Subject:

- Installasi Maven
- Build Tools

Objective:

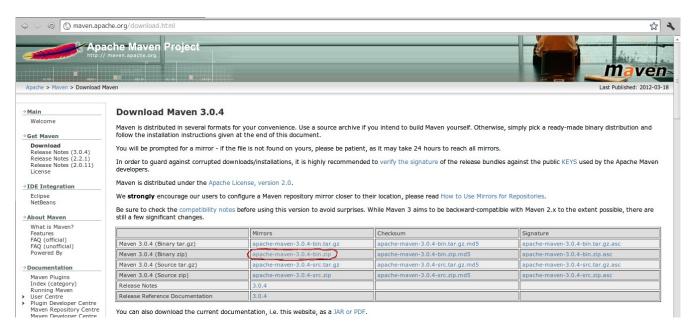
- · Memahami Maven
- Memahami Build Tools

Tugas Praktikum Sesi 1

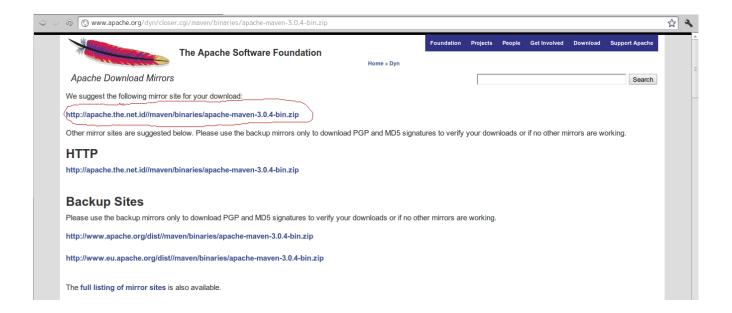
Latihan 1 : Installasi Maven

Langkah - Langkah Installasi Maven :

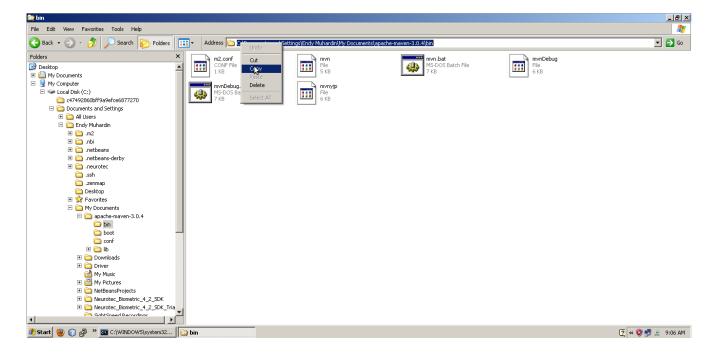
 Langkah pertama adalah download maven terlebih dahulu disini : http://maven.apache.org/download.html, download file Maven 3.0.4 (Binary zip) yang ada di kolom mirror => klik.



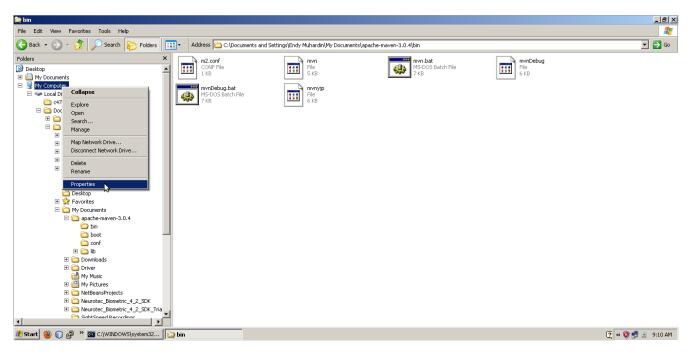
- 2. Setelah file Maven 3.0.4 (Binary zip) di klik, maka keluar browse untuk mendownload file Maven 3.0.4 (Binary zip).
- 3. Setelah keluar browse untuk mendownload file Maven 3.0.4 (Binary zip), lalu klik link: http://apache.the.net.id//maven/binaries/apache-maven-3.0.4-bin.zip . Maka file Maven 3.0.4 (Binary zip) terdownload.

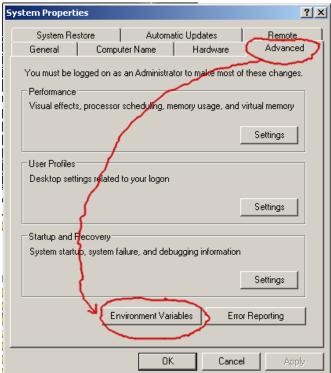


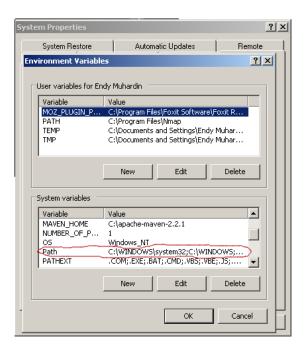
- 4. Setelah proses download selesai, selanjutnya extract file yang sudah anda download.
- 5. Setelah file Maven di extract, lalu masuk ke folder maven hasil extract dan masuk ke folder bin : \apache-maven-3.0.4\bin.
- 6. Setelah anda masuk folder bin, copy address bar ke dalam path dengan cara :
 - copy address bar, misalnya : <u>C:\Documents and Settings\Endy Muhardin\My Documents\apache-maven-3.0.4\bin</u>.



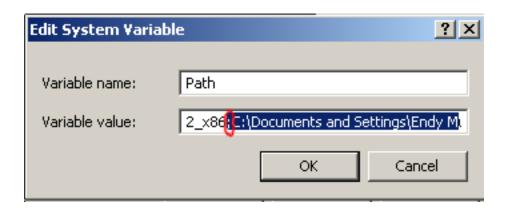
Setelah address bar di copy, Klik kanan my computer => Properties => pilih tab Advanced => Klik Environment Variables (keluar lookup Environment Variables) => Klik 2x "Path" yang ada pada kolom System Variables (keluar lookup edit system variable).







 Edit variable value dengan cara tidak menghapus variable value yang ada, lalu tambahkan tanda penghubung (;) titik koma pada baris paling belakang, lalu paste address bar yang anda copy tadi di belakang (;).



- Setelah address bar sudah di copy pada "Path", Lalu Klik OK (edit system variable) => Klik OK (environment variables) => Klik OK (System Properties) => Restart komputer anda.
- 7. Setelah komputer sudah hidup kembali, buka comand prompt, lalu ketik : mvn clean install, jika berhasil akan keluar seperti dibawah ini :

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.
C:\Documents and Settings\Endy Muhardin>mvn clean install
[INFO] Scanning for projects...
[INFO]
[INFO] BUILD FAILURE
[[NF0]
[INFO] ------
[INFO] Total time: 0.364s
[INFO] Finished at: Fri Mar 16 10:59:02 ICT 2012
[INFO] Final Memory: 1M/7M
[ERROR] To see the full stack trace of the errors, re-run Maven with the -e swit
ch.
[ERROR] Re-run Maven using the -X switch to enable full debug logging.
[ERROR]
[ERROR] For more information about the errors and possible solutions, please rea
d the following articles:
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MissingProject
Exception
C:\Documents and Settings\Endy Muhardin>
```

8. Jika hasil seperti gambar di atas keluar, maka Installasi Maven selesai.

<u>Latihan 2 : Build Tools (pembuatan project sederhana)</u>

1. Ketikkan perintah dibawah ini untuk membuat sebuah project dari archetype :

```
mvn archetype:create -DgroupId=com.artivisi.project
-DartifactId=my-app
```

2. Jika berhasil akan muncul seperti di bawah ini :

```
C:\Documents and Settings\Endy Muhardin>mvn archetype:create
-DgroupId=com.artivisi.project -DartifactId=my-app
[INFO] Scanning for projects...
[INFO]
[INFO]
[INFO] Building Maven Stub Project (No POM) 1
[INFO1
[INFO]
[INFO] --- maven-archetype-plugin:2.1:create (default-cli) @ standalone-pom --- [WARNING] This goal is deprecated. Please use mvn archetype:generate instead
[INFO] Defaulting package to group ID: com.artivisi.project
Downloading:
http://repo.maven.apache.org/maven2/org/apache/maven/archetypes/mav
en-archetype-quickstart/maven-metadata.xml
Downloaded: http://repo.maven.apache.org/maven2/org/apache/maven/archetypes/maven-
archetype-quickstart/maven-metadata.xml (531 B at 0.2 KB/sec)
[INFO]
[INFO] Using following parameters for creating project from Old (1.x)
Archetype:maven-archetype quickstart:RELEASE
[INFO]
[INFO] Parameter: groupId, Value: com.artivisi.project
[INFO] Parameter: packageName, Value: com.artivisi.project
[INFO] Parameter: package, Value: com.artivisi.project
[INFO] Parameter: artifactId, Value: my-app
[INFO] Parameter: basedir, Value: C:\Documents and Settings\Endy Muhardin [INFO] Parameter: version, Value: 1.0-SNAPSHOT
```

3. Jika tidak ada kesalahan, maka pada komputer akan terbuat sebuah direktori dengan struktur seperti gambar dibawah ini :

4. Untuk menjalankannya, masuk ke direktori my-app dulu, dengan cara seperti di bawah ini :

```
cd my-app
```

5. lalu jalankan perintah seperti dibawah ini, untuk melakukan clean install :

```
mvn clean install
```

6. Jika berhasil akan muncul seperti di bawah ini :

7. Setelah proses clean install berhasil, selanjutnya ketik perintah di bawah ini :

```
mvn compile; mvn exec:java -
Dexec.mainClass="com.artivisi.project.App"
```

8. Jika berhasil, maka akan muncul seperti dibawah ini :

```
G:\Documents and Settings\Endy Muhardin\my—app>mvn exec:java —Dexec.mainClass="c
om.artivisi.project.App"
[INFO] Scanning for projects...
[INFO]
[INFO]
[INFO] Building my-app 1.0-SNAPSHOT
[INFO]
[INFO]
[INFO] >>> exec-maven-plugin:1.2.1:java (default-cli> @ my-app >>>
[INFO] <<< exec-maven-plugin:1.2.1:java (default-cli) @ my-app <<<
[INFO]
[INFO] --- exec-maven-plugin:1.2.1:java (default-cli) @ my-app ---
Hello World!
[INFO] ------
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 1.493s
[INFO] Finished at: Mon Mar 19 09:58:42 ICT 2012
[INFO] Final Memory: 4M/11M
[[NFO]
 :\Documents and Settings\Endy Muhardin\my-app>
```