

Project : apache

We introduce some terms for avoiding confusions.

- **Explicit version declaration in Maven:** a library version is declared as a hard-coded value in version tag, e.g., <version>2.5</version>.
- **Implicit version declaration in Maven:** a library version is declared as a referenced value in version tag through a declared property, e.g., <version>\${guava.version}</version>.
- **Inconsistent library:** a library whose multiple versions are used in multiple modules of a project; e.g., module A declares guava 2.5 but module B declares guava 2.6.
- **False consistent library:** a library that is used in multiple modules of a project with the same version declared separately; e.g., module A declares guava 2.5 explicitly and module B declares guava 2.5 explicitly. Therefore, such a consistency is likely to turn into inconsistency when there is an incomplete library update.

I. Overview

Your project have 1 inconsistent library and 10 false consistent libraries.

II. Inconsistent Libraries

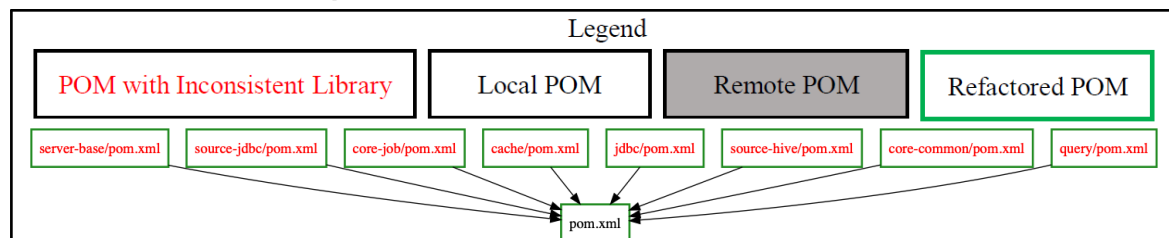
1. org.mockito:mockito-core

The distinct versions are 2.7.14, 1.10.19.

Index	Module	Type	Property	Version
1	server-base	implicit	mockito.version	2.7.14
2	core-common	implicit	mockito.version	2.7.14
3	source-jdbc	explicit	NA	1.10.19
4	source-hive	explicit	NA	1.10.19
5	jdbc	implicit	mockito.version	2.7.14
6	query	implicit	mockito.version	2.7.14
7	cache	implicit	mockito.version	2.7.14
8	core-job	implicit	mockito.version	2.7.14

Harmonization Recommendation

Inheritance Relationship of POMs in All Related Modules



The pom in red references the property value declared in the pom in green.

The inconsistent library versions in Modules 1-8 are harmonized into version 3.2.0.

Harmonization Effort

Index	Module	NA (NAC)	NDA (NDAC)	NMA (NMAC)
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1	server-base	10(15)	0(0)	10(15)
2	core-common	1(15)	0(0)	1(15)
3	source-jdbc	0	0	0
4	source-hive	0	0	0
5	jdbc	8(18)	0(0)	8(18)
6	query	0	0	0
7	cache	0	0	0
8	core-job	0	0	0

NA (Number of APIs): the number of called library APIs in one module.

NAC (Number of API Calls): the number of library API calls in one module.

NDA (Number of Deleted APIs): the number of called library APIs that are deleted in the recommended library version.

NDAC (Number of Deleted API Calls): the number of library API calls that are deleted in the recommended library version.

NMA (Number of Modified APIs): the number of called library APIs whose call graphs (A control flow graph which represents calling relationships between subroutines in the library) are modified in the recommended library version.

NMAC (Number of Modified API Calls): the number of library API calls to modified library APIs.

Files related:

Module	File	Type	API
server-base	server-base/src/test/java/org/apache/kylin/rest/job/StorageCleanupJobTest.java	Modified	org.mockito.ArgumentCaptor.getAllValues()
			org.mockito.ArgumentCaptor.capture()
			org.mockito.Mockito.times(int)
			org.mockito.ArgumentCaptor.forClass(java.lang.Class)
			org.mockito.Mockito.mock(java.lang.Class)
			org.mockito.ArgumentMatchers.eq(boolean)
	server-base/src/test/java/org/apache/kylin/rest/job/StorageCleanJobHbaseUtilTest.java	Modified	org.mockito.ArgumentCaptor.getAllValues()
			org.mockito.ArgumentCaptor.capture()
			org.mockito.ArgumentCaptor.forClass(java.lang.Class)
			org.mockito.Mockito.mock(java.lang.Class)
core-common	core-common/src/test/java/org/apache/kylin/common/metrics/metrics2/HadoopMetrics2ReporterTest.java	Modified	org.mockito.Mockito.mock(java.lang.Class)
jdbc	jdbc/src/test/java/org/apache/kylin/jdbc/KylinConnectionTest.java	Modified	org.mockito.ArgumentMatchers.any()
			org.mockito.Mockito.doAnswer(org.mockito.stubbing.Answer)
			org.mockito.ArgumentMatchers.any(java.lang.Class)
			org.mockito.ArgumentMatchers.anyString()
			org.mockito.ArgumentMatchers.argThat(org.mockito.ArgumentMatcher)

	jdbc/src/test/java/org/apache/kylin/jdbc/KylinClientTest.java	Modified	org.mockito.Mockito.mock(java.lang.Class)
			org.mockito.ArgumentMatchers.any(java.lang.Class)
			org.mockito.Mockito.mock(java.lang.Class)

The inconsistent library versions in Modules 1-8 are harmonized into version 3.1.0.

Harmonization Effort

Index	Module	NA (NAC)	NDA (NDAC)	NMA (NMAC)
1	server-base	10(15)	0(0)	10(15)
2	core-common	1(15)	0(0)	1(15)
3	source-jdbc	0	0	0
4	source-hive	0	0	0
5	jdbc	8(18)	0(0)	8(18)
6	query	0	0	0
7	cache	0	0	0
8	core-job	0	0	0

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NMAC (Number of Modified API Calls): the number of library API calls to modified library APIs.

Files related:

Module	File	Type	API
server-base	server-base/src/test/java/org/apache/kylin/rest/job/StorageCleanupJobTest.java	Modified	org.mockito.ArgumentCaptor.getAllValues()
			org.mockito.ArgumentCaptor.capture()
			org.mockito.Mockito.times(int)
			org.mockito.ArgumentCaptor.forClass(java.lang.Class)
			org.mockito.Mockito.mock(java.lang.Class)
			org.mockito.ArgumentMatchers.eq(boolean)
	server-base/src/test/java/org/apache/kylin/rest/job/StorageCleanJobHbaseUtilTest.java	Modified	org.mockito.ArgumentCaptor.getAllValues()
			org.mockito.ArgumentCaptor.capture()
			org.mockito.ArgumentCaptor.forClass(java.lang.Class)
			org.mockito.Mockito.mock(java.lang.Class)

core-common	core-common/src/test/java/org/apache/kylin/common/metrics/metrics2/HadoopMetrics2ReporterTest.java	Modified	org.mockito.Mockito.mock(java.lang.Class)
jdbc	jdbc/src/test/java/org/apache/kylin/jdbc/KylinConnectionTest.java	Modified	org.mockito.ArgumentMatchers.any()
			org.mockito.Mockito.doAnswer(org.mockito.stubbing.Answer)
			org.mockito.ArgumentMatchers.any(java.lang.Class)
			org.mockito.ArgumentMatchers.anyString()
			org.mockito.ArgumentMatchers.argThat(org.mockito.ArgumentMatcher)
			org.mockito.Mockito.mock(java.lang.Class)
	jdbc/src/test/java/org/apache/kylin/jdbc/KylinClientTest.java	Modified	org.mockito.ArgumentMatchers.any(java.lang.Class)
			org.mockito.Mockito.mock(java.lang.Class)

The inconsistent library versions in Modules 1-8 are harmonized into version 3.2.4.

Harmonization Effort

Index	Module	NA (NAC)	NDA (NDAC)	NMA (NMAC)
1	server-base	10(15)	0(0)	5(10)
2	core-common	1(15)	0(0)	1(15)
3	source-jdbc	0	0	0
4	source-hive	0	0	0
5	jdbc	8(18)	0(0)	3(3)
6	query	0	0	0
7	cache	0	0	0
8	core-job	0	0	0

NA (Number of APIs): the number of called library APIs in one module.

NAC (Number of API Calls): the number of library API calls in one module.

NDA (Number of Deleted APIs): the number of called library APIs that are deleted in the recommended library version.

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Files related:

Module	File	Type	API
server-base	server-base/src/test/java/org/apache/kylin/rest/job/StorageCleanupJobTest.java	Modified	org.mockito.ArgumentCaptor.getAllValues()
			org.mockito.Mockito.times(int)
			org.mockito.Mockito.mock(java.lang.Class)
	server-base/src/test/java/org/apache/kylin/rest/job/StorageCleanJobHbaseUtilTest.java	Modified	org.mockito.ArgumentCaptor.getAllValues()

			org.mockito.Mockito.mock(java.lang.Class)
core-common	core-common/src/test/java/org/apache/kylin/common/metrics/metrics2/HadoopMetrics2ReporterTest.java	Modified	org.mockito.Mockito.mock(java.lang.Class)
jdbc	jdbc/src/test/java/org/apache/kylin/jdbc/KylinConnectionTest.java	Modified	org.mockito.Mockito.doAnswer(org.mockito.stubbing.Answer)
			org.mockito.Mockito.mock(java.lang.Class)
	jdbc/src/test/java/org/apache/kylin/jdbc/KylinClientTest.java	Modified	org.mockito.Mockito.mock(java.lang.Class)

The inconsistent library versions in Modules 1-8 are harmonized into version 2.7.14.

Harmonization Effort

Index	Module	NA (NAC)	NDA (NDAC)	NMA (NMAC)
1	server-base	10(15)	0(0)	0(0)
2	core-common	1(15)	0(0)	0(0)
3	source-jdbc	0	0	0
4	source-hive	0	0	0
5	jdbc	8(18)	0(0)	0(0)
6	query	0	0	0
7	cache	0	0	0
8	core-job	0	0	0

NA (Number of APIs): the number of called library APIs in one module.

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III. False Consistent Libraries

1. org.apache.kylin:kylin-core-common

Index	Module	Type	Property	Version
1	core-metadata	implicit	project.version	
2	core-cube	implicit	project.version	
3	kylin-it	implicit	project.version	
4	server-base	implicit	project.version	
5	core-dictionary	implicit	project.version	
6	source-jdbc	implicit	project.version	
7	stream-coordinator	implicit	project.version	
8	engine-mr	implicit	project.version	

9	source-hive	implicit	project.version	3.1.0-SNAPSHOT
10	core-storage	implicit	project.version	
11	source-kafka	implicit	project.version	
12	stream-core	implicit	project.parent.version	
13	stream-source-kafka	implicit	project.version	
14	engine-flink	implicit	project.version	
15	query	implicit	project.version	
16	assembly	implicit	project.version	
17	tool	implicit	project.version	
18	datasource-sdk	implicit	project.version	
19	server	implicit	project.version	
20	cache	implicit	project.version	
21	core-job	implicit	project.version	
22	engine-spark	implicit	project.version	
23	storage-hbase	implicit	project.version	

2. org.apache.kylin:kylin-core-common

Index	Module	Type	Property	Version
1	core-metadata	implicit	project.version	3.1.0-SNAPSHOT
2	stream-coordinator	implicit	project.parent.version	
3	source-kafka	implicit	project.version	
4	stream-core	implicit	project.version	
5	stream-source-kafka	implicit	project.parent.version	
6	stream-receiver	implicit	project.version	
7	storage-stream	implicit	project.parent.version	
8	cache	implicit	project.version	
9	core-metrics	implicit	project.version	

3. org.apache.kylin:kylin-core-metadata

Index	Module	Type	Property	Version
1	core-cube	implicit	project.version	3.1.0-SNAPSHOT
2	core-dictionary	implicit	project.version	
3	stream-coordinator	implicit	project.parent.version	
4	stream-core	implicit	project.version	

5	stream-source-kafka	implicit	project.parent.version	
6	stream-receiver	implicit	project.version	
7	storage-stream	implicit	project.parent.version	
8	datasource-sdk	implicit	project.version	

4. org.apache.kylin:kylin-core-dictionary

Index	Module	Type	Property	Version
1	core-cube	implicit	project.version	3.1.0-SNAPSHOT
2	stream-core	implicit	project.version	
3	stream-source-kafka	implicit	project.parent.version	
4	stream-receiver	implicit	project.version	

5. org.apache.kylin:kylin-source-hive

Index	Module	Type	Property	Version
1	metrics-reporter-hive	implicit	project.version	3.1.0-SNAPSHOT
2	kylin-it	implicit	project.version	
3	server-base	implicit	project.version	
4	source-jdbc	implicit	project.version	
5	source-kafka	implicit	project.version	
6	stream-source-kafka	implicit	project.parent.version	
7	assembly	implicit	project.version	
8	tool	implicit	project.version	

6. org.apache.kylin:kylin-core-storage

Index	Module	Type	Property	Version
1	kylin-it	implicit	project.version	3.1.0-SNAPSHOT
2	engine-mr	implicit	project.version	
3	query	implicit	project.version	
4	storage-stream	implicit	project.parent.version	

7. org.apache.kylin:kylin-storage-hbase

Index	Module	Type	Property	Version
1	kylin-it	implicit	project.version	
2	server-base	implicit	project.version	

3	stream-coordinator	implicit	project.parent.version	3.1.0-SNAPSHOT
4	stream-receiver	implicit	project.version	
5	storage-stream	implicit	project.parent.version	
6	assembly	implicit	project.version	
7	tool	implicit	project.version	

8. org.apache.kylin:kylin-stream-coordinator

Index	Module	Type	Property	Version
1	server-base	implicit	project.version	3.1.0-SNAPSHOT
2	stream-receiver	implicit	project.version	
3	storage-stream	implicit	project.parent.version	

9. org.apache.kylin:kylin-stream-core

Index	Module	Type	Property	Version
1	stream-coordinator	implicit	project.parent.version	3.1.0-SNAPSHOT
2	engine-mr	implicit	project.version	
3	stream-source-kafka	implicit	project.parent.version	
4	stream-receiver	implicit	project.version	
5	storage-stream	implicit	project.parent.version	

10. org.reflections:reflections

Index	Module	Type	Property	Version
1	engine-flink	explicit	NA	0.9.10
2	engine-spark	implicit	reflections.version	