# Spring Boot Microservices

Beginner to Guru

Spring Boot Developer Tools

# Developer Tools

- Added to Project via artifact 'spring-boot-devtools'

- Developer Tools are automatically disabled when running a packaged application (ie java -jar)

- By default, not included in repackaged archives

# Developer Tools Features

- Automatic Restart

  - Triggers a restart of the Spring Context when classes change

  - Uses two classloaders. One for your application, one for project jar dependencies

  - Restarts are very fast, since only your project classes are bring loaded

# Developer Tools Features

- Eclipse:

  - Restart is triggered with save (which by default will compile the class, which triggers the restart)

- IntelliJ:

  - By default you need to select 'Build / Make Project'

  - There is an advanced setting you can change to make this more seamless

# Template Caching

- By default templates are cached for performance

- But Caching will require a container restart to refresh the cache

- Developer Tools will disable template caching so the restart is not required to see changes

# LiveReload

- LiveReload is a technology to automatically trigger a browser refresh when resources are changed

- Spring Boot Developer Tools includes a LiveReload server

- Browser plugins are available for a free download at livereload.com

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