Abstract

The word 'grid' in terms of Grid Computing chosen as an analogy to the electrical grid. The purpose of the concept of grid computing is to facilitate grid computing user or users to access and use source of computing as easy as taking electricity from the socket without having to know where the location of these resources.

Grid computing is a type of parallel computing and distributed systems that seeks to unite computing resource or resources geographically. Resources is not limited to the CPU and memory cycle but also storage resource such as a data catalog or database and even other resources such as software, hardware, even people (scientists, enterprise or company, organization etc.).

In the final assignment is to discuss the design and implementation of grid computing where the design of the grid computing system built including the construction of infrastructure to connect a cluster with 3 different host tissues, as well as the design and implementation of resource management and monitoring resource pool on the system grid computing using hypervisor so that resources required by each user (client) can be divided properly as needed.

keyword: Grid Computing, resource management, hypervisor, resource pool