

Arquitectura

Tecnologías de desarrollo en la nube

IES Ramón del Valle Inclán

Project: 2017-1-ES01-KA202-038471

Cloud computing in the European Schools



Co-funded by the
Erasmus+ Programme
of the European Union



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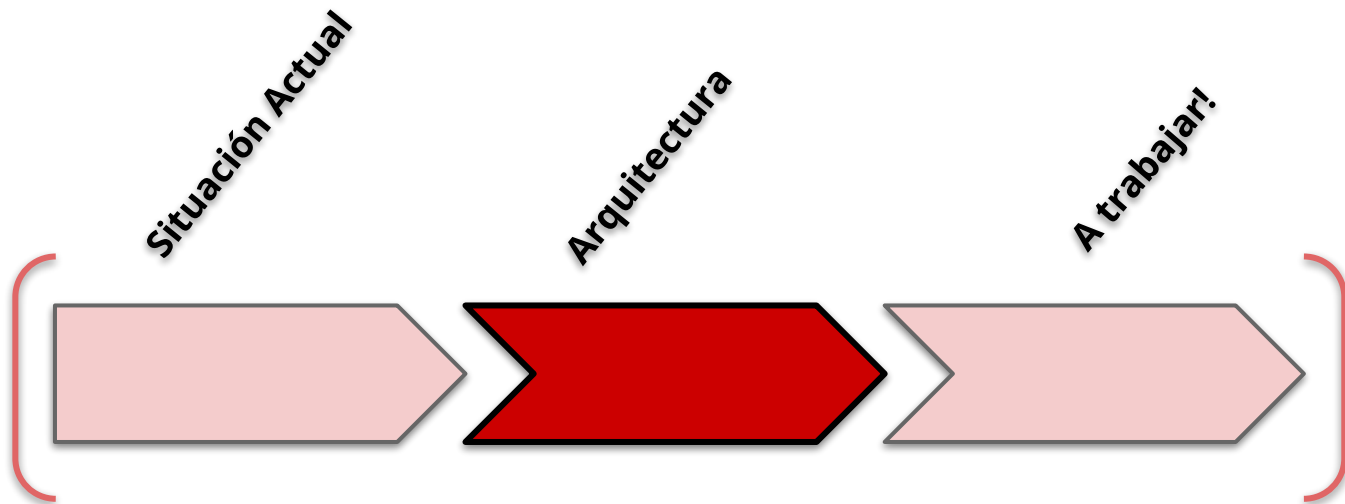
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Analista programador



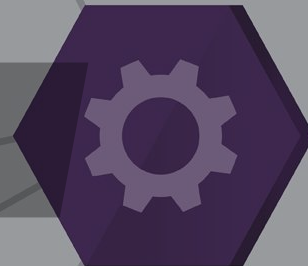
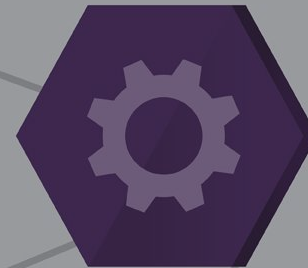
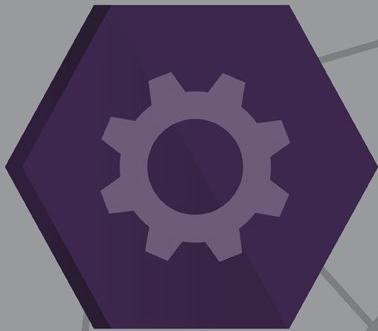
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1. **Introducción**
2. **Microservicios**
3. **Api Manager**
4. **Message Broker**
5. **Gestión dependencias**

2. Microservicios

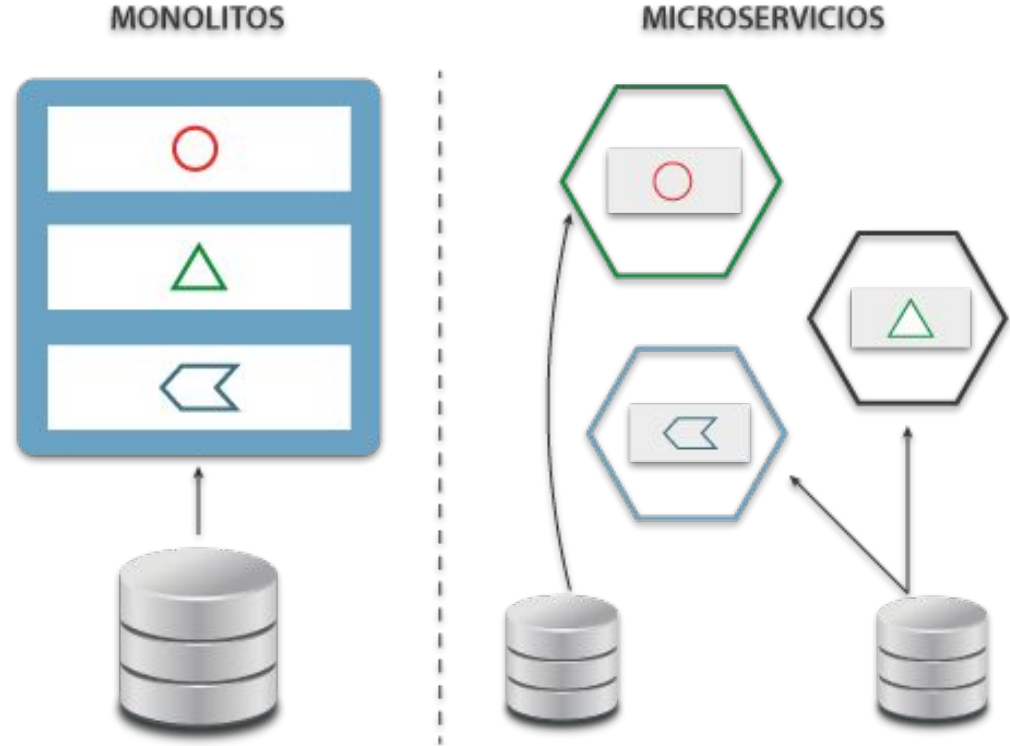


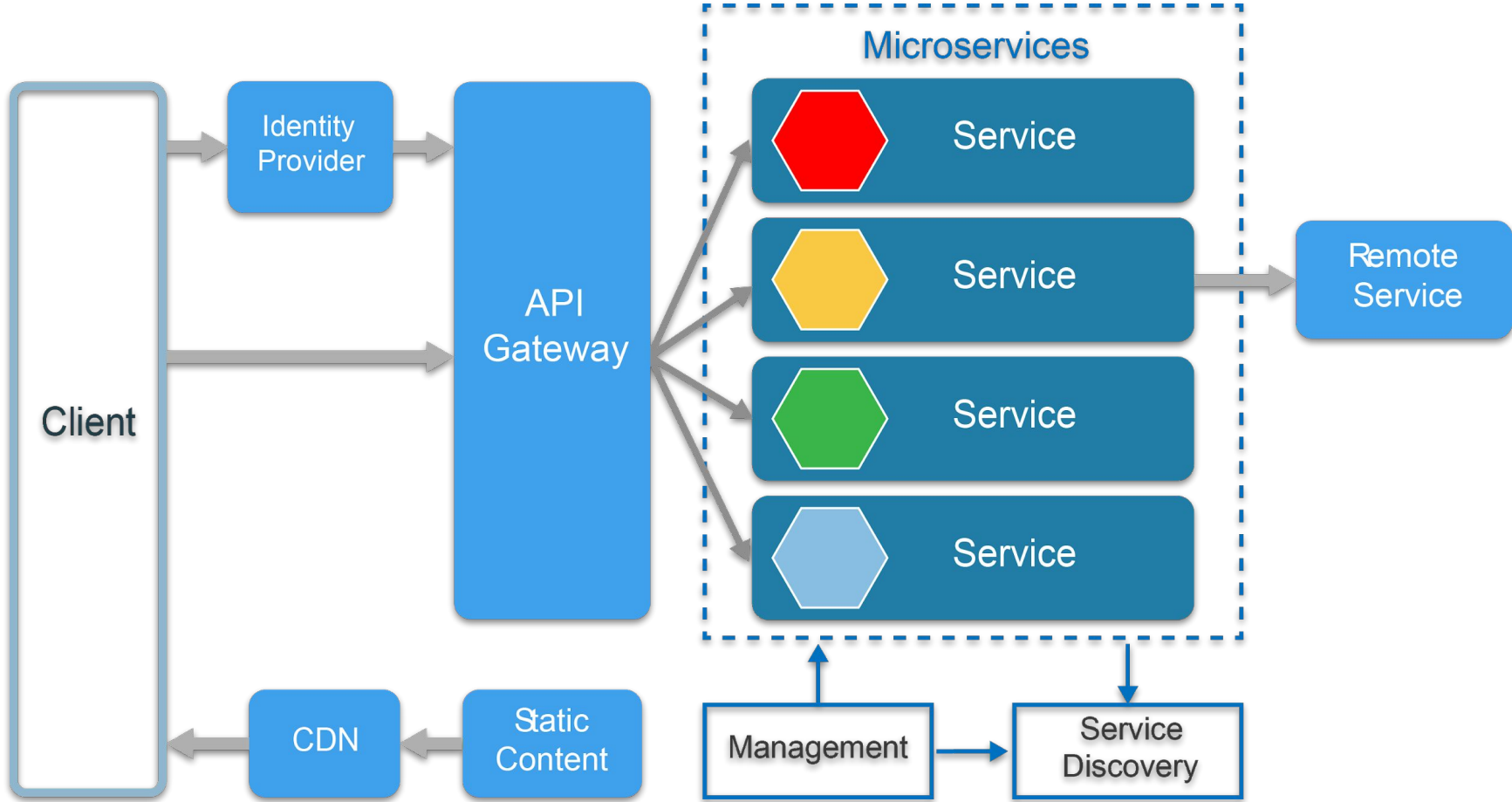
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Propuesta Formativa

2019 Profile Software Services

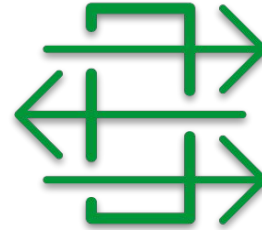
1. Desacoplamiento
2. Servicio por funcionalidad/Caso de uso
3. Mejora el rendimiento
4. Favorece el escalado horizontal
5. Reducción del impacto provocado por cambios en el desarrollo







Service Discovery



Api Gateway

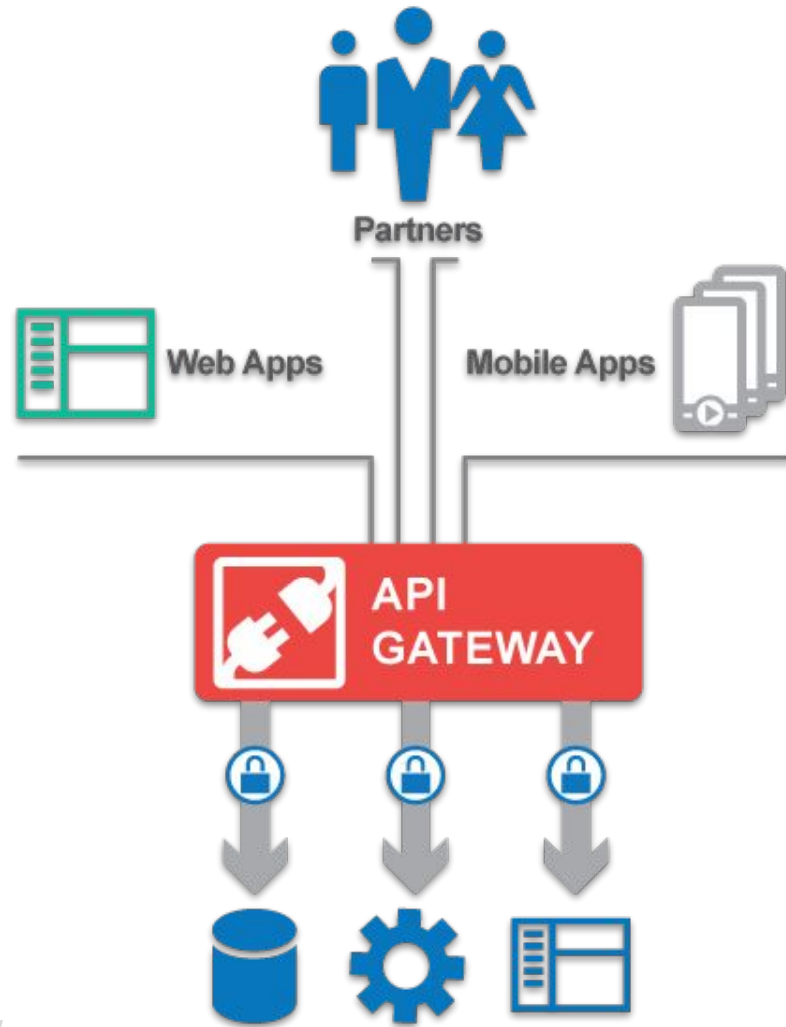


Cloud Config

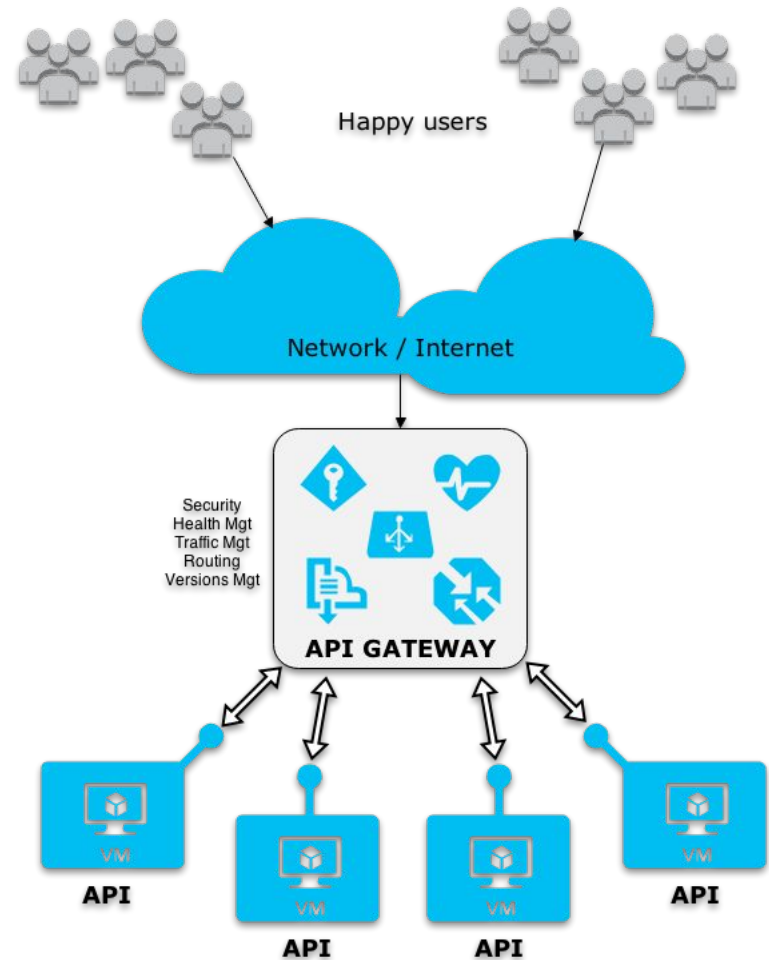


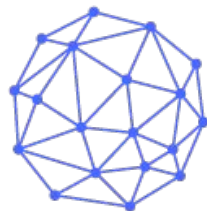
3. Api Manager





1. Seguridad
 - a. Acceso público
 - b. Acceso privado
2. Control y gestión del estado de las apis
3. Enrutamiento
4. Versionado
5. Gestión del tráfico
 - a. Monetización
 - i. "API's as a Service"
 - b. Políticas de uso

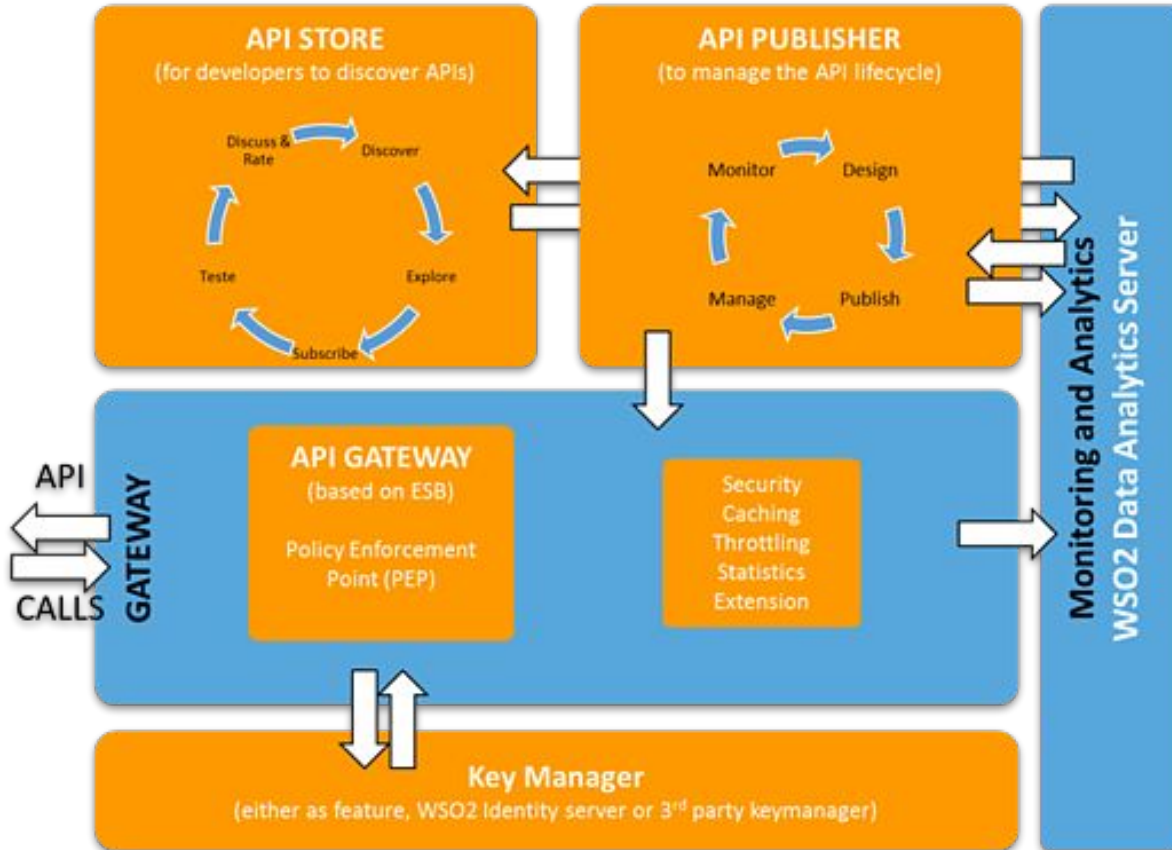




IBM apiconnect



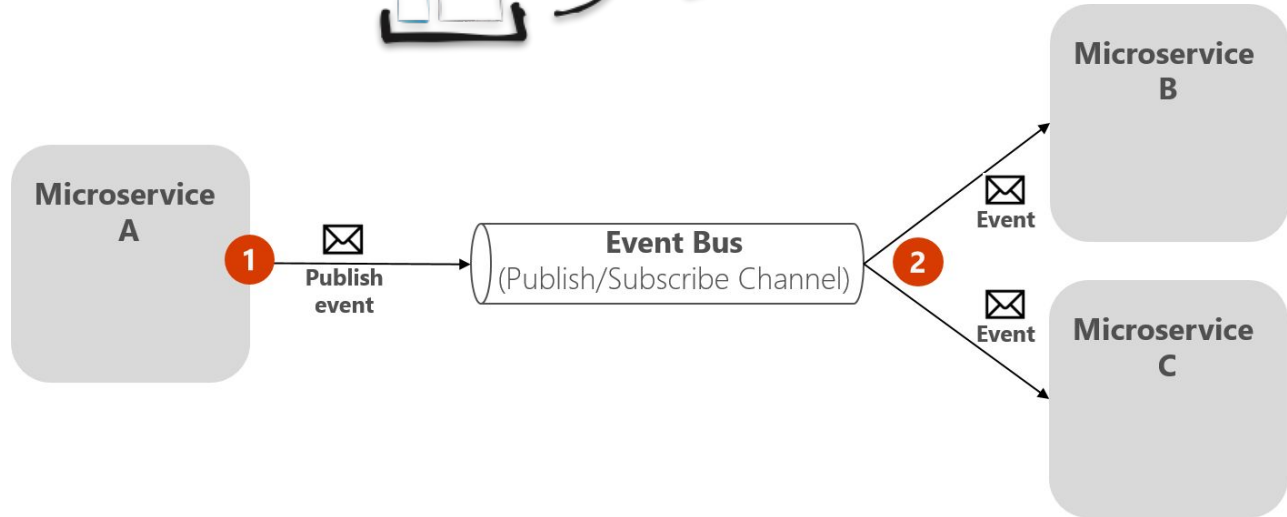
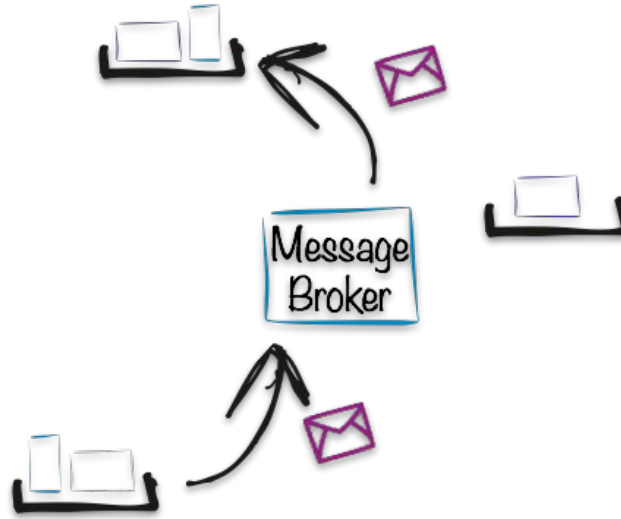
API Manager Components



4. Message Broker



1. Orientado a mensajes
2. Productor - Consumidor
3. Asincronicidad
4. Enrutamiento
5. Transformación





5. Gestión de dependencias



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Propuesta Formativa

2019 Profile Software Services

1. Construcción y gestión de proyectos
2. Gran cantidad de plugins
3. Información del proyecto centralizada
4. Distribución de librerías
5. Multi-plataforma
6. Modularización



1. Construcción en base a los conceptos de Maven
2. Groovy en vez de XML
3. Más velocidad en las builds
4. Reportes de builds en la nube
5. Soporte para Kotlin



```
<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/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>baeldung</groupId>
  <artifactId>mavenExample</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <description>Maven example</description>

  <dependencies>
    <dependency>
      <groupId>junit</groupId>
      <artifactId>junit</artifactId>
      <version>4.12</version>
      <scope>test</scope>
    </dependency>
  </dependencies>

  <build>
    <plugins>
      <plugin>
        <groupId>org.apache.maven.plugins</groupId>
        <artifactId>maven-dependency-plugin</artifactId>
        <executions>
          <execution>
            <id>copy-dependencies</id>
            <phase>package</phase>
            <goals>
              <goal>copy-dependencies</goal>
            </goals>
            <configuration>
              <outputDirectory>target/dependencies
            </outputDirectory>
            </configuration>
          </execution>
        </executions>
      </plugin>
    </plugins>
  </build>
</project>
```

```
apply plugin: 'java'

repositories {
    mavenCentral()
}

jar {
    baseName = 'gradleExample'
    version = '0.0.1-SNAPSHOT'
}

dependencies {
    testCompile 'junit:junit:4.12'
}

task copyDependencies(type: Copy) {
    from configurations.compile
    into 'dependencies'
}
```



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