

TOPIC : MAVEN ERROR HANDLING

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1. Installation and configuration issues

Error: "mvn: command not found"

Cause:

- Maven is not installed, or the PATH is not configured.

Solution:

1. Verify Maven installation:

```
mvn -version
```

2. If not installed, install it using:

```
sudo yum install maven -y
```

3. Add Maven to PATH (if installed but not found):

```
export PATH=/opt/maven/bin:$PATH
```

2. Dependency issues

Error: "Could not resolve dependencies"

Cause:

- Missing or incorrect repository configurations.
- Network connectivity issues.

Solution:

1. Check internet connectivity:

```
ping google.com
```

2. Manually update dependencies:

```
mvn clean install -U
```

3. Clear the local repository cache:

```
rm -rf ~/.m2/repository
```

3. Build failures

Error: "Compilation failure"

Cause:

- Java version mismatch.
- Missing source files.

Solution:

1. Verify Java version:

```
java -version
```

2. Ensure the correct compiler version in pom.xml:

```
<properties>
```

```
<maven.compiler.source>11</maven.compiler.source>
```

```
<maven.compiler.target>11</maven.compiler.target>
```

```
</properties>
```

Error: "BUILD FAILURE: No compiler is provided"

Cause:

- JDK is missing or not set correctly.

Solution:

1. Install JDK:

```
sudo apt install openjdk-11-jdk -y
```

2. Set JAVA_HOME:

```
export JAVA_HOME=/usr/lib/jvm/java-11-openjdk-amd64
```

```
export PATH=$JAVA_HOME/bin:$PATH
```

4. Repository and plugin issues

Error: "Plugin execution not covered by lifecycle configuration"

Cause:

- A required Maven plugin is missing or misconfigured.

Solution:

1. Update plugins in pom.xml:

```
<plugin>

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

<artifactId>maven-compiler-plugin</artifactId>

<version>3.8.1</version>

</plugin>
```

2. Force a full recompile:

```
mvn clean package
```

5. Memory Issues

Error: "Out of memory error"

Cause:

- Insufficient memory allocated to Maven.

Solution:

1. Increase memory allocation:

```
export MAVEN_OPTS="-Xmx1024m -XX:MaxPermSize=256m"
```

2. Use parallel builds:

```
mvn -T 1C clean install
```

6. Debugging Maven Issues

- Use the -X flag for debugging:

```
mvn clean install -X
```

- Check logs under target/ directory for more insights.