

# APPLICATION MIGRATION USING MICROSERVICES ARCHITECTURE

## 2-day workshop & consulting



### Workshop agenda

- ▶ Structural elements of a microservice architecture
- ▶ Differences between monoliths, SOA and microservices
- ▶ Basic design pattern of microservices and API strategies
- ▶ Possible integration method between service components
- ▶ How to break up a monolith into microservices
- ▶ How to create distributed transactions in a microservices environment
- ▶ How to implement continuous integration and delivery (CI/CD) for microservices
- ▶ How to test and monitor a microservice architecture
- ▶ Basics of security when working with microservices
- ▶ How to scale a microservice architecture

### Going big by getting smaller Migration to microservices

Microservices - also known as the microservice architecture - is an architectural style that structures an application as a collection of services that are:

- 1) highly maintainable and testable
- 2) loosely coupled
- 3) independently deployable
- 4) organized around business capabilities and
- 5) typically owned by a small team.

The microservice architecture enables rapid, frequent, and reliable delivery of large and complex applications. It also enables an organization to evolve its technology stack.

If your organization is having trouble building and scaling a product organized as a monolithic architecture, this will be a great opportunity to get your team familiarized with the microservices, related technologies and methodologies and implementation in Microsoft Azure.

The first three days includes time for instructor presentation, instructor-led demos, and Q&A. After that, two days are allocated to discuss possible candidates for microservice migration and creating a migration plan.

### Business Advantages

There are numerous advantages of using microservices:

- ▶ enables the continuous delivery and deployment of large, complex applications,
- ▶ can scale horizontally without limit,
- ▶ has very short build, test and release cycles,
- ▶ its individual service parts can be written in different programming languages,
- ▶ enables to integrate novel features easier.

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