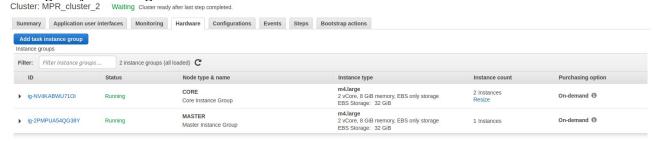
Konfiguracja testowego uruchomienia



Wykonane joby

```
hadoop@ip-172-31-46-7:~/books
                  CPU time spent (ms)=317350
                 Physical memory (bytes) snapshot=68386680832
Virtual memory (bytes) snapshot=484477640704
                 Total committed heap usage (bytes)=55462854656
        Shuffle Errors
                 BAD_ID=0
                 CONNECTION=0
                  IO_ERROR=0
                 WRONG_LENGTH=0
                 WRONG_MAP=0
                 WRONG_REDUCE=0
        File Input Format Counters
                 Bytes Read=64860323
        File Output Format Counters
                 Bytes Written=4495199
21/05/04 21:06:07 INFO streaming.StreamJob: Output directory: books-output
eal
         10m0.416s
user
        0m9.900s
        0m0.712s
[hadoop@ip-172-31-46-7 books]$ time hadoop jar /usr/lib/hadoop/hadoop-streaming.jar -fi
les mapper.py,reducer.py -mapper mapper.py -reducer reducer.py -input books-input -outp
ut books-output
```

```
hadoop@ip-172-31-46-7:~/books
1302.txt
             1316-0.txt
                         1332-0.txt 1348-0.txt
                                                    1364.txt
                                                                 1377.txt
                                                                              1390.txt
1303-0.txt
            1316.txt
                          1332.txt
                                       1348.txt
                                                    1365-0.txt
                                                                 1378-0.txt
                                                                              1391-0.txt
                                                   1366-0.txt
1303.txt
             1317-0.txt
                         1333.txt
                                       1349-0.txt
                                                                 1378.txt
                                                                              1391.txt
1304.txt
             1317.txt
                          1334-0.txt
                                       1350-0.txt
                                                    1366.txt
                                                                 1379-0.txt
                                                                              1392.txt
1305-0.txt 1318.txt
                          1334.txt
                                       1351.txt
                                                    1367.txt
                                                                 1379.txt
                                                                              1393.txt
1305.txt
             1319.txt
                          1335.txt
                                       1352-0.txt
                                                    1368-0.txt
                                                                 1380-0.txt
                                                                              1394.txt
1306-0.txt
            1320-0.txt
                         1336.txt
                                       1352.txt
                                                    1369-0.txt
                                                                 1380.txt
                                                                              1395.txt
            1321-0.txt
                                                                 1381-0.txt
1306.txt
                         1337.txt
                                       1353-0.txt
                                                   1369.txt
                                                                              1396-0.txt
1307-0.txt
            1322-0.txt
                         1338.txt
                                       1353.txt
                                                    1370.txt
                                                                 1382-0.txt
                                                                              1396.txt
            1323.txt
                          1339-0.txt 1354-0.txt
                                                                 1383-0.txt
                                                                              1397.txt
1307.txt
                                                  1371-0.txt
1308-0.txt
           1324.txt
                          1340.txt
                                       1354.txt
                                                    1371.txt
                                                                 1384.txt
                                                                              1398.txt
1309.txt
             1325.txt
                          1341.txt
                                       1355-0.txt
                                                    1372-0.txt
                                                                 1385-0.txt
                                                                              1399-0.txt
1310-0.txt
            1326.txt
                                                    1372.txt
                                                                 1385.txt
                                                                              1400-0.txt
                          1342-0.txt
                                       1356.txt
            1327-0.txt
                         1343-0.txt
                                       1357-0.txt
                                                                 1386-0.txt
1311.txt
                                                    1373.txt
                                                                 1386.txt
1312-0.txt
           1327.txt
                          1343.txt
                                       1357.txt
                                                    1374-0.txt
1312.txt
             1328-0.txt
                         1344-0.txt
                                       1358.txt
                                                    1374.txt
                                                                 1387-0.txt
1313-0.txt
            1328.txt
                          1344.txt
                                       1359.txt
                                                    1375-0.txt
                                                                 1387.txt
            1329-0.txt 1345-0.txt 1360.txt
1313.txt
                                                    1375.txt
                                                                 1388.txt
[hadoop@ip-172-31-46-7 books]$ touch sequential_mr.py
[hadoop@ip-172-31-46-7 books]$ vi sequential_mr.py
[hadoop@ip-172-31-46-7 books]$ python sequential_mr.py
Time execution 6.368947267532349 [s]
[hadoop@ip-172-31-46-7 books]$
```

Pomiar czasów

sekwencyjny: 6.4 sekundrównoległy: 10 minut

Tak drastyczna różnica między algorytmem sekwencyjnym a równoległym mogła wynikać tak z małej ilości danych (łączny rozmiar plików tekstowych wynosił 64 MB) jak i małej liczby procesorów (1 master, 2 slave'y)