MSOA

Problems of SOA(Monolithic):

1. Scaling challenges
2. Inability to add or modify features flexibly,
3. Limited fault tolerance
4. Challenge of adopting new technologies
5. The inability to reuse components across different applications.

What is MSOA?

You coupled or loosely coupled that don't have an immediate impact on each other. You group things which change/update for the same reason and separate the ones that change for different reasons.
For Example: User changes the address which is a Profile Change whereas a User places an order which is different from profile. So, these essentially could be 2 MSs viz, Order Service and Profile Service.
Each of these services is responsible for discrete tasks and can communicate with other services through simple APIs to solve a larger complex business problem.

Benefits of MSOA?

1. These are developed independently of each other, it results in faster development.
2. Each of these services can be deployed separately, which allows scaling on demand.
3. Fault Tolerance, if due to some reason a single API is down my other microservices can still serve.
4. Since modules are small, it is easier to choose a different language depending on the task since it removes the need to have one size fits all approach.

How do you get started?

- Decompose the data:

  You have to define the service which correspond to a business function.
  For an ecommerce:
  Catalogue service
  Inventory
  Order
  Delivery
  User

- Building and Deploying
    Choose the language
- Design the architecture

Building an E-commerce App