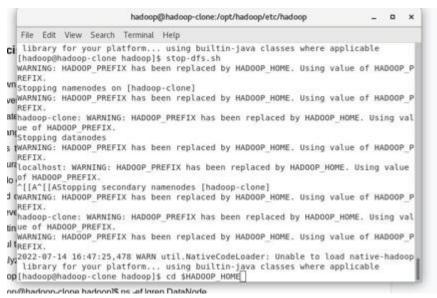
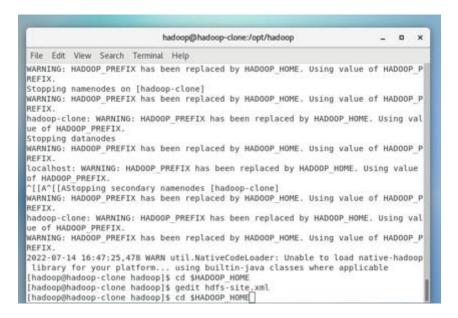
Lab - 2

CE 004

20CEUOD004

Change the URL of HDFS Web UI to localhost:51234 instead of localhost:50070 and the access the web UI using new URL. [Hint: referconfiguration files] [Know that traditionally configuration based servers need to be restarted after any server configuration change.]





Overview 'hadoop-clone:9000' (active)

Started:	Thu Jul 14 16:50:43 +0530 2022					
Version:	3.2.0, re97acb3bd8f3befd27418996fa5d4b50bf2e17bf					
Compiled:	Tue Jan 08 11:38:00 +0530 2019 by sunilg from branch-3.2.0					
Cluster ID:	CID-a0711dac-8474-44f9-8368-d68c1ff4c838					
Block Pool ID:	BP-1266388418-127.0.0.1-1560101340487					

Summary

Security is off.

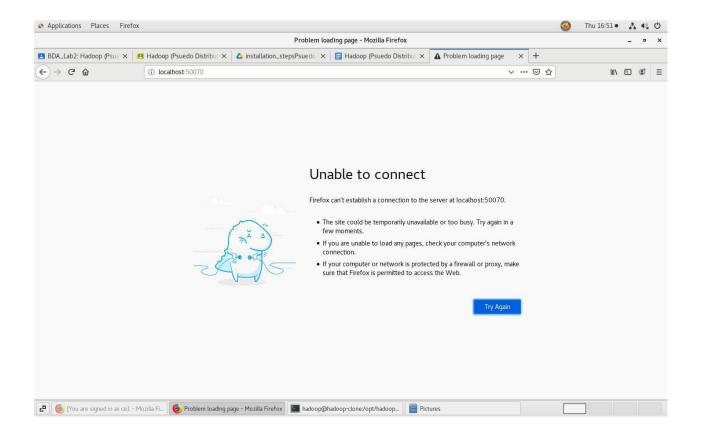
Safe mode is ON. The reported blocks 5 has reached the threshold 0.9990 of total blocks 5. The number of live datanodes 1 has reached the minimum number 0. In safe mode extension. Safe mode will be turned off automatically in 20 seconds.

42 files and directories, 5 blocks (5 replicated blocks, 0 erasure coded block groups) = 47 total filesystem object(s).

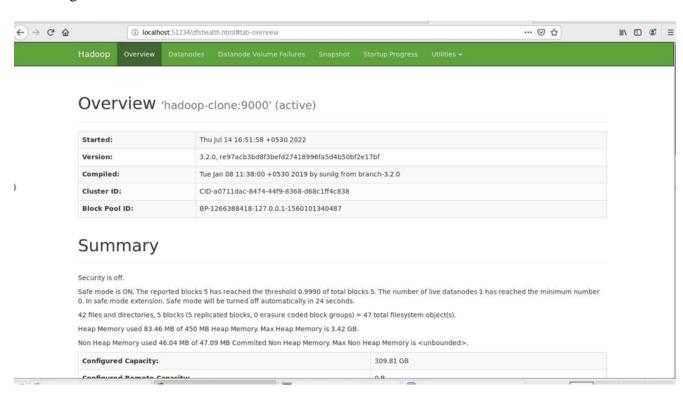
Heap Memory used 84.03 MB of 423.5 MB Heap Memory. Max Heap Memory is 3.42 GB.

Non Heap Memory used 46.69 MB of 48.03 MB Committed Non Heap Memory. Max Non Heap Memory is <unbounded>.

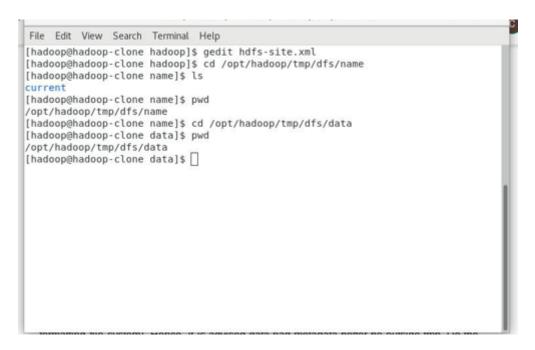




Undo changes done in task1.



Find out what is current location of namenode and datanode storagedirectories. Normally whenever cleanup is required, tmp folder is one tobe emptied up (not to confuse with formatting file system). Hence, it is advised data and metadata better be outside tmp. Do the needful to have namenode and datenode directories in /opt/hadoop, ifpresent within tmp.



Analyze the output of following command: [hadoop@hadoop-clone hadoop]\$ ps -ef |grep NameNode[hadoop@hadoop-clone hadoop]\$ ps -ef |grep DataNode

```
hadoop@hadoop-clone:/opt/hadoop/etc/hadoop
                                                                          _ 0 x
File Edit View Search Terminal Help
hadoop-clone: WARNING: HADOOP_PREFIX has been replaced by HADOOP_HOME. Using val
ue of HADOOP PREFIX.
Stopping datanodes
WARNING: HADOOP PREFIX has been replaced by HADOOP HOME. Using value of HADOOP P
REFIX.
localhost: WARNING: HADOOP PREFIX has been replaced by HADOOP HOME. Using value
of HADOOP PREFIX.
Stopping secondary namenodes [hadoop-clone]
WARNING: HADOOP PREFIX has been replaced by HADOOP HOME. Using value of HADOOP P
REFIX.
hadoop-clone: WARNING: HADOOP PREFIX has been replaced by HADOOP HOME. Using val
ue of HADOOP PREFIX.
WARNING: HADOOP PREFIX has been replaced by HADOOP HOME. Using value of HADOOP P
2022-07-14 16:52:24,504 WARN util.NativeCodeLoader: Unable to load native-hadoop
library for your platform... using builtin-java classes where applicable [hadoop@hadoop-clone hadoop]$ gedit hdfs-site.xml
[hadoop@hadoop-clone hadoop]$ ps -ef |grep NameNode
        30117 11951 0 16:53 pts/0
                                        00:00:00 grep --color=auto NameNode
hadoop
[hadoop@hadoop-clone hadoop]$ ps -ef |grep NameNode
hadoop
        30143 11951 0 16:53 pts/0
                                        00:00:00 grep --color=auto NameNode
[hadoop@hadoop-clone hadoop]$ ps -ef |grep NameNode
hadoop 30256 11951 0 16:53 pts/0
                                       00:00:00 grep --color=auto NameNode
[hadoop@hadoop-clone hadoop]$
```

				hadoop	@hadoop-	clone:/op	t/hadoop/eto	:/hadoop	-		×
File	Edit	View	Search	Terminal	Help						
REFI	х.										
				HADOOP_PE	REFIX ha	s been	replaced	by HADOOP_HOM	E. Using	valu	ıe
		PREF									
				amenodes				3825 1372 3			
WARN REFI		HAD00	P_PREF	IX has be	een repl	aced by	HADOOP_H	OME. Using va	tue of H	ADOOP	_ P
1000		one.	WARNITAN	. WADOO	n necety	has be	on reales	od by UADOOD	HOME III	ina i	
			REFIX.	3; HADOUR	PEREFIX	nas be	en reptac	ed by HADOOP_	HUME. US	ing v	rat
				TX has be	een renl	aced by	HADOOP H	OME. Using va	lue of H	ADOOR	p
REFI		111111111111		271 1103 01	con repr	deca by	11112001_11	one: obting to			100
2022	-07-1	4 16:	52:24,5	504 WARN	util.Na	tiveCod	eLoader:	Unable to loa	d native	-hado	ор
lib	гагу	for y	our pla	atform	. using	builtin	-java cla	sses where ap	plicable		
				hadoop]							
							NameNode				
								color=auto	NameNod	e	
							NameNode	color-suto	NameWed		
							NameNode	color=auto	namenou	6	
								color=auto	NameNod	0	
				hadoop]							
				0 16:54				color=auto	DataNod	e	
	loonah	adoop	-clone	hadoop] 9	s ps -ef	grep D	ataNode				
[had	nohen										
hado	ор	30537	11951					color=auto	DataNod	e	

```
hadoop@hadoop-clone:/opt/hadoop/etc/hadoop
                                                                        _ D X
File Edit View Search Terminal Help
[hadoop@hadoop-clone ~]$ cd $HADOOP_HOME
[hadoop@hadoop-clone hadoop]$ cd etc/hadoop
[hadoop@hadoop-clone hadoop]$ ls
capacity-scheduler.xml
                                  kms-log4j.properties
configuration.xsl
                                  kms-site.xml
container-executor.cfg
                                  log4j.properties
core-site.xml
                                  mapred-env.cmd
hadoop-env.cmd
                                  mapred-env.sh
hadoop-env.sh
                                  mapred-queues.xml.template
                                  mapred-site.xml
hadoop-metrics2.properties
hadoop-policy.xml
                                  shellprofile.d
hadoop-user-functions.sh.example ssl-client.xml.example
hdfs-site.xml
                                  ssl-server.xml.example
httpfs-env.sh
                                  user_ec_policies.xml.template
httpfs-log4j.properties
                                  workers
httpfs-signature.secret
                                  yarn-env.cmd
httpfs-site.xml
                                  yarn-env.sh
                                  yarnservice-log4j.properties
kms-acls.xml
                                  yarn-site.xml
kms-env.sh
[hadoop@hadoop-clone hadoop]$ [
```