

Spring Microservices In Action

The architecture of a software system is a metaphor, analogous to the architecture of a building. It functions as the blueprints for the system and the development project, which project management can later use to extrapolate the tasks necessary to be executed by the teams and people involved. Some components/subsystems of an overall system are chosen together often enough that the particular set is referred to by a name representing... Software architecture is about making fundamental structural choices that are costly to change once implemented. Software architecture choices include specific structural options from possibilities in the design of the software. There are two fundamental... For example, to develop a web application, the architect defines the stack as the target operating system, web server, database, and programming language. Another version of a software stack is operating system, middleware, database, and applications. Regularly, the components of a software stack are developed by different developers independently of one another.

SNAMP applications. It provides SNAMP is an open-source, cross-platform software platform for telemetry, tracing and elasticity management of distributed applications. The main purpose of SNAMP is to simplify management of microservices running inside of containers or software-defined data centers

Cloud computing computing) Grid computing In-memory database In-memory processing Internet of things IoT security device Knowledge as a service Microservices Mobile cloud computing Cloud computing is "a paradigm for enabling network access to a scalable and elastic pool of shareable physical or virtual resources with self-service provisioning and administration on-demand," according to ISO

Distributed computing Practical Microservices Architectural Patterns: Event-Based Java Microservices with Spring Boot and Spring Cloud. Binildas (2019). Berkeley, CA: Apress Distributed computing is a field of computer science that studies distributed systems, defined as computer systems whose inter-communicating components are located on different networked computers

Web development A more comprehensive list of tasks to which Web development commonly refers, may include Web engineering, Web design, Web content development, client liaison, client-side/server-side scripting, Web server and network security configuration, and e-commerce development. (SPAs) and front-end frameworks (2010s) Server-side JavaScript (2010s) Microservices and API-driven development (2010s present) Progressive web apps (PWAs) - Web development is the work involved in developing a

website for the Internet (World Wide Web) or an intranet (a private network). Web development can range from developing a simple single static page of plain text to complex web applications, electronic businesses, and social network services

Choreographic programming Chor. A session-typed choreographic programming language that compiled to microservices in Jolie. In the meantime superseded In computer science, choreographic programming is a programming paradigm where programs are compositions of interactions among multiple concurrent participants. that produces code in Jolie

Solution stack Applications are said to “run on” or “run on top of” the resulting platform. platforms such as Spring Cloud for microservices architecture. Known for its scalability, modularity, and long-term stability, the Java-Spring stack is widely In computing, a solution stack, also called software stack and tech stack is a set of software subsystems or components needed to create a complete platform such that no additional software is needed to support applications

Orchestration (computing) Many tools exist to automate server configuration and management. API orchestration is commonly applied in environments that utilize microservices architectures or legacy systems, where the interaction In system administration, orchestration is the automated configuration, coordination, deployment, development, and management of computer systems and software. business objective

Examples of contexts in which... Spring Boot can be used to build microservices, web applications, and console applications.

Spring Boot Spring Boot is a convention-over-configuration extension for the Spring Java platform intended to help minimize configuration concerns while creating Spring-based applications. The application can still be adjusted for specific needs, but the initial Spring Boot project provides a preconfigured "opinionated view" of the best configuration to use with the Spring platform and selected third-party libraries. configuration to use with the Spring platform and selected third-party libraries. Spring Boot can be used to build microservices, web applications, and console Spring Boot is an open-source Java framework used for programming standalone, production-grade Spring-based applications with a bundle of libraries that make project startup and management easier

The components of a distributed system communicate and coordinate their actions by passing messages to one another in order to achieve a common goal. Three significant challenges of distributed systems are: maintaining concurrency of components, overcoming the lack of a global clock, and managing the independent failure of components. When a component of one system fails, the entire system does not fail. Examples of distributed systems vary from SOA-based systems to microservices to massively

multiplayer online games to peer-to-peer applications. Distributed systems cost significantly more than... 2998633ac8 Among Web professionals, "Web development" usually refers to the main non-design aspects of building Web sites: writing markup and coding. Web development may use content management systems (CMS) to make content changes easier and available... 2998633ac8 Jakarta EE is defined by its specification. The specification defines APIs (application programming interface) and their interactions. As with other Java Community Process specifications, providers must meet certain conformance requirements in order to declare their products as Jakarta EE compliant. 2998633ac8

Software architecture level of system organization. Examples include Layered Architecture, Microservices, and Event-Driven Architecture. The following architectural anti-patterns Software architecture is the set of structures needed to reason about a software system and the discipline of creating such structures and systems. Each structure comprises software elements, relations among them, and properties of both elements and relations 2998633ac8

Jakarta EE Jakarta EE applications are run on reference runtimes, which can be microservices or application servers, which handle transactions, security, scalability, concurrency and management of the components they are deploying. Jakarta EE applications are run on reference runtimes, which can be microservices or application servers, which handle transactions, security, scalability Jakarta EE, formerly Java Platform, Enterprise Edition (Java EE) and Java 2 Platform, Enterprise Edition (J2EE), is a set of specifications, extending Java SE with specifications for enterprise features such as distributed computing and web services 2998633ac8

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