KUBERNETES & OPENSHIFT

THE NOBLE ART OF ORCHESTRATION
CLOUD AND CONTAINERIZATION TECHNOLOGY

The open-source system, Kubernetes, is responsible for automating the deployment, scaling and management of container applications on distributed hosts. Kubernetes impresses with its flexibility and high degree of automation for container management. This is an enormous advantage for development and production environments with differing network, CPU and memory requirements. The platform allocates which container runs on which server based on available resources.

ADVANTAGES OF KUBERNETES

· Coverage of zero-downtime deployments
· Automatic and horizontal scaling assure high availability of applications
· Deployments are rolled out identically and in a straightforward way, even in heterogeneous environments, meaning the team can focus entirely on the software development process
· Excellent base for the redundant use of resources

Furthermore, basing your solution on managed Kubernetes solutions like Google Kubernetes Engine (GKE) negates the need to install, manage and update the cluster.

OPENSHIFT: PLATFORM AS A SERVICE (PaaS) BY RED HAT

OpenShift is based on Kubernetes and impresses with advantages in the area of security policies, isolation of applications, managing incoming network traffic and manifold deployment methods.

AERIS EXPERTISE – APPLICATIONS & ARCHITECTURES

· Hosting of distributed IoT platforms
· Hosting of automatically scalable eCommerce websites
· Automatic disposable infrastructure for load-test and batch processing

WHY KUBERNETES IS SO VALUABLE TO AERIS' CLIENTS

· Holistic support from concept to the implementation phase of a DevOps strategy
· Adaptations of source code in legacy projects to use Kubernetes or OpenShift
· Knowledge transfer to the development and operation teams of our clients

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