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# 1-day workshop: Introduction to Kubernetes and AKS

## Offer description

This 1-day virtual workshop is a technical introduction to Kubernetes and
AKS (Azure Kubernetes Service).

The workshop is suitable for cloud specialists and people in technical roles (eg software architects).
Workshop topics include introduction to Kubernetes and
AKS and the basic concepts, the benefits of using these services and when is the right time to
start using AKS. Real-life examples of use cases will also be presented by instructors.

After this course there is an option to organize a separate hands-
on classroom training to delve deeper into the aspects of building solutions with AKS.
Please contact us to discuss this option further.

## Course requirements

- Basic knowledge about containerised services
- Fundamentals of Azure
- Basic knowledge of networks
- Preferred group size 5-20

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## What is Kubernetes and AKS

- AKS is a way to use Kubernetes in Azure
- Basic concepts and building blocks of AKS service
  - o Resource types
    - o Ingresses
    - o Pods
    - o Services
    - o Secrets
    - o Volumes
    - o Stateful sets
- Integration with CI/CD

## Why to use AKS

- AKS vs. self-hosted Kubernetes
- How AKS compares with other cloud orchestration systems
- Different platforms for running containerised app in Azure
- Cost savings
- Pros and cons

## When to use AKS

- Real world case studies
- For containerised stateless services
- Scale of the project
- Lifecycle of the service
- Maintenance and continuous delivery