AVASOFT
SHAPING NEXT GEN

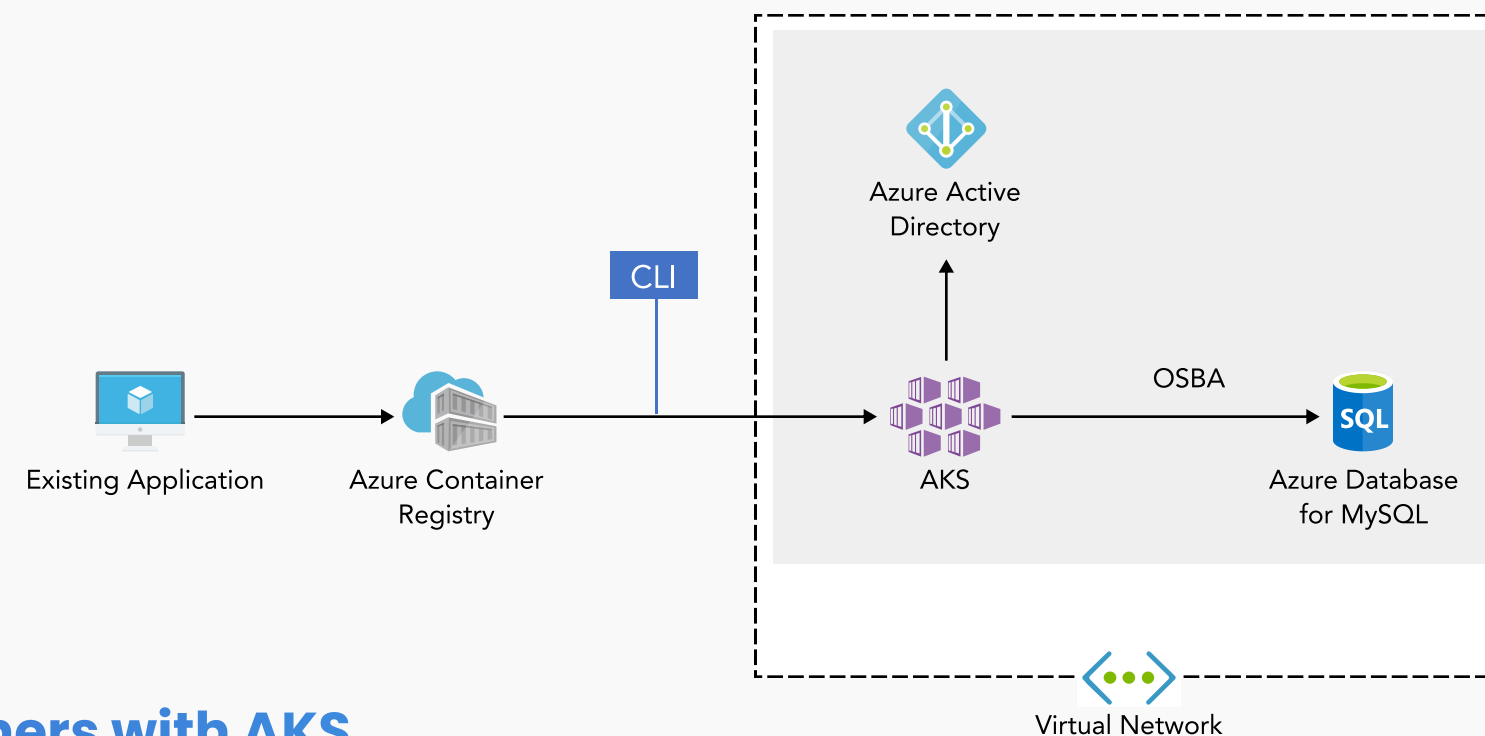# Azure Kubernetes Service 'AKS'
3 Weeks Assessment

Operating costs in administration, resistance to change, and the absence of automation hinder application development. This is where containers intervene to assist in transferring software and their components between diverse landscapes, while Kubernetes successfully coordinates containerization.

But there's still one more component to the puzzle that's commonly unaccounted - **Azure Kubernetes Service (AKS).**

It is the most effective solution to automate and optimize Kubernetes, allowing you to grow your application development with certainty and flexibility.

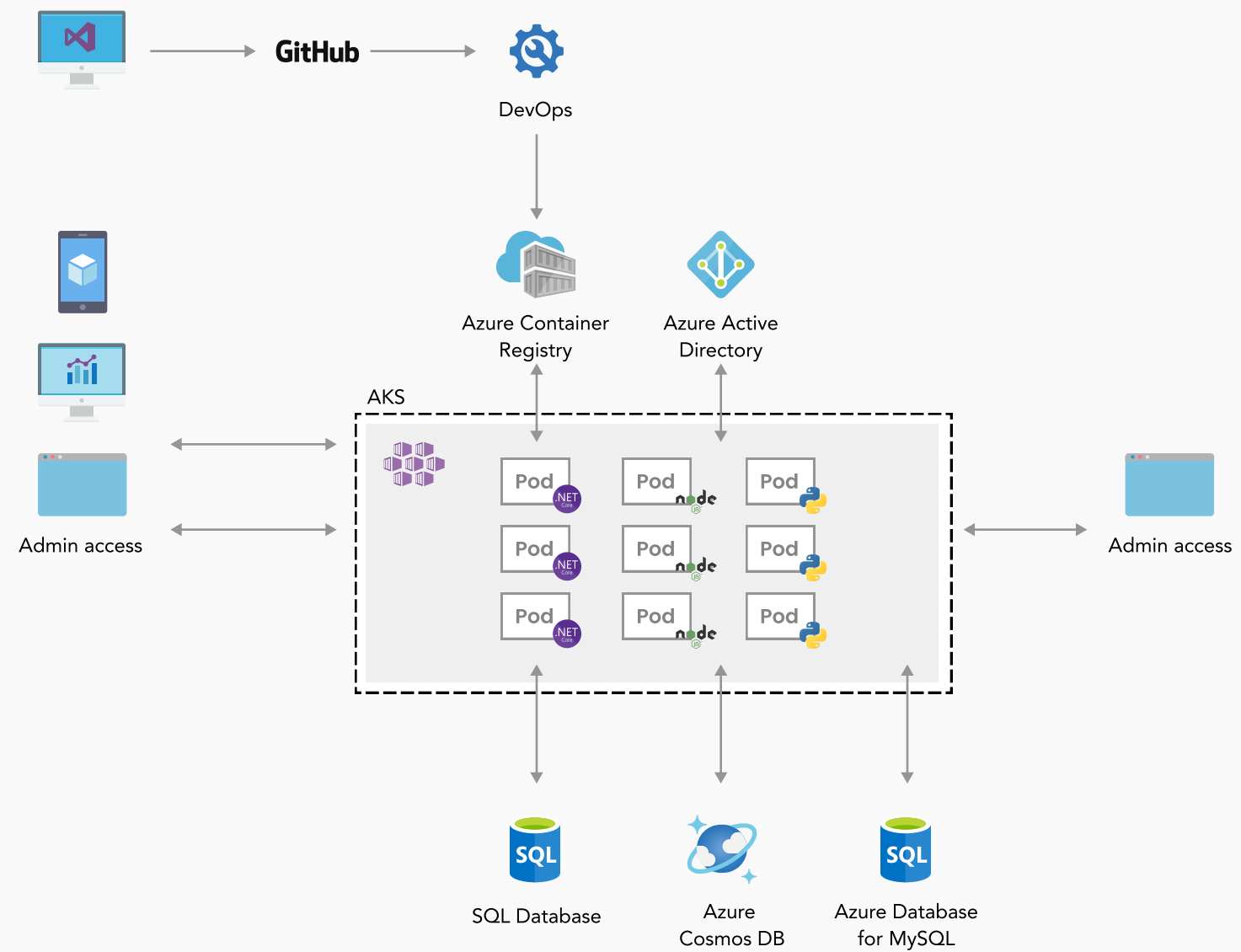**Let Avasoft step in to make the assessment of AKS precise for your enterprise.**

Lift and shift to containers with AKS

Easily migrate existing applications to containers and run them in a fully managed Kubernetes service with AKS.

We have assisted numerous clients in moving massive production installations in a simplified and cost-effective way utilizing **Microsoft's Azure Kubernetes Service.** Our highly skilled cloud-native professionals will assess your present mechanisms and workload. They will establish a judicious framework for resolving hurdles and effectively implementing a production-grade cloud native application in your business.

Analysis	Outcomes	Value Proposition
Evaluation of Infrastructure • Anatomy of a network • Element segregation • Strategies for harmonizing loads	Report summary, including results, interpretation, and suggestions	Fulfill client needs with higher reliability, efficiency, and scalability
Analysis of Apps & Landscape • Kubernetes workflows • Lifecycle maintenance	Document outlining the present and foreseeable phases of infrastructure	Faster time-to-market as a result of rapid app deployment and mobility
Assessment of security and oversight • Kubernetes workflows • Lifecycle maintenance	Policies implemented to the cluster	Lifecycle maintenance strategies
Performance and alerts	Document outlining potential vulnerabilities and promising fixes	Potential savings from efficient computation asset use

GitHub

DevOps

Azure Container Registry

Azure Active Directory

AKS

Pod .NET
Pod node
Pod python

Pod .NET
Pod node
Pod python

Pod .NET
Pod node
Pod python

Admin access

Admin access

SQL Database

Azure Cosmos DB

Azure Database for MySQL

Microservices with AKS

Use AKS to simplify the deployment and management of microservices based architecture. AKS streamlines horizontal scaling, self-healing, load balancing, secret management.

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Assessment of Key Criteria:

Determine

- Analyze your present business problems and the current situation of application(s), including present and foreseeable conditions and their requirements.
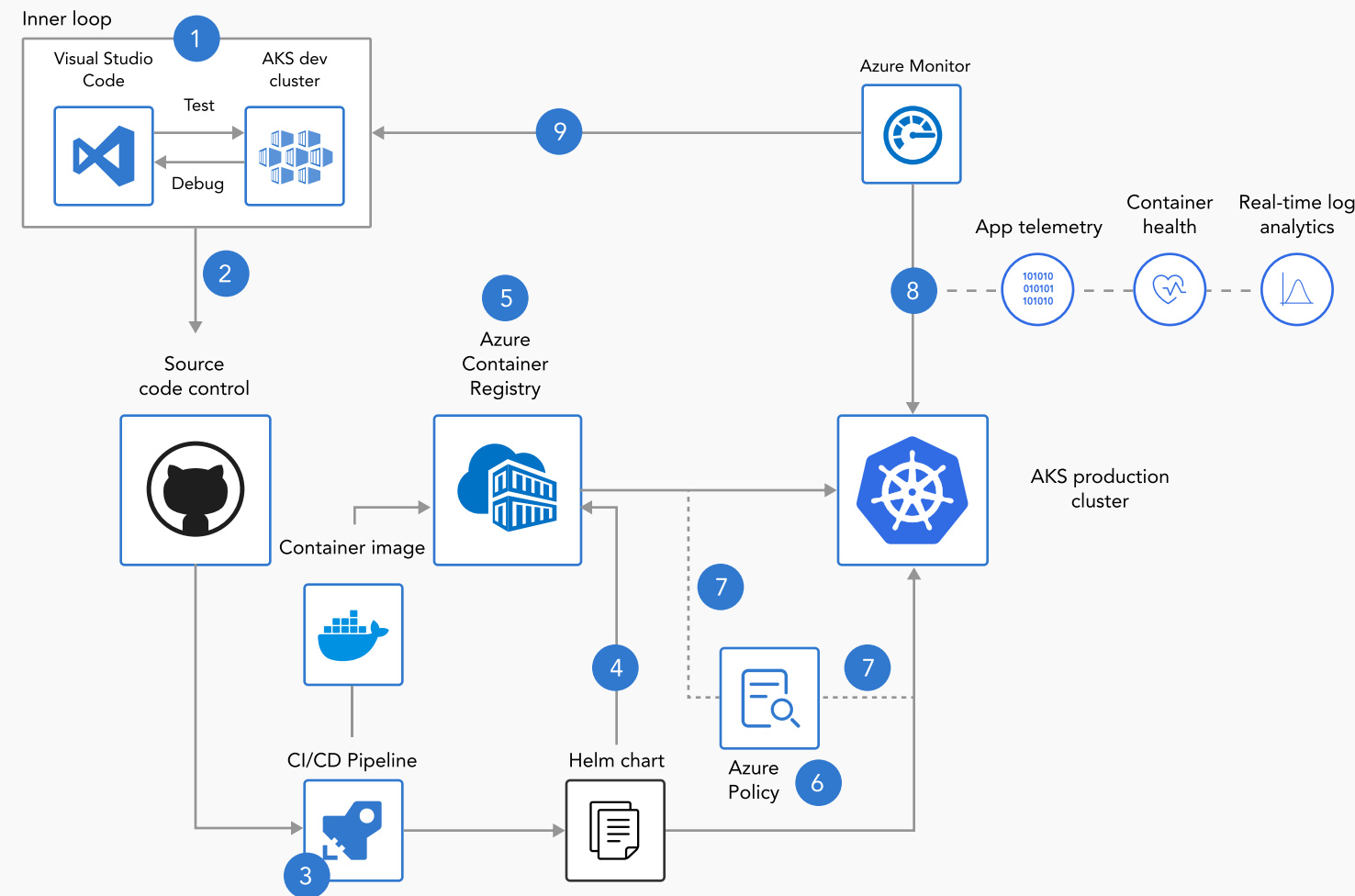
Evaluate

- The scale and outcomes necessary for developing a project timetable, as well as the assets necessitated to accomplish the evaluation.

Classify

- Determine which applications must be updated.

- Coordinate with internal stakeholders to gather data on the specified application, assess the existing condition, and describe the intended state.

Construct a Framework

- Provide a strategy for application modernization that includes explicit goals, software base needs, and expected timescales.

- Implement the migration roadmap and demonstrate how AKS may be enhanced for price and vulnerability protection.

Inner loop

Visual Studio Code — 1 — AKS dev cluster

Test
Debug

Azure Monitor

9

App telemetry | Container health | Real-time log analytics

8

2

Source code control

5
Azure Container Registry

AKS production cluster

Container image

CI/CD Pipeline

3

Helm chart

4

Azure Policy

7

7

6

Secure DevOps for AKS

Kubernetes and DevOps are better together. Achieve the balance between speed and security and deliver code faster at scale by implementing secure DevOps with Kubernetes on Azure.

As a leading company in merging enterprises with reimagined, modern solutions, we will go through the tailored service package in stages, building on cloud native application demands and optimizing the orchestrating skills of Kubernetes in operation.

To know more contact

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