# Everything related to Hadoop

#### MONDAY, SEPTEMBER 16, 2013

# Write and run map reduce jobs using Eclipse IDE!!

I started working in Hadoop field since last 1.5 years and i can see a picture where every one will be moving to Hadoop and related big data processing tools and suddenly it will become even much more popular than it is now and at that time it will be a field where everyone will be somehow related. As a developer, i really feel that everyone, at least every developer, should know how to write a MapReduce job and run it over a Hadoop cluster. I tried to find some help to write MapReduce jobs over the internet, but i found very few and even there there was no complete information.

So, i felt an urge to write this blog, so that every body should be able to know, in very easy and faster manner.

In this example i am using latest stable release of Hadoop which is 1.2.1. If you are using a different version then it may not work.

# Requirements to run this exercise:

- Hadoop cluster (even a single node cluster will work). I found Michael G. Noll's website very
  useful for setting up a single node cluster. You can follow the steps on this site to setup your
  cluster for testing.
- It is very good practice to keep source files of an opensource software, so that you will be able to
  consult sources or even change, if required. You can download sources of Hadoop 1.2.1 from
  here.
- 3. Eclipse IDE 3.7. (I have tested it on Eclipse 3.7. It may not work on higher versions.)

# Steps:

- 1. Download MapReduce eclipse plugin from here
- 2. Copy it into "Eclipse installation directory -> plugins" directory
- 3. Restart eclipse
- 4. Open MapReduce perspective in Eclipse

#### **BLOG ARCHIVE**

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How to write MapReduce program in JAVA

Write and run map reduce jobs using Eclipse IDE!!

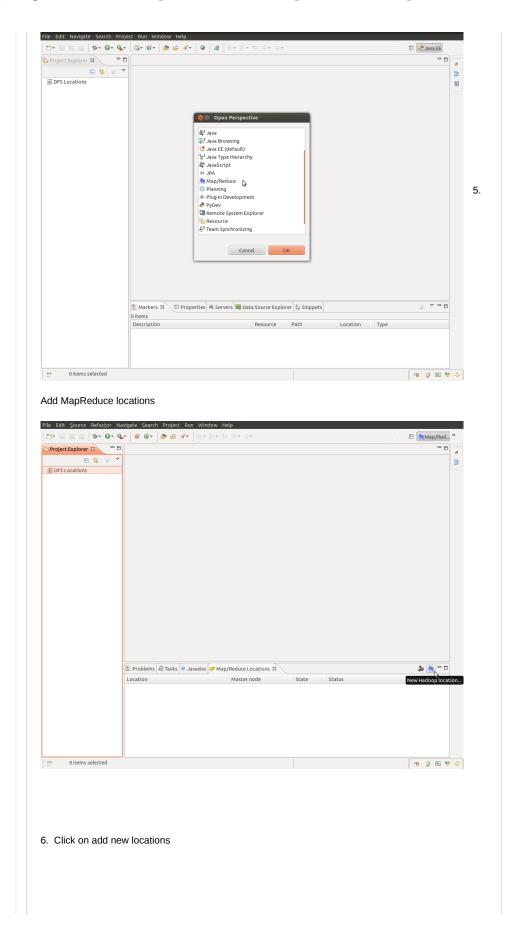
# ABOUT ME

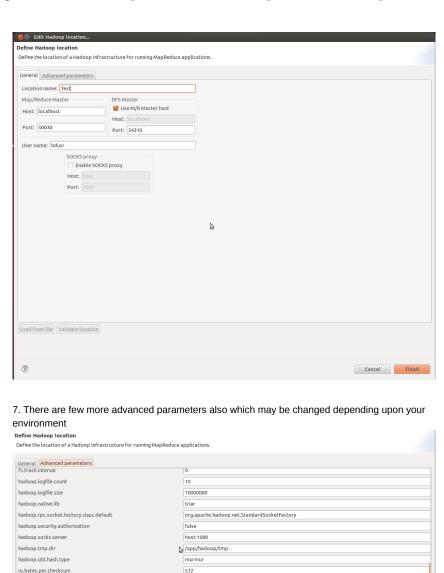


Deepak Shrivastava

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Now, development environment setup is done. You are ready to write and run your MapReduce job. To create a new MapReduce project and run over hadoop cluster follow below steps

1000000

1000000

true

10

100

[org. apache. hadoop. io. compress. Default Codec, org. apache. hadoop. io. compress. Gzip Codec, org. apache. hadoop. Io. codec, org. apache. hadoop. Io. codec, or

Cancel Finish

8. Create new Map reduce project

io.compression.codecs io.file.buffer.size

io.mapfile.bloom.size io.seqfile.compress.blocksize

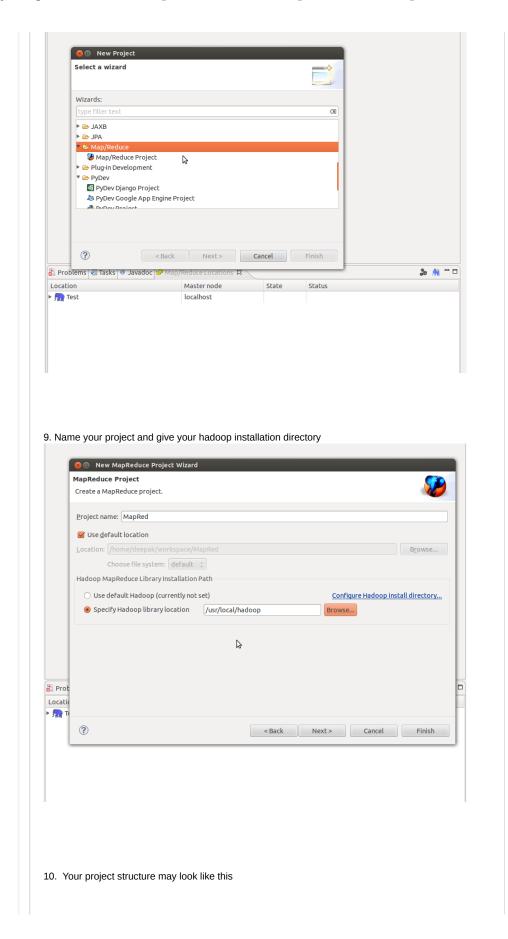
io.segfile.lazvdecompress

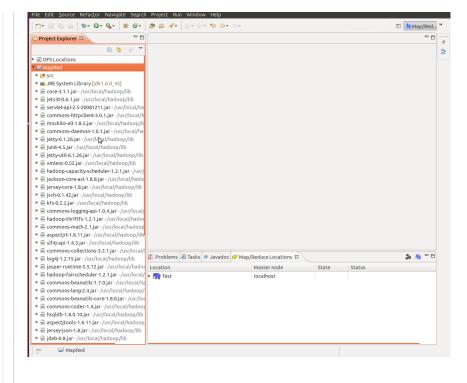
io.seqfile.sorter.recordlimit

Load from file Validate location

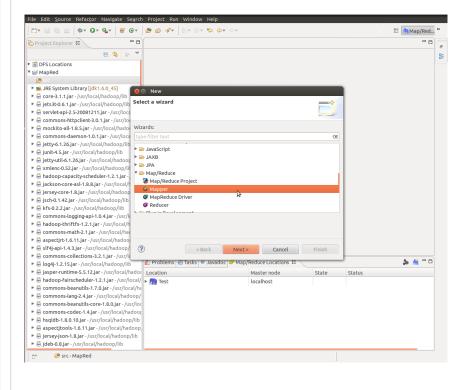
io.skip.checksum.errors io.sort.factor

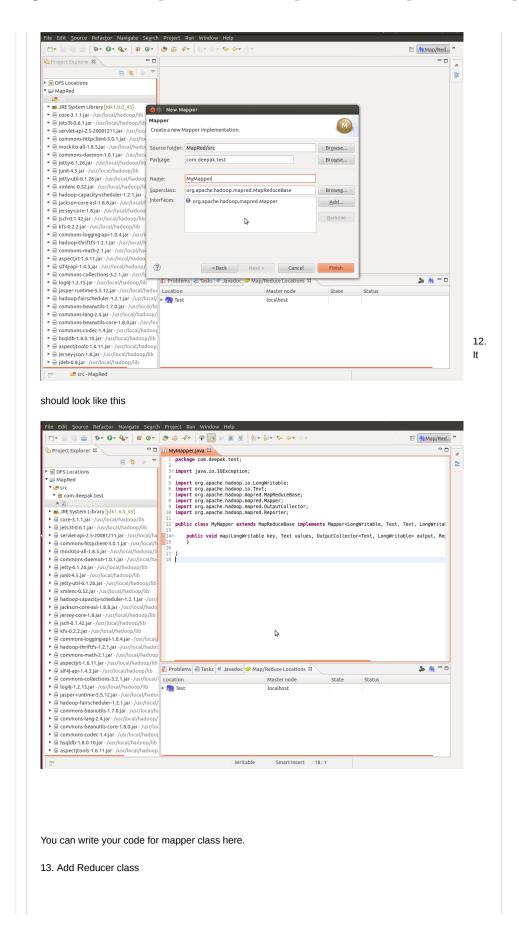
io.sort.mb

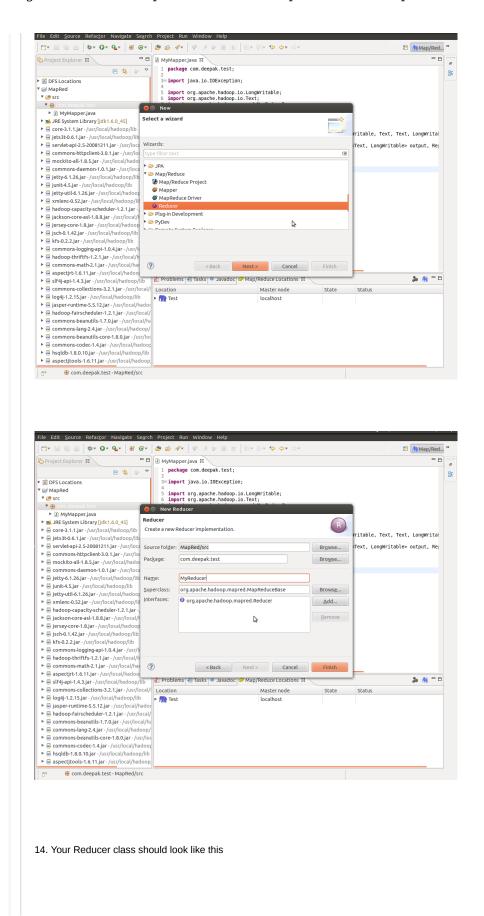


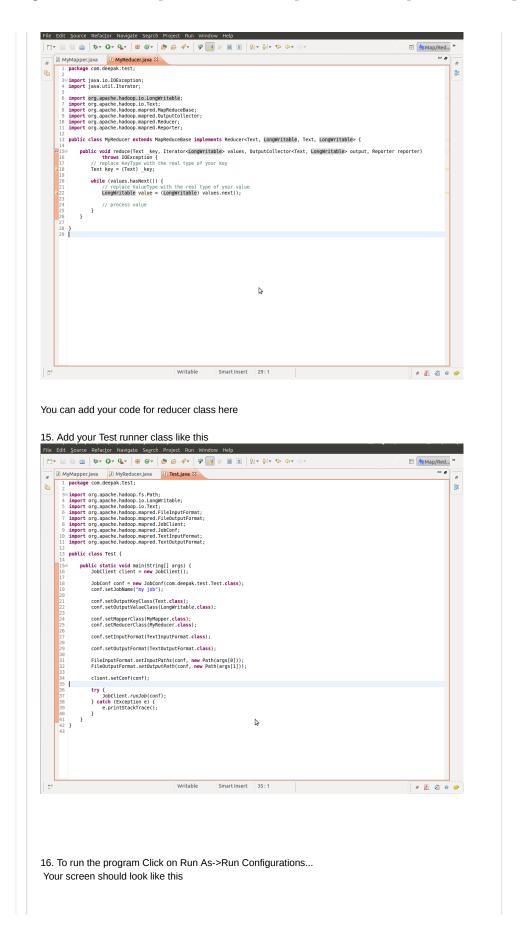


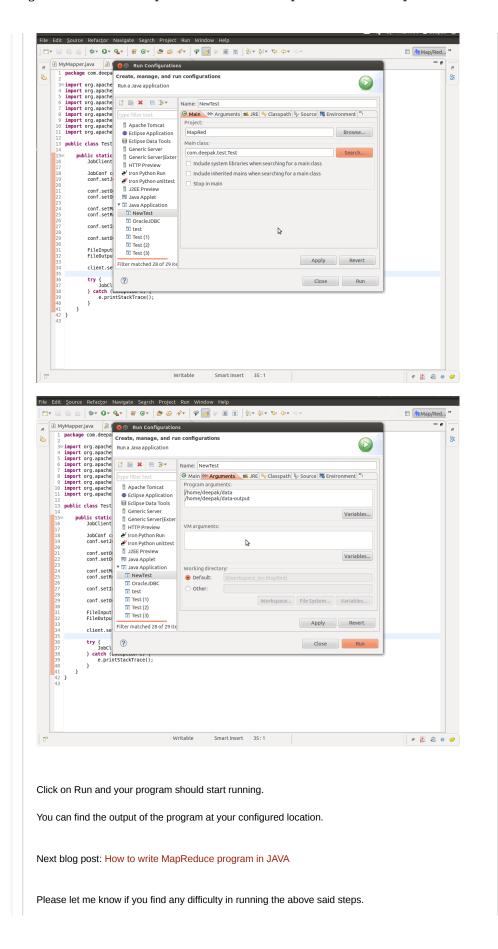
# 11. Now you need to add new Mapper class











#### Thanks

Posted by Deepak Shrivastava at 9/16/2013 12:42:00 PM

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Labels: Hadoop MapReduce Development Environment setup, Hadoop MapReduce Example, Java, MapReduce Development, MapReduce Java, MapReduce on Eclipse, Programing Map-Reduce (Hadoop) with Eclipse, Running MapReduce from eclipse

#### 7 comments:



#### alok September 22, 2013 at 9:38 PM

great work....a very simple step by step representation of the facts.

Reply



# typedef uchar\_t pluto; March 1, 2014 at 11:25 PM

Brilliant man. Very useful and saved a lot of time for me.

Thanks very much.

Reply



### besantvignesh M June 27, 2014 at 11:40 AM

Its really helpful for me to understand where we i lost in my previous interview. Thanks. If anyone wants to Learn Hadoop in Chennai go to the Besant Technologies which is No.1 Training Institute in Chennai.

http://www.hadooptrainingchennai.co.in

Reply



# Lobna Tonn April 8, 2015 at 4:55 PM

Thank you for this step by step tutorial.

But what if i have Eclipse in windows system and hadoop cluster on CentOs server machines and no GUI available. How can i run eclipse with hadoop eclipse plugin on windows machine?

Reply



# Andrew Son $\,$ August 11, 2015 at 11:42 AM $\,$

There are lots of information about latest technology and how to get trained in them, like Hadoop Training Chennai have spread around the web, but this is a unique one according to me. The strategy you have updated here will make me to get trained in future technologies(Hadoop Training in Chennai). By the way you are running a great blog. Thanks for sharing this (Salesforce Training in Chennai).

Reply



# Roshini RS September 16, 2015 at 12:22 PM

I have read your blog, it was good to read & I am getting some useful info's through your blog keep sharing... Informatica is an ETL tools helps to transform your old business leads into new vision. Learn Informatica training in chennai from corporate professionals with very good experience in informatica tool. Regards,

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# Amirtha rao December 22, 2015 at 3:42 PM

Pretty article! I found some useful information in your blog, it was awesome to read, thanks for sharing this great content to my vision, keep sharing.

