

RUN JAVA APPLICATIONS

Compile a Java class:

```
javac MyApp.java
```

Run the application from a JAR file:

```
java -jar MyApp.jar
```

Specify the class path for the app:

```
java -cp target/myapp.jar
com.mycompany.app.MyApp
```

Run the JIT compiler as JAR or native library (default):

```
-XX:±UseJVMCINativeLibrary
```

Select the GraalVM compiler configuration:

```
-Dgraal.CompilerConfiguration=
enterprise|community|economy
```

Print the details for the JIT compiled code:

```
-Dgraal.PrintCompilation=true
```

Produce the diagnostic data for the compilation:

```
-Dgraal.Dump
```

Load a javaagent:

```
-javaagent:<jarpath>[=<options>]
```

```
-agentlib:<libname>[=<options>]
```

COMPILE TO NATIVE EXECUTABLES

Install the native image builder from a local file:

```
gu install -L native-image.jar
```

Native Image command syntax:

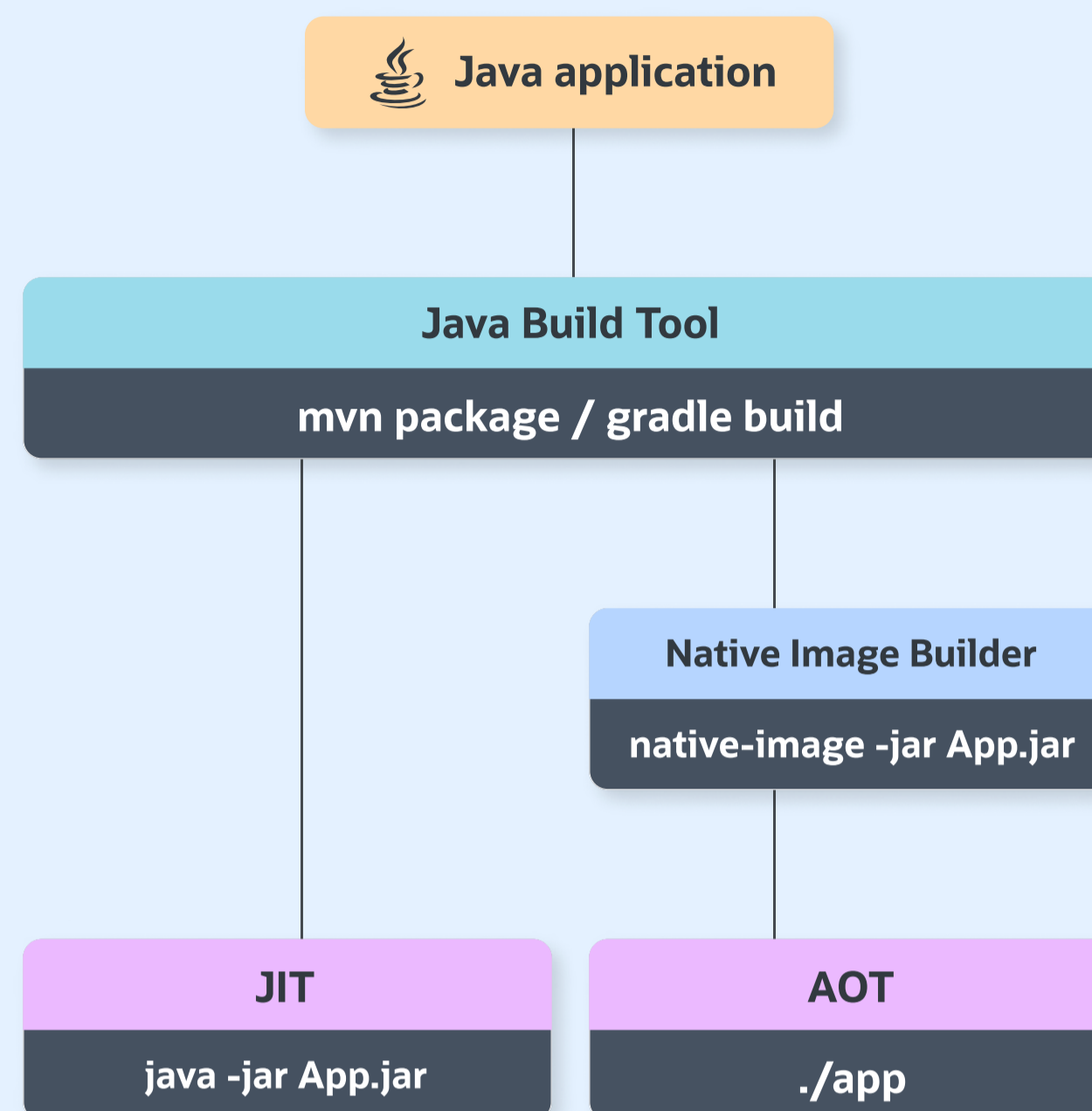
```
native-image [options] MyClass
```

Build a native image of a JAR file:

```
native-image -jar MyApp.jar
```

Run a native image:

```
./myapp
```



Build a shared library:

```
--shared
```

Build a statically linked native image:

```
--static --libc=glibc|musl
```

Include a language runtime in the native image:

```
--language: js|python|ruby|llvm|wasm
```

Use profile-guided optimizations:

```
native-image --pgo-instrument MyApp
./myapp #and apply load
native-image --pgo profile.iprof MyApp
```

Attach a debugger:

```
--debug-attach=[port]
```

Trace classes initialization:

```
--trace-class-initialization
```

List all image build options for experts:

```
--expert-options-all
```

ENABLE POLYGLOT PROGRAMMING

Run a Node.js application:

```
node myApp.js
```

Run a JavaScript, R, Ruby, Python, LLVM application:

```
js myApp.js
```

```
graalpython myApp.py
```

```
ruby myApp.rb
```

```
R myApp.r
```

```
lli myApp
```

Run other languages in a Java application:

```
org.graalvm.polyglot
.Context
.createContext()
.eval("languageId", "code");
```

Enable polyglot capabilities for an application:

```
--polyglot --jvm
```

Limit resources for the application:

```
--sandbox.MaxCPUtime=<ms>
```

```
--sandbox.MaxStatements=N
```

Debug the application:

```
--inspect=[host:]<port number>
```

```
--inspect-brk
```

Profile the application:

```
--cpusampler
```

```
--cputracer
```

```
--memtracer
```

