

formation of the products of corrosion of pipelines and components of the fuel system, getting pieces of rubber gaskets and TD for the presence of small amounts of water in the fuel dramatically increases corrosion properties, and it also may lead to clogging of pipelines in the event of ice at low temperatures. Particularly dangerous is the loss of moisture and ice formation in the fuel piping systems of modern aircraft altitude which may in a short time to acquire a large height, resulting in the formation of condensate is sharply accelerated.

The fuel systems of aircraft use metal mesh, silk, slotted, metal ceramic, paper and mechanical filtering devices.

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## **THE FUTURE OF CLOUD COMPUTING**

Cloud technologies are just beginning to develop, and like a little child, taking the first steps. Today the volume of cloud computing market exceeded \$ 45 billion, and by 2020 this figure will increase to 150 billion. Cloud computing will change the future world.

The cloud is not about having a dedicated network attached storage (NAS) hardware or server in residence. Storing data on a home or office network is not considered as utilizing the cloud. (However, some NAS will let remotely access things over the Internet, and there's at least one brand from Western Digital named "My Cloud," just to keep things confusing.)

For it to be considered "cloud computing," it is needed to access data or programs over the Internet, or at the very least, have that data synced with other information over the Web. In a big business, everything is known about what's on the other side of the connection; as to an individual user, there may never have any idea what kind of massive data processing is happening on the other end.

Cloud-based applications are often used for business automation using CRM, ERP, PSA and HR-systems that are stored on remote servers. People are increasingly using cloud-based tools for document collaboration, word processing, and video conferencing. Many organizations save the most important data in the cloud storage, gradually abandoning the costly servers and backup systems. Moreover, even if the telephone systems are moving to the cloud. All of these trends only are intensified every year, and in the future, the software used will be somewhere "beyond the horizon", and the information from it will pass through several filters before you start to interact with the user's computer. For

this reason, applications built on the platform as a service, will be quite demanding for the hardware capabilities of the computer. Many require developers to include the ability to add new features, which should not affect the performance of existing programs. In this regard, the main focus of the software development process will be put into modules, through which you can set the dynamic part of the application without stopping and restarting it. As a result, cloud computing will require a new system of thinking, and software development will have to think from different angles.

Developers are busy trying to prove people that the future of cloud technologies and applications platforms and services will be made available only in the clouds. In five or seven years this question will disappear by itself, and experts will be able to concentrate on the protection of cloud technologies that are used to solve complex problems and process large amounts of information, rather than to convince people the benefits of the cloud.

Physical security of data centers is as important as strong encryption information. Due to the constantly increasing requirements for security, physical access to the data center will also be severely restricted, and to enter the protected area it is needed not only an electronic key and biometric scanning procedure. In addition, VPN technology will be upgraded to the physical security to protect data. The trend of development of VPN architecture helps to protect not only the text data, and video applications, voice information. In the next two or three years, the number of new solutions for improving security will only increase.

The Internet is developing at such a rate that has already started having problems with IP-addresses. Many businesses are still using powerful computers to process data. But soon the clouds much unload computers and provide access to data anywhere there is Internet access. This will allow companies to easily communicate with each other. And finally, cloud computing will lead to changes in the production cycle and improves links in the various components necessary to create the final product. All this will force manufacturers to produce better products at a lower price.

Eventually, the future of cloud computing is a chance for a huge technological breakthrough companies using this technology today. However, in a few years the clouds will bring the world much more usefulness than you might think right now. Very soon, the cloud will allow faster and more efficient operations than today. And along with cloud spread our life will be accelerated.

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