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Cloud Migration

Introduction

Organizations are heavily depend on their business-critical systems, which have been developed over long periods so these applications and software's are deployed on-premises environment [1] which takes a large amount of money and time to set up the servers and virtual machine in their on-premises environment but now the small business or even large business are adopting cloud environment there are many cloud providers in the market but some of them are well known such as Amazon Web Services (AWS), Microsoft Azure and Google Cloud Platform GCP.

Scope

Major IT companies and start-ups see cloud computing as an opportunistic business strategy to remain competitive and to meet business objectives [2]. The cloud computing gets more attractive as per the pay-per-use model rather than getting extra and overrated infrastructure equipment also its maintenance cost that makes this model costly as compared to the cloud computing. Some software intensive applications cannot easily utilize cloud-based environments such as safety-critical softwares [3].

Pros & Cons

The cloud computing's detrimental is the latency issue which is basically due to the long distance between the source and the destination or client and datacenter, rather than the latency issue the cloud computing is more beneficial as compared to the on-premises environment due to more resources such as compute power, storage, memory and networking while the on-premises environment has the limited resources and it's maintenance is also a hectic process due to which a business can face the downtime but on the other hand cloud computing is quietly opposite if the maintenance is required in any availability zone the business can get the service from the other availability zone also the intimation is received when there is a downtime required but the services are not disturbed. As per the aspect of the IT department the cloud computing has reduces the efforts of organization's engineers by acquiring the major maintenance job also the electrical power issues are also been addressed because electricity is no more issue for the organizations. It is best fit for the small business organizations and startups in aspect of deploying their applications over the cloud which need to be up 24 x 7 and with respect to the cost cuttings this gets more beneficial because it causes less cost as compared to setting the on-premises environment

Cloud Computing Adoption

As per the cloud adoption statistics 83% of the enterprise workload was shifted to cloud, The public cloud service market is expected to reach \$623.3 billion by 2023 worldwide, the cloud computing reduces the IT budget by 30% [4]. Public cloud infrastructure has grown by 35% in 2021.

Conclusion

The major purpose of the article is to provide the overview of the cloud computing as compared to the on-premises environment by analyzing research of different peoples on this hot topic though which it might help readers to specially IT personals to make the future strategies on the basis if this study. The major theme has been highlighted the cloud computing is more powerful and rapidly growing field that's covering a large market or different businesses, every technology that comes around newly has its own advantages and disadvantages but after the as the time passes and technology gets mature with the help of different studies and vendor's efforts, hence the cloud computing is a newly emerging technology it will get more powerful and acquire more businesses in the future.

References

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