

[Gradle](https://gradle.org/) is a Groovy-based build management system designed specifically for building Java-based projects.

**In Gradle, Builds consist of one or more projects and each project consists of one or more tasks.**

A project in Gradle can be assembling a *jar*, *war* or even a *zip* file.

**A task is a single piece of work.** This can include compiling classes, or creating and publishing Java/web archives.

A simple task can be defined as:

|  |
| --- |
| task hello {      doLast {          println 'Baeldung'      }  } |

If we execute above task using *gradle -q hello* command from the same location where build.gradle resides.

We can define tasks that depend on other tasks. Task dependency can be defined by passing the *dependsOn: taskName*argument in a task definition:

|  |
| --- |
| task helloGradle {      doLast {          println 'Hello Gradle!'      }  }    task fromBaeldung(dependsOn: helloGradle) {      doLast {          println "I'm from Baeldung"      }  } |

The settings.gradle file is used to specify which projects to include in your build. Detailed information about configuring a multi-project build in gradle can be found at <https://docs.gradle.org/5.2.1/userguide/multi_project_builds.html>

org.gradle.parallel=true in settings.gradle This line allows Gradle to build the microservices in parallel. This should help to reduce build times.