

**OPTIMALISASI PERFORMA DRBD CLUSTER SERVER DENGAN  
MENGUNAKAN DUAL PRIMARY NODE BERDASARKAN  
PARAMETER THROUGHPUT, RESPONSETIME DAN SINKRONISASI  
DATA**

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**ABSTRAK**

DRBD cluster server memiliki tingkat ketersediaan yang tinggi namun pada cluster tersebut belum memiliki pembagi beban pada server yang mengakibatkan kelebihan beban. Untuk meningkatkan performa DRBD cluster server dapat menggunakan dual primary node yang memiliki pembagi beban karena kedua servernya menjadi primary node sehingga setiap beban kerja akan dibagi sama rata ke masing-masing server. Untuk mengetahui peningkatan performa pada DRBD cluster server maka dilakukan uji coba berdasarkan parameter responsetime, throughput dan sinkronisasi data menggunakan 5 file uji. Pengujian dilakukan pada single primary node DRBD cluster server dan dual primary node DRBD cluster server sehingga dapat dilihat perbandingan performanya. Dari hasil uji coba tersebut diperoleh hasil bahwa dengan menggunakan dual primary node DRBD cluster server dapat meningkatkan performa DRBD cluster server sebanyak 193% atau hampir 3 kali lipat.

Kata Kunci : DRBD cluster server, high availability server, load balance, dual primary node, peningkatan performa.

## **DRBD CLUSTER SERVER PERFORMANCE OPTIMIZATION USING DUAL PRIMARY NODE BASED ON THROUGHPUT, RESPONSETIME AND DATA SYNC PARAMETERS**

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### **ABSTRACT**

DRBD cluster server has a high level of availability but the cluster doesn't have a load balancer that means the server will be overloaded. To improve the performance of DRBD cluster server can use dual primary node that has a load balancer because the both server becomes the primary node so that each workload will be divided equally to each server. To find the improved performance on DRBD cluster server then be tested by parameter response time, throughput and data sync using 5 test files. Tests carried out on the primary single node DRBD cluster server and dual primary node DRBD cluster server so that it can be seen the comparison of performance. From the test results were obtained that by using dual primary node DRBD cluster server can improve the performance of servers by 193% or nearly 3-fold.

Keyword : DRBD cluster server, high availability server, load balance, dual primary node, performance improve.