adesso

Kubernetes Enablement

description_

Portable, scalable, cloud-native, and open-source; Kubernetes (aka K8s) is the container orchestration platform of the future for software development and service at scale. Developed by Google and now adopted in multinational projects all over the world, Kubernetes is a powerhouse for managing containerized workloads of your systems.

We value staying ahead of the competition and implementing best practices at adesso. We achieve this through global and exclusive tech solution insights gained via the adesso Technology Radar, which contains over 200 assessments for methods, techniques, tools, platforms, languages, and frameworks. Combining this state-of-the-art know-how with our 5+ years of global experience in cloud, on-prem and hybrid Kubernetes operations on live systems shows us that the rapidly growing ecosystem of Kubernetes is ahead of its competitors with advanced features for running next generation containerized workloads.

Our approach to Kubernetes is vendor-independent and tailor-made. So, whether you adopt "Vanilla Kubernetes" or a managed Kubernetes service such as GKE, EKS, AKS, or Red Hat, your Kubernetes enablement experience will still be top-level.

With our Kubernetes Enablement consultancy service, a K8s infrastructure will be integrated into your on-premise, cloud, or hybrid environments to achieve a stable, self-healing, and secure microservice system. The Kubernetes services, support, and tools, such as automated rollouts and rollbacks, resource isolation, and utilization, will give you tsmart load balancing, better storage orchestration, and faster deployment times. This will improve the overall service, product, and system health of your business applications, thanks to better-managed workloads. We also share know-how and support the sustainability of your Kubernetes infrastructure with on-the-job training.

Service Metrics

Effort   : 15-30 Person/Day
Duration   : 4-8 Weeks
Team structure: 1 DevOps Engineer | 1 Cloud Engineer

Tooling

Kubernetes   Helm   CI/CD Tool

motivations_

▸ A microservice transformation decision in place without relevant Kubernetes know-how within the organization

▸ Challenges in the selection of correct Kubernetes distro and version both on cloud and on-prem environments

▸ FOMO trap/incomplete Kubernetes transformation project in place

▸ Misalignment between the developer and operations teams

prerequisites_

▸ Basic Kubernetes know-how

▸ Ongoing microservice transformation project (Container-ready workload)

▸ Collaboration with the customer DevOps/Operations team

deliverables_

▸ Evaluation and selection of Kubernetes distro (SuSe Rancher, RedHat Openshift, VMWare Tanzu, Nutanix Karbon, HP Ezmeral, Vanilla Kubernetes, KubeSphere etc.)

▸ Cloud-managed Kubernetes selection: Azure AKS, AWS EKS, Google GKE

▸ Spin up highly available, cloud-native, and cloud-ready container orchestration platform

▸ MVP Kubernetes enablement for a sample microservice application

▸ On-the-job training for DevOps/Operations teams

▸ Future roadmap for further microservice enablement

references_

▸ Mercedes-Benz

▸ Pudo

▸ PepsiCo

▸ UPT

contacts_

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