



#### Overview 'localhost:9000' (ractive)

Started:	Mon Jan 20 07:44:17 +0530 2025		
Version:	3.4.1, r4d7825309348956336b8f06a08322b78422849b1		
Compiled:	Wed Oct 09 20:27:00 +0530 2024 by mthakur from branch-3.4.1		
Cluster ID:	CID-508c2210-98a4-455a-a294-d2a7a15afe59		
Block Pool ID:	BP-1436141399-127.0.1.1-1737339107720		

### Summary

Security is off.

Safemode is off.

1 files and directories, 0 blocks (0 replicated blocks, 0 erasure coded block groups) = 1 total filesystem object(s).

Heap Memory used 169.06 MB of 407 MB Heap Memory, Max Heap Memory is 3.42 GB.

Non Heap Memory used 59.38 MB of 60.67 MB Committed Non Heap Memory. Max Non Heap Memory is 
 under the committed Non Heap Memory.

Configured Capacity:	34.6 GB		
Configured Remote Capacity:	0 B		
DFS Used:	24 KB (0%)		
Non DFS Used:	15.82 GB		
DFS Remaining:	16.99 GB (49.1%)		
Block Pool Used:	24 KB (0%)		
DataNodes usages% (Min/Median/Max/stdDev):	0.00% / 0.00% / 0.00% / 0.00%		
Live Nodes	1 (Decommissioned: 0, In Maintenance: 0)		
Dead Nodes	0 (Decommissioned: 0, In Maintenance: 0)		
a viv vi arv			



Decommissioning Nodes

Entering Maintenance Nodes

0

Total Datanode Volume Failures

0 (0 B)

Number of Under-Replicated Blocks

Number of Blocks Pending Deletion (Including replicas)

Block Deletion Start Time

Mon Jan 20 07:44:17 +0530 2025

Last Checkpoint Time

Mon Jan 20 07:41:47 +0530 2025

Last HA Transition Time

Never

Enabled Erasure Coding Policies

RS-6-3-1024k

## NameNode Journal Status

Current transaction ID: 2

Journal Manager

State

FilejoumalManager(root=/tmp/hadoop-vedant/dfs/
name)

Edit.ogFileOutputStream/(tmp/hadoop-vedant/dfs/mame/current/
edits\_inprogress\_000000000000002)

# NameNode Storage

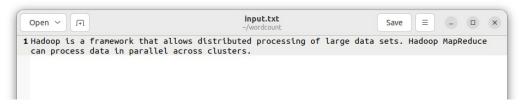
Storage Directory	Туре	State
/tmp/hadoop-vedant/dfs/name	IMAGE_AND_EDITS	Active

# DFS Storage Types

Storage Type	Configured Capacity	Capacity Used	Capacity Remaining	Block Pool Used	Nodes In Service
DISK	34.6 GB	24 KB (0%)	16.99 GB (49.1%)	24 KB	1

```
import org.apache.hadoop.conf.Configuration;
import org.apache.hadoop.fs.Path;
import org.apache.hadoop.io.IntWritable;
import org.apache.hadoop.io.Text;
import org.apache.hadoop.mapreduce.*;
import org.apache.hadoop.mapreduce.lib.input.FileInputFormat;
import org.apache.hadoop.mapreduce.lib.output.FileOutputFormat;
import java.io.IOException;
public class WordCount {
    // Mapper class
    public static class TokenizerMapper extends Mapper<Object, Text, Text, IntWritable> {
        private final static IntWritable one = new IntWritable(1);
        private Text word = new Text();
        public void map(Object key, Text value, Context context) throws IOException,
InterruptedException {
            String[] words = value.toString().split("\\s+");
            for (String str : words) {
                word.set(str);
                context.write(word, one);
            }
        }
    }
    // Reducer class
    public static class IntSumReducer extends Reducer<Text, IntWritable, Text,</pre>
IntWritable> {
        private IntWritable result = new IntWritable();
        public void reduce(Text key, Iterable<IntWritable> values, Context context)
                throws IOException, InterruptedException {
            int sum = 0;
            for (IntWritable val : values) {
                sum += val.get();
            }
            result.set(sum);
            context.write(key, result);
        }
    }
    public static void main(String[] args) throws Exception {
        if (args.length != 2) {
            System.err.println("Usage: WordCount <input path> <output path>");
            System.exit(-1);
        }
        Configuration conf = new Configuration();
        Job job = Job.getInstance(conf, "word count");
        job.setJarByClass(WordCount.class);
        job.setMapperClass(TokenizerMapper.class);
        job.setCombinerClass(IntSumReducer.class);
        job.setReducerClass(IntSumReducer.class);
        job.setOutputKeyClass(Text.class);
        job.setOutputValueClass(IntWritable.class);
        FileInputFormat.addInputPath(job, new Path(args[0]));
        FileOutputFormat.setOutputPath(job, new Path(args[1]));
        System.exit(job.waitForCompletion(true) ? 0 : 1);
    }
}
```

## Input.txt -



```
wedant@VEDATT-C:://wordcounts | Javac - classpath | hodgo classpath' - d | MordCount.java |
wedant@VEDATT-C:://wordcounts | Javac - classpath | hodgo classpath' - d | MordCount.java |
wedant@VEDATT-C:://wordcounts | Javac - classpath | hodgo classpath' - d | MordCount.java |
wedant@VEDATT-C:://wordcounts | Javac - classpath | hodgo classpath' - d | MordCount.java |
wedant@VEDATT-C:://wordcounts | Javac - classpath | wedant@VEDATT-C:://wordcounts |
wedant@VEDATT-C:://wordcounts | hodgo for | model | wedant@VEDATT-C:://wordcounts |
wedant@VEDATT-C:://wordcounts | hodgo for | model | wedant@VEDATT-C:://wordcounts |
wedant@VEDATT-C:://wordcounts | hodgo for | model | wedant@VEDATT-C:://wordcounts |
wedant@VEDATT-C:://wordcounts | hodgo for | model | wedant@VEDATT-C:://wordcounts|
wedant@VEDATT-C:://
```

```
Rep-Reduce Framework

Rep-Reduce Framework

Rep-Reduce Framework

Rep-Reduce Framework

Rep output records:1

Rep output records:2

Rep output records:2

Rep output records:3

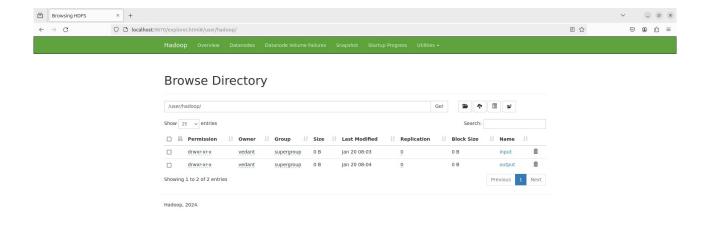
Rep output records:3

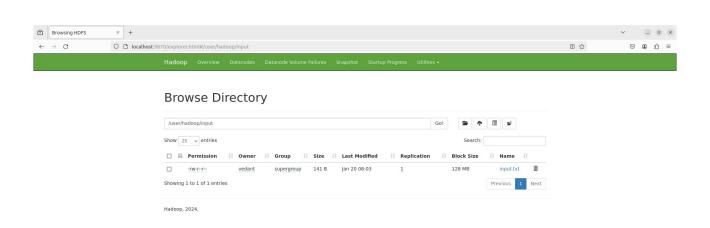
Rep output records:3

Reput Sylvania Sylvania

Reduce Input Sylvania

Reduce
```







#### **Browse Directory**

