

CLOUD NATIVE WITH AZURE KUBERNETES POC (10 DAY)



CHANGE THE GAME

Today “Cloud Native” is a term that is used quite often. But what is meant with Cloud Native and where is the value to make the transition?

To demystify the questions, we need to think about cloud concept where software is built as a distributed set of small, independent self-contained services that implement a specific component of an overall cloud solution. The code is independent of the cloud platform and services where its runs on. This opens opportunities for cloud development to “change the game” in building cloud solutions.

The Cloud Native Computer Foundation (CNCf) defines cloud native as:

Cloud native technologies empower organizations to build and run scalable applications in modern, dynamic environments such as public, private, and hybrid clouds. Containers, service meshes, microservices, immutable infrastructure, and declarative APIs exemplify this approach.

Besides the technical impact, there is a need to accelerate business velocity and growth. We live in a world where almost anything is possible using cloud services. The business can directly interact with cloud as a service. Defining the ambition to transform to cloud native solutions is providing answers to the architecture, operational and automation needs. Standardization, ‘cloud-native’ development and a common iterative project approach established within the organization are key pillars.



Business systems are evolving from enabling business capabilities to being a strategic transformation that accelerates business velocity and growth.

Hence, they are in search of speed, agility and scalability.

Netflix and Uber are companies serving as great examples. Both have 500+ services in productions and deploy hundred times per day.

Key to understand is, most of us are not Netflix or Uber. And Speed, scalability and agility are products of simplification and standardization in technologies and methodologies used within the organization.

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PROOF-OF-CONCEPT ACTIVITIES

CLOUD NATIVE APPLICATIONS WORKSHOPS DURATION: 2-DAY

The goal of these workshops is to engage with you in these specific topics surrounding Cloud Native application app transition, development and implementation. Secondly identify which use cases are valuable for you and translate these to a Proof-of-Concept statement of work.

DISCOVERY WORKSHOP CLOUD NATIVE

- Understanding Kubernetes, cloud-native apps and supporting Azure technologies.
- Whiteboard session on mapping migration strategies and common obstacles to avoid.

SCOPING WORKSHOP FOR POC APPLICATIONS

- Identify web applications for migration to cloud-native.
- Workshop, follow-up & planning activities for POC.

CLOUD NATIVE POC IMPLEMENTATION: 8-DAY

BUILD ACTIVITIES

- Azure governance and connectivity: Enabling basic governance and connectivity.
- Azure Kubernetes: Deploy Azure Kubernetes and integrate with other Azure services like Azure Container registry, Azure monitor and Azure Policy/Security Center.
- Kubernetes internals: Examine Kubernetes components to orchestrate workloads across distributed infrastructure.
- Migrate the identified web applications to containerized applications running on AKS.

DELIVERABLES

- Technical documentation of the implemented environment.
- Your application roadmap: define next steps, based on POC outcomes.
- Proof-of-Concept wrap-up and handover.

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