**Introduction**

Micronaut is a modern, JVM-based, full stack Java framework designed for building modular, easily testable JVM applications with support for Java, Kotlin, and Groovy.

Micronaut is developed by the creators of the Grails framework and takes inspiration from lessons learnt over the years building real-world applications from monoliths to microservices using Spring, Spring Boot and Grails.

Micronaut aims to provide all the tools necessary to build JVM applications including:

* Dependency Injection and Inversion of Control (IoC)
* Aspect Oriented Programming (AOP)
* Sensible Defaults and Auto-Configuration

With Micronaut you can build Message-Driven Applications, Command Line Applications, HTTP Servers and more whilst for Microservices in particular Micronaut also provides:

* Distributed Configuration
* Service Discovery
* HTTP Routing
* Client-Side Load Balancing

At the same time Micronaut aims to avoid the downsides of frameworks like Spring, Spring Boot and Grails by providing:

* Fast startup time
* Reduced memory footprint
* Minimal use of reflection
* Minimal use of proxies
* No runtime bytecode generation
* Easy Unit Testing

### **Modules Upgrades**

* Micronaut AWS
* Micronaut Azure
* Micronaut Cache
* Micronaut Cassandra
* Micronaut Coherence
* Micronaut Data
* Micronaut Elasticsearch
* Micronaut Email
* Micronaut Flyway
* Micronaut GCP
* Micronaut GraphQL
* Micronaut Groovy
* Micronaut JaxRS
* Micronaut JMX
* Micronaut Kafka
* Micronaut Micrometer
* Micronaut Microstream
* Micronaut Liquibase
* Micronaut Mongo
* Micronaut Neo4J
* Micronaut Nats
* Micronaut OpenAPI
* Micronaut Picocli
* Micronaut Problem
* Micronaut RabbitMQ
* Micronaut R2DBC
* Micronaut Reactor
* Micronaut Redis
* Micronaut RxJava3
* Micronaut Serialization
* Micronaut Servlet
* Micronaut Spring
* Micronaut SQL
* Micronaut Test
* Micronaut TOML
* Micronaut Tracing
* Micronaut Views
* Micronaut Jackson XML

Code Generator

https://micronaut.io/launch/

Micronaut VS Quarkus

<https://stackshare.io/stackups/micronaut-vs-quarkus>

<https://java.libhunt.com/compare-quarkus-vs-micronaut>

<https://todos.simpleapi.dev/docs.php> (doc api todos)

**'https://todos.simpleapi.dev/api/todos?apikey=78e2908a-c1cb-4402-9d17-596bc6094198' \**