ZiTEC
MAKE IT SOFTWARE

Application Lifecycle Management on K8s and Azure

MAKE IT SOFTWARE

“Our mission is to shape and employ technology so it inspires and empowers people and organizations to achieve their utmost potential.”

18

years of experience delivering technology projects

250+

people strong - software dev, DevOps & cloud, digital transformation

Versatile

Experience across multiple industries - financial services, retail, construction & others

Global

Global reach - customers across 15 countries (EU, RO, UK, US)

74

Our Net Promoter Score (**NPS**) for 2020

10+

years working with **Microsoft Azure**, first Azure partner in Romania

Our value proposition

ZiTEC

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Customer alignment

The Zitec team acts as an **autonomous extension** of the customer's teams, pursuing the same business goals. We are not just a supplier, but a **trustworthy**, ethical and **proficient digital transformation partner**.

Automation & Agility

We live and breathe automation: from infrastructure-as-code to automated config management and code deploys. And everything is swiftly orchestrated through our **continuous integration** framework

Rigorous practices

We invest a substantial percentage of revenue in people (**scrupulous recruitment** & **extensive training**), as well as **technology R&D** and **product development processes**.

Azure Qualifications

Individual certifications

Microsoft CERTIFIED
AZURE DEVOPS ENGINEER
EXPERT ★★★

Microsoft CERTIFIED
AZURE SOLUTIONS ARCHITECT
EXPERT ★★★

Microsoft CERTIFIED
AZURE SECURITY ENGINEER
ASSOCIATE ★★

Microsoft CERTIFIED
AZURE ADMINISTRATOR
ASSOCIATE ★★

Microsoft CERTIFIED
AZURE DEVELOPER
ASSOCIATE ★★

Company competencies

ZiTEC

Microsoft Partner

Microsoft

Gold Application Development
Gold Cloud Platform
Gold Data Analytics
Linux and Open Source Databases
Migration to Microsoft Azure
Advanced Specialization

Cloud services

Cloud Adoption Services

Assessment, budgeting & right-sizing, architecture planning, cloud migration.

These services are aligned with Microsoft's **Cloud Adoption Framework**.

Managed Services

Infrastructure management, cost optimizations, infrastructure automation, security services

Transactional Services

Indirect CSP reseller, differentiated by high quality of support delivered

Areas of excellence

Open Source
Tech Migration

15+ years of experience with Linux, PHP, MySQL. Also proficient in Python, Node.js, PostgreSQL.

Containerization &
Kubernetes

Containerization of OSS & .NET Core workloads, as well as configuration and end-to-end management of Kubernetes clusters.

DevOps &
Automation

Infrastructure-as-code (Terraform / ARM), config management, build & test pipelines, code deployment.

Application
Modernization

Containerization of legacy apps, IaaS to PaaS migration, transition from .NET to .NET Core,

Containerization & Kubernetes

Service summary

Business scenarios

- Ensure portability of applications between different platforms and clouds
- Improve application development and deployment time
- Reduce application deployment and management costs
- Improve application security

+

Technical scenarios

- Containerize new or existing PHP, .NET Core, Python or Node.JS applications to containers and run within Azure (AKS)
- Create a Kubernetes cluster to be used by the entire organization for containerized workloads
- Implement microservices starting with their architecture and moving on to their deployment on Azure Kubernetes Service (AKS) or Azure Functions

+

Benefits

- Tangible cost reductions through higher utilization of compute resources
- Improved software quality - faster development speed, fewer bugs across environments, reduced testing time
- Reduced vulnerabilities and attack surfaces by isolating applications from the host system and from each other

While containerization & Kubernetes offer unparalleled application portability and scalability, the process of adoption these technologies is prohibitively complex for most organizations.

Application Lifecycle Management

Containerization and all the tools around it, allows developers to push new software releases per week, month, or every day per hour, minute, or in real-time.

Too many commits to the repository originating from multiple sources may break the codebase and trigger an unexpected user response. An uninterrupted application lifecycle management requires containerization and DevOps automation tools like CI and CD to work together. A Continuous Integration tool can automate that. Manually integrating CI with each Docker container to deploy it can take an eternity.

Kubernetes expects multiple deployments for each container and switches between these deployments by upscaling or downscaling each container.

App Lifecycle management in the context of IT routines, roughly refers to Day 0, Day 1 and Day 2.

Application Lifecycle Management

Day 0 – this is the “Design” phase, where you determine what you are deploying and where you need to answer critical questions about which Kubernetes platform you’ll be using as well as the environment it will exist on. You might even be considering the specifics of a particular application if the cluster is targeted at a very specific use case.

Day 1 – After all the plans are set in place, deployment is the next stage to tackle. The key things to focus on are:

- being clear on the roadmap strategy and ensure that the deployment is done in a manner that can be kept consistent no matter how the strategy evolves
- setting up cloud accounts and settings
- operationally, consistency and familiarity of the methodology that can span different environments
- make sure you have systems in place that control spend

Day 2 – There are lots of cases where companies focus on Day 0 and Day 1, but don’t manage to afford enough time to think through Day 2 issues. This is all about how do you maintain your infrastructure? Onboard new users? Ensure health of applications?

We **designed** a system from ground up to help companies through each stage which provides an easy way to **design**, **deploy** and **operate** whole K8s stacks, while the system overall is designed with **enterprise** in mind.

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Let’s start this journey together!