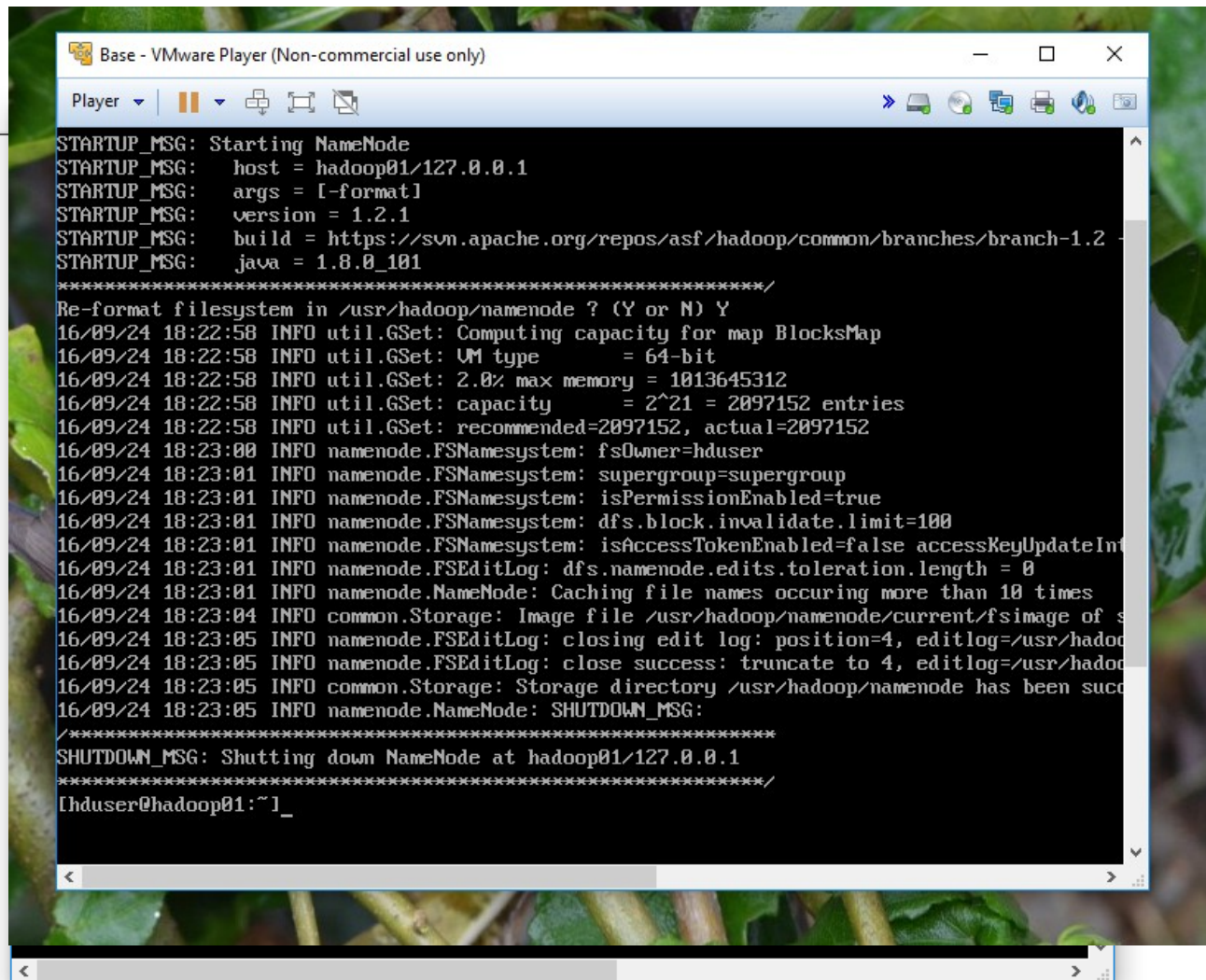


Java and hadoop installed and configuration files updated, formatting the hdfs filesystem:



The screenshot shows a VMware Player window titled "Base - VMware Player (Non-commercial use only)". The terminal window displays the following output:

```
STARTUP_MSG: Starting NameNode
STARTUP_MSG: host = hadoop01/127.0.0.1
STARTUP_MSG: args = [-format]
STARTUP_MSG: version = 1.2.1
STARTUP_MSG: build = https://svn.apache.org/repos/asf/hadoop/common/branches/branch-1.2
STARTUP_MSG: java = 1.8.0_101
*****/
Re-format filesystem in /usr/hadoop/namenode ? (Y or N) Y
16/09/24 18:22:58 INFO util.GSet: Computing capacity for map BlocksMap
16/09/24 18:22:58 INFO util.GSet: VM type = 64-bit
16/09/24 18:22:58 INFO util.GSet: 2.0% max memory = 1013645312
16/09/24 18:22:58 INFO util.GSet: capacity = 2^21 = 2097152 entries
16/09/24 18:22:58 INFO util.GSet: recommended=2097152, actual=2097152
16/09/24 18:23:00 INFO namenode.FSNamesystem: fsOwner=hduser
16/09/24 18:23:01 INFO namenode.FSNamesystem: supergroup=supergroup
16/09/24 18:23:01 INFO namenode.FSNamesystem: isPermissionEnabled=true
16/09/24 18:23:01 INFO namenode.FSNamesystem: dfs.block.invalidate.limit=100
16/09/24 18:23:01 INFO namenode.FSNamesystem: isAccessTokenEnabled=false accessKeyUpdateInt
16/09/24 18:23:01 INFO namenode.FSEditLog: dfs.namenode.edits.toleration.length = 0
16/09/24 18:23:01 INFO namenode.NameNode: Caching file names occurring more than 10 times
16/09/24 18:23:04 INFO common.Storage: Image file /usr/hadoop/namenode/current/fsimage of s
16/09/24 18:23:05 INFO namenode.FSEditLog: closing edit log: position=4, editlog=/usr/hadoc
16/09/24 18:23:05 INFO namenode.FSEditLog: close success: truncate to 4, editlog=/usr/hadoc
16/09/24 18:23:05 INFO common.Storage: Storage directory /usr/hadoop/namenode has been succ
16/09/24 18:23:05 INFO namenode.NameNode: SHUTDOWN_MSG:
/*****
SHUTDOWN_MSG: Shutting down NameNode at hadoop01/127.0.0.1
*****/
[hduser@hadoop01:~]_
```

The screenshot displays a VMware Player interface with a terminal window open. The terminal shows the following sequence of commands and outputs:

```
[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~]
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[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~]
[hduser@hadoop01:~] /usr/hadoop/hadoop-1.2.1/bin/start-all.sh
Warning: $HADOOP_HOME is deprecated.

starting namenode, logging to /usr/hadoop/hadoop-1.2.1/libexec/../logs/hadoop-hduser-namenode-hadoop01.out
hadoop01: Warning: $HADOOP_HOME is deprecated.
hadoop01:
hadoop01: starting datanode, logging to /usr/hadoop/hadoop-1.2.1/libexec/../logs/hadoop-hduser-datanode-hadoop01.out
hadoop01: Warning: $HADOOP_HOME is deprecated.
hadoop01:
hadoop01: starting secondarynamenode, logging to /usr/hadoop/hadoop-1.2.1/libexec/../logs/hadoop-hduser-secondarynamenod
starting jobtracker, logging to /usr/hadoop/hadoop-1.2.1/libexec/../logs/hadoop-hduser-jobtracker-hadoop01.out
hadoop01: Warning: $HADOOP_HOME is deprecated.
hadoop01:
hadoop01: starting tasktracker, logging to /usr/hadoop/hadoop-1.2.1/libexec/../logs/hadoop-hduser-tasktracker-hadoop01.o
[hduser@hadoop01:~]
```

```
hadoop01: starting datanode, logging to /usr/hadoop/hadoop-1.2.1/libexec/../logs/hadoop-hd
hadoop01: Warning: $HADOOP_HOME is deprecated.
hadoop01:
hadoop01: starting secondarynamenode, logging to /usr/hadoop/hadoop-1.2.1/libexec/../logs/
starting jobtracker, logging to /usr/hadoop/hadoop-1.2.1/libexec/../logs/hadoop-hduser-job
hadoop01: Warning: $HADOOP_HOME is deprecated.
hadoop01:
hadoop01: starting tasktracker, logging to /usr/hadoop/hadoop-1.2.1/libexec/../logs/hadoop
[hduser@hadoop01:~]
[hduser@hadoop01:~]jps
2848 JobTracker
2674 DataNode
2963 TaskTracker
2565 NameNode
3045 Jps
2779 SecondaryNameNode
[hduser@hadoop01:~]
```