A Comparative Study of Teradata Vantage on Cloud and On-Premises for Big Data Analytics Ayad Salhieh and Mohammad Al-Kabi.

Dimensions:

The paper compares the performance and cost-effectiveness of Teradata Vantage, a big data analytics platform, in cloud and on-premises environments. The authors conducted experiments on different workloads and compared the results to provide insights into the benefits and drawbacks of each deployment model.

Background:

The paper provides an overview of the challenges and opportunities associated with big data analytics, as well as the differences between cloud and on-premises deployment models. It also discusses the features and capabilities of Teradata Vantage and the different deployment options available.

Important points:

The authors found that the cloud deployment of Teradata Vantage is more cost-effective and scalable than the on-premises deployment for certain workloads, such as ad hoc queries and data exploration.

However, for workloads that require a high level of control over hardware and network resources, the on-premises deployment is preferred.

The authors also found that the performance of Teradata Vantage is largely dependent on the size and complexity of the data, as well as the workload characteristics.

The paper provides a detailed analysis of the experimental results, including charts and tables comparing the performance and cost of the two deployment models.

References:

The authors reference a number of related works, including research on big data analytics, cloud computing, and data warehousing. Some of the references cited in the paper include:

1. "Big Data Analytics: Challenges and Opportunities" by S. S. Bhatia and S. S. Tiwana.
2. "Cloud Computing for Big Data Analytics: A Review" by N. Gupta et al.
3. "Data Warehousing in the Cloud: A Survey" by J. W. Kim et al.
4. "A Comparative Study of Traditional Data Warehousing and Cloud Computing for Business Intelligence" by M. A. Khan and K. Salah.