BELAJAR MAVEN

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1. Pendahuluan #

Maven adalah

2. Install Maven

- Install di Windows

Install di windows

- Install di linux(Via command)

Untuk install di linux dgn perintah

$ sudo apt install maven (apt)

3. Perintah Dasar Maven

- Maven help

$ mvn –help

usage: mvn [options] [<goal(s)>] [<phase(s)>]

Options:

-am,--also-make If project list is specified, also

build projects required by the

list

-amd,--also-make-dependents If project list is specified, also

build projects that depend on

projects on the list

-B,--batch-mode Run in non-interactive (batch)

mode (disables output color)

-b,--builder <arg> The id of the build strategy to

use

-C,--strict-checksums Fail the build if checksums don't

...

- Cek versi

$ mvn -–version

Apache Maven 3.6.3

Maven home: /usr/share/maven

Java version: 17.0.7, vendor: Private Build, runtime: /usr/lib/jvm/java-17-openjdk-amd64

Default locale: en\_US, platform encoding: UTF-8

OS name: "linux", version: "5.15.0-75-generic", arch: "amd64", family: "unix"

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4. Membuat Projek

Membuat project mengguanakan maven, dengan perintah

$ mvn archetype:generate

[INFO] Scanning for projects...

[INFO]

[INFO] ------------------< org.apache.maven:standalone-pom >-------------------

[INFO] Building Maven Stub Project (No POM) 1

[INFO] --------------------------------[ pom ]---------------------------------

[INFO]

[INFO] >>> maven-archetype-plugin:3.2.1:generate (default-cli) > generate-sources @ standalone-pom >>>

[INFO]

[INFO] <<< maven-archetype-plugin:3.2.1:generate (default-cli) < generate-sources @ standalone-pom <<<

[INFO]

[INFO]

[INFO] --- maven-archetype-plugin:3.2.1:generate (default-cli) @ standalone-pom ---

[INFO] Generating project in Interactive mode

...

Choose a number or apply filter (format: [groupId:]artifactId, case sensitive contains): 2060:

lalu masukan jenis tipe pembuatan projek, umumnya mengguanakan quickstart

$ maven-archetype-quickstart

1: remote -> com.github.ywchang:maven-archetype-quickstart (Provide up-to-date java quickstart archetype)

2: remote -> com.haoxuer.maven.archetype:maven-archetype-quickstart (a simple maven archetype)

3: remote -> org.apache.maven.archetypes:maven-archetype-quickstart (An archetype which contains a sample Maven project.)

lalu pilih, untuk aman pilih noemr 3

$ 3

Choose org.apache.maven.archetypes:maven-archetype-quickstart version:

1: 1.0-alpha-1

2: 1.0-alpha-2

3: 1.0-alpha-3

4: 1.0-alpha-4

5: 1.0

6: 1.1

7: 1.3

8: 1.4

Choose a number: 8:

lalu pilih versi, 8(Terbaru)

$ 8

Define value for property 'groupId': contoh-projek-maven

Define value for property 'artifactId': contoh-projek-maven

Define value for property 'version' 1.0-SNAPSHOT: :

Define value for property 'package' contoh-projek-maven: : com.contohprojekmaven.main

Confirm properties configuration:

groupId: contoh-projek-maven

artifactId: contoh-projek-maven

version: 1.0-SNAPSHOT

package: com.contohprojekmaven.main

Y: : y

Lalu masukan groupId, artifacId, dll lalu tekan y

- groupId : untuk pembeda pada sebuah projek.

- artifactId : nama folder

- version : versi projek

- package : nama package projek

Hasil projek yang dibuat

$ tree contoh-projek-maven/

contoh-projek-maven/

├── pom.xml

└── src

├── main

│   └── java

│   └── com

│   └── contohprojekmaven

│   └── main

│   └── App.java

└── test

└── java

└── com

└── contohprojekmaven

└── main

└── AppTest.java

5. Perintah Untuk Projek Maven

- Kompilasi projek

$ mvn compile

- Bersihkan hasil build projek

$ mvn clean

- Install package pada projek

$ mvn install

- Jalankan test pada projek

$ mvn test