



Five Things You Should Know About Microservices

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01



GREATER AGILITY AND SPEED

Microservices bring agility and speed to application development because each service is independently developed and maintained by a small team. Since every service is decoupled from other services, it frees the team from coordinating with groups in different departments or time zones and dealing with the chaos that comes with it. Teams can update a microservice independently at any time since it is decoupled from other services.

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BETTER QUALITY

Breaking large monolithic applications into small services allows teams to focus upon a discrete set of functionalities at a time, which means more bugs can be identified and eliminated. However, the sheer number of independently deployable components and the underlying dependencies between them can increase complexities in the testing process. Managing the additional complexity requires a reconsideration of the testing strategies that are applied for traditional monolithic architecture.

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COST EFFICIENCY

With a service-based approach to architecture, there is one copy of application logic for a specific business capability that can be adapted for reuse in multiple contexts. This means the same service can be used for multiple applications or business processes depending on the need. Over time this reduces development costs while increasing speed, allowing you to reach your customers faster.

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RESILIENCE

We've all dealt with pesky bugs that bring down our applications and get us further away from the holy grail of five-nines. With microservices, most bugs only affect a single service and the rest of the application still works normally. The smaller codebase also makes it easier to track down and fix bugs. For example, if a notification microservice goes down, the build will still work normally, but the impact is limited to users not being notified about build results. More broadly, microservices are resilient because they are built and deployed independently. An outage in one area doesn't shut down all the processes.

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SCALABILITY

Unlike monolithic applications that possess one-dimensional scalability, microservices allow you to scale the individual components separately from one another when needed. This means you can efficiently scale discrete services based on their criticality to the overall system, throughput, memory, etc. This also ensures adequate flexibility to scale your solution in the future; you can add new services to the application painlessly or scale services separately from each other.