**Lap Sheet - 02**

**Sabaragamuwa University of Sri Lanka**

**Faculty of Computing**

**Department of Software Engineering**

**SE6103 – Parallel And Distributed System**

fgg

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Academic Period : 3rd Year 2nd Semester

Due Date : 25/11/2024

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker-compose up -d

time="2024-11-25T14:58:15+05:30" level=warning msg="D:\\3.2 lectures\\parallel\\Practicel\\Distributed-programming\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"

[+] Running 4/4

✔ Network distributed-programming\_default Created 0.1s

✔ Container namenode Started 1.6s

✔ Container datanode Started 1.6s

✔ Container historyserver Started 1.7s

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it datanode jps

>>

Error response from daemon: container 70d5baa87889d70c5915f21fcfe91f5282aac3c7229338803c7107a398376d62 is not running

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker inspect datanode

>>

[

{

"Id": "70d5baa87889d70c5915f21fcfe91f5282aac3c7229338803c7107a398376d62",

"Created": "2024-11-25T09:28:15.752295939Z",

"Path": "/entrypoint.sh",

"Args": [

"/run.sh"

],

"State": {

"Status": "exited",

"Running": false,

"Paused": false,

"Restarting": false,

"OOMKilled": false,

"Dead": false,

"Pid": 0,

"ExitCode": 0,

"Error": "",

"StartedAt": "2024-11-25T09:28:17.092829443Z",

"FinishedAt": "2024-11-25T09:28:24.607471599Z",

"Health": {

"Status": "unhealthy",

"FailingStreak": 0,

"Log": []

}

},

"Image": "sha256:35f899bcbe9f983825a8a3bdc135ed0e8e0eaf3b58f9b08bf257b5e86bae3b47",

"ResolvConfPath": "/var/lib/docker/containers/70d5baa87889d70c5915f21fcfe91f5282aac3c7229338803c7107a398376d62/resolv.conf",

"HostnamePath": "/var/lib/docker/containers/70d5baa87889d70c5915f21fcfe91f5282aac3c7229338803c7107a398376d62/hostname",

"HostsPath": "/var/lib/docker/containers/70d5baa87889d70c5915f21fcfe91f5282aac3c7229338803c7107a398376d62/hosts",

"LogPath": "/var/lib/docker/containers/70d5baa87889d70c5915f21fcfe91f5282aac3c7229338803c7107a398376d62/70d5baa87889d70c5915f21fcfe91f5282aac3c7229338803c7107a398376d62-json.log",

"Name": "/datanode",

"RestartCount": 0,

"Driver": "overlayfs",

"Platform": "linux",

"MountLabel": "",

"ProcessLabel": "",

"AppArmorProfile": "",

"ExecIDs": null,

"HostConfig": {

"Binds": null,

"ContainerIDFile": "",

"LogConfig": {

"Type": "json-file",

"Config": {}

},

"NetworkMode": "distributed-programming\_default",

"PortBindings": {},

"RestartPolicy": {

"Name": "no",

"MaximumRetryCount": 0

},

"AutoRemove": false,

"VolumeDriver": "",

"VolumesFrom": null,

"ConsoleSize": [

0,

0

],

"CapAdd": null,

"CapDrop": null,

"CgroupnsMode": "host",

"Dns": null,

"DnsOptions": null,

"DnsSearch": null,

"ExtraHosts": [],

"GroupAdd": null,

"IpcMode": "private",

"Cgroup": "",

"Links": null,

"OomScoreAdj": 0,

"PidMode": "",

"Privileged": false,

"PublishAllPorts": false,

"ReadonlyRootfs": false,

"SecurityOpt": null,

"UTSMode": "",

"UsernsMode": "",

"ShmSize": 67108864,

"Runtime": "runc",

"Isolation": "",

"CpuShares": 0,

"Memory": 0,

"NanoCpus": 0,

"CgroupParent": "",

"BlkioWeight": 0,

"BlkioWeightDevice": null,

"BlkioDeviceReadBps": null,

"BlkioDeviceWriteBps": null,

"BlkioDeviceReadIOps": null,

"BlkioDeviceWriteIOps": null,

"CpuPeriod": 0,

"CpuQuota": 0,

"CpuRealtimePeriod": 0,

"CpuRealtimeRuntime": 0,

"CpusetCpus": "",

"CpusetMems": "",

"Devices": null,

"DeviceCgroupRules": null,

"DeviceRequests": null,

"MemoryReservation": 0,

"MemorySwap": 0,

"MemorySwappiness": null,

"OomKillDisable": false,

"PidsLimit": null,

"Ulimits": null,

"CpuCount": 0,

"CpuPercent": 0,

"IOMaximumIOps": 0,

"IOMaximumBandwidth": 0,

"Mounts": [

{

"Type": "volume",

"Source": "distributed-programming\_datanode-data",

"Target": "/hadoop/dfs/data",

"VolumeOptions": {}

}

],

"MaskedPaths": [

"/proc/asound",

"/proc/acpi",

"/proc/kcore",

"/proc/keys",

"/proc/latency\_stats",

"/proc/timer\_list",

"/proc/timer\_stats",

"/proc/sched\_debug",

"/proc/scsi",

"/sys/firmware",

"/sys/devices/virtual/powercap"

],

"ReadonlyPaths": [

"/proc/bus",

"/proc/fs",

"/proc/irq",

"/proc/sys",

"/proc/sysrq-trigger"

]

},

"GraphDriver": {

"Data": null,

"Name": "overlayfs"

},

"Mounts": [

{

"Type": "volume",

"Name": "distributed-programming\_datanode-data",

"Source": "/var/lib/docker/volumes/distributed-programming\_datanode-data/\_data",

"Destination": "/hadoop/dfs/data",

"Driver": "local",

"Mode": "z",

"RW": true,

"Propagation": ""

}

],

"Config": {

"Hostname": "70d5baa87889",

"Domainname": "",

"User": "",

"AttachStdin": false,

"AttachStdout": true,

"AttachStderr": true,

"ExposedPorts": {

"9864/tcp": {}

},

"Tty": false,

"OpenStdin": false,

"StdinOnce": false,

"Env": [

"CORE\_CONF\_fs\_defaultFS=hdfs://namenode:8020",

"PATH=/opt/hadoop-3.2.1/bin/:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",

"JAVA\_HOME=/usr/lib/jvm/java-8-openjdk-amd64/",

"HADOOP\_VERSION=3.2.1",

"HADOOP\_URL=https://www.apache.org/dist/hadoop/common/hadoop-3.2.1/hadoop-3.2.1.tar.gz",

"HADOOP\_HOME=/opt/hadoop-3.2.1",

"HADOOP\_CONF\_DIR=/etc/hadoop",

"MULTIHOMED\_NETWORK=1",

"USER=root",

"HDFS\_CONF\_dfs\_datanode\_data\_dir=file:///hadoop/dfs/data"

],

"Cmd": [

"/run.sh"

],

"Healthcheck": {

"Test": [

"CMD-SHELL",

"curl -f http://localhost:9864/ || exit 1"

]

},

"Image": "bde2020/hadoop-datanode:latest",

"Volumes": {

"/hadoop/dfs/data": {}

},

"WorkingDir": "",

"Entrypoint": [

"/entrypoint.sh"

],

"OnBuild": null,

"Labels": {

"com.docker.compose.config-hash": "568a1045cb0015bd223e5ea3416238424b7152b2ecbc163a8461da4ef6324158",

"com.docker.compose.container-number": "1",

"com.docker.compose.depends\_on": "namenode:service\_started:false",

"com.docker.compose.image": "sha256:35f899bcbe9f983825a8a3bdc135ed0e8e0eaf3b58f9b08bf257b5e86bae3b47",

"com.docker.compose.oneoff": "False",

"com.docker.compose.project": "distributed-programming",

"com.docker.compose.project.config\_files": "D:\\3.2 lectures\\parallel\\Practicel\\Distributed-programming\\docker-compose.yml",

"com.docker.compose.project.working\_dir": "D:\\3.2 lectures\\parallel\\Practicel\\Distributed-programming",

"com.docker.compose.service": "datanode",

"com.docker.compose.version": "2.29.7"

}

},

"NetworkSettings": {

"Bridge": "",

"SandboxID": "",

"SandboxKey": "",

"Ports": {},

"HairpinMode": false,

"LinkLocalIPv6Address": "",

"LinkLocalIPv6PrefixLen": 0,

"SecondaryIPAddresses": null,

"SecondaryIPv6Addresses": null,

"EndpointID": "",

"Gateway": "",

"GlobalIPv6Address": "",

"GlobalIPv6PrefixLen": 0,

"IPAddress": "",

"IPPrefixLen": 0,

"IPv6Gateway": "",

"MacAddress": "",

"Networks": {

"distributed-programming\_default": {

"IPAMConfig": null,

"Links": null,

"Aliases": [

"datanode",

"datanode"

],

"MacAddress": "",

"DriverOpts": null,

"NetworkID": "5914f90a19bca14f3f462747e15cfe46b108f2a275c9a5b2b28023d21f7ba931",

"EndpointID": "",

"Gateway": "",

"IPAddress": "",

"IPPrefixLen": 0,

"IPv6Gateway": "",

"GlobalIPv6Address": "",

"GlobalIPv6PrefixLen": 0,

"DNSNames": [

"datanode",

"70d5baa87889"

]

}

}

}

}

]

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker-compose down -v

>>

time="2024-11-25T15:00:03+05:30" level=warning msg="D:\\3.2 lectures\\parallel\\Practicel\\Distributed-programming\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"

[+] Running 6/6

✔ Container historyserver Removed 10.5s

✔ Container datanode Removed 0.1s

✔ Container namenode Removed 10.5s

✔ Volume distributed-programming\_namenode-data Removed 0.0s

✔ Volume distributed-programming\_datanode-data Removed 0.0s

✔ Network distributed-programming\_default Removed 0.3s

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker-compose up -d

>>

time="2024-11-25T15:00:26+05:30" level=warning msg="D:\\3.2 lectures\\parallel\\Practicel\\Distributed-programming\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"

[+] Running 6/6

✔ Network distributed-programming\_default Created 0.1s

✔ Volume "distributed-programming\_namenode-data" Created 0.0s

✔ Volume "distributed-programming\_datanode-data" Created 0.0s

✔ Container namenode Started 1.7s

✔ Container datanode Started 1.7s

✔ Container historyserver Started 1.8s

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hdfs dfs -put /sample.txt /input

>>

put: `/sample.txt': No such file or directory

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hdfs dfs -mkdir -p /input

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker cp ./sample.txt namenode:/sample.txt

Successfully copied 2.05kB to namenode:/sample.txt

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hdfs dfs -put /sample.txt /input

2024-11-25 09:31:24,788 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hdfs dfs -ls /input

Found 1 items

-rw-r--r-- 3 root supergroup 81 2024-11-25 09:31 /input/sample.txt

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hadoop jar /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreducer-examples-3.2.1.jar wordcount/input/output

JAR does not exist or is not a normal file: /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreducer-examples-3.2.1.jar

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode ls /opt/hadoop-3.2.1/share/hadoop/mapreduce/

hadoop-mapreduce-client-app-3.2.1.jar hadoop-mapreduce-client-hs-plugins-3.2.1.jar hadoop-mapreduce-client-shuffle-3.2.1.jar lib

hadoop-mapreduce-client-common-3.2.1.jar hadoop-mapreduce-client-jobclient-3.2.1-tests.jar hadoop-mapreduce-client-uploader-3.2.1.jar lib-examples

hadoop-mapreduce-client-core-3.2.1.jar hadoop-mapreduce-client-jobclient-3.2.1.jar hadoop-mapreduce-examples-3.2.1.jar sources

hadoop-mapreduce-client-hs-3.2.1.jar hadoop-mapreduce-client-nativetask-3.2.1.jar jdiff

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hadoop jar /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.1.jar wordcount /input /output

2024-11-25 09:38:50,567 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties

2024-11-25 09:38:50,621 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).

2024-11-25 09:38:50,621 INFO impl.MetricsSystemImpl: JobTracker metrics system started

2024-11-25 09:38:50,869 INFO input.FileInputFormat: Total input files to process : 1

2024-11-25 09:38:50,895 INFO mapreduce.JobSubmitter: number of splits:1

2024-11-25 09:38:51,066 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_local1344267800\_0001

2024-11-25 09:38:51,067 INFO mapreduce.JobSubmitter: Executing with tokens: []

2024-11-25 09:38:51,189 INFO mapreduce.Job: The url to track the job: http://localhost:8080/

2024-11-25 09:38:51,190 INFO mapreduce.Job: Running job: job\_local1344267800\_0001

2024-11-25 09:38:51,192 INFO mapred.LocalJobRunner: OutputCommitter set in config null

2024-11-25 09:38:51,200 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2

2024-11-25 09:38:51,201 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup \_temporary folders under output directory:false, ignore cleanup failures: false

2024-11-25 09:38:51,201 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapreduce.lib.output.FileOutputCommitter

2024-11-25 09:38:51,239 INFO mapred.LocalJobRunner: Waiting for map tasks

2024-11-25 09:38:51,240 INFO mapred.LocalJobRunner: Starting task: attempt\_local1344267800\_0001\_m\_000000\_0

2024-11-25 09:38:51,260 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2

2024-11-25 09:38:51,261 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup \_temporary folders under output directory:false, ignore cleanup failures: false

2024-11-25 09:38:51,281 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]

2024-11-25 09:38:51,285 INFO mapred.MapTask: Processing split: hdfs://namenode:8020/input/sample.txt:0+81

2024-11-25 09:38:51,341 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)

2024-11-25 09:38:51,341 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100

2024-11-25 09:38:51,341 INFO mapred.MapTask: soft limit at 83886080

2024-11-25 09:38:51,341 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600

2024-11-25 09:38:51,341 INFO mapred.MapTask: kvstart = 26214396; length = 6553600

2024-11-25 09:38:51,346 INFO mapred.MapTask: Map output collector class = org.apache.hadoop.mapred.MapTask$MapOutputBuffer

2024-11-25 09:38:51,378 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2024-11-25 09:38:51,484 INFO mapred.LocalJobRunner:

2024-11-25 09:38:51,486 INFO mapred.MapTask: Starting flush of map output

2024-11-25 09:38:51,486 INFO mapred.MapTask: Spilling map output

2024-11-25 09:38:51,486 INFO mapred.MapTask: bufstart = 0; bufend = 134; bufvoid = 104857600

2024-11-25 09:38:51,486 INFO mapred.MapTask: kvstart = 26214396(104857584); kvend = 26214348(104857392); length = 49/6553600

2024-11-25 09:38:51,496 INFO mapred.MapTask: Finished spill 0

2024-11-25 09:38:51,508 INFO mapred.Task: Task:attempt\_local1344267800\_0001\_m\_000000\_0 is done. And is in the process of committing

2024-11-25 09:38:51,512 INFO mapred.LocalJobRunner: map

2024-11-25 09:38:51,512 INFO mapred.Task: Task 'attempt\_local1344267800\_0001\_m\_000000\_0' done.

2024-11-25 09:38:51,520 INFO mapred.Task: Final Counters for attempt\_local1344267800\_0001\_m\_000000\_0: Counters: 24

File System Counters

FILE: Number of bytes read=316693

FILE: Number of bytes written=842115

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=81

HDFS: Number of bytes written=0

HDFS: Number of read operations=5

HDFS: Number of large read operations=0

HDFS: Number of write operations=1

HDFS: Number of bytes read erasure-coded=0

Map-Reduce Framework

Map input records=1

Map output records=13

Map output bytes=134

Map output materialized bytes=166

Input split bytes=102

Combine input records=13

Combine output records=13

Spilled Records=13

Failed Shuffles=0

Merged Map outputs=0

GC time elapsed (ms)=0

Total committed heap usage (bytes)=273154048

File Input Format Counters

Bytes Read=81

2024-11-25 09:38:51,521 INFO mapred.LocalJobRunner: Finishing task: attempt\_local1344267800\_0001\_m\_000000\_0

2024-11-25 09:38:51,521 INFO mapred.LocalJobRunner: map task executor complete.

2024-11-25 09:38:51,524 INFO mapred.LocalJobRunner: Waiting for reduce tasks

2024-11-25 09:38:51,525 INFO mapred.LocalJobRunner: Starting task: attempt\_local1344267800\_0001\_r\_000000\_0

2024-11-25 09:38:51,532 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2

2024-11-25 09:38:51,532 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup \_temporary folders under output directory:false, ignore cleanup failures: false

2024-11-25 09:38:51,533 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]

2024-11-25 09:38:51,538 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@4e1f484

2024-11-25 09:38:51,541 WARN impl.MetricsSystemImpl: JobTracker metrics system already initialized!

2024-11-25 09:38:51,559 INFO reduce.MergeManagerImpl: MergerManager: memoryLimit=627939712, maxSingleShuffleLimit=156984928, mergeThreshold=414440224, ioSortFactor=10, memToMemMergeOutputsThreshold=10

2024-11-25 09:38:51,562 INFO reduce.EventFetcher: attempt\_local1344267800\_0001\_r\_000000\_0 Thread started: EventFetcher for fetching Map Completion Events

2024-11-25 09:38:51,590 INFO reduce.LocalFetcher: localfetcher#1 about to shuffle output of map attempt\_local1344267800\_0001\_m\_000000\_0 decomp: 162 len: 166 to MEMORY

2024-11-25 09:38:51,595 INFO reduce.InMemoryMapOutput: Read 162 bytes from map-output for attempt\_local1344267800\_0001\_m\_000000\_0

2024-11-25 09:38:51,598 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 162, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory ->162

2024-11-25 09:38:51,600 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning

2024-11-25 09:38:51,601 INFO mapred.LocalJobRunner: 1 / 1 copied.

2024-11-25 09:38:51,602 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs

2024-11-25 09:38:51,610 INFO mapred.Merger: Merging 1 sorted segments

2024-11-25 09:38:51,610 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 148 bytes

2024-11-25 09:38:51,611 INFO reduce.MergeManagerImpl: Merged 1 segments, 162 bytes to disk to satisfy reduce memory limit

2024-11-25 09:38:51,612 INFO reduce.MergeManagerImpl: Merging 1 files, 166 bytes from disk

2024-11-25 09:38:51,614 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce

2024-11-25 09:38:51,614 INFO mapred.Merger: Merging 1 sorted segments

2024-11-25 09:38:51,615 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 148 bytes

2024-11-25 09:38:51,616 INFO mapred.LocalJobRunner: 1 / 1 copied.

2024-11-25 09:38:51,646 INFO Configuration.deprecation: mapred.skip.on is deprecated. Instead, use mapreduce.job.skiprecords

2024-11-25 09:38:51,672 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2024-11-25 09:38:51,715 INFO mapred.Task: Task:attempt\_local1344267800\_0001\_r\_000000\_0 is done. And is in the process of committing

2024-11-25 09:38:51,718 INFO mapred.LocalJobRunner: 1 / 1 copied.

2024-11-25 09:38:51,718 INFO mapred.Task: Task attempt\_local1344267800\_0001\_r\_000000\_0 is allowed to commit now

2024-11-25 09:38:51,733 INFO output.FileOutputCommitter: Saved output of task 'attempt\_local1344267800\_0001\_r\_000000\_0' to hdfs://namenode:8020/output

2024-11-25 09:38:51,734 INFO mapred.LocalJobRunner: reduce > reduce

2024-11-25 09:38:51,735 INFO mapred.Task: Task 'attempt\_local1344267800\_0001\_r\_000000\_0' done.

2024-11-25 09:38:51,735 INFO mapred.Task: Final Counters for attempt\_local1344267800\_0001\_r\_000000\_0: Counters: 30

File System Counters

FILE: Number of bytes read=317057

FILE: Number of bytes written=842281

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=81

HDFS: Number of bytes written=108

HDFS: Number of read operations=10

HDFS: Number of large read operations=0

HDFS: Number of write operations=3

HDFS: Number of bytes read erasure-coded=0

Map-Reduce Framework

Combine input records=0

Combine output records=0

Reduce input groups=13

Reduce shuffle bytes=166

Reduce input records=13

Reduce output records=13

Spilled Records=13

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=8

Total committed heap usage (bytes)=274202624

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Output Format Counters

Bytes Written=108

2024-11-25 09:38:51,736 INFO mapred.LocalJobRunner: Finishing task: attempt\_local1344267800\_0001\_r\_000000\_0

2024-11-25 09:38:51,736 INFO mapred.LocalJobRunner: reduce task executor complete.

2024-11-25 09:38:52,196 INFO mapreduce.Job: Job job\_local1344267800\_0001 running in uber mode : false

2024-11-25 09:38:52,198 INFO mapreduce.Job: map 100% reduce 100%

2024-11-25 09:38:52,200 INFO mapreduce.Job: Job job\_local1344267800\_0001 completed successfully

2024-11-25 09:38:52,207 INFO mapreduce.Job: Counters: 36

File System Counters

FILE: Number of bytes read=633750

FILE: Number of bytes written=1684396

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=162

HDFS: Number of bytes written=108

HDFS: Number of read operations=15

HDFS: Number of large read operations=0

HDFS: Number of write operations=4

HDFS: Number of bytes read erasure-coded=0

Map-Reduce Framework

Map input records=1

Map output records=13

Map output bytes=134

Map output materialized bytes=166

Input split bytes=102

Combine input records=13

Combine output records=13

Reduce input groups=13

Reduce shuffle bytes=166

Reduce input records=13

Reduce output records=13

Spilled Records=26

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=8

Total committed heap usage (bytes)=547356672

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=81

File Output Format Counters

Bytes Written=108

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hadoop jar /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.1.jarwordcount /input/output

JAR does not exist or is not a normal file: /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.1.jarwordcount

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hadoop jar /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.1.jarwordcount/input/output

JAR does not exist or is not a normal file: /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.1.jarwordcount/input/output

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hadoop jar /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.1.jarwordcount/input/output

JAR does not exist or is not a normal file: /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.1.jarwordcount/input/output

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hadoop jar /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.1.jar wordcount /input /output

2024-11-25 09:42:23,521 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties

2024-11-25 09:42:23,619 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).

2024-11-25 09:42:23,619 INFO impl.MetricsSystemImpl: JobTracker metrics system started

org.apache.hadoop.mapred.FileAlreadyExistsException: Output directory hdfs://namenode:8020/output already exists

at org.apache.hadoop.mapreduce.lib.output.FileOutputFormat.checkOutputSpecs(FileOutputFormat.java:164)

at org.apache.hadoop.mapreduce.JobSubmitter.checkSpecs(JobSubmitter.java:277)

at org.apache.hadoop.mapreduce.JobSubmitter.submitJobInternal(JobSubmitter.java:143)

at org.apache.hadoop.mapreduce.Job$11.run(Job.java:1570)

at org.apache.hadoop.mapreduce.Job$11.run(Job.java:1567)

at java.security.AccessController.doPrivileged(Native Method)

at javax.security.auth.Subject.doAs(Subject.java:422)

at org.apache.hadoop.security.UserGroupInformation.doAs(UserGroupInformation.java:1730)

at org.apache.hadoop.mapreduce.Job.submit(Job.java:1567)

at org.apache.hadoop.mapreduce.Job.waitForCompletion(Job.java:1588)

at org.apache.hadoop.examples.WordCount.main(WordCount.java:87)

at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)

at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)

at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)

at java.lang.reflect.Method.invoke(Method.java:498)

at org.apache.hadoop.util.ProgramDriver$ProgramDescription.invoke(ProgramDriver.java:71)

at org.apache.hadoop.util.ProgramDriver.run(ProgramDriver.java:144)

at org.apache.hadoop.examples.ExampleDriver.main(ExampleDriver.java:74)

at sun.reflect.NativeMethodAccessorImpl.invoke0(Native Method)

at sun.reflect.NativeMethodAccessorImpl.invoke(NativeMethodAccessorImpl.java:62)

at sun.reflect.DelegatingMethodAccessorImpl.invoke(DelegatingMethodAccessorImpl.java:43)

at java.lang.reflect.Method.invoke(Method.java:498)

at org.apache.hadoop.util.RunJar.run(RunJar.java:323)

at org.apache.hadoop.util.RunJar.main(RunJar.java:236)

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode ls /opt/hadoop-3.2.1/share/hadoop/mapreduce/

>>

hadoop-mapreduce-client-app-3.2.1.jar hadoop-mapreduce-client-hs-plugins-3.2.1.jar hadoop-mapreduce-client-shuffle-3.2.1.jar lib

hadoop-mapreduce-client-common-3.2.1.jar hadoop-mapreduce-client-jobclient-3.2.1-tests.jar hadoop-mapreduce-client-uploader-3.2.1.jar lib-examples

hadoop-mapreduce-client-core-3.2.1.jar hadoop-mapreduce-client-jobclient-3.2.1.jar hadoop-mapreduce-examples-3.2.1.jar sources

hadoop-mapreduce-client-hs-3.2.1.jar hadoop-mapreduce-client-nativetask-3.2.1.jar jdiff

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hdfs dfs -rm -r /output

>>

Deleted /output

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hadoop jar /opt/hadoop-3.2.1/share/hadoop/mapreduce/hadoop-mapreduce-examples-3.2.1.jar wordcount /input /output

>>

2024-11-25 09:44:29,540 INFO impl.MetricsConfig: Loaded properties from hadoop-metrics2.properties

2024-11-25 09:44:29,741 INFO impl.MetricsSystemImpl: Scheduled Metric snapshot period at 10 second(s).

2024-11-25 09:44:29,742 INFO impl.MetricsSystemImpl: JobTracker metrics system started

2024-11-25 09:44:30,002 INFO input.FileInputFormat: Total input files to process : 1

2024-11-25 09:44:30,027 INFO mapreduce.JobSubmitter: number of splits:1

2024-11-25 09:44:30,173 INFO mapreduce.JobSubmitter: Submitting tokens for job: job\_local756343983\_0001

2024-11-25 09:44:30,173 INFO mapreduce.JobSubmitter: Executing with tokens: []

2024-11-25 09:44:30,277 INFO mapreduce.Job: The url to track the job: http://localhost:8080/

2024-11-25 09:44:30,279 INFO mapreduce.Job: Running job: job\_local756343983\_0001

2024-11-25 09:44:30,279 INFO mapred.LocalJobRunner: OutputCommitter set in config null

2024-11-25 09:44:30,288 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2

2024-11-25 09:44:30,288 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup \_temporary folders under output directory:false, ignore cleanup failures: false

2024-11-25 09:44:30,288 INFO mapred.LocalJobRunner: OutputCommitter is org.apache.hadoop.mapreduce.lib.output.FileOutputCommitter

2024-11-25 09:44:30,331 INFO mapred.LocalJobRunner: Waiting for map tasks

2024-11-25 09:44:30,331 INFO mapred.LocalJobRunner: Starting task: attempt\_local756343983\_0001\_m\_000000\_0

2024-11-25 09:44:30,365 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2

2024-11-25 09:44:30,366 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup \_temporary folders under output directory:false, ignore cleanup failures: false

2024-11-25 09:44:30,386 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]

2024-11-25 09:44:30,391 INFO mapred.MapTask: Processing split: hdfs://namenode:8020/input/sample.txt:0+81

2024-11-25 09:44:30,448 INFO mapred.MapTask: (EQUATOR) 0 kvi 26214396(104857584)

2024-11-25 09:44:30,449 INFO mapred.MapTask: mapreduce.task.io.sort.mb: 100

2024-11-25 09:44:30,449 INFO mapred.MapTask: soft limit at 83886080

2024-11-25 09:44:30,449 INFO mapred.MapTask: bufstart = 0; bufvoid = 104857600

2024-11-25 09:44:30,449 INFO mapred.MapTask: kvstart = 26214396; length = 6553600

2024-11-25 09:44:30,455 INFO mapred.MapTask: Map output collector class = org.apache.hadoop.mapred.MapTask$MapOutputBuffer

2024-11-25 09:44:30,477 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2024-11-25 09:44:30,544 INFO mapred.LocalJobRunner:

2024-11-25 09:44:30,547 INFO mapred.MapTask: Starting flush of map output

2024-11-25 09:44:30,547 INFO mapred.MapTask: Spilling map output

2024-11-25 09:44:30,547 INFO mapred.MapTask: bufstart = 0; bufend = 134; bufvoid = 104857600

2024-11-25 09:44:30,547 INFO mapred.MapTask: kvstart = 26214396(104857584); kvend = 26214348(104857392); length = 49/6553600

2024-11-25 09:44:30,558 INFO mapred.MapTask: Finished spill 0

2024-11-25 09:44:30,568 INFO mapred.Task: Task:attempt\_local756343983\_0001\_m\_000000\_0 is done. And is in the process of committing

2024-11-25 09:44:30,575 INFO mapred.LocalJobRunner: map

2024-11-25 09:44:30,575 INFO mapred.Task: Task 'attempt\_local756343983\_0001\_m\_000000\_0' done.

2024-11-25 09:44:30,582 INFO mapred.Task: Final Counters for attempt\_local756343983\_0001\_m\_000000\_0: Counters: 24

File System Counters

FILE: Number of bytes read=316693

FILE: Number of bytes written=839567

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=81

HDFS: Number of bytes written=0

HDFS: Number of read operations=5

HDFS: Number of large read operations=0

HDFS: Number of write operations=1

HDFS: Number of bytes read erasure-coded=0

Map-Reduce Framework

Map input records=1

Map output records=13

Map output bytes=134

Map output materialized bytes=166

Input split bytes=102

Combine input records=13

Combine output records=13

Spilled Records=13

Failed Shuffles=0

Merged Map outputs=0

GC time elapsed (ms)=0

Total committed heap usage (bytes)=273154048

File Input Format Counters

Bytes Read=81

2024-11-25 09:44:30,582 INFO mapred.LocalJobRunner: Finishing task: attempt\_local756343983\_0001\_m\_000000\_0

2024-11-25 09:44:30,582 INFO mapred.LocalJobRunner: map task executor complete.

2024-11-25 09:44:30,586 INFO mapred.LocalJobRunner: Waiting for reduce tasks

2024-11-25 09:44:30,588 INFO mapred.LocalJobRunner: Starting task: attempt\_local756343983\_0001\_r\_000000\_0

2024-11-25 09:44:30,595 INFO output.FileOutputCommitter: File Output Committer Algorithm version is 2

2024-11-25 09:44:30,595 INFO output.FileOutputCommitter: FileOutputCommitter skip cleanup \_temporary folders under output directory:false, ignore cleanup failures: false

2024-11-25 09:44:30,597 INFO mapred.Task: Using ResourceCalculatorProcessTree : [ ]

2024-11-25 09:44:30,600 INFO mapred.ReduceTask: Using ShuffleConsumerPlugin: org.apache.hadoop.mapreduce.task.reduce.Shuffle@20567a1d

2024-11-25 09:44:30,602 WARN impl.MetricsSystemImpl: JobTracker metrics system already initialized!

2024-11-25 09:44:30,620 INFO reduce.MergeManagerImpl: MergerManager: memoryLimit=627939712, maxSingleShuffleLimit=156984928, mergeThreshold=414440224, ioSortFactor=10, memToMemMergeOutputsThreshold=10

2024-11-25 09:44:30,624 INFO reduce.EventFetcher: attempt\_local756343983\_0001\_r\_000000\_0 Thread started: EventFetcher for fetching Map Completion Events

2024-11-25 09:44:30,644 INFO reduce.LocalFetcher: localfetcher#1 about to shuffle output of map attempt\_local756343983\_0001\_m\_000000\_0 decomp: 162 len: 166 to MEMORY

2024-11-25 09:44:30,647 INFO reduce.InMemoryMapOutput: Read 162 bytes from map-output for attempt\_local756343983\_0001\_m\_000000\_0

2024-11-25 09:44:30,650 INFO reduce.MergeManagerImpl: closeInMemoryFile -> map-output of size: 162, inMemoryMapOutputs.size() -> 1, commitMemory -> 0, usedMemory ->162

2024-11-25 09:44:30,651 INFO reduce.EventFetcher: EventFetcher is interrupted.. Returning

2024-11-25 09:44:30,652 INFO mapred.LocalJobRunner: 1 / 1 copied.

2024-11-25 09:44:30,653 INFO reduce.MergeManagerImpl: finalMerge called with 1 in-memory map-outputs and 0 on-disk map-outputs

2024-11-25 09:44:30,660 INFO mapred.Merger: Merging 1 sorted segments

2024-11-25 09:44:30,660 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 148 bytes

2024-11-25 09:44:30,661 INFO reduce.MergeManagerImpl: Merged 1 segments, 162 bytes to disk to satisfy reduce memory limit

2024-11-25 09:44:30,662 INFO reduce.MergeManagerImpl: Merging 1 files, 166 bytes from disk

2024-11-25 09:44:30,662 INFO reduce.MergeManagerImpl: Merging 0 segments, 0 bytes from memory into reduce

2024-11-25 09:44:30,662 INFO mapred.Merger: Merging 1 sorted segments

2024-11-25 09:44:30,663 INFO mapred.Merger: Down to the last merge-pass, with 1 segments left of total size: 148 bytes

2024-11-25 09:44:30,664 INFO mapred.LocalJobRunner: 1 / 1 copied.

2024-11-25 09:44:30,693 INFO Configuration.deprecation: mapred.skip.on is deprecated. Instead, use mapreduce.job.skiprecords

2024-11-25 09:44:30,724 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

2024-11-25 09:44:30,769 INFO mapred.Task: Task:attempt\_local756343983\_0001\_r\_000000\_0 is done. And is in the process of committing

2024-11-25 09:44:30,772 INFO mapred.LocalJobRunner: 1 / 1 copied.

2024-11-25 09:44:30,773 INFO mapred.Task: Task attempt\_local756343983\_0001\_r\_000000\_0 is allowed to commit now

2024-11-25 09:44:30,789 INFO output.FileOutputCommitter: Saved output of task 'attempt\_local756343983\_0001\_r\_000000\_0' to hdfs://namenode:8020/output

2024-11-25 09:44:30,790 INFO mapred.LocalJobRunner: reduce > reduce

2024-11-25 09:44:30,790 INFO mapred.Task: Task 'attempt\_local756343983\_0001\_r\_000000\_0' done.

2024-11-25 09:44:30,790 INFO mapred.Task: Final Counters for attempt\_local756343983\_0001\_r\_000000\_0: Counters: 30

File System Counters

FILE: Number of bytes read=317057

FILE: Number of bytes written=839733

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=81

HDFS: Number of bytes written=108

HDFS: Number of read operations=10

HDFS: Number of large read operations=0

HDFS: Number of write operations=3

HDFS: Number of bytes read erasure-coded=0

Map-Reduce Framework

Combine input records=0

Combine output records=0

Reduce input groups=13

Reduce shuffle bytes=166

Reduce input records=13

Reduce output records=13

Spilled Records=13

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=10

Total committed heap usage (bytes)=274202624

Shuffle Errors

BAD\_ID=0

CONNECTION=0

IO\_ERROR=0

WRONG\_LENGTH=0

WRONG\_MAP=0

WRONG\_REDUCE=0

File Output Format Counters

Bytes Written=108

2024-11-25 09:44:30,791 INFO mapred.LocalJobRunner: Finishing task: attempt\_local756343983\_0001\_r\_000000\_0

2024-11-25 09:44:30,791 INFO mapred.LocalJobRunner: reduce task executor complete.

2024-11-25 09:44:31,286 INFO mapreduce.Job: Job job\_local756343983\_0001 running in uber mode : false

2024-11-25 09:44:31,287 INFO mapreduce.Job: map 100% reduce 100%

2024-11-25 09:44:31,288 INFO mapreduce.Job: Job job\_local756343983\_0001 completed successfully

2024-11-25 09:44:31,294 INFO mapreduce.Job: Counters: 36

File System Counters

FILE: Number of bytes read=633750

FILE: Number of bytes written=1679300

FILE: Number of read operations=0

FILE: Number of large read operations=0

FILE: Number of write operations=0

HDFS: Number of bytes read=162

HDFS: Number of bytes written=108

HDFS: Number of read operations=15

HDFS: Number of large read operations=0

HDFS: Number of write operations=4

HDFS: Number of bytes read erasure-coded=0

Map-Reduce Framework

Map input records=1

Map output records=13

Map output bytes=134

Map output materialized bytes=166

Input split bytes=102

Combine input records=13

Combine output records=13

Reduce input groups=13

Reduce shuffle bytes=166

Reduce input records=13

Reduce output records=13

Spilled Records=26

Shuffled Maps =1

Failed Shuffles=0

Merged Map outputs=1

GC time elapsed (ms)=10

Total committed heap usage (bytes)=547356672

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=81

File Output Format Counters

Bytes Written=108

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hdfs -ls /output

/opt/hadoop-3.2.1/libexec/hadoop-functions.sh: line 2401: HDFS\_-LS\_USER: bad substitution

/opt/hadoop-3.2.1/libexec/hadoop-functions.sh: line 2366: HDFS\_-LS\_USER: bad substitution

ERROR: -ls is not COMMAND nor fully qualified CLASSNAME.

Usage: hdfs [OPTIONS] SUBCOMMAND [SUBCOMMAND OPTIONS]

OPTIONS is none or any of:

--buildpaths attempt to add class files from build tree

--config dir Hadoop config directory

--daemon (start|status|stop) operate on a daemon

--debug turn on shell script debug mode

--help usage information

--hostnames list[,of,host,names] hosts to use in worker mode

--hosts filename list of hosts to use in worker mode

--loglevel level set the log4j level for this command

--workers turn on worker mode

SUBCOMMAND is one of:

Admin Commands:

cacheadmin configure the HDFS cache

crypto configure HDFS encryption zones

debug run a Debug Admin to execute HDFS debug commands

dfsadmin run a DFS admin client

dfsrouteradmin manage Router-based federation

ec run a HDFS ErasureCoding CLI

fsck run a DFS filesystem checking utility

haadmin run a DFS HA admin client

jmxget get JMX exported values from NameNode or DataNode.

oev apply the offline edits viewer to an edits file

oiv apply the offline fsimage viewer to an fsimage

oiv\_legacy apply the offline fsimage viewer to a legacy fsimage

storagepolicies list/get/set/satisfyStoragePolicy block storage policies

Client Commands:

classpath prints the class path needed to get the hadoop jar and the required libraries

dfs run a filesystem command on the file system

envvars display computed Hadoop environment variables

fetchdt fetch a delegation token from the NameNode

getconf get config values from configuration

groups get the groups which users belong to

lsSnapshottableDir list all snapshottable dirs owned by the current user

snapshotDiff diff two snapshots of a directory or diff the current directory contents with a snapshot

version print the version

Daemon Commands:

balancer run a cluster balancing utility

datanode run a DFS datanode

dfsrouter run the DFS router

diskbalancer Distributes data evenly among disks on a given node

httpfs run HttpFS server, the HDFS HTTP Gateway

journalnode run the DFS journalnode

mover run a utility to move block replicas across storage types

namenode run the DFS namenode

nfs3 run an NFS version 3 gateway

portmap run a portmap service

secondarynamenode run the DFS secondary namenode

sps run external storagepolicysatisfier

zkfc run the ZK Failover Controller daemon

SUBCOMMAND may print help when invoked w/o parameters or with -h.

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hdfs dfs -ls /output

Found 2 items

-rw-r--r-- 3 root supergroup 0 2024-11-25 09:44 /output/\_SUCCESS

-rw-r--r-- 3 root supergroup 108 2024-11-25 09:44 /output/part-r-00000

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker exec -it namenode hdfs dfs -cat /output/part-r-00000

2024-11-25 09:55:46,457 INFO sasl.SaslDataTransferClient: SASL encryption trust check: localHostTrusted = false, remoteHostTrusted = false

Distributed 1

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PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> docker-compose down

time="2024-11-25T15:31:07+05:30" level=warning msg="D:\\3.2 lectures\\parallel\\Practicel\\Distributed-programming\\docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion"

[+] Running 4/4

✔ Container historyserver Removed 10.5s

✔ Container datanode Removed 10.6s

✔ Container namenode Removed 10.5s

✔ Network distributed-programming\_default Removed 0.3s

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> git init

Initialized empty Git repository in D:/3.2 lectures/parallel/Practicel/Distributed-programming/.git/

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> git add .

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> git commit -m "Distributed hadoop programming"

[master (root-commit) 3f71ffe] Distributed hadoop programming

2 files changed, 80 insertions(+)

create mode 100644 docker-compose.yml

create mode 100644 sample.txt

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> git bramch -M main

git: 'bramch' is not a git command. See 'git --help'.

The most similar command is

branch

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> git branch -M main

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> git remote add origin https://github.com/Thars7/Distributed-Hadoop-Programming.git

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming> git push -u origin main

Enumerating objects: 4, done.

Counting objects: 100% (4/4), done.

Delta compression using up to 8 threads

Compressing objects: 100% (4/4), done.

Writing objects: 100% (4/4), 774 bytes | 774.00 KiB/s, done.

Total 4 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

To https://github.com/Thars7/Distributed-Hadoop-Programming.git

\* [new branch] main -> main

branch 'main' set up to track 'origin/main'.

PS D:\3.2 lectures\parallel\Practicel\Distributed-programming>