With focus on usability

firstkube brings order to complex IT architectures

Companies worldwide currently use a multitude of microservices for their IT infrastructure. An increasing number of processes use these complex applications as a foundation - but they often run on different clusters or hosts. In order to maintain an overview of such complex IT constructs, microservices can be brought together in so-called containers, which subsequently ensure a structured organisation. "Container orchestration is one of the fastest growing trends in the IT industry," states Jerome Evans, founder and CEO of firstcolo and diva-e Datacenters GmbH. His thesis is backed up by an analysis conducted by the market research institute Gartner, which predicts that by 2024 an estimated 75 percent of large companies will be using container orchestration - with the trend continuing to rise.[1]

Progress made simple

Kubernetes is now the most widely used container solution, which has become indispensable in a number of companies. "Many entrepreneurs are following the ever-advancing Containerisation of the IT layer by these large providers, however, this is followed by the desire for a simpler implementation," says the expert. Around 56 percent of people surveyed in a representative survey by the market research institute CCS prefer a complete container integration through a third-party provider or an ensemble of providers and their own in-house expertise due to the complexity of this type of IT architecture. Taking this as a model and putting the focus on the end user, cloud service providers - including firstcolo - offer solutions that significantly simplify the handling of open source systems such as firstkube. As a result, users no longer need to have extensive expertise in order to be able to manage containers. "This is made possible by a user-friendly interface and professional advice provided by an expert," notes Evans.

Minimise risks

Security breaches can cost corporate IT dearly - a matter that should not be neglected in consideration of rising cyber criminality. "The quality of a container implementation determines stability and security - starting with the authentication configuration and going all

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[1] https://rafay.co/the-kubernetes-current/gartner-releases-first-worldwide-container-management-software-and-services-forecast/

the way to avoiding highly vulnerable applications that are a security risk on the cluster," explains Evans. Especially the use of containers on a hybrid cloud environment, a common application in companies, creates major challenges for the security concept. This is where containerisation with the help of open source programmes provides a solution. "With Kubernetes, applications can be accessed simultaneously on several clouds, which in turn enables independent work. In the event of downtime, the resources as well as the traffic remain intact as they are taken over by the nearest cloud," explains the expert. This abstract structure makes it possible to set up a secure cloud environment that can be easily operated by any user - with or without extensive prior knowledge - thanks to software such as firstkube.

Further information about diva-e Datacenters GmbH can be found under first-colo.net.

firstcolo

As an operator of data centres in Germany, firstcolo, based in Frankfurt am Main, provides its customers with the highest level of service quality. In addition to classic colocation and the rental of server systems, firstcolo's range of services also includes storage-on-demand solutions, backup solutions and cloud services. firstcolo is part of the diva-e Group, which, as the leading transactional experience partner in Germany, has over 20 years of industry expertise in the digital world. Around 800 diva-e Group employees in 13 offices in 8 different locations take care of the needs of the wide-ranging customer base, which includes a large pool of industries from technology, retail and healthcare. In addition to large and well-known companies such as FC Bayern Munich, Siemens, Mister Spex, Audi or Sky, many other renowned customers are among them.