Abstract

A data Centre is a dedicated space where companies can keep and operate most of the ICT infrastructure that supports their business. A server cultivate much of the time requires expansive redundant or fortification control supply structures, cooling structures, abundance frameworks organization affiliations and methodology based security systems for running the endeavor’s middle applications. This would be the servers and capacity gear that run application programming and process and store information and substance. For a few organizations this may be a basic enclosure or rack of gear, for others it could be a room lodging a couple or numerous cupboards, contingent upon the size of their operation. it divided the research in to two phases in first Phase it would be analyzed the current data center infrastructure which includes energy cost, SLA (Service Level Agreement) cost, Hardware cost, maintains cost. In second phase it is suggested how to reduce electricity cost, how to control heating in data centers, how to utilize hardware at its maximum level. It also provided better solution for security, redundancy and updation. CFD modeling tool is use for analyzing data center on generated physical test bed. Both types of analysis (qualitative and quantitative).
References


**Index Terms**

Computer Science  
Artificial Intelligence

**Keywords**

Data Center, SLA (Service Level Agreement), CFD Modeling Tool