

Modules

Migration Strategies

Migrating the Application

- many applications were written before JPMS was introduced
- with migration, you can migrate the existing applications to use modules
- there are two approaches to migration
 - 1. bottom-up migration**
 - used when you have control over JAR files on which your app depends
 - 2. top-down migration**
 - useful when you don't have control over every JAR file used by your app

Bottom-Up Migration Strategy

1. Pick the **lowest-level** project that has not yet been migrated
2. Add `module-info.java` to that project with appropriate `exports` / `requires`
3. Move newly migrated named module from the classpath to module path
4. Do this until there are no unnamed modules on the classpath
5. Repeat with the next lowest-level project until you're done

Top-Down Migration Strategy

1. Place all projects on the module path
2. Pick the **highest-level** project that has not yet been migrated
3. Add `module-info.java` to the project
 - this converts automatic module into a named module
 - add appropriate `exports` / `requires` statements
 - you can use the automatic module name of other modules in the process
4. Repeat with the next highest-level project until you're done