**BUILD A MULTIMODULE EAR PROJECT WITH MAVEN**

**(EJB, WAR AND JAR PROJECTS)**

I highly suggest that you understand how multi-module builds work. The Sonatype book has a great [chapter](http://books.sonatype.com/mvnex-book/reference/multimodule.html) describing in great detail.

To build an EAR with an EJB and a WAR, you actually need *three* modules, for the EJB, WAR and EAR. The parent POM just holds everything together and has a packaging type of POM.

So the parent pom.xml should look like this:

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

http://maven.apache.org/maven-v4\_0\_0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>org.sonatype.mavenbook.multi</groupId>

<artifactId>simple-parent</artifactId>

<packaging>pom</packaging>

<version>1.0</version>

<name>Multi Chapter Simple Parent Project</name>

<modules>

<module>ejb-module</module>

<module>war-module</module>

<module>ear-module</module>

</modules>

</project>

Then, each of the child POMs would look like this:

ejb-module/pom.xml:

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

http://maven.apache.org/maven-v4\_0\_0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

<groupId>org.sonatype.mavenbook.multi</groupId>

<artifactId>simple-parent</artifactId>

<version>1.0</version>

</parent>

<artifactId>ejb-module</artifactId>

<packaging>ejb</packaging>

</project>

war-module/pom.xml

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

http://maven.apache.org/maven-v4\_0\_0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

<groupId>org.sonatype.mavenbook.multi</groupId>

<artifactId>simple-parent</artifactId>

<version>1.0</version>

</parent>

<artifactId>war-module</artifactId>

<packaging>war</packaging>

<name>simple-webapp Maven Webapp</name>

<dependencies>

<dependency>

<groupId>org.sonatype.mavenbook.multi</groupId>

<artifactId>ejb-module</artifactId>

<version>1.0</version>

</dependency>

</dependencies>

</project>

ear-module/pom.xml:

<project xmlns="http://maven.apache.org/POM/4.0.0"

xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"

xsi:schemaLocation="http://maven.apache.org/POM/4.0.0

http://maven.apache.org/maven-v4\_0\_0.xsd">

<modelVersion>4.0.0</modelVersion>

<parent>

<groupId>org.sonatype.mavenbook.multi</groupId>

<artifactId>simple-parent</artifactId>

<version>1.0</version>

</parent>

<artifactId>ear-module</artifactId>

<packaging>ear</packaging>

<name>EAR module</name>

<build>

<plugins>

<plugin>

<groupId>org.apache.maven.plugins</groupId>

<artifactId>maven-ear-plugin</artifactId>

<version>2.10.1</version>

<configuration>

<ejbModule>

<groupId>org.sonatype.mavenbook.multi</groupId>

<artifactId>ejb-module</artifactId>

<bundleFilename>ejb-module.jar</bundleFilename>

</ejbModule>

<webModule>

<groupId>org.sonatype.mavenbook.multi</groupId>

<artifactId>war-module</artifactId>

<contextRoot>/foo</contextRoot>

</webModule>

</configuration>

</plugin>

</plugins>

</build>

</project>