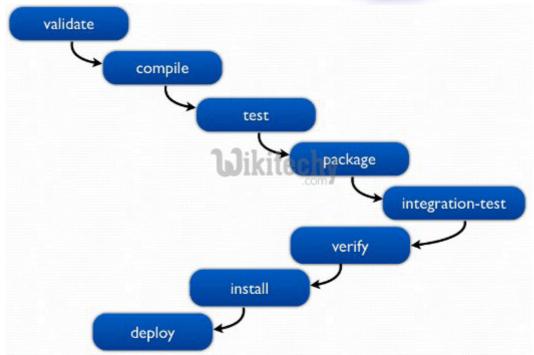


1. maven lifecycle





2. logging basics

			x: Visible	е			
	FATAL	ERROR	WARN	INFO	DEBUG	TRACE	ALL
OFF							
FATAL	x						
ERROR	x	x					
WARN	x	x	x				
INFO	x	x	x	x			
DEBUG	x	x	x	x	x		
TRACE	x	x	x	x	x	x	
ALL	x	x	x	x	x	x	X

Maven

=====

Common problems and activities

```
=> How to find dependencies of one jar to another?
                 versioning issues
        => Project structure, how to standerized project st
        => building , publishing and deployemnt?
        Maven solve all above problem!
Maven hello World
Donwload maven http://maven.apache.org/download.cgi
set M2 HOME
C:\tools\maven3.1
PATH
%M2_HOME%\bin
build life cycle:
        validate ->
                 compile ->
                         test->
                                  package->
                                          install (to local repo)->
                                                   deploy (does not deploy to server, but to remote repo)
Create an core java project
Checking installation
        mvn -version
        reposotories:
                 Local, Remote
        Command:
        mvn archetype:generate
        choose a number? 106 (go with it)
                 Different archetype?model how u want to structure your probject!
        Version (version of archtype?)
                 choose latest
        GroupId?
                 Similer to package com.demo
        artififact id?
                 name of application
                 MavanTestApp (name of jar)
                 version no?
        After crreating project
```

=> mutiple jar , jar hell

```
mvn compile ( it also run junit test cases) mvn package
```

and printing exception message is not good?

```
Maven project in one go:
     mvn archetype:create -DarchetypeGroupId=org.apache.maven.archetypes -DgroupId=com.demo.works -
                              DartifactId=SampleProject
             => it will create an class and test case
             => then compile:mvn compile
     update POM telling to use java 1.5
     <build>
             <plugins>
             <plugin>
                      <artifactId>maven-compiler-plugin</artifactId>
                              <configuration>
                              <source>1.8</source>
                          <target>1.8</target>
                         </configuration>
             </plugin>
     </plugins>
     </build>
     then run test case;
     mvn test
     convert this project to eclipse project
     mvn eclipse:eclipse
     Now browse this project in ide
     problem:
     unbound classpath repo error!: eclipse dont know maven repo
     M2_REPO find .m2 dir
     m2 eclipse plugin:
     logging basics
Logging?
     => logging is essential for debugging and for maintaing our application
     => We must know what is going in our application, specially when error come SOP
```

Writing system.out.println(" ");//Should not be used for debugging Why? as it is very hard to remove those unnessary Sop once coding is done It may produce serious problem in production enveronment headach for admin peoples => Real advantage of logging is that it can be enable/disable and debugging messages can be directed to the file Logging framewrok? Log 4j log back Commons logging java.util.logging => most commonly used one is log4j => we should not fix ourself with any one specific logging framework as we have to change as required.... go for facade ...use Simple Logging Facade for Java SLF4j => The Simple Logging Facade for Java or (SLF4J) serves as a simple facade or abstraction for various logging frameworks, e.g. java.util.logging, log4j and logback, allowing the end user to plug in the desired logging framework at deployment time Levels of logging ALL---->log everything **DEBUG INFO** WARN **ERROR FATAL** OFF---->Log nothing maven dependencies: <dependency> <groupId>org.slf4j</groupId> <artifactId>slf4j-api</artifactId> <version>1.7.2</version> </dependency> <dependency> <groupId>org.slf4j</groupId> <artifactId>slf4j-log4j12</artifactId> <version>1.7.2</version> </dependency>

Ref:

http://www.mkyong.com/logging/log4j-log4j-properties-examples/http://www.mkyong.com/logging/log4j-hello-world-example/

```
Hello World:
import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
public class Applications
private\ static\ final\ Logger\ logger=LoggerFactory.getLogger(Applications.class);
         public static void main(String[] args)
         System.out.println("Hello world logging");
         logger.info("stating logging!!!!");
         System.out.println("Hello world logging");
         logger.info("finished logging!!!!");
}
Ex:
private static final Logger logger=LoggerFactory.getLogger(Applications.class);
logger.info("start logging");
String no="4x";
try
{
         Integer.parseInt(no);
catch(NumberFormatException ex)
{
         logger.error("connot formet :"+no+" to and no....");
}
```