

# Getting started with Infinispan

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It's easy to get up and running with Infinispan. All you need is Java and a dependency management and build tool such as Maven.

# Chapter 1. Get Up and Running with Infinispan

It's easy to get started with Infinispan. All you need is Java, dependency management tooling, and either the Infinispan server or core libraries.

## 1.1. Software Requirements

To run Infinispan, you'll need:

- Java 1.8 JDK at a minimum. Infinispan recommends JDK 11 but also works with JDK 14.
- Maven 3.2 or later. Infinispan also works with Gradle and Ivy.

## 1.2. JDK

Choose your Java runtime and follow their installation instructions. For example, you could choose:

- [OpenJDK](#)
- [Oracle Java SE](#)

## 1.3. Maven

Run `mvn --version` to check your current Maven version. If you have Maven 3.2 or later, you are ready to go.

If you need to install Maven, visit <https://maven.apache.org/install.html>.

## 1.4. Getting Infinispan

To start using Infinispan, you can:

- Download the Infinispan server distribution. Visit the [Download Infinispan](#) page to get a stable or development version.
- Pull the [Infinispan server image](#).
- Add the `infinispan-core` artifact to your `pom.xml` and use Infinispan directly in your project. See [Embedding Infinispan](#) for more information.

## 1.5. Infinispan Tutorials

Infinispan provides a set of tutorials that demonstrate various capabilities in a few easy steps.

Clone the tutorial repository as follows:

```
$ git clone git@github.com:infinispan/infinispan-simple-tutorials.git
```

# Chapter 2. Creating Infinispan Projects

Infinispan provides a set of Maven archetypes that you can use to generate skeleton projects with sample code and `pom.xml` files. You can then import these projects into your IDE and start building and running applications with Infinispan capabilities.

## Prerequisites

- Maven 3.2 or later.
- Ensure the JBoss GA repository, `jboss-ga-repository`, is included in your Maven settings.

## Procedure

1. Open a terminal window in the directory where you want to create project files.
2. Generate projects from Infinispan archetypes with the following command:

```
$ mvn archetype:generate -DarchetypeGroupId=org.infinispan.archetypes \
  -DarchetypeArtifactId=<archetype-name> \ ①
  -DarchetypeVersion=<infinispan-version> ②
```

① Creates projects from one of the following archetypes:

- `client` Creates a sample Hot Rod Java client application.
- `embedded` Creates a sample application that embeds Infinispan.
- `store` Creates a sample implementation of a custom cache store.
- `server-task` Creates a sample implementation of a ServerTask.

② Specifies the Infinispan version to use, for example:

```
-DarchetypeVersion=13.0.9.Final
```

3. When prompted, define `artifactId`, `groupId`, and `version` values for your project.
4. Import your new Infinispan project into your IDE.
5. Run your project application from the directory where the `pom.xml` file resides as follows:

```
$ mvn package exec:java
```



The `store` and `server-task` archetype does not include a project application, `Application.java`, that you can run.

## Reference

- [Introduction to Maven Archetypes](#)