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 dependencyManagment 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