Abstrack

The development of the information technology helps companies manage their information, anytime and anywhere. And at the present time, there are companies that provide information management services that can be viewed anytime, anywhere. This can be done with the database in the cloud architecture which database can be accessed by a client of the cloud service. Cloud architecture has one special character, which is multitenancy. Multitenancy is a characteristic where cloud service tenant could use computing resources together. Behind the advantage that provided by multitenancy characteristic in the cloud, there are still some issues that are still to be research on these characteristics. One of them is resource isolation. Therefore, in this final project, the writer will implement how multitenancy can be handle in the Database as a Service, especially aspects of resource isolation. The case study used is the distro database. The study was conducted on aspects of resource isolation. The types of resource isolation that used in this final project is Dedicate Schema / Table and Shared Schema / Table. The results of this final project is the performance of each type of resource isolation in the DBaas system using tested parameters response time, throughput and error rate. Where performed in implementation that each type of resource isolation has the advantage based on the scenarios tested. But overall, Dedicate schema / tables give better results than other resource isolation types.

Keyword: multitenancy, resource isolation, DBaaS, Performance. Response time, throughput, error rate.