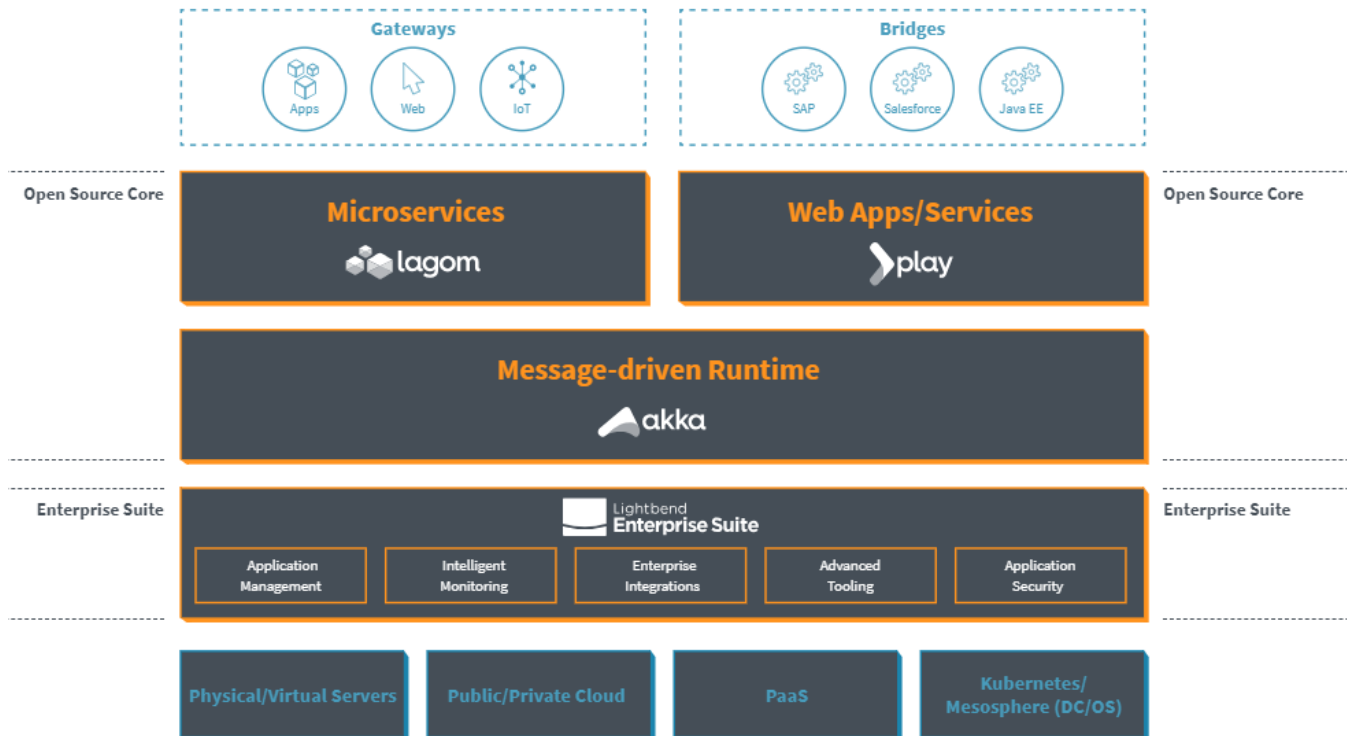


Lagom for Java MicroService



- / . ()
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- , Akka
- AWS

for MicroService



Maven SBT

- If you are a Java developer with existing knowledge of [Maven](#), this familiarity can help you get started faster with Lagom. If your organization has existing infrastructure, plugins and best practices built around Maven, that might also make Maven the more practical choice.
- [sbt](#) is a very powerful build tool that allows Lagom's features to be very easily supported and implemented - there are many aspects of the Lagom development environment that work a little smoother and faster in sbt than Maven due to sbt's power and flexibility. For this reason, sbt is the build tool of choice for the maintainers of Lagom.

/ Maven/SBT ,

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- JDK : <http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html>

- SBT : <https://www.scala-sbt.org/download.html>
- IDE : <https://code.visualstudio.com/download> -IDE

```
sbt new lagom/lagom-java.g8
```

```
[info] [SUCCESSFUL ] org.osgi#org.osgi.core;4.3.1!org.osgi.core.jar (4326ms)
[info] [SUCCESSFUL ] org.ow2.asm#asm-tree;5.1!asm-tree.jar (1153ms)
[info] [SUCCESSFUL ] args4j#args4j;2.0.12!args4j.jar (1438ms)
[info] [SUCCESSFUL ] org.codehaus.plexus#plexus-io;2.2!plexus-io.jar (958ms)
[info] [SUCCESSFUL ] org.clapper#classutil_2.12;1.1.0!classutil_2.12.jar (1062ms)
[info] [SUCCESSFUL ] org.eclipse.jgit#org.eclipse.jgit;3.7.0.201502260915-r!org.
name [Hello]:
organization [com.example]: com.psmon.lagomtest
```

build.sbt

```
// pom.xml

organization in ThisBuild := "com.psmon.lagomtest"
version in ThisBuild := "1.0-SNAPSHOT"

// the Scala version that will be used for cross-compiled libraries
scalaVersion in ThisBuild := "2.12.4"

lazy val `hello` = (project in file("."))
  .aggregate(`hello-api`, `hello-impl`, `hello-stream-api`, `hello-stream-impl`)

lazy val `hello-api` = (project in file("hello-api"))
  .settings(common: _*)
  .settings(
    libraryDependencies ++= Seq(
      lagomJavadsApi,
      lombok
    )
  )

lazy val `hello-impl` = (project in file("hello-impl"))
  .enablePlugins(LagomJava)
  .settings(common: _*)
  .settings(
    libraryDependencies ++= Seq(
      lagomJavadslPersistenceCassandra,
      lagomJavadslKafkaBroker,
      lagomLogback,
      lagomJavadslTestKit,
      lombok
    )
  )
  .settings(lagomForkedTestSettings: _*)
  .dependsOn(`hello-api`)

lazy val `hello-stream-api` = (project in file("hello-stream-api"))
  .settings(common: _*)
  .settings(
    libraryDependencies ++= Seq(
      lagomJavadsApi
    )
  )

lazy val `hello-stream-impl` = (project in file("hello-stream-impl"))
  .enablePlugins(LagomJava)
  .settings(common: _*)
  .settings(
    libraryDependencies ++= Seq(
      lagomJavadslPersistenceCassandra,
      lagomJavadslKafkaClient,
      lagomLogback,
      lagomJavadslTestKit
    )
  )
  .dependsOn(`hello-stream-api`, `hello-api`)

val lombok = "org.projectlombok" % "lombok" % "1.16.18"

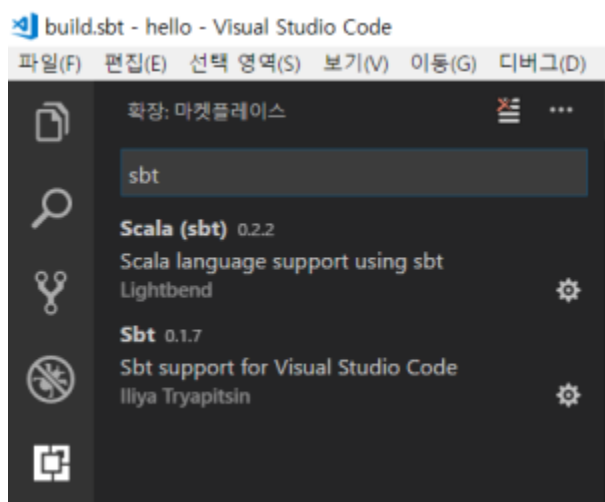
def common = Seq(
  javacOptions in compile += "-parameters"
)
```

Application Layout

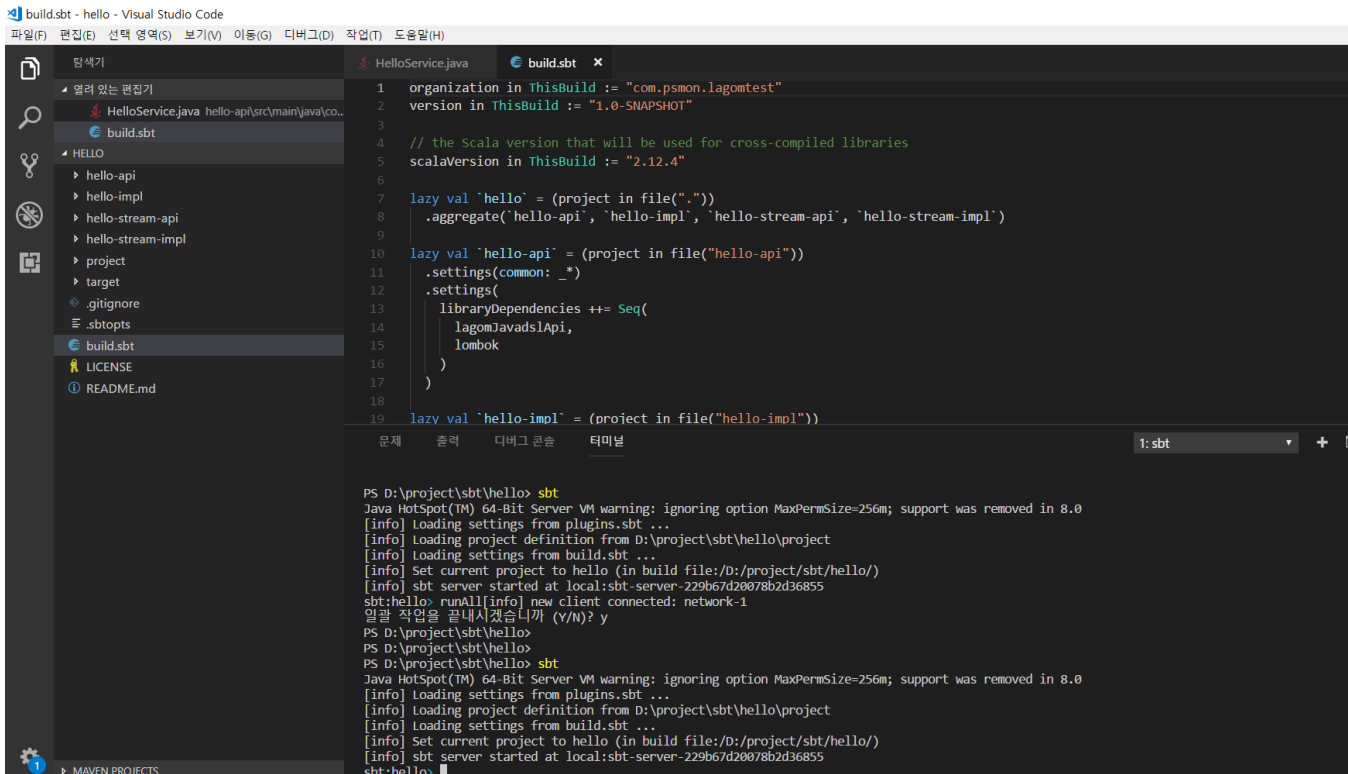
hello	Project root
hello-api	hello api project
hello-impl	hello implementation project
hello-stream-api	hello-stream api project
hello-stream-impl	hello-stream implementation project
project	sbt configuration files
build.properties	Marker for sbt project
plugins.sbt	sbt plugins including the declaration for Lagom itself
build.sbt	Build configuration

VisualStudio Code For SBT

Sbt



- ->



, VisualStudioCode IDE

```
sbt:hello> runAll
[info] Starting Kafka
[info] Starting Cassandra
.....Kafka Server closed unexpectedly.
...
[info] Cassandra server running at 127.0.0.1:4000
2018-07-22T03:15:20.723Z [info] akka.event.slf4j.Slf4jLogger [] - Slf4jLogger started
2018-07-22T03:15:24.777Z [info] com.lightbend.lagom.discovery.ServiceLocatorServer [] - Service locator can be
reached at http://localhost:9008
2018-07-22T03:15:24.778Z [info] com.lightbend.lagom.discovery.ServiceLocatorServer [] - Service gateway can be
reached at http://localhost:9000
[info] Service locator is running at http://localhost:9008
[info] Service gateway is running at http://localhost:9000
```

```
sbt:hello> dist
[info] Packaging D:\project\sbt\hello\hello-stream-impl\target\scala-2.12\hello-stream-impl_2.12-1.0-SNAPSHOT-
sources.jar ...
[info] Packaging D:\project\sbt\hello\hello-impl\target\scala-2.12\hello-impl_2.12-1.0-SNAPSHOT-sources.jar ...
[info] Done packaging.
[info] Done packaging.
```

Links:

- <https://developer.lightbend.com/start/?group=lagom&project=lagom-scala-sbt>

- <https://www.lagomframework.com/>