

Plugins

Thursday, June 7, 2018 5:55 PM

Plugin Management :

→ Maven - Plugin execution framework
- Task is done by Plugins

→ Plugin - Goals

- Syntax for execution

└ % mvn [Plugin-name]:[goal-name]
└ % mvn compiler:compiler

Plugin Types

└ Build - Configured in <build/> element
└ Reporting - Configured in <reporting/> element

↓
Site generation

✓ → Plugins → POM.XML in Plugins element

Look Flow in Maven

- └ Multiple goals for each Plugin
- └ Phase element
 - └ Define phase from where plugin should start processing
- └ Configure tasks to be executed
 - └ By binding them to goals of plugin
- └ Rest will be done by Maven.

→ How to specify a Plugin?

<build>
1 ... plugins should be

`<build>`
...
`</build>` } All the plugins should be defined inside the build element

```
<build>
  <plugins>
    <plugin>
      # details of the first plugin
    </plugin>
    <plugin>
      # details of the second plugin
    </plugin>
  </plugins>
</build>
```

`<plugin>`
what is the plugin
how to use the plugin
when to use the plugin
`</plugin>`

What is the plugin → GAV

```
<groupId> testplugin </groupId>
<artifactId> demoplugin </artifactId>
<version> value </version>
```

`<executions>` `<execution>`
when to use the plugin
how to use the plugin `</execution>`

`</executions>`

... the plugin

Maven will call this plugin ... end of

</execution>

When to use the plugin

<execution>

<phase>

compile

</phase>

Maven will
call this plugin
at the end of
this phase

<goals>

<goal> test </goal>

</goals>

How to use the plugin

</execution>

How to use the plugin

<configuration>

Details of what
exactly it has to
do is given in this

</configuration>

same syntax only the
values differ from plugin to plugin

Examples

→ XML Command

└ Config Details

└ What Command?

└ Parameters you want to pass

→ Script

└ What are the parameters

→ Connecting two application servers

└ What is the server?

└ What is the username & password?

└ How to start

- What is the use case
- How to start

→ Structure is always the same

Running a operating system based Command

- Plugin: `exec-maven-plugin`

Every plugin has a default goal

- If the goals are not specified the default goal is run

- But you have to specify the default goal