLOUD COMPUTING WITH FUZZY LOGIC**

Tamara Kharisma Restu (09011281419045)

Dept. of Computer Engineering, Faculty of Computer Science, Sriwijaya University

Email : tamara.khares[@gmail.com](mailto:restihandayani77@gmail.com)

**Abstract**

Monitoring on the Cloud is important to detect anomalies. Cloud performance are influenced by Processor, RAM, and hard disk speed installed on the Cloud. This study aims to monitor Cloud Performance with several scenarios using Fuzzy Logic. The steps of this study are to build a Cloud Topology, perform a brute force and DDos attacks on the Cloud, and install large files on the Cloud Server. Based on the tests that have been carried out, in a brute force attack scenario shows that Cloud Performance is in the Normal category with 832 MB RAM usage, 32% CPU usage, and 233 MB/s hard disk speed. In a scenario with DDoS attacks shows Cloud Performance is in the Light category with 943 MB RAM usage, 17% CPU usage, and hard disk speed of 80 MB/s. In the large file upload scenario shows Cloud Performance included in the Heavy category with 981 MB RAM usage, 42% CPU usage and hard disk speed of 7422 MB/s.

**Keyword** : *Cloud Performance**, Brute Force, Fuzzy Logic, DDoS*