

# Cloud computing can develop in a relatively different direction in the next few years

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About 2 years ago, the famous technology magazine Wired published a worldwide attention article titled: 'The Cloud Computing Era Could Be Nearing Its End' (roughly: The era of computing The cloud may be about to end. In it, author Jeremy Hsu said that the issue of latency, and some other disadvantages related to storage techniques may put an end to cloud computing, while opening the era of market dominance. edge computing school.

However, the 'radical' view of the author's future of cloud computing seems unlikely, as this hosting service platform is taking relatively strong steps. According to information from LinkedIn, the world's largest business social networking site, the # 1 hard skills that most large businesses are looking for for their employees in 2019 are The ability to work flexibly with cloud computing. In an interview with CNBC last November, Daniel Zhang, CEO of China e-commerce group Alibaba, said cloud computing will not only become Alibaba's main business, but also has a far-reaching effect, to the point that every business in the future will have to rely on the cloud.



## 1. Fog Computing - What is fog computing?

In fact, almost everything in the digital world is now connected to the cloud in some way, except for locally stored data for security reasons.

The study of 'Cloud Vision 2020' by LogicMonitor team has come to the conclusion that up to 83% of the workload of businesses worldwide will be put on the cloud within about 1 year. In addition, the SmartCompany

report in 2018 also shows that cloud technology is second only to smartphones in terms of business impact over the past 5 years. It can be said that cloud services have reached beyond the scope, the needs of technology companies, which have become an important part of the business of many businesses in all different fields.

In this case, it is hard to imagine that in the future - maybe even after 5 or 10 years - almost all businesses will operate primarily in the cloud, with a strategic sense of cost effectiveness, fees, productivity and flexibility that this service platform provides.

But according to experts, the cloud foundation that we can see in the next 5 to 10 years will look quite different from what we have today, namely on 4 main aspect. So what are these aspects and how will changes take place? We will find out later.

1. Establish effective cloud security platform with 5 basic steps

## 4 key aspects of cloud change

1. User experience
2. Mobile computer service (Desktop-as-a-Service)
3. Integrate integrated applications into the cloud
4. Use the cloud as a default service

## User experience



Yes, the aspect of the first and most obvious change will of course be the user experience. One of the main reasons why Apple dominates the smart phone market is because of the user experience that its products bring so well, receiving high satisfaction from customers. Legendary CEO, who laid the foundation for the success of Apple Steve Jobs smartphone is famous for always taking special care, to the point of "obsessive" about how to make each product when shipped must bring The best user experience again. Jobs once said that the design of a product does not stop at how the product looks or how the user perceives the product, but also determines how the product works, how For comfort, maximum convenience for users. Today, the user experience continues to be the main difference in all areas and the cloud space is no exception. There is no reason for cloud services to delay change in order to provide a better user experience. Organizations, businesses (and products) that achieve

success in a crowded market with greater competitiveness will be those who can combine functionality with user experience in the optimal direction as well as more comprehensive, and take that as a competitive advantage. In the near future, we may have to pay more attention to creating a cloud platform with a simpler, minimalist design as possible. And it is this minimalism that will attract popular users, use basic smartphone applications, little technical language - in other words, those who are 'allergic' to Complex of cloud technology today. Talking about the user experience, we have seen how quickly IBM is changing itself to better the experience than other cloud service providers who are focused only. to solve the problem through efforts to improve pure functionality is not very effective. The interface and usability of the IBM Cloud cloud platform has been widely recognized at the recent 2019 Indigo Design Awards ceremony, and that is probably what we will see more in the future. .

1. Quantum computing - the future of humanity

## Mobile computer service (Desktop-as-a-Service)



We are more likely to also see the need for wider use of mobile computing services (DaaS), which describes third-party virtual desktop infrastructure operations. DaaS is a safe, cost-effective, easy-to-use solution and easy to carry - you can use this solution on a computer or any device. DaaS proved to be particularly beneficial for businesses in the context of traditional desktop management being challenged. Investing in desktop hardware can be considered a significant cost of capital, especially for large organizations and companies. And having to manage these devices every day will also spend a lot of time. More specifically, with DaaS, a business employee's personal data can be copied and copied from their virtual desktop whenever they log in or shutdown, creating a work environment. Virtual higher speed than conventional desktops, acceptable information security capabilities, less downtime, lower operating costs, and operating under an extremely large scale direct organizational model mandarin Meanwhile, access to the data will be independent of the device, location or network, making the need to work remotely can be deployed 'smoothly' and at the same time greatly reducing the possibility. error occurrence comes from humans (usually a relatively serious error). DaaS's 2018 global market report forecasts that the market for DaaS will increase from \$ 650 million in 2017 to \$ 4.67 billion by 2022, and given the current situation, This is workable.

1. Google and many other large technology companies are quietly deploying projects that can change the internet world

## Integrate integrated applications into the cloud



In theory, everything can run on the cloud, but running multiple cloud platforms at the same time can pose major challenges, such as how to ensure compliance with data regulations. . That's why Service-type software (Software-as-a-Service - SaaS) appears. SaaS is a distribution model for software, whereby instead of downloading software to run locally on a personal PC, the program or application will be stored by a third-party provider and then retrieved. Accessed by users via internet connection and displayed based on web browser interface. SaaS applications are also known as web-based software, on-demand software and hosted software.

Slack - the fastest-growing SaaS company on the planet - once showed how well the Service-Type Software (SaaS) model works, and the success of this initiative is reflected in the conversion rate from trial to paid to account for 30%. Basically, Slack integrates with various applications such as Trello, Giphy and Simple Poll into the same platform so that users can access all these useful applications from a single platform when needed, Extremely convenient as well as saving time. This will be something we will definitely see appearing more and more popular in cloud computing as service providers pay more attention to helping businesses and individual customers experience it. Many different applications and utilities on their platform more easily.

According to Gartner estimates, SaaS sales in 2018 have increased by 23% compared to 2017, to 72 billion USD, and this trend will certainly be maintained in the next few years.

1. [Infographic] The way to become a "power" user of Google Drive

## Use the cloud as a default service

In the context of more and more data being put on the cloud, more and more activities are happening in the cloud, the term 'cloud' may disappear completely (and companies use it from The 'cloud' in the name may need to rethink your brand. What we call cloud computing (cloud computing) can now be changed, simply 'computing' as usual. And perhaps, more broadly, the term 'as-a-Service' will also disappear, when SaaS replaces almost entirely with traditional software.



## 1. Learn about Public Cloud, Private Cloud and Hybrid Cloud

This is because future cloud services can be so widely used that they are considered a default service to be available. In technology, you can never be sure of anything that belongs to the future. Everything can change quickly and in unexpected ways, and some of the changes we have seen in the past 10 years have been considered utopian, but in fact they have taken place, and rather changing the way of interacting and operating the technology world. In this case, however, we can make predictions with 'high trust' that cloud computing not only exists as a pure internet service, but is also set up to make it appear. Its presence is known in ways that have a more pronounced impact than ever before in modern life. And it's an interesting prospect not only for organizations and individuals in the technology sector, but for everyone.

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