

# Course: MMDS

## Lab 01

# Set up Hadoop

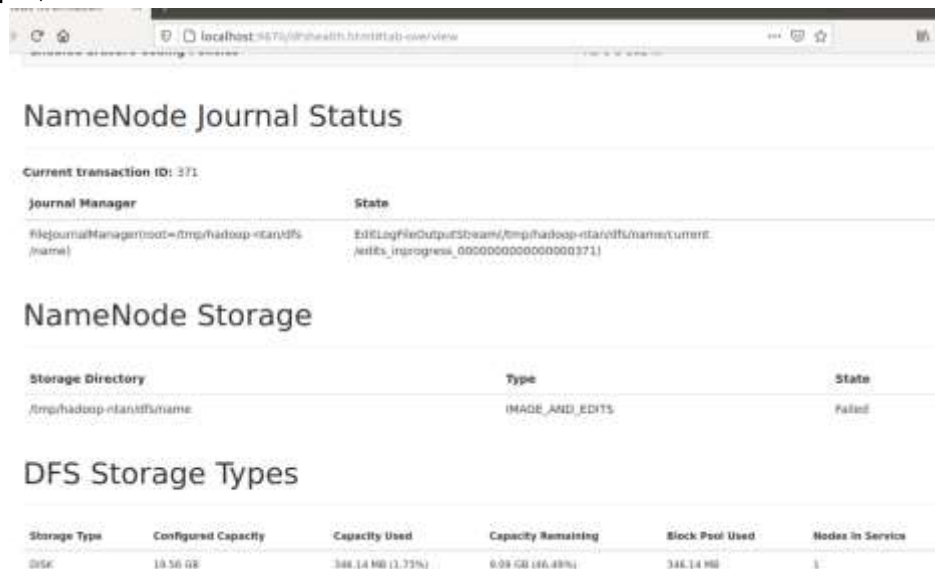
**Fill answers of the questions below in the given tables.**

**Your screenshots must contain commands for required operations.**

### Question 1:

Set up Hadoop following this [tutorial](#) and then take a screenshot of the hdfs-site ([localhost:9870](http://localhost:9870)) which shows information for NameNode Journal Status, NameNode Storage, DFS Storage Types (Overview page).

For example,



The screenshot shows the Hadoop HDFS Overview page in a web browser. The browser address bar shows `localhost:9870/hdfshealth.html#tab-overview`. The page is divided into three sections: NameNode Journal Status, NameNode Storage, and DFS Storage Types.

**NameNode Journal Status**

Current transaction ID: 371

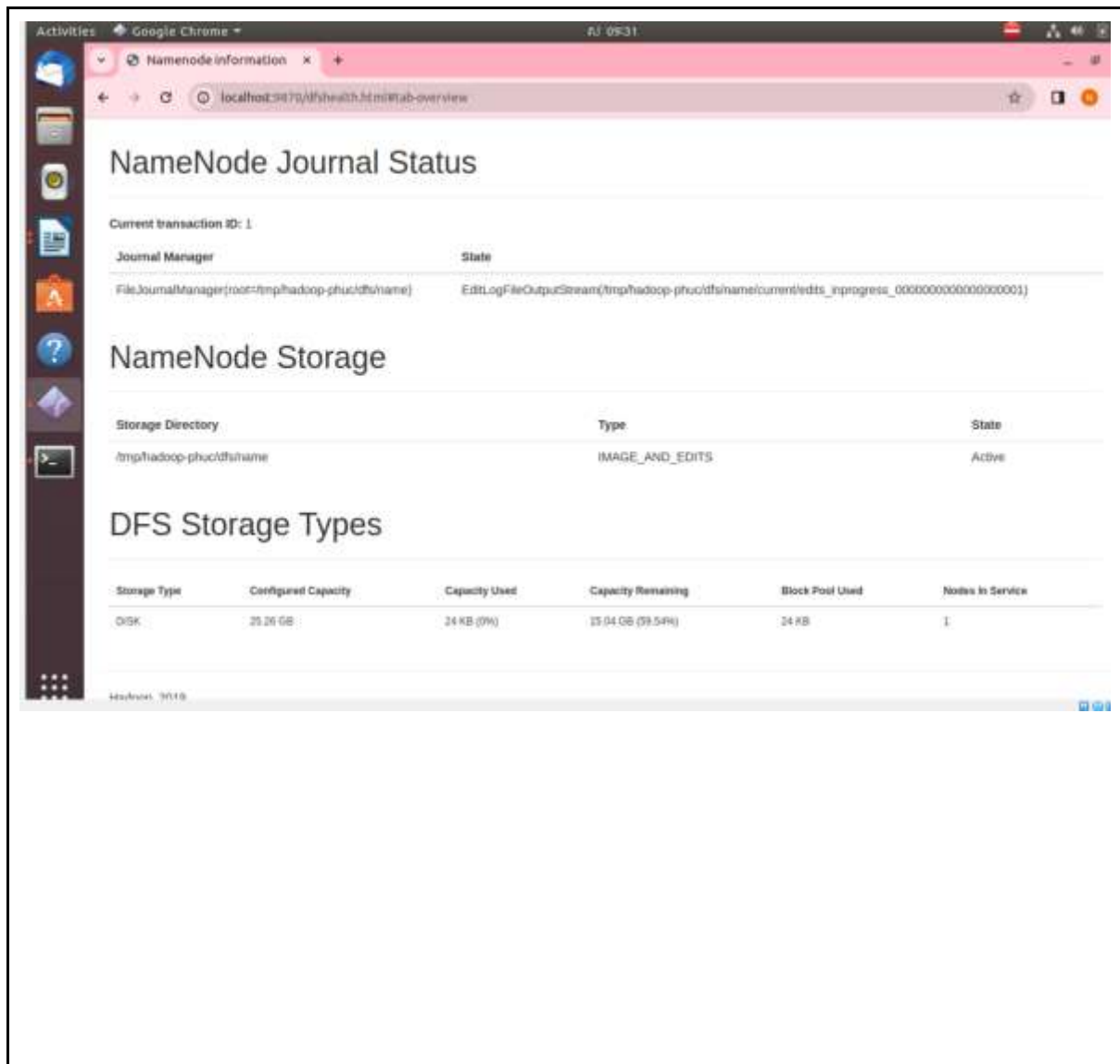
Journal Manager	State
fileJournalManagerroot=/tmp/hadoop-rtan/hdfs/name	EditLogOutputStream/tmp/hadoop-rtan/hdfs/name/current/edits_inprogress_0000000000000000371

**NameNode Storage**

Storage Directory	Type	State
/tmp/hadoop-rtan/hdfs/name	IMAGE_AND_EDITS	Failed

**DFS Storage Types**

Storage Type	Configured Capacity	Capacity Used	Capacity Remaining	Block Pool Used	Nodes in Service
DISK	18.56 GB	348.14 MB (1.73%)	0.99 GB (46.48%)	348.14 MB	1



## Question 2:

Set up Hadoop following this [tutorial](#) and then take a screenshot of the yarn-site ([localhost:8088](http://localhost:8088)) which shows information for nodes (<http://localhost:8088/cluster/nodes>).

For example,


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localhost:8088/cluster/nodes

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Nodes of the cluster

Logged in as: dr who

Cluster

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Nodes

Node Labels

Applications

NEW

NEW\_SAVING

SUBMITTED

ACCEPTED

RUNNING

FINISHED

FAILED

KILLED

Scheduler

Tools

Cluster Metrics

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Memory Used	Memory Total	Memory Reserved	VCores Used	VCores Total	VCores Reserved
0	0	0	0	0	0 B	8 GB	0 B	0	8	0

Cluster Nodes Metrics

Active Nodes	Decommissioning Nodes	Decommissioned Nodes	Lost Nodes	Unhealthy Nodes	Rebooted Nodes	Shutdown Nodes
1	0	0	0	0	0	0

Scheduler Metrics

Scheduler Type	Scheduling Resource Type	Minimum Allocation	Maximum Allocation	Maximum Cluster Application Priority
Capacity Scheduler	[memory-mb (unit=M), vcores]	<memory:1024, vCores:1>	<memory:8192, vCores:4>	0

Show 20 entries

Search

Node Labels	Rack	Node State	Node Address	Node HTTP Address	Last health-update	Health-report	Containers	Allocation Tags	Mem Used	Mem Avail	VCores Used	VCores Avail	Version
/default-rack		RUNNING	ubuntu:34741	ubuntu:8042	Tue May 11 12:30:58 +0700 2021		0		0 B	8 GB	0	8	3.2.1

Showing 1 to 1 of 1 entries

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Activities

Google Chrome

09:38


Nodes of the cluster

localhost:8088/cluster/nodes

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Nodes of the cluster

Logged in as: dr who

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NEW\_SAVING

SUBMITTED

ACCEPTED

RUNNING

FINISHED

FAILED

KILLED

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Cluster Metrics

Apps Submitted	Apps Pending	Apps Running	Apps Completed	Containers Running	Memory Used	Memory Total	Memory Reserved	VCores Used	VCores Total	VCores Reserved
2	0	0	2	0	0 B	8 GB	0 B	0	8	0

Cluster Nodes Metrics

Active Nodes	Decommissioning Nodes	Decommissioned Nodes	Lost Nodes	Unhealthy Nodes	Rebooted Nodes	Shutdown Nodes
1	0	0	0	0	0	0

Scheduler Metrics

Scheduler Type	Scheduling Resource Type	Minimum Allocation	Maximum Allocation	Maximum Cluster Application Priority
Capacity Scheduler	[memory-mb (unit=M), vcores]	<memory:1024, vCores:1>	<memory:8192, vCores:4>	0

Show 20 entries

Search

Node Labels	Rack	Node State	Node Address	Node HTTP Address	Last health-update	Health-report	Containers	Allocation Tags	Mem Used	Mem Avail	VCores Used	VCores Avail	Version
/default-rack		RUNNING	phuc-VirtualBox:37745	phuc-VirtualBox:8042	Sat Jan 20 09:38:36 +0700 2024		0		0 B	8 GB	0	8	3.2.1

Showing 1 to 1 of 1 entries

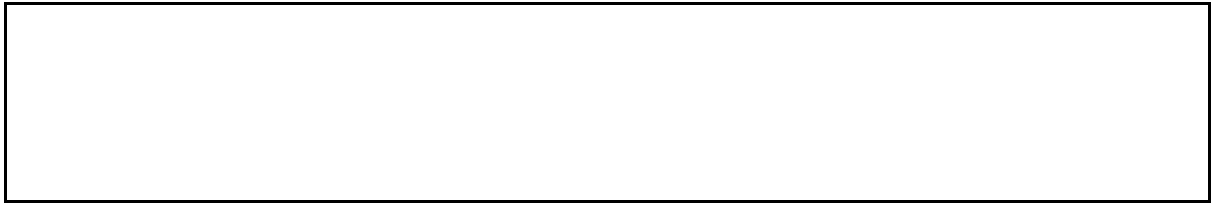
First

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## Submission Notice

- Export your answer file as pdf
- Rename the pdf following the format:  
lab01\_<student number>\_<Full Name>.pdf  
E.g: **lab01\_123456\_NguyenThanhAn.pdf**  
*If you have not been assigned a student number yet, then use 123456 instead.*
- Careless mistakes in filename, format, question order, etc. are not accepted (0 pts).