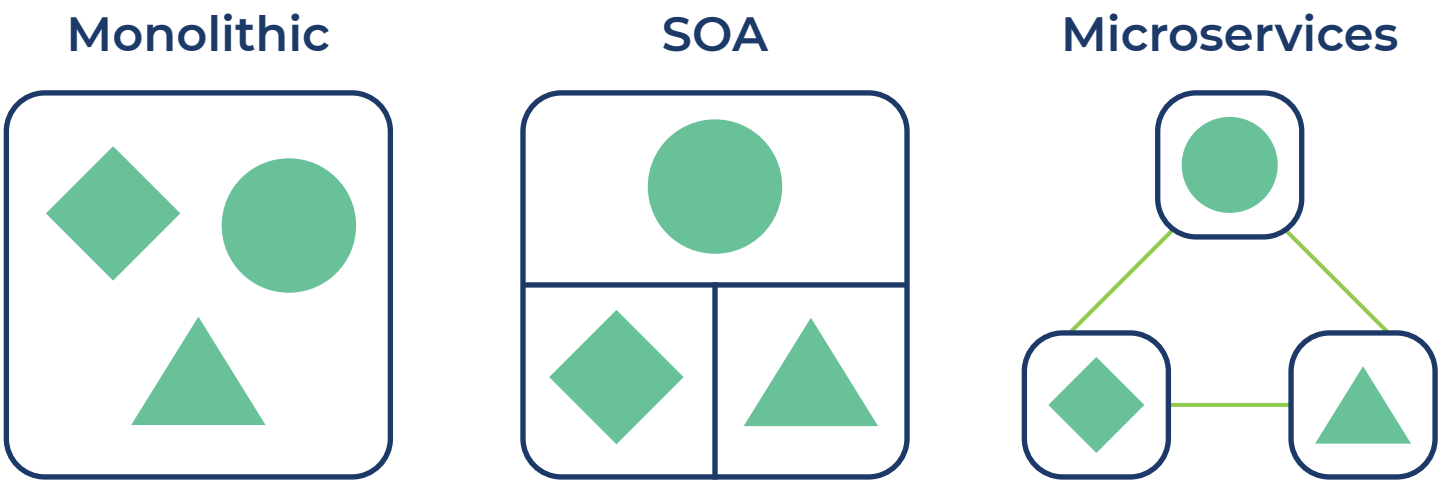
Make Migration to **Microservices Meaningful**

wavemaker

In time, the way systems, devices, interfaces, APIs, frameworks, channels and people communicate has progressed. Reflecting the change in social structures and work culture, the software interfaces structure has also changed.

Enterprise architecture has evolved from monolithic models to service-oriented architecture and is progressively moving towards microservices.

Evolution of **Enterprise Architecture**



The Essence of Microservices

Essence of Microservices Architecture (MSA)
Agility, Scalability and Stability

For enterprises seeking scalability, for developers seeking application agility, and for change agents seeking support for digital transformation initiatives, MSA is key enabler.

> "By 2022, 90% of applications will use microservices architecture to enhance the ability to debug, update, leverage, and design third-party code."
>
> ***IDC FutureScape***

Make Migration to Microservices Meaningful

How and where to start migration

How to start? Modernize and migrate slowly yet surely

- The first step in IT modernization is not to make a mountain of the existing monolithic system.
- Instead, build independently deliverable services, micro services.

Where to start?

- **Integrate components and ensure data access by auto-generating APIs**

Generating APIs for a new service or reusing code of existing services can be challenging. Most enterprises are using low-code platforms to auto-generate APIs.

- **Expedite data migration, availability, and accessibility**

When migrating the most valuable asset, which is data, the challenge of "data gravity" arises. Low-code platforms simplify and accelerate the entire data migration process by making it easy to integrate databases and third-party libraries with offline data access and synchronization.

- **Build simple UI applications that demonstrate immediate value**

Developing user-friendly applications makes it easier to get stakeholders to understand the value they can deliver. Modern, low-code tools have made it easy to create simple UI applications with drag-and-drop and limitless customization features.

- **Break down the monolith into manageable chunks. Pull services out of a monolith - one at a time.**
  - Identify the part of an application that can run independent of the monolith
  - Identify how to write back to the existing application.

- **Measure and show the value**

The whole point of selecting one microservice at a time is to measure value. When choosing a service to be migrated or modernized, it is best to choose a high-value service, one that can demonstrate visible visual improvement to stakeholders. Once a service is successfully migrated, identify more uses cases that can be pulled out of the existing system.

The Way Forward For Enterprise IT

Rethink Enterprise Architecture with Low-Code Platforms

Low-code platforms provide the ability to:

- Develop custom software stacks and applications
- Deploy API-driven microservices-based applications
- Orchestrate IT infrastructure effectively.

> "69% of enterprises are using microservices for both new applications and for re-architecting existing ones."
>
> ***RedHat***

Modernization and migration to modern systems is a major change for many enterprises, technologically and culturally. Migrating from monolithic legacy systems cannot happen overnight. To effectively migrate, new models such as microservices is widely being adopted. To showcase the value of microservices to other stakeholders, change agents are using low-code platforms because they empower enterprises to rapidly develop and deploy modern and cloud-native applications with agility, scalability, and resilience.