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A Review on Trends of Cloud Computing for Autonomous Vehicle

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Abstract

Background: Term “cloud computing” itself was coined in 1996 with in a Compaq internal document. Licklider's idea went on to revolution is e-computing when, in 1969, Bob Taylor and Larry Roberts developed ARPANET (Advanced Research Projects Agency Networks) and, eventually, became the precursor of what we call the internet [3].

Objectives: The Cloud computing [1] is the on-demand availability of computer system resources, especially data storage (cloud storage) and computing power, without direct active management by the user. [2] Large clouds of ten have functions distributed over multiple locations, each location being a data center. Cloud computing relies on sharing of resources to achieve coherence [clarification needed] and economies of scale, typically using a “pay-as-you-go” model which can help in reducing capital expenses but may also lead to unexpected operating expenses for unaware users [3].

Methodology: The methodology used in this consists of the role of machine learning and prediction of the future scenario of the Autonomous Vehicle. Thanks to ML, these autonomous cars are very much capable of sensing the environment around them and moving safely, requiring very little or no human intervention whatsoever.

Result and Discussion:1) Readiness Assessment 1. Staff competencies 2. Organization structure 3. Cultural considerations 1. Architecture review 2. Complete inventory of all storage, network, computing components 3) Assessment of monitoring and management capabilities 1. Cloud computing planning 2. On-premise 3. Hybrid 4. Off-premise 4) Cloud transformation 1. Implementation of migration plans 2. Identify early successes and value capture it.

Conclusions and Future Work: The most substantial impact of cloud technology could come in the cost savings and increased competitiveness of IT services available to public and private organisations, as well as opportunities leading to new services, but cloud technology could positively increase other benefits for end users. Lower computer costs. Cloud computing is recently new technological development that has the potential to have a great impact on the world. It has many benefits that it provides to it users and businesses. But once, there are standards and regulation worldwide, cloud computing will revolutionize the future.

References

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