

# Spring Cloud

## (JAVA Cloud-Native Applications)

Cloud native is a term used to describe container-based environments. Cloud-native technologies are used to develop applications built with services packaged in containers, deployed as microservices and managed on elastic infrastructure through agile DevOps processes and continuous delivery workflows. Spring Cloud facilitates these styles of development in a number of specific ways and the starting point is a set of features that all components in a distributed system either need or need easy access to when required. Spring Cloud provides tools for developers to quickly build some of the common patterns in distributed systems (e.g. configuration management, service discovery, circuit breakers, intelligent routing, micro-proxy, control bus, one-time tokens, global locks, leadership election, distributed sessions, cluster state). Coordination of distributed systems leads to boiler plate patterns, and using Spring Cloud developers can quickly stand up services and applications that implement those patterns. They will work well in any distributed environment, including the developer's own laptop, bare metal data centres, and managed platforms such as Cloud Foundry.

پیش نیازها: java, Spring Framework 5 , Spring Boot

مخاطبین: برنامه نویسان جاوا، معماران سیستم

- Spring Cloud Features:
  - Distributed/versioned configuration
  - Service registration and discovery
  - Routing
  - Service-to-service calls
  - Load balancing
  - Circuit Breakers
  - Global locks
  - Leadership election and cluster state
  - Distributed messaging
- Spring Cloud Config
- Spring Cloud Netflix
- Service Discovery: Eureka
- Spring Cloud Bus
- Spring Cloud Cluster
- Spring Cloud Consul
- Spring Cloud Security
- Spring Cloud Sleuth
- Spring Cloud Data Flow
- Spring Cloud Stream
- Spring Reactive-Stack
- Spring Cloud Stream App Starters
- Spring Cloud Task

- Spring Cloud Task App Starters
- Spring Cloud Zookeeper
- Spring Cloud OpenFeign
- Spring Cloud Starters
- Spring Cloud CLI
- Spring Cloud Contract
- Spring Cloud Gateway
- Spring Cloud Circuit breaker