

## 1. Teste de Inglês:

Leia o artigo e responda em inglês a pergunta abaixo:

<https://medium.com/geekculture/monolithic-to-microservices-ce043a3be80c>

Quais são as vantagens e desvantagens deste modelo de arquitetura?

In the presented article, two types of architecture were demonstrated, monolithic and microservices. The main advantages of the monolithic architecture are: the relationship between each component, facilitating the development process; Integration testing is simple. Because all components are already connected; we can see the exact paths of dependencies, making monitoring easier.

The disadvantage of monolithic architecture are: difficult to understand and change, even a small change. Because nobody knows the whole app completely; everything has to be packaged correctly, all components, all applications, all dependencies, etc. making deployment very difficult; the application is offline for a long time due to deployment, updates are often not possible, and updates may be delayed due to dependencies on other less scalable components; less reusable. If the application is developed as small components, it can also be used for a similar purpose.

In microservices architecture, it has the advantage: the components are independent, facilitating the implementation of bug fixes, maintenance and addition of new features; easy-to-understand single-component codebase; support for the mixed technology stack; High Availability. Its disadvantages are: integration testing is complex; difficult to manage dependencies between components; complex to understand the overview of the entire application.