# Hadoop HDFS/MapReduce Overview

2015/12/21

Scott Miao

@takeshi.miao

## A HDFS/MapReduce overview

- Here I will refer to a MRv1 tutorial made by my colleague MengSung Wu.
  - hadoop\_training\_3.pdf

## Come on Let's do some exercise!!

#### Prerequisite

- It is better to use Unix-like OS for developing Hadoop related softwares
- Use Java in this exercise, use any IDE you like
  - Or follow the instruction to download Eclipse IDE
- No need for a running Hadoop cluster
  - But you can still deploy your code to run it !

## 1. Install Java7 & Eclipse IDE

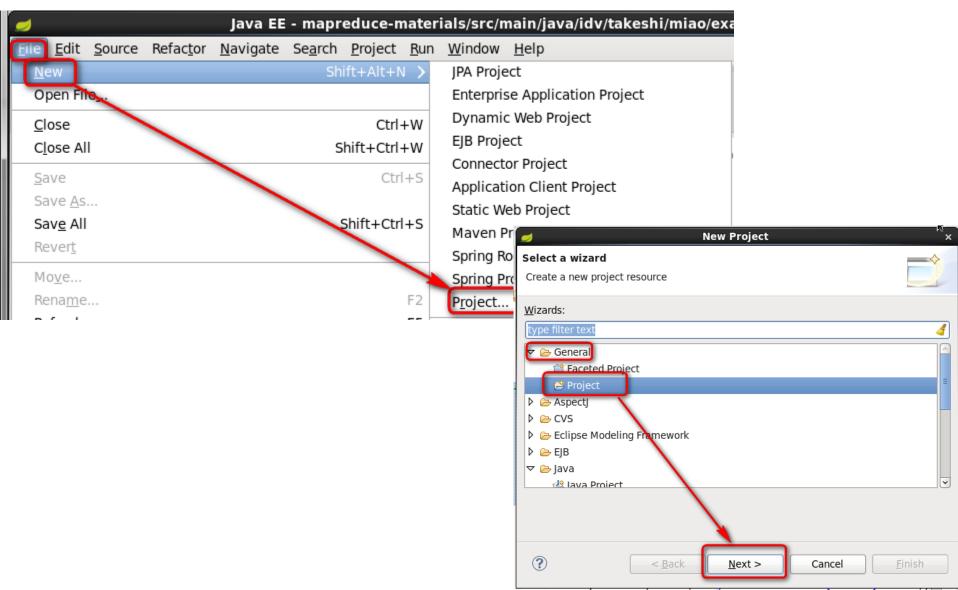
- Download and install Java7
  - http://www.oracle.com/technetwork/java/javase/ downloads/jdk7-downloads-1880260.html
  - Why we choose Java7?
    - Due to till current Hadoop-2.6.x, they still officially support to Java7 only
- Download and unzip/untar your Eclipse IDE
  - http://www.eclipse.org/downloads/packages/eclipse-ide-java-ee-developers/mars1

### 2. Download the sample codes

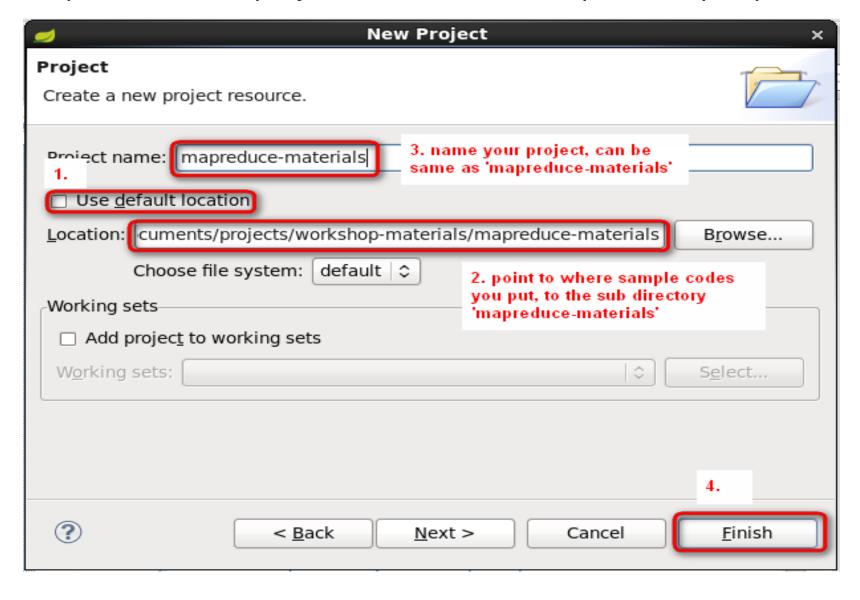
- Download sample codes from my github
  - https://github.com/takeshimiao/workshopmaterials/archive/master.zip
- Unzip it to where you like

## 3 Put the sample codes to Eclipse

3.1 Create a new project



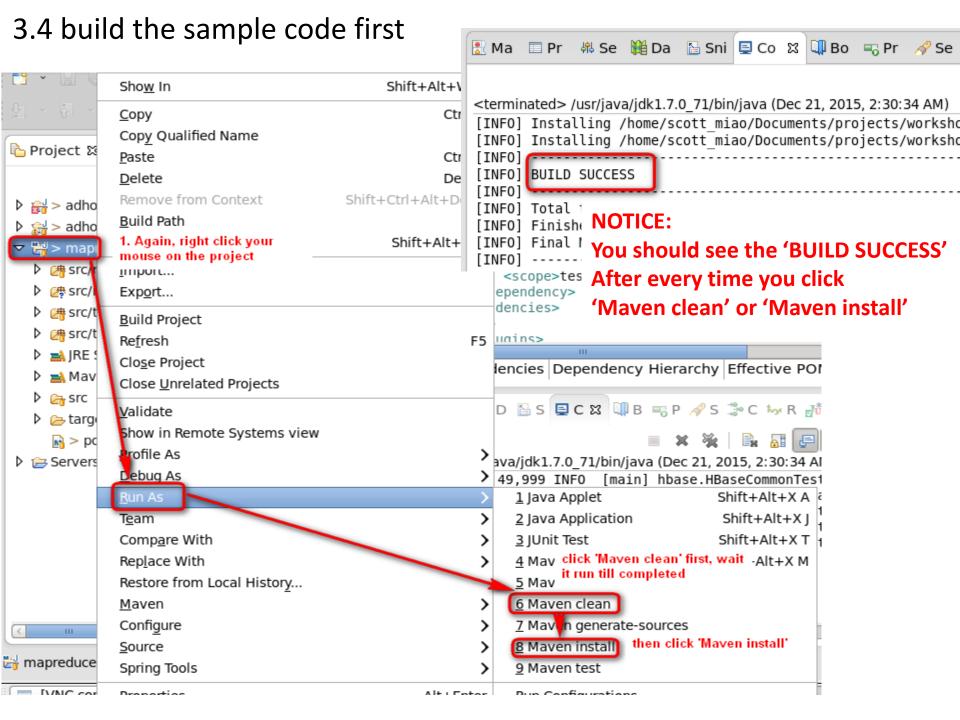
#### 3.2 point the new project to where the sample code you put



#### 3.3 convert this project to Maven project



Then click 'OK'



#### 3.5 Congrats! You finally get your first build!!



#### MRv2 on YARN!!

- This is a main feature brought to Hadoop-2.x
- Let's refer to my another good friend Jeff
   Markham's slides here
  - 6.Hadoop\_2\_Overview\_andNew\_features\_Jeff.pdf