Gradle JVM build tool

CONCEPTS

Use ./gradlew (the wrapper) instead of a global gradle: it pins the version the project was built with.

Tasks run with their dependencies, and up-to-date tasks are skipped. Use --rerun-tasks to force everything.

RUN TASKS

./gradlew *<task>*
Run a task and its dependencies

./gradlew *<task1>* *<task2>*
Run several tasks in order

./gradlew build
Assemble and run all checks

./gradlew check
Run all verification tasks

./gradlew run
Assemble and run the application

./gradlew clean
Delete the build directory contents

./gradlew clean build
Rebuild from scratch

./gradlew *:<sub>:<task>*
Run a task in one subproject

./gradlew *<task>* **-x** *<name>*
Skip a task, even if others need it

./gradlew *<task>* **--continue**
Keep going after a failure

./gradlew *<task>* **-t**
Re-run when inputs change

./gradlew *<task>* **--rerun-tasks**
Ignore up-to-date checks

TESTING

./gradlew test
Run all tests

./gradlew test --tests *<Class>*
Run one test class

./gradlew test --tests *<Class>.<method>*
Run one test method

./gradlew test -i
Show test output in the console

OPTIONS

-i / --info
Log at info level

-s / --stacktrace
Print stack traces for user errors

--scan
Create a Build Scan

--offline
Do not use the network

-U / --refresh-dependencies
Refresh dependency state

--parallel
Build projects in parallel

--build-cache
Enable the build cache

-P*<prop>*=*<value>*
Set a project property

DAEMON

./gradlew --stop
Stop all daemons

INSPECT

./gradlew tasks
List main tasks

./gradlew tasks --all
Include tasks of all groups

./gradlew projects
List subprojects as a tree

./gradlew dependencies
Dependency tree per configuration

./gradlew dependencyInsight --dependency *<name>* **--configuration** *<cfg>*
Explain why a dependency is there

SETUP AND WRAPPER

gradle init
Create a new build interactively

gradle wrapper
Generate gradlew and wrapper files

gradle wrapper --gradle-version *<ver>*
Pin or upgrade the wrapper version

./gradlew --version
Show the Gradle version in use