

## IT8711 – FOSS and Cloud computing Laboratory

Roll No.: 19UITE019

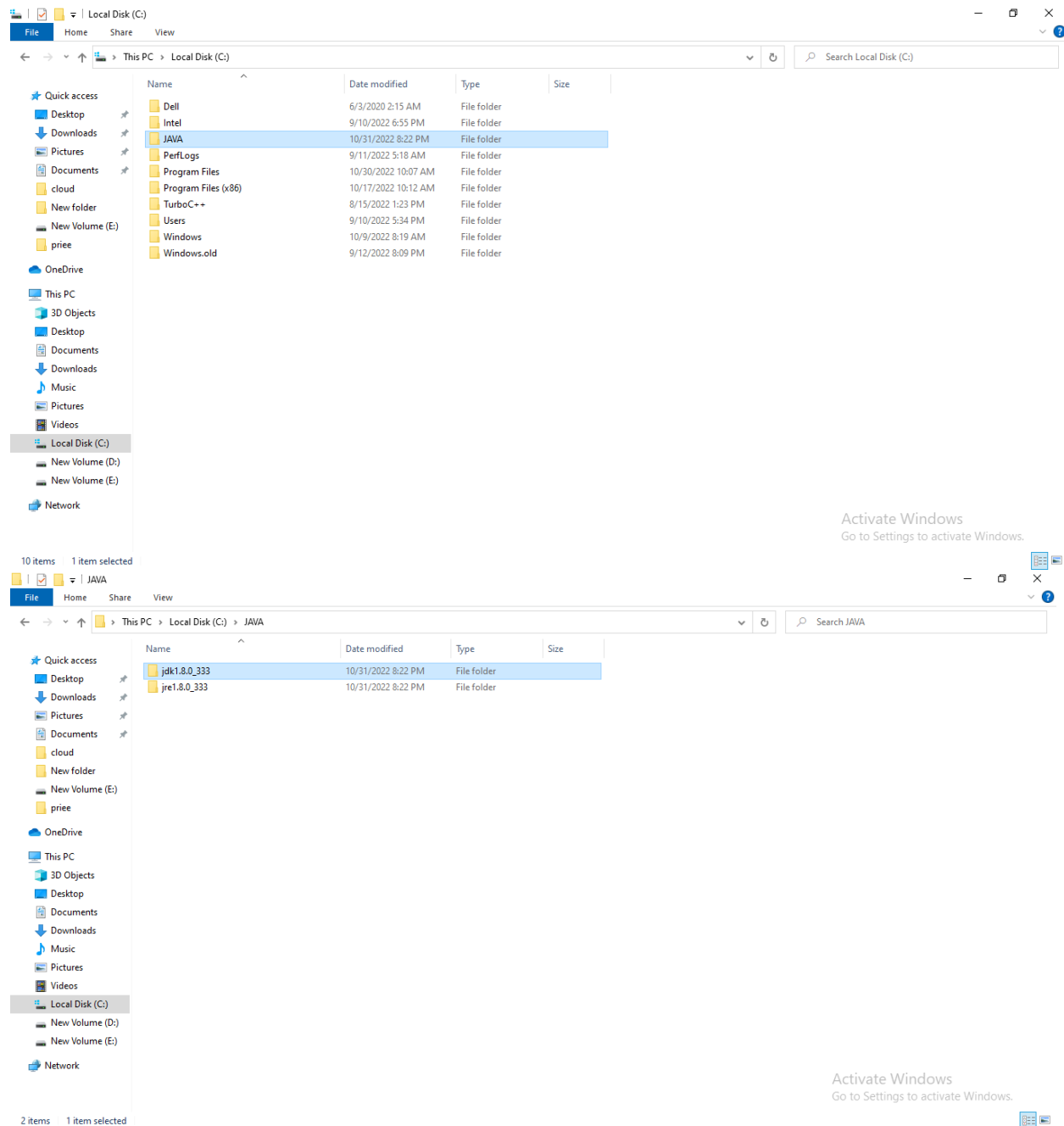
Register No.: 920419205045

Name : N.Umamaheswari

Date : 15.10.2022

### Ex 9:

### Installation of Single Node Hadoop Cluster



jdk1.8.0\_333

FileHomeShareView

←→↑>This PC>Local Disk (C:)>JAVA>jdk1.8.0\_333

Search jdk1.8.0\_333

Quick access

Desktop

Downloads

Pictures

Documents

cloud

New folder

New Volume (E:)

prie

OneDrive

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Local Disk (C:)

New Volume (D:)

New Volume (E:)

Network

Name	Date modified	Type	Size
bin	10/31/2022 8:21 PM	File folder	
include	10/31/2022 8:21 PM	File folder	
jre	10/31/2022 8:21 PM	File folder	
legal	10/31/2022 8:21 PM	File folder	
lib	10/31/2022 8:21 PM	File folder	
COPYRIGHT	4/25/2022 11:19 PM	File	4 KB
javafx-src	10/31/2022 8:21 PM	Compressed (zipp...	5,115 KB
jmc	10/31/2022 8:21 PM	Text Document	1 KB
LICENSE	10/31/2022 8:21 PM	File	1 KB
README	10/31/2022 8:21 PM	Microsoft Edge H...	1 KB
release	10/31/2022 8:21 PM	File	1 KB
src	4/25/2022 11:19 PM	Compressed (zipp...	20,672 KB
THIRDPARTYLICENSEREADME	10/31/2022 8:21 PM	Text Document	1 KB
THIRDPARTYLICENSEREADME-JAVAFX	10/31/2022 8:21 PM	Text Document	1 KB

14 items

Activate Windows  
Go to Settings to activate Windows.

jre1.8.0\_333

FileHomeShareView

←→↑>This PC>Local Disk (C:)>JAVA>jre1.8.0\_333

Search jre1.8.0\_333

Quick access

Desktop

Downloads

Pictures

Documents

cloud

New folder

New Volume (E:)

prie

OneDrive

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Local Disk (C:)

New Volume (D:)

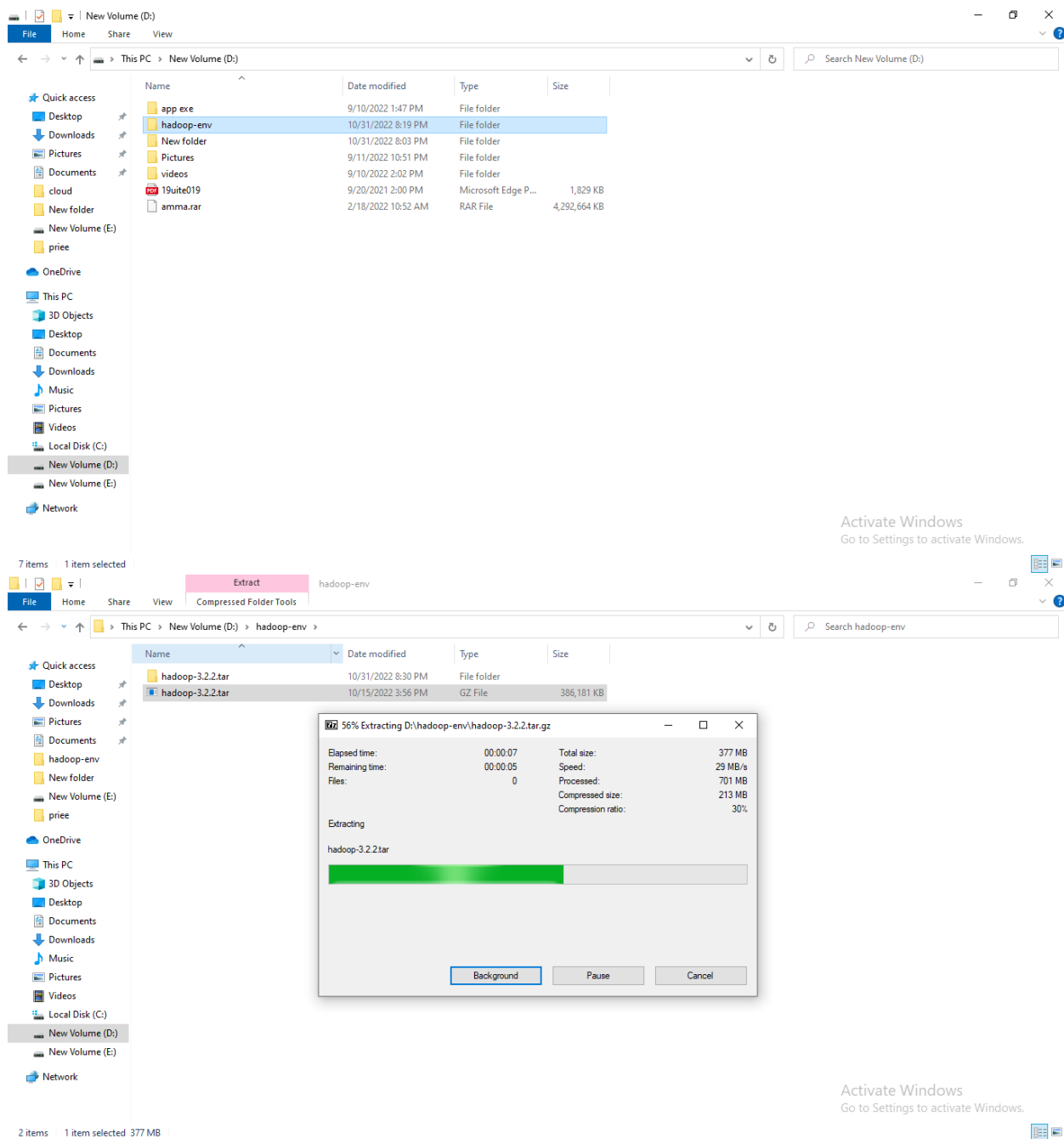
New Volume (E:)

Network

Name	Date modified	Type	Size
bin	10/31/2022 8:22 PM	File folder	
legal	10/31/2022 8:22 PM	File folder	
lib	10/31/2022 8:22 PM	File folder	
COPYRIGHT	10/31/2022 8:22 PM	File	4 KB
LICENSE	10/31/2022 8:22 PM	File	1 KB
README	10/31/2022 8:22 PM	Text Document	1 KB
release	10/31/2022 8:22 PM	File	1 KB
THIRDPARTYLICENSEREADME	10/31/2022 8:22 PM	Text Document	1 KB
THIRDPARTYLICENSEREADME-JAVAFX	10/31/2022 8:22 PM	Text Document	1 KB
Welcome	10/31/2022 8:22 PM	Microsoft Edge H...	1 KB

10 items

Activate Windows  
Go to Settings to activate Windows.



File Explorer window showing the extraction of `hadoop-3.2.2.tar` from the `hadoop-3.2.2` folder. The file is a TAR File, 935,330 KB, and was modified on 1/3/2021 4:16 PM. The extraction progress is shown in a dialog box.

13% Extracting D:\hadoop-env\hadoop-3.2.2\hadoop-3.2.2.tar

Elapsed time:	00:00:16	Total size:	877 MB
Remaining time:	00:01:40	Speed:	7689 KB/s
Files:	7441	Processed:	120 MB
		Compressed size:	122 MB
		Compression ratio:	101%

Extracting  
hadoop-3.2.2\share\doc\hadoop\hadoop-yarn...scheduler\constraint\processor\class-use\BatchedRequests.html

Background Pause Cancel

File Explorer window showing the contents of the `bin` directory. The directory contains 15 items, including `hadoop`, `hadoop.dll`, `hadoop.exp`, `hadoop.lib`, `hadoop.pdb`, `hdfs`, `libwinutils.lib`, `mapred`, `mapred.dll`, `winutils`, `winutils.pdb`, `yarn`, and `yarn.dll`. The total size of the items is 3.95 MB.

Name	Date modified	Type	Size
hadoop	10/15/2022 3:56 PM	File	9 KB
hadoop.dll	10/15/2022 3:56 PM	Windows Comma...	11 KB
hadoop.dll	10/15/2022 3:56 PM	Application exten...	94 KB
hadoop.exp	10/15/2022 3:56 PM	EXP File	25 KB
hadoop.lib	10/15/2022 3:56 PM	LIB File	41 KB
hadoop.pdb	10/15/2022 3:56 PM	PDB File	820 KB
hdfs	10/15/2022 3:56 PM	File	12 KB
hdfs	10/15/2022 3:56 PM	Windows Comma...	8 KB
libwinutils.lib	10/15/2022 3:56 PM	LIB File	1,561 KB
mapred	10/15/2022 3:56 PM	File	7 KB
mapred.dll	10/15/2022 3:56 PM	Windows Comma...	6 KB
winutils	10/15/2022 3:56 PM	Application	116 KB
winutils.pdb	10/15/2022 3:56 PM	PDB File	1,324 KB
yarn	10/15/2022 3:56 PM	File	12 KB
yarn.dll	10/15/2022 3:56 PM	Windows Comma...	13 KB

hadoop-3.2.2

File Home Share View

← → ↑ ↓ This PC > New Volume (D:) > hadoop-env > hadoop-3.2.2.tar > hadoop-3.2.2

Search hadoop-3.2.2

Name	Date modified	Type	Size
bin	10/31/2022 8:35 PM	File folder	
etc	1/3/2021 2:59 PM	File folder	
include	1/3/2021 3:41 PM	File folder	
lib	1/3/2021 3:41 PM	File folder	
libexec	1/3/2021 3:41 PM	File folder	
sbin	1/3/2021 2:59 PM	File folder	
share	1/3/2021 4:16 PM	File folder	
LICENSE	12/5/2020 8:39 PM	Text Document	148 KB
NOTICE	12/5/2020 8:39 PM	Text Document	22 KB
README	12/5/2020 8:39 PM	Text Document	2 KB

10 items 1 item selected

File Home Share View Manage Application Tools hadoop

← → ↑ ↓ This PC > New Volume (D:) > hadoop-env > hadoop-3.2.2.tar > hadoop-3.2.2 > etc > hadoop

Search hadoop

Name	Date modified	Type	Size
shellprofile.d	1/3/2021 2:58 PM	File folder	
capacity-scheduler	1/3/2021 3:24 PM	XML Document	9 KB

hadoop-env - Notepad

File Edit Format View Help

```
@rem (the "License"); you may not use this file except in compliance with
@rem the License. You may obtain a copy of the License at
@rem
@rem http://www.apache.org/licenses/LICENSE-2.0
@rem
@rem Unless required by applicable law or agreed to in writing, software
@rem distributed under the License is distributed on an "AS IS" BASIS,
@rem WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.
@rem See the License for the specific language governing permissions and
@rem limitations under the License.
@rem
@rem Set Hadoop-specific environment variables here.
@rem
@rem The only required environment variable is JAVA_HOME. All others are
@rem optional. When running a distributed configuration it is best to
@rem set JAVA_HOME in this file, so that it is correctly defined on
@rem remote nodes.
@rem The java implementation to use. Required.
set JAVA_HOME = C:\JAVA\jdk1.8.0_333
@rem The jsvc implementation to use. Jsvc is required to run secure datanodes.
@rem set JSVC_HOME=%JSVC_HOME%
```

Ln 25, Col 37 100% Windows (CRLF) UTF-8

user\_ec\_policies.xml.template 1/3/2021 3:02 PM TEMPLATE FILE 3 KB

workers 1/3/2021 2:58 PM File 1 KB

32 items 1 item selected 3.91 KB

Activate Windows  
Go to Settings to activate Windows.

Settings

Home

Find a setting

System

Display

Sound

Notifications & actions

Focus assist

Power & sleep

Battery

Storage

Tablet

Multitasking

Projecting to this PC

Shared experiences

## About

Your PC is monitored and protected.

[See details in Windows Security](#)

### Device specifications

Device name	Uma
Processor	Intel(R) Core(TM) i5-8250U CPU @ 1.60GHz 1.80 GHz
Installed RAM	8.00 GB (7.77 GB usable)
Device ID	3FCE8739-495D-4213-937D-04123152F919
Product ID	00331-10000-00001-AA765
System type	64-bit operating system, x64-based processor
Pen and touch	No pen or touch input is available for this display

Copy

Rename this PC

### Windows specifications

Edition	Windows 10 Pro
Version	21H2
Installed on	9/10/2022
OS build	19044.1889
Experience	Windows Feature Experience Pack 120.2212.4180.0

This page has a few new settings

Some settings from Control Panel have moved here, and you can copy your PC info so it's easier to share.

Related settings

[BitLocker settings](#)

[Device Manager](#)

[Remote desktop](#)

[System protection](#)

[Advanced system settings](#)

[Rename this PC \(advanced\)](#)

Help from the web

[Finding out how many cores my processor has](#)

[Checking multiple Languages support](#)

Activate Windows

Go to [Get help](#) activate Windows.

[Give feedback](#)

System Properties

Computer Name Hardware Advanced System Protection Remote

You must be logged on as an Administrator to make most of these changes.

Performance

Visual effects, processor scheduling, memory usage, and virtual memory

Settings...

User Profiles

Desktop settings related to your sign-in

Settings...

Startup and Recovery

System startup, system failure, and debugging information

Settings...

Environment Variables...

OK Cancel Apply

Environment Variables

User variables for Kaliraj

Variable	Value
OneDrive	C:\Users\Kaliraj\OneDrive
Path	C:\Users\Kaliraj\AppData\Local\Microsoft\WindowsApps;
TEMP	C:\Users\Kaliraj\AppData\Local\Temp
TMP	C:\Users\Kaliraj\AppData\Local\Temp

New... Edit... Delete

System variables

Variable	Value
ComSpec	C:\WINDOWS\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
NUMBER_OF_PROCESSORS	8
OS	Windows_NT
Path	C:\Program Files\Common Files\Oracle\Java\javapath;C:\Program ...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTURE	AMD64

New... Edit... Delete

OK Cancel

New User Variable

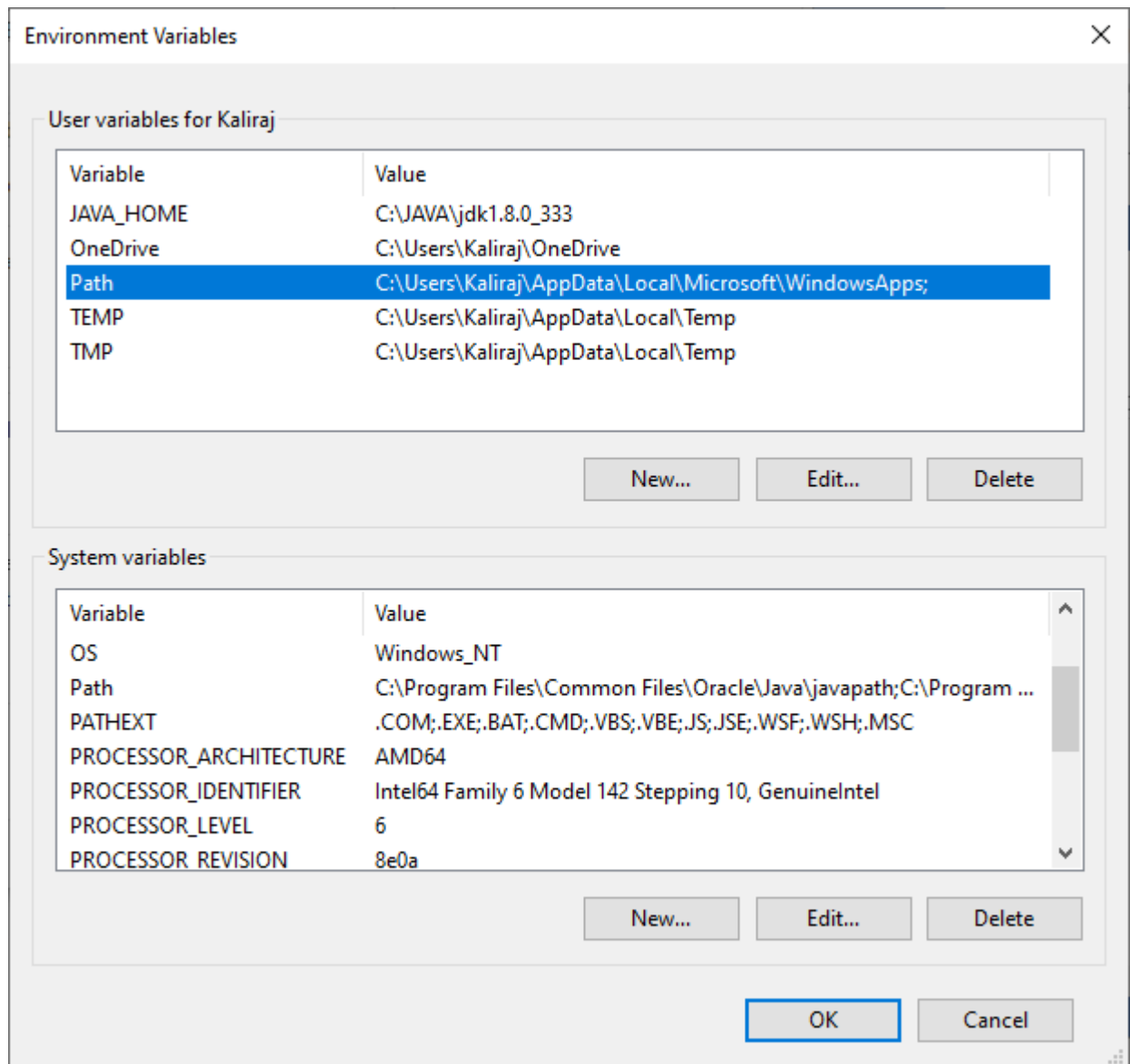
Variable name:

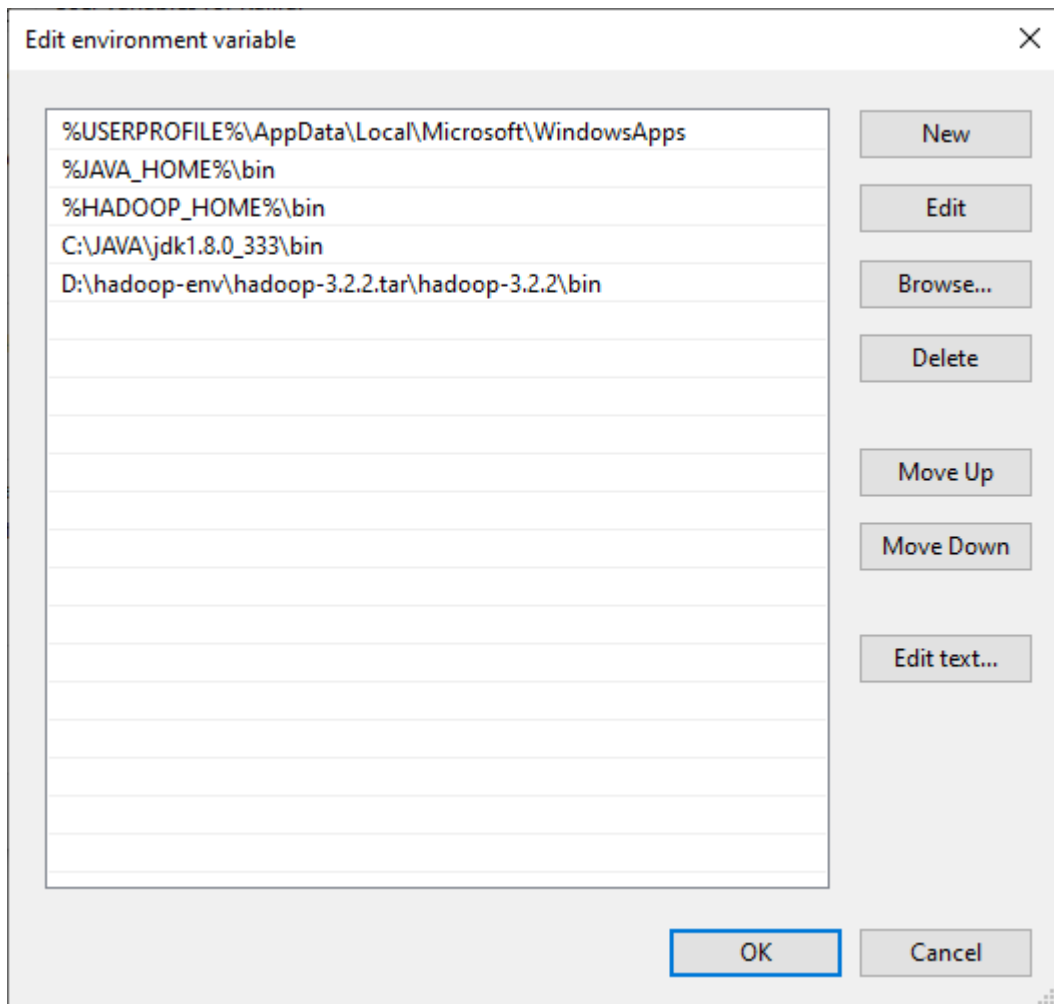
JAVA\_HOME

Variable value:

C:\JAVA\jdk1.8.0\_333\

Browse Directory... Browse File... OK Cancel





```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19044.1889]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>hadoop -version
java version "1.8.0_333"
Java(TM) SE Runtime Environment (build 1.8.0_333-b02)
Java HotSpot(TM) 64-Bit Server VM (build 25.333-b02, mixed mode)

C:\WINDOWS\system32>
```



Edit User Variable

Variable name: HADOOP\_HOME

Variable value: D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\bin

Browse Directory... Browse File... OK Cancel

Environment Variables

User variables for Kaliraj

Variable	Value
HADOOP_HOME	D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\bin
JAVA_HOME	C:\JAVA\jdk1.8.0_333
Path	C:\Users\Kaliraj\AppData\Local\Microsoft\WindowsApps;C:\JAVA\j...
TEMP	C:\Users\Kaliraj\AppData\Local\Temp
TMP	C:\Users\Kaliraj\AppData\Local\Temp

New... Edit... Delete

System variables

Variable	Value
ComSpec	C:\WINDOWS\system32\cmd.exe
DriverData	C:\Windows\System32\Drivers\DriverData
NUMBER_OF_PROCESSORS	8
OS	Windows_NT
Path	C:\Program Files\Common Files\Oracle\Java\javapath;C:\Program ...
PATHEXT	.COM;.EXE;.BAT;.CMD;.VBS;.VBE;.JS;.JSE;.WSF;.WSH;.MSC
PROCESSOR_ARCHITECTURE	AMD64

New... Edit... Delete

OK Cancel



```
Administrator: Command Prompt

D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>.\start-dfs.cmd

D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>

2022-10-31 22:30:12,081 INFO blockmanagement.BlockManager: Number of over-replicated blocks = 0
2022-10-31 22:30:12,081 INFO blockmanagement.BlockManager: Number of blocks being written = 0
2022-10-31 22:30:12,081 INFO hdfs.StateChange: STATE* Replication Queue initialization scan for invalid, over- and under-replicated blocks completed in 26 msec
2022-10-31 22:30:12,143 INFO ipc.Server: IPC Server Responder: starting
2022-10-31 22:30:12,143 INFO ipc.Server: IPC Server listener on 9820: starting
2022-10-31 22:30:12,159 INFO namenode.NameNode: NameNode RPC up at: localhost/127.0.0.1:9820
2022-10-31 22:30:12,159 INFO namenode.FSNamesystem: Starting services required for active state
2022-10-31 22:30:12,159 INFO namenode.FSDirectory: Initializing quota with 4 thread(s)
2022-10-31 22:30:12,159 INFO namenode.FSDirectory: Quota initialization completed in 6 milliseconds
name space=1
storage space=0
storage types=RAM_DISK=0, SSD=0, DISK=0, ARCHIVE=0, PROVIDED=0
2022-10-31 22:30:12,175 INFO blockmanagement.CacheReplicationMonitor: Starting CacheReplicationMonitor with interval 30000 milliseconds
2022-10-31 22:30:13,046 INFO hdfs.StateChange: BLOCK* registerDatanode: from DatanodeRegistration(127.0.0.1:9866, datanodeUuid=5d3e8bd7-c129-4796-82be-4c3c4e196c07, infoPort=9864, infoSecurePort=0, ipcPort=9867, storageInfo=lv=-57;cid=CID-e074220b-c0b9-4c05-a690-6f929422dc09;nsid=358739065;c=1667235193525) storage 5d3e8bd7-c129-4796-82be-4c3c4e196c07
2022-10-31 22:30:13,048 INFO net.NetworkTopology: Adding a new node: /default-rack/127.0.0.1:9866
2022-10-31 22:30:13,048 INFO blockmanagement.BlockReportLeaseManager: Registered DN 5d3e8bd7-c129-4796-82be-4c3c4e196c07 (127.0.0.1:9866).
2022-10-31 22:30:13,149 INFO blockmanagement.DatanodeDescriptor: Adding new storage ID DS-3e408221-ab46-4b4c-8b05-9745782cd7ef for DN 127.0.0.1:9866
2022-10-31 22:30:13,191 INFO BLOCK* processReport 0x92ee3053cb0dd573: Processing first storage report for DS-3e408221-ab46-4b4c-8b05-9745782cd7ef from datanode 5d3e8bd7-c129-4796-82be-4c3c4e196c07
2022-10-31 22:30:13,193 INFO BLOCK* processReport 0x92ee3053cb0dd573: from storage DS-3e408221-ab46-4b4c-8b05-9745782cd7ef node DatanodeRegistration(127.0.0.1:9866, datanodeUuid=5d3e8bd7-c129-4796-82be-4c3c4e196c07, infoPort=9864, infoSecurePort=0, ipcPort=9867, storageInfo=lv=-57;cid=CID-e074220b-c0b9-4c05-a690-6f929422dc09;nsid=358739065;c=1667235193525), blocks: 0, hasStaleStorage: false, processing time: 2 msecs, invalidatedBlocks: 0
```

```
Apache Hadoop Distribution - hadoop datanode
2022-10-31 22:30:12,931 INFO checker.DatasetVolumeChecker: Scheduled health check for volume D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode
2022-10-31 22:30:12,934 INFO datanode.VolumeScanner: Now scanning bpid BP-203269082-127.0.0.1-1667235193525 on volume D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode
2022-10-31 22:30:12,935 INFO datanode.VolumeScanner: VolumeScanner(D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode, DS-3e408221-ab46-4b4c-8b05-9745782cd7ef): finished scanning block pool BP-203269082-127.0.0.1-1667235193525
2022-10-31 22:30:13,000 INFO datanode.VolumeScanner: VolumeScanner(D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode, DS-3e408221-ab46-4b4c-8b05-9745782cd7ef): no suitable block pools found to scan. Waiting 1814399934 ms.
2022-10-31 22:30:13,002 INFO datanode.DirectoryScanner: Periodic Directory Tree Verification scan starting at 11/1/22 12:32 AM with interval of 2160000ms
2022-10-31 22:30:13,010 INFO datanode.DataNode: Block pool BP-203269082-127.0.0.1-1667235193525 (Datanode Uuid 5d3e8bd7-c129-4796-82be-4c3c4e196c07) service to localhost/127.0.0.1:9820 beginning handshake with NN
2022-10-31 22:30:13,063 INFO datanode.DataNode: Block pool BP-203269082-127.0.0.1-1667235193525 (Datanode Uuid 5d3e8bd7-c129-4796-82be-4c3c4e196c07) service to localhost/127.0.0.1:9820 successfully registered with NN
2022-10-31 22:30:13,063 INFO datanode.DataNode: For namenode localhost/127.0.0.1:9820 using BLOCKREPORT_INTERVAL of 2160000msec CACHEREPORT_INTERVAL of 10000msec Initial delay: 0msec; heartBeatInterval=3000
2022-10-31 22:30:13,268 INFO datanode.DataNode: Successfully sent block report 0x92ee3053cb0dd573, containing 1 storage report(s), of which we sent 1. The reports had 0 total blocks and used 1 RPC(s). This took 3 msec to generate and 94 msec for RPC and NN processing. Got back one command: FinalizeCommand/5.
2022-10-31 22:30:13,268 INFO datanode.DataNode: Got finalize command for block pool BP-203269082-127.0.0.1-1667235193525
```

```
Administrator: Command Prompt
D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>.\start-dfs.cmd

D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>.\start-yarn.cmd
starting yarn daemons

D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>
```

```
Apache Hadoop Distribution - yarn resourcemanager
2022-10-31 22:32:23,415 INFO store.AbstractFSNodeStore: Finished create editlog file at:file:/tmp/hadoop-yarn-Kaliraj/no
de-attribute/nodeattribute.editlog
2022-10-31 22:32:23,427 INFO event.AsyncDispatcher: Registering class org.apache.hadoop.yarn.server.resourcemanager.node
labels.NodeAttributesStoreEventType for class org.apache.hadoop.yarn.server.resourcemanager.nodelabels.NodeAttributesMan
agerImpl$ForwardingEventHandler
2022-10-31 22:32:23,428 INFO placement.MultiNodeSortingManager: Starting NodeSortingService=MultiNodeSortingManager
2022-10-31 22:32:23,453 INFO ipc.CallQueueManager: Using callQueue: class java.util.concurrent.LinkedBlockingQueue, queu
eCapacity: 5000, scheduler: class org.apache.hadoop.ipc.DefaultRpcScheduler, ipcBackoff: false.
2022-10-31 22:32:23,456 INFO ipc.Server: Starting Socket Reader #1 for port 8031
2022-10-31 22:32:23,459 INFO pb.RpcServerFactoryPBImpl: Adding protocol org.apache.hadoop.yarn.server.api.ResourceTracke
rPB to the server
2022-10-31 22:32:23,459 INFO ipc.Server: IPC Server Responder: starting
2022-10-31 22:32:23,460 INFO ipc.Server: IPC Server listener on 8031: starting
2022-10-31 22:32:23,466 INFO util.JvmPauseMonitor: Starting JVM pause monitor
2022-10-31 22:32:23,512 INFO ipc.CallQueueManager: Using callQueue: class java.util.concurrent.LinkedBlockingQueue, queu
eCapacity: 5000, scheduler: class org.apache.hadoop.ipc.DefaultRpcScheduler, ipcBackoff: false.
2022-10-31 22:32:23,518 INFO ipc.Server: Starting Socket Reader #1 for port 8030
2022-10-31 22:32:23,530 INFO pb.RpcServerFactoryPBImpl: Adding protocol org.apache.hadoop.yarn.api.ApplicationMasterProt
ocolPB to the server
2022-10-31 22:32:23,531 INFO ipc.Server: IPC Server Responder: starting
2022-10-31 22:32:23,534 INFO ipc.Server: IPC Server listener on 8030: starting
2022-10-31 22:32:23,639 INFO ipc.CallQueueManager: Using callQueue: class java.util.concurrent.LinkedBlockingQueue, queu
eCapacity: 5000, scheduler: class org.apache.hadoop.ipc.DefaultRpcScheduler, ipcBackoff: false.
2022-10-31 22:32:23,641 INFO ipc.Server: Starting Socket Reader #1 for port 8032
2022-10-31 22:32:23,644 INFO pb.RpcServerFactoryPBImpl: Adding protocol org.apache.hadoop.yarn.api.ApplicationClientProt
ocolPB to the server
2022-10-31 22:32:23,645 INFO ipc.Server: IPC Server Responder: starting
2022-10-31 22:32:23,646 INFO ipc.Server: IPC Server listener on 8032: starting
2022-10-31 22:32:23,692 INFO resourcemanager.ResourceManager: Transitioned to active state

Administrator: Apache Hadoop Distribution
at org.apache.hadoop.service.AbstractService.init(AbstractService.java:164)
at org.apache.hadoop.service.CompositeService.serviceInit(CompositeService.java:108)
at org.apache.hadoop.yarn.server.nodemanager.containermanager.ContainerManagerImpl.serviceInit(ContainerManagerImpl.java:323)
at org.apache.hadoop.service.AbstractService.init(AbstractService.java:164)
at org.apache.hadoop.service.CompositeService.serviceInit(CompositeService.java:108)
at org.apache.hadoop.yarn.server.nodemanager.NodeManager.serviceInit(NodeManager.java:519)
at org.apache.hadoop.service.AbstractService.init(AbstractService.java:164)
at org.apache.hadoop.yarn.server.nodemanager.NodeManager.initAndStartNodeManager(NodeManager.java:977)
at org.apache.hadoop.yarn.server.nodemanager.NodeManager.main(NodeManager.java:1057)

at org.apache.hadoop.fs.RawLocalFileSystem$DeprecatedRawLocalFileStatus.loadPermissionInfoByNonNativeIO(RawLocal
FileSystem.java:793)
at org.apache.hadoop.fs.RawLocalFileSystem$DeprecatedRawLocalFileStatus.loadPermissionInfo(RawLocalFileSystem.ja
va:744)
at org.apache.hadoop.fs.RawLocalFileSystem$DeprecatedRawLocalFileStatus.getPermission(RawLocalFileSystem.java:70
5)
at org.apache.hadoop.yarn.server.nodemanager.containermanager.localizer.ResourceLocalizationService.initializeLoc
alDir(ResourceLocalizationService.java:1434)
at org.apache.hadoop.yarn.server.nodemanager.containermanager.localizer.ResourceLocalizationService.initializeLoc
alDirs(ResourceLocalizationService.java:1404)
at org.apache.hadoop.yarn.server.nodemanager.containermanager.localizer.ResourceLocalizationService.serviceInit(
ResourceLocalizationService.java:260)
... 9 more
2022-10-31 22:35:49,273 INFO nodemanager.NodeManager: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down NodeManager at Uma/127.0.0.1
*****/
D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>
```

```
Administrator: Command Prompt

D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>.\start-dfs.cmd

D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>.\start-yarn.cmd
starting yarn daemons

D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>jps
7604 DataNode
12424 Jps
8024 NameNode
14780 ResourceManager

D:\hadoop-env\hadoop-3.2.2.tar\hadoop-3.2.2\sbin>
```

## OUTPUT:

Namenode information

localhost:9870/dfshealth.html#tab-overview

Hadoop

Overview

Datanodes

Datanode Volume Failures

Snapshot

Startup Progress

Utilities

### Overview 'localhost:9820' (active)

Started:	Mon Oct 31 22:53:13 +0530 2022
Version:	3.2.2, r7a3bc90b05f257c8ace2f76d74264906f0f7a932
Compiled:	Sun Jan 03 14:56:00 +0530 2021 by hexliaoqiao from branch-3.2.2
Cluster ID:	CID-e074220b-c0b9-4c05-a690-6f929422dc09
Block Pool ID:	BP-203269082-127.0.0.1-1667235193525

### 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 86.2 MB of 192 MB Heap Memory. Max Heap Memory is 889 MB.

Non Heap Memory used 50.98 MB of 52.15 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

Activate Windows  
Go to Settings to activate Windows.

Namenode informationDataNode Information

localhost:9864/datanode.html

HadoopOverviewUtilities

### DataNode on Uma:9866

Cluster ID:	CID-e074220b-c0b9-4c05-a690-6f929422dc09
Version:	3.2.2, r7a3bc90b05f257c8ace2f76d74264906f0f7a932

### Block Pools

Namenode Address	Block Pool ID	Actor State	Last Heartbeat	Last Block Report	Last Block Report Size (Max Size)
localhost:9820	BP-203269082-127.0.0.1-1667235193525	RUNNING	1s	2 minutes	0 B (64 MB)

### Volume Information

Directory	Storage Type	Capacity Used	Capacity Left	Capacity Reserved	Reserved Space for Replicas	Blocks
D:\hadoop-env\hadoop-3.2.2\data\dfs\datanode	DISK	317 B	308.9 GB	0 B	0 B	0

Namenode informationDataNode InformationAll Applications

localhost:8088/cluster

hadoop

All Applications

Cluster

AboutNodesNode LabelsApplicationsNEWNEW SAVINGSUBMITTEDRUNNINGFINISHEDFAILEDKILLED

Scheduler

Tools

Cluster Metrics

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Used Resources	Total Resources	Reserved
0	0	0	0	0	<memory:0, vCores:0>	<memory:0, vCores:0>	<memory:0, vCores:0>

Cluster Nodes Metrics

Active Nodes	Decommissioning Nodes	Decommissioned Nodes	Lost Nodes	Unhealthy Nodes
0	0	0	0	0

Scheduler Metrics

Scheduler Type	Scheduling Resource Type	Minimum Allocation	Maximum Allocation
Capacity Scheduler	[memory-mb (unit=Mi), vcores]	<memory:1024, vCores:1>	<memory:8192, vCores:4>

Show 20 entries

ID	User	Name	Application Type	Queue	Application Priority	StartTime	LaunchTime	FinishTime	State	FinalStatus	Running Containers	Allocated CPU VCoers	Allocated Memory MB	Allocated GPUs	Reserved CPU VCoers
No data available in table															

Showing 0 to 0 of 0 entries

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