BLG111E-Introduction to Computer Engineering

Paper Evaluation

Title of the paper: Cloud computing: Opportunities and challenges
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Brief summary of the paper

Cloud computing is a new technology that allows access to certain services and resources over the internet. The Cloud is a metaphor for the web. Cloud computing's main aim is to create a system to use distributed systems efficiently and solve large-scale computation issues. Cloud computing is very useful for people who need to access applications and data without time and place limitation. Cloud computing has three different systems. One of them is Infrastructure-as-a-service (IaaS) which offers computing resources like processing, network and storage. This service also known as hardware-as-a-service and it has the ability to access resources over the web. Iaas is usually priced by usage which is a huge advantage. The next system is Platform-as-a-service (PaaS) which includes certain interfaces and applications. Most of the web applications uses this system. Last system is Software-as-a-service (SaaS) which serves to end users directly. This system uses internet for their user's data and app updates. This service is usually priced by the time periods. Benefits of cloud computing are availability on request, reliability, access to ubiquitous network, lower costs, low risk of losing data and using resource without a location limit. Cloud computing's disadvantages are getting data stolen and latency. Cloud computing can also be used for education and science. A giant science based cloud system can make discoveries a lot faster.

Comments related to the paper

Cloud computing is such a new technology, human race discovers possibilities of it while creating it. It can provide new possibilities but today's internet speed and cost of the internet will not allow cloud technology to develop. Another issue is high signal density on the web. Word wide web can't handle with signals if cloud technology get popular. There is also security of the data problem. It is too hard to secure user's data on web. The most practical way to apply cloud computing would be a mixed system of offline devices and online services. Using apps on the device and getting data from the cloud can be very useful. And it would eliminate the problems like slow internet and signal density. Keeping sensitive data on the device can solve security issues but that data would not accessible from everywhere. Anyway a right ratio of using cloud systems and user's devices can create a sustainable system.

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