

INFRASTRUCTURE AND MODELS ANALYSIS OF CLOUD DATA WAREHOUSE

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The paper analyzes the architectural approaches to building cloud data warehouses. The different approaches, including concentrated and distributed storages, were examined and effectiveness of their use was analyzed.

Cloud storage is a model of networked enterprise storage where data is stored in virtualized pools of storage which are generally hosted by third parties. Hosting companies operate large data centers, and people who require their data to be hosted buy or lease storage capacity from them. The data centre operators, in the background, virtualizes the resources according to the requirements of the customer and expose them as storage pools, which the customers can themselves use to store files or data objects. Physically, the resource may span across multiple servers and multiple locations. The safety of the files depends upon the hosting companies, and on the applications that leverage the cloud storage.

Cloud storage services may be accessed through a web service application programming interface (API) or by applications that utilize the API, such as cloud desktop storage, a cloud storage gateway or Web-based content management systems.

As shown in the analysis of different approaches to the storage infrastructure and storage of models, currently there are highlighted several major directions in the design of cloud repositories. Choosing the best embodiment mainly depends from the implementation of the logical storage and calculation load, as the rapid development of communication constantly reduces prices for inter-network communications. In turn, the cloud storage logical structure is determined by its functional purpose such as quick and widespread access to data, regardless of user location data.

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