

# Building Quarkus apps with Quarkus Command Line Interface (CLI)

## Installing the CLI

The Quarkus CLI is provided as a native binary for Linux and macOS or as a jar-file for all operating systems.

### Native CLI

Download the binaries here:

- [Linux Binary](#) (coming soon)
- [macOS Binary](#) (coming soon)

We recommend that you create a specific Quarkus folder, eg '~/quarkus' and move the binary there. Then in your shell profile (for Bash shell edit '~/.bash\_profile'), export the 'QUARKUS\_HOME' folder and add that to your 'PATH':

```
export QUARKUS_HOME=/path/to/quarkus-cli
export PATH="$PATH:$QUARKUS_HOME"
```

Reload your terminal or do:

```
source ~/.bash_profile
```

Now you can run the Quarkus CLI:

```
$ quarkus --help
```

This will display the help information with all the available commands.

```
$ quarkus -i
```

This will start the Quarkus CLI in interactive mode.

### Jar CLI

Download the jar-file here: \* [jar-file](#) (coming soon)

As with the native CLI we recommend that you copy the binary to a specific folder, eg '~/quarkus'. The jar file requires Java 8 or newer to run. To start the CLI:

```
$ java -jar quarkus-cli.jar
```

The jar file CLI accepts all the same options and commands as the native binary.

Note: In the examples below switch out 'quarkus' with 'java -jar quarkus-cli.jar'.

## Creating a new project

To create a new project we use the create-project command:

```
$ quarkus create-project hello-world
```

This will create a folder called 'hello-world' in your current working directory using default groupId, artifactId and version values (groupId='org.acme', artifactId='quarkus' and version='1.0.0-SNAPSHOT').

To specify the groupId, artifactId and version values, use the '--groupid', '--artifactid' and '--version' options:

```
$ quarkus create-project --groupid=com.foo --artifactId=bar  
--version=1.0 hello-world
```

Use the help option to display all the possible options:

```
$ quarkus create-project --help
```

## Dealing with extensions

The Quarkus CLI can obtain a list of the available extensions with:

```
$ quarkus list-extensions
```

To more easily get an overview and only display the extension names:

```
$ quarkus list-extensions -n
```

## Adding extension(s)

The Quarkus CLI can add Quarkus extensions to your project with the 'add-extension' command:

```
$ quarkus add-extension --extension=hibernate-validator  
/path/to/my/project
```

The argument path either needs to be the base folder for the project or a direct path to the build file.

## Development mode

To start dev mode from the Quarkus CLI do:

```
$ quarkus dev /path/to/my/project
```

As with 'add-extension' the argument path needs to be the base folder for the project or a direct path to the build file.