Abstract

Data Centers are integrated facilities that house computer systems for cloud computing and have been widely deployed in large companies such as Amazon, Google, Microsoft or Yahoo. So the Energy Consumption by Servers is a growing issue in Data Centers. There are different components which offer more power and energy utilization, such as CPU, Disk, and Network interface. There are different techniques to measure the power and energy consumption of multiple components. Here CPU, Disk and Network interface energy consumption is measured based on load. Load increases as the number of client increases. Estimation of the power and energy consumption of Data Center Server Components helps to predict and optimize the
energy consumed by an application.

References

- Mark Weiser, Brent Welch, Alan Demers, Scott Shenker, Scheduling for Reduced CPU Energy.

Index Terms

Computer Science

Distributed Systems

Keywords

Cpu  Data Centers  Disk  Energy Measurement  Network.