

DEVELOPING, ISSUES AND BENEFITS OF DATA WAREHOUSING IN THE CLOUD COMPUTING

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Abstract

The purpose of this study is to present and discuss the importance of combining data warehousing and cloud computing. Data warehousing and cloud computing are recent trends in modern computing. The Web is becoming the biggest contributor towards the growth of business intelligence and data warehousing. The Internet and data warehousing are both technologies that are intended to offer easy access to information. The Internet supplies an infrastructure where more users can access corporate information. In addition, the Internet can increase the number of sources of information to include both internal and external data. Using Internet/Intranet technologies to implement data warehouses is significantly reducing the cost associated deployment. On the other hand, Cloud computing is the opposite of traditional data warehousing. The main purpose of cloud computing is to share resources. The cloud is the natural integration point for data. In this paper we discuss opportunities and issues, several challenges when deploying data warehouses in the cloud. Cloud infrastructure is the perfect platform for constructing the ideal data warehouse. Cloud infrastructure delivers near-unlimited resources, on demand, in minutes, and you pay only for what you use. Transforming data warehousing into a cloud service requires re-imagining the entire technology infrastructure that supports it. Data warehouse workloads are particularly challenging in the cloud. That's because most cloud environments are not configured for typical data warehouse workloads. Relating to making an enterprise-wide data warehouse available on the web and discuss a number of important trends and technologies. In this paper we conclude that data warehousing in the cloud can provide an easy, cost-effective means of augmenting existing environments, deploying development, test, and production environments for data footprints and workloads that fit in the cloud's sweet spot. Data warehousing systems in the cloud have great potential, due to potential for elasticity, scalability, deployment time, reliability and reduced costs.

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