

Areas of Application of "Cloud" Servers in Modern Network Technologies

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Abstract: This article discusses the importance of the cloud system and what its advantages are. Here are a few basic facts about a stomp pad and how it is used.

Keywords: Cloud Computing, Cloud Technology, Software-as-a-Service, Function-as-a-Service.

Information technology is becoming an integral part of our lives. Proof of this can be found in modern data storage systems. Over the years, cloud technology has been used to improve business governance, data exchange and user-friendliness. It is clear that this technology will become a common tool in ten years, and without it, no industry can be imagined.

This technology is gaining popularity not only in developed countries, but also in rapidly developing countries such as Uzbekistan. In order to introduce and develop cloud technologies, the Center for Information Technology has developed a cloud computing system icloud.taqi.uz in order to store data in a single system, ensure the security of stored data and create convenience for the staff of the Tashkent Institute of Information Technology. Architecture and construction. The system is designed for employees to store, edit and send various information to other users. The system has a user-friendly interface and is designed to be easy for the user to understand. We hope that the icloud.taqi.uz cloud computing system will be of great help to you during the operation.

Cloud technologies: Cloud technologies are data processing technologies in which computer resources are provided to an Internet user as an Internet service. Here, the word “cloud” exists as a metaphor for a complex infrastructure that hides all technical details. Computer resources and capabilities are provided. The user has access to his data but cannot control it and should not worry about the infrastructure, operating system and the software he is running. The term “cloud” is in a computer network diagram

It is used as a metaphor based on an internet image or as an image of a complex infrastructure where all the technical details are hidden. According to an IEEE document released in 2008, “Cloud computing is data constant is a paradigm that is stored on Internet servers and temporarily stored by the client on personal computers, game consoles, laptops, smartphones, and so on. Cloud data as a concept. Processing includes:

Cloud computing is the availability of computer system resources without direct active control by the user, especially data storage (cloud storage) and computing power on demand. Large clouds often have functions distributed over several locations, each location being a data center. Cloud computing relies on compatibility [clarity required] and resource sharing to achieve economies of scale, typically using a “pay as you work” model that can help reduce capital costs but lead to unexpected operating costs for unsuspecting users.

The use of cloud metaphors for virtualized services dates back to at least General Magic in 1994, where it was used to describe a world of “places” that mobile agents in a Telescript environment could visit. Now as Hertzfeld describes:

“The beauty of telescript,” says Now, “is that instead of having a device for programming now, we have a whole cloud where a single app can go and travel and create different data sources. service type

The use of the cloud metaphor belongs to David Hoffman, a communications officer at General Magic, and is based on long-standing use in networking and telecommunications. In addition to being used by General Magic, it has also been used to promote AT&T-related PersonaLink services. It is used as a metaphor based on an internet image or as an image of a complex infrastructure where all the technical details are hidden.

According to an IEEE document published in 2008, “Cloud computing is a paradigm in which data is permanently stored on Internet servers and temporarily stored by the client on personal computers, game consoles, laptops, smartphones, etc. Cloud data as a concept . Processing includes:

- 1) as an infrastructure service
- 2) platform as a service
- 3) as a service as a program
- 4) information on service quality
- 5) workplace as a service

Cloud technology is a big concept that encompasses the various concepts that services provide. For example, software, infrastructure, platform, data, workplace, and so on. Why all this? What is cloud computing? The first is offline computing on a local computer. Second, “utility computation” (utility computation), especially when a service is ordered to perform complex calculations or store a number of data. Third is grid-computing. In practice, the boundaries between all types of these calculations are blurred enough. However, the future of cloud computing is much bigger than auxiliary and distributed systems.

Cloud technologies

Cloud computing is a distributed data processing technology that provides the user with computer resources and capabilities as an Internet service.

The main types of cloud technologies:

"Service without infrastructure" ("Infrastructure as a service" or "IaaS")

"Platform Service" ("Platform as a Service", "PaaS")

"Software as a service" ("SaaS").

All infrastructure, platforms, software or technology that users access over the Internet without requiring additional software downloads can be considered as the following service quality solutions, including cloud computing services.

As a service, infrastructure (IaaS) provides users with computing, networking and storage resources.

Platforms-as-a-Service (PaaS) provides users with a platform on which applications can run, as well as the entire IT infrastructure necessary for its operation.

Software-as-a-Service (SaaS) provides users mainly with a cloud application, the platform it runs on, and the core infrastructure of the platform.

Function-as-a-Service (FaaS), an event-based execution model, allows developers to create, run, and manage application packages as functions without maintaining infrastructure.

Depending on who you ask, clouds can also be considered as cloud services. Clouds are IT environments that abstract, integrate, and share expandable resources across a network. Clouds enable cloud computing, which is the act of carrying workloads in a cloud environment. Clouds are a type of PaaS because someone other than the user provides the basic infrastructure that the web platform provides.

Private clouds are clearly defined as a cloud environment for the end user only, usually within the user's firewall and sometimes indoors.

Shared clouds are a cloud environment created from resources that do not belong to the end user and can be redistributed to other tenants.

Hybrid clouds are multi-cloud environments that include workload transfer, orchestration, and management levels.

Multiple clouds are IT systems that contain more than 1 cloud (public or private) and may or may not be connected to a network together.

Like all other IT solutions, cloud services rely on hardware and software. However, unlike traditional hardware and software solutions, users do not need anything other than a computer, network connection, and operating system to access cloud services.

Conclusion

Cloud servers are necessary and useful for all of us. With its simplicity and ease of use, Cloud's capabilities make it easier for us. It is also important that Cloud is not static. Cloud servers are also an important factor today, as the environment was originally designed to organize and integrate activity-based data based on the interactions of all Internet participants. At the same time, Cloud technology allows students, teachers, and people from different fields to use it, which means that group work (e.g., shared management tables) can be done, allowing students to use a team technology at the same time.

During the preparation of this independent work, I gained the following knowledge and skills: In particular, I learned about the types of cloud technologies, their principles of operation, ease of use. I chose google drive as my main cloud technology and uploaded my data to this system.

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