



Apache Maven

Beginner to Guru

Using Maven BOM



Maven BOM

- BOM - Bill of Material
 - Manufacturing term meaning effectively a recipe of components required to produce a widget
- In Maven terminology, a BOM has become to mean dependencies declared within the dependencyManagement section of the POM.
- Fully qualified dependencies are listed under the dependencyManagement section of the POM
- Dependencies declared under the dependencies section of the POM inherit from dependencyManagement (version / packaging)
- Typically used to standardized versions.





Transitive Dependencies and BOM

- Any dependencies declared in the dependencyManagement section of the POM DO NOT become transitive dependencies for the artifact
- Dependencies declared under the dependencies section of the POM DO become transitive dependencies for the artifact
 - These DO inherit attributes such as version from dependencyManagement





BOM Approaches

- Typical is to declare a `dependencyManagement` in the parent POM of the project
 - Example in upcoming video
- Can also be defined in a remote parent POM
 - Spring Boot uses this approach
- Can be defined as a standalone POM, then 'imported' into the `dependenciesManagement` section
 - Spring Cloud uses this approach



