SPRING FRAMEWORK

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Spring Boot Configuration

Dependency Management

- Maven or Gradle are supported for curated dependencies
- Each version of Spring Boot is configured to work with a specific version of Spring Framework
- Overriding the Spring Framework Version is not recommended
- Other build systems such as Ant can be used, but not recommended

Maven Support

- Maven projects inherit from a Spring Boot Parent POM
    - When possible, do not specify versions in your POM. Allow the versions to inherit from the parent
- The Spring Boot Maven Plugin allows for packaging the executable jar

Gradle Support

- Gradle support depends on a Spring Boot Gradle plugin
- Requires Gradle 3.4 or later
- The Gradle plugin provides support of curated dependencies, packaging as jar or war, and allows you to run the application from the command line

Ant + Ivy Support

- Spring Boot can be built using Ant with Ivy
- Ivy is used for dependency management
- Complete directions are available via the official Spring Boot documentation

Spring Boot Starters

- Starters are top level dependencies for popular Java libraries
- Will bring in dependencies for the project and related Spring components
  - Starter ‘spring-boot-starter-data-jpa’ brings in:
    - Hibernate
    - Spring Data JPA - and related Spring deps

Spring Boot Annotations

- @SpringBootApplication - main annotation to use
- Includes:
    - @Configuration - Declares class as Spring Configuration
    - @EnableAutoConfiguration - Enables auto configuration
    - @ComponentScan - Scans for components in current package and all child packages

Disabling Specific Auto Config

- Auto-configuration will bring in A LOT of configuration classes in supplied Spring Boot Jars

- You can specify classes to exclude with:

    - @EnableAutoConfiguration(exclude={DataSourceAutoConfiguration.class})

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