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Kubernetes

Google Kubernetes Engine GKE

What is Kubernetes?

Kubernetes is an open-source container orchestration platform that automates the deployment, scaling, and management of containerized applications.

What are containers, and why are they important for Kubernetes?

Containers are a lightweight, portable way to package and run applications. They provide a consistent environment for applications to run in, and can be easily moved between different environments. Kubernetes is designed to manage and orchestrate containers at scale, making it easier to deploy and manage large, complex applications.

What are some key features of Kubernetes?

Kubernetes has a number of features that make it popular among developers and DevOps teams, including automatic scaling, load balancing, rolling updates, self-healing, and multi-cloud support.

How does Kubernetes compare to other container orchestration platforms?

Kubernetes is the most popular container orchestration platform, and is widely considered to be the most mature and feature-rich option. Other popular container orchestration platforms include Docker Swarm and Apache Mesos.

What kind of projects is Kubernetes well-suited for?

Kubernetes is well-suited for projects that involve large, complex applications with many moving parts. It's also ideal for projects that require high availability, scalability, and resilience.

What resources are available for learning Kubernetes?

There are a number of resources available for learning Kubernetes, including the official Kubernetes documentation, online tutorials, video courses, and books. The Kubernetes community is also active and supportive, and there are a number of forums and chat groups where developers can get help and advice.

Is Kubernetes difficult to learn?

While Kubernetes can be challenging to learn for beginners, it's generally considered to be the most user-friendly container orchestration platform available. With a bit of effort and dedication, most developers should be able to learn Kubernetes and start deploying and managing their own containerized applications.

*Snippet from [Wikipedia](): **Kubernetes***

> **Kubernetes** (, commonly abbreviated **K8s**) is an open-source container orchestration system for automating software deployment, scaling, and management. Originally designed by Google, the project is now maintained by a worldwide community of contributors, and the trademark is held by the Cloud Native Computing Foundation.
>
> The name *Kubernetes* originates from Ancient Greek, meaning 'helmsman' or 'pilot'. *Kubernetes* is often abbreviated as *K8s*, counting the eight letters between the *K* and the *s* (a numeronym).
>
> Kubernetes assembles one or more computers, either virtual machines or bare metal, into a cluster which can run workloads in containers. It works with various container runtimes, such as containerd and CRI-O. Its suitability for running and managing workloads of all sizes and styles has led to its widespread adoption in clouds and data centers. There are multiple distributions of this platform – from independent software vendors (ISVs) as well as hosted-on-cloud offerings from all the major public cloud vendors.

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GitHub Topics

- [https://github.com/topics/kubernetes]()

Kubernetes (commonly referred to as "K8s") is an open source system for automating deployment, scaling and management of containerized applications originally designed by Google and donated to the Cloud Native Computing Foundation. It aims to provide a "platform for automating deployment, scaling, and operations of application containers across clusters of hosts". It supports a range of container tools, including Docker.

Related:

- [Google Cloud]()

External links:

- [https://en.wikipedia.org/wiki/Google_Cloud_Platform]()

tool, maintenance, devopspackaging, devopsmonitor

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