

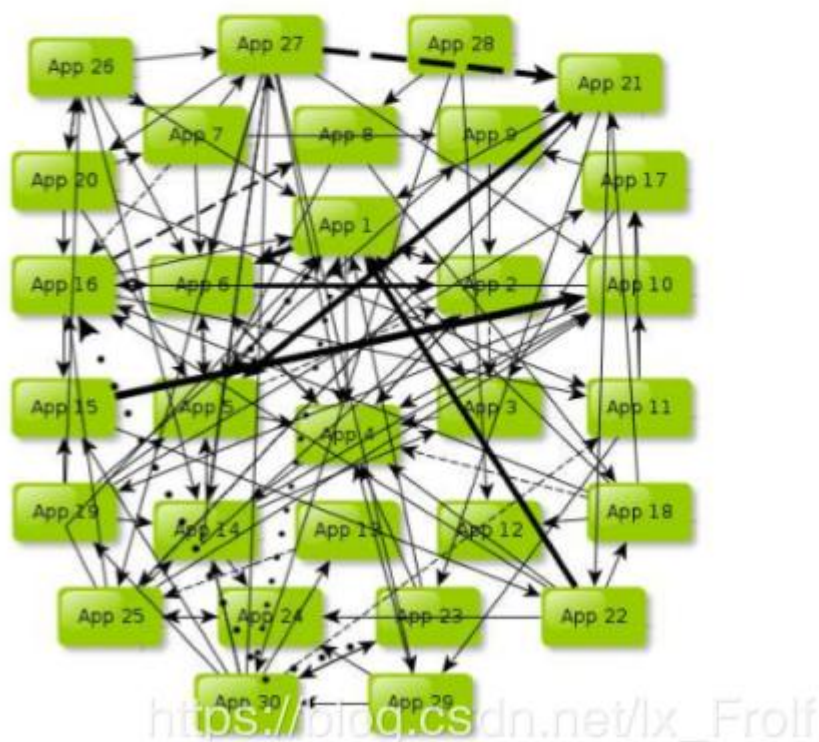
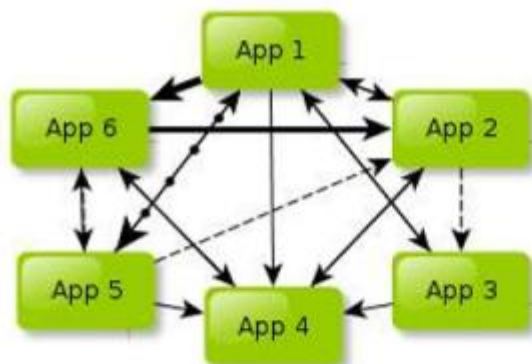


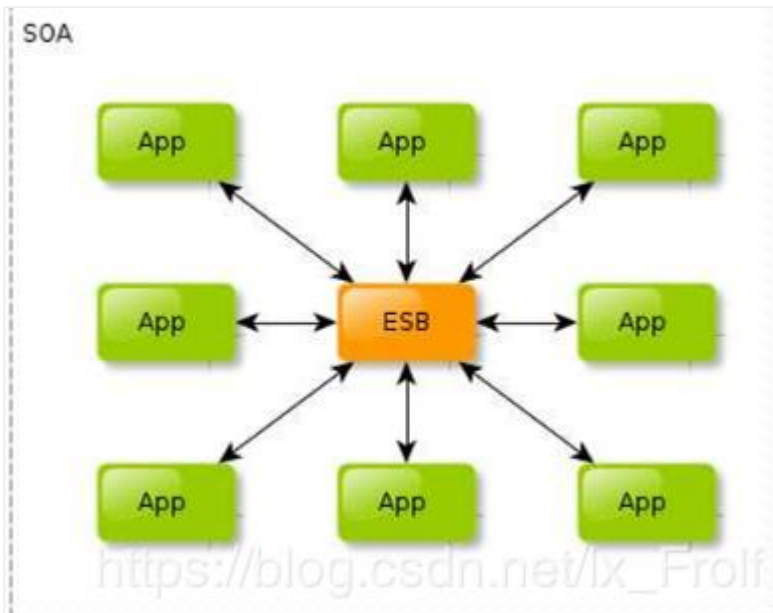
Comparison of SOA architecture and microservice architecture

tags: [distributed](#)

SOA architecture

Service Oriented Architecture (SOA), which means "service-oriented architecture" in Chinese, is a design method that contains multiple services, and the services are ultimately provided through interdependence. The function of the series. A service usually exists in an independent form in the operating system process, and each service is called through the network. Also comparable to SOA is an ESB (Enterprise Service Bus). Simply put, ESB is a pipe that connects to various service nodes. In order to integrate different systems and services of different protocols, the ESB does the translation interpretation and routing of messages, so that different services can be interconnected;





The core issues solved by SOA

1. System integration (technical level): From the perspective of system, solve the communication problem between enterprise systems, and sort out the network structure between the original scattered and unplanned systems. The manageable system-to-system star structure, this step often needs to introduce some products, such as ESB, as well as technical specifications, service management specifications, etc. The core problem solved in this step is "ordered";
2. Service of the system (technical level): From the perspective of function, abstract the business logic into a reusable and assembleable service, and realize the rapid regeneration of the service through the arrangement of the service. The purpose is to transform the original inherent business functions into general-purpose business services and realize the rapid reuse of business logic. The core problem solved in this step is "reuse";
3. Service of the service (packaging a business unit into a service with business drivers): abstracting the enterprise functions into reusable, assembleable services from the perspective of the enterprise. The transformation of the original functional enterprise structure into a service-oriented enterprise structure to further enhance the

company's external service capabilities, the core problem solved in this step is

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"efficient."

Microservice architecture

The microservice architecture is similar to the SOA architecture. Microservices are sublimated on SOA. One of the key points of the microservice architecture is that "business needs complete componentization and service", that is, the original Some single business systems are split into multiple small applications that can be independently developed, designed, and run. These small applications complete interaction and integration through services. The component represents a unit that can be replaced and upgraded independently. Just like the CPU, memory, graphics card, and hard disk in the PC, it can be replaced independently and can be replaced without affecting other units. If the PC is built as a component in a service manner, then the PC only needs to maintain the motherboard and some necessary external devices. The CPU, memory, and hard disk all provide services in components. The PC needs to call the CPU for calculation processing. It only needs to know the address of the CPU component.

Features of microservices:

1. Componentization through services
2. Divide services and development teams by business capabilities
3. Decentralization
4. Infrastructure automation (devops, automated deployment)

The difference between SOA and microservice architecture:

1. Microservices no longer emphasizes the heavy ESB enterprise service bus in the traditional SOA architecture, and the idea of SOA enters a single business system to achieve true componentization.
2. The emergence of Docker container technology provides more convenient

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conditions for microservices, such as smaller deployment units. Each service can run

on itself through technologies like Node or Spring Boot. In the process.

3. SOA focuses on system integration, while microservices focus on complete separation.

[Previous: Domain Driven Design](#)



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The difference between SOA architecture and microservice architecture

1. The difference between SOA architecture and microservice architecture First of all, SOA and microservices architecture are one level of things, and for ESB and microservices gateways are

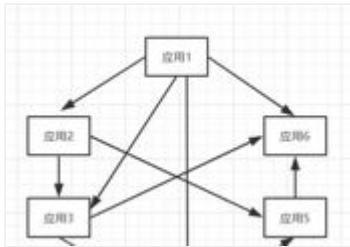
one level ...

SOA	微服务
大块业务逻辑	单独任务或小块业务逻辑
通常松耦合	总是松耦合
任何类型	小型、专注于功能交叉的
着重中央管理	着重分散管理
确保应用能够交互操作	执行新功能，快速拓展

The difference between SOA architecture and microservice architecture

Focus on reuse, microservices focus on rewriting The main purpose of SOA is to make it easier for companies to integrate systems. Microservices usually start by rewriting a module. It is a

big risk to...



2. The difference between SOA architecture and microservice architecture

Scenes: If we open the Alipay homepage and look at our balance, it will display your total assets, yesterday's earnings, cumulative earnings and other information. If the information

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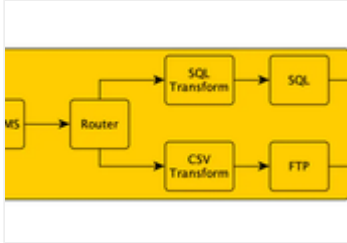
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SOA architecture, microservice architecture, service mesh analysis

The goal of this article: to figure out what is SOA architecture and microservice architecture, and what is the difference between the two? What is Service Mesh and what does it have

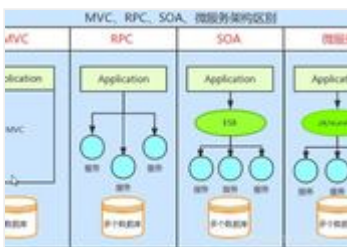
to do with micros...



(6) Mainstream architecture model - SOA architecture and microservice architecture

1.SOA architecture SOA (Service Oriented Architecture), which means "service-oriented architecture" in Chinese, is a design method that contains multiple services, and the services

provide a...

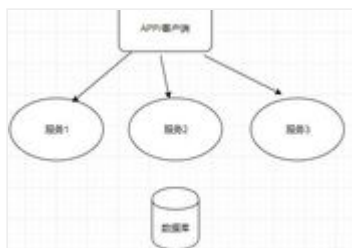


The difference between MVC RPC SOA and microservice architecture

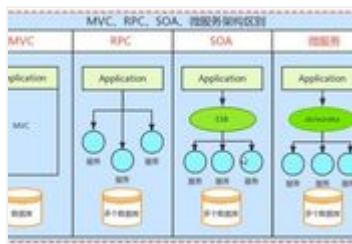
The difference between MVC RPC SOA microservice architecture Monolithic architecture MVC(Model View Controller) M refers to the business model, V refers to the user interface, and C is the controller....

The difference between MVC, RPC, SOA, and microservice architecture

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In fact, they are an evolution from MVC to microservices 1. MVC architecture In fact, the MVC architecture is a single traditional architecture. stands for technology: Struts2, SpringMVC, Spring, Myb...



The difference between MVC, RPC, SOA, and microservice architecture

First come a picture: The differences are as follows: 1 MVC Architecture Actually MVC The architecture is a monolithic architecture. Representative technology: Struts2、 SpringMVC、

Spring、 Mybatis and many ...

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