Myth or truth?
Fact checking about the public cloud...
The public cloud is becoming increasingly popular. For IT decision-makers, the main arguments in its favor are faster scalability of IT resources, mobile access to them, higher performance and more flexibility. At the same time, companies also expect using the public cloud to mean lower IT costs and less administrative work.

Yes, it’s true: Public clouds are a cost-effective solution for IT infrastructure, but this is only true under certain circumstances. For example, hyperscalers such as Amazon, Microsoft or Google advertise that users only have to pay for what they actually use, in other words: “pay as you go.” This payment model is also very attractive for training systems, for example, or other capacity expansions that are only needed in the short-term. For SAP applications that are in use 24/7, however, the situation is quite different. In this case, the public cloud can quickly result in spiraling costs. After all no one would think of booking a taxi to use permanently. It only makes sense for short trips. For 24/7 workloads, so-called “reserved resources” are, therefore, often the more cost-efficient solution.

But a shadow IT with hidden, sometimes unused, applications that have been transferred to the public cloud without a second thought can also drive up costs. Therefore, a transparent, individual calculation is essential to determine what is really the most cost-effective solution for the respective workload. This should always be calculated based on the expected uptime. A combination of different cloud solutions, i. e. a multi-cloud, may turn out to be the best solution in this specific case. This is where cost-optimizer tools can come in handy.

**Fact No. 1:**

The public cloud is always the cheapest option.

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Yes, the public cloud management console and API are easy to operate via the Internet. This means that many functions can be administered via normal Internet connection. But you can’t simply access the public cloud from the corporate network because a public cloud is actually like your own data center. And there are good reasons why the virtual machines are not easily accessible via the Internet: firewalls, encryption and a de-militarized zone (DMZ), for example, are essential to protect the virtual machines in the public cloud. As a result, virtual machines are typically only used with a private IP address.

In addition, the public cloud VPC must be connected to the corporate network so that the cloud services provided can be smoothly integrated into the IT landscape. Most company networks only open the ports http and https, and the remaining data traffic is blocked and is not allowed to leave the network. To access services hosted in a public cloud, a trusted network connection must therefore be established. This can be an Internet VPN or another dedicated network connection.

Unfortunately, there is no ready-to-use solution for integrating the public cloud into the company network. Every user therefore must consider: Where is the public cloud I want to use? And how do I integrate it securely into my network? That also requires expertise. After all, a public cloud is only secure if it has been securely configured. Otherwise, unwanted security gaps could open the floodgates to hackers.
Conclusion

In short, the public cloud should not be approached with too much naivety; it is not a sure-fire success either. If you pay attention to a few things and set them up properly with the help of experts, then a public cloud – possibly in combination with other cloud models – can still offer a number of advantages.

About Hansjörg Groß

Since 1999 Hansjörg Groß has worked in different positions within T-Systems International GmbH and since 2006 he is engaged in development of highly automated cloud solutions for SAP®. After being a manager for operation of database and web-based applications in the non-SAP area, Hansjörg Groß took over management responsibility for the development of highly automated SAP® solutions on private cloud infrastructure. Since March 2015, in his current role of an architect, his focus is on development highly automated SAP® solutions for multi-cloud and hybrid cloud solutions with a strong focus on the currently leading hyper-scalers, Microsoft Azure, Amazon WEB Services and Google Cloud Platform.

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