

# APPLICATION MIGRATION TO AZURE KUBERNETES SERVICE

2-week workshop & consulting



## Workshop agenda

### 1. Kubernetes architecture

- ▶ elements and their role
- ▶ API server and custom resources
- ▶ cluster deployment patterns and basic deployment using kubeadm using Azure Kubernetes Service

### 2: Application deployment

- ▶ working with pods and deployments
- ▶ scheduling
- ▶ other controllers: DaemonSet, Job, CronJob
- ▶ autoscaling with HorizontalPodAutoscaler

### 3: Networking in Kubernetes

- ▶ network plugins
- ▶ service abstraction
- ▶ exposing a service
- ▶ ingress controllers

### 4: Storage patterns

- ▶ stateful workloads in Kubernetes
- ▶ pv vs. pvc
- ▶ StatefulSets
- ▶ storage classes and most common storage controllers

### 5: Security basics

- ▶ public key infrastructure
- ▶ RBAC in Kubernetes
- ▶ API access
- ▶ Network Security Policies

### 6: Helm package management

- ▶ using Helm charts
- ▶ creating Helm charts

### 7: Operator pattern

- ▶ controllers and operators
- ▶ custom resources
- ▶ operator demos

## Kubernetes-ready with adesso

Kubernetes is an open-source container-orchestration system for automating computer application deployment, scaling, and management which has become the de-facto container-orchestration tool, opening the way for enterprises to start building solutions on it.

Azure Kubernetes Service (AKS) offers experience, and enterprise-grade security and governance. Organizations are able to unite development and operations teams on a single platform to rapidly build, deliver, and scale applications with confidence.

#### Week 1:

5-day Kubernetes workshop with instructor presentation, instructor-led demos, and Q&A on the basics of Kubernetes. Architects, software engineers and operators will acquire knowledge that can be used in practice.

#### Week 2:

Allocated to discuss organization-specific use cases for application migration. Possible candidates will be selected, and migration plans will be created in an application specific manner.

## Business Advantages



Portable



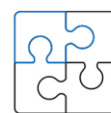
Increased productivity



Multi-cloud



Battle-tested



Open source



Market leader

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