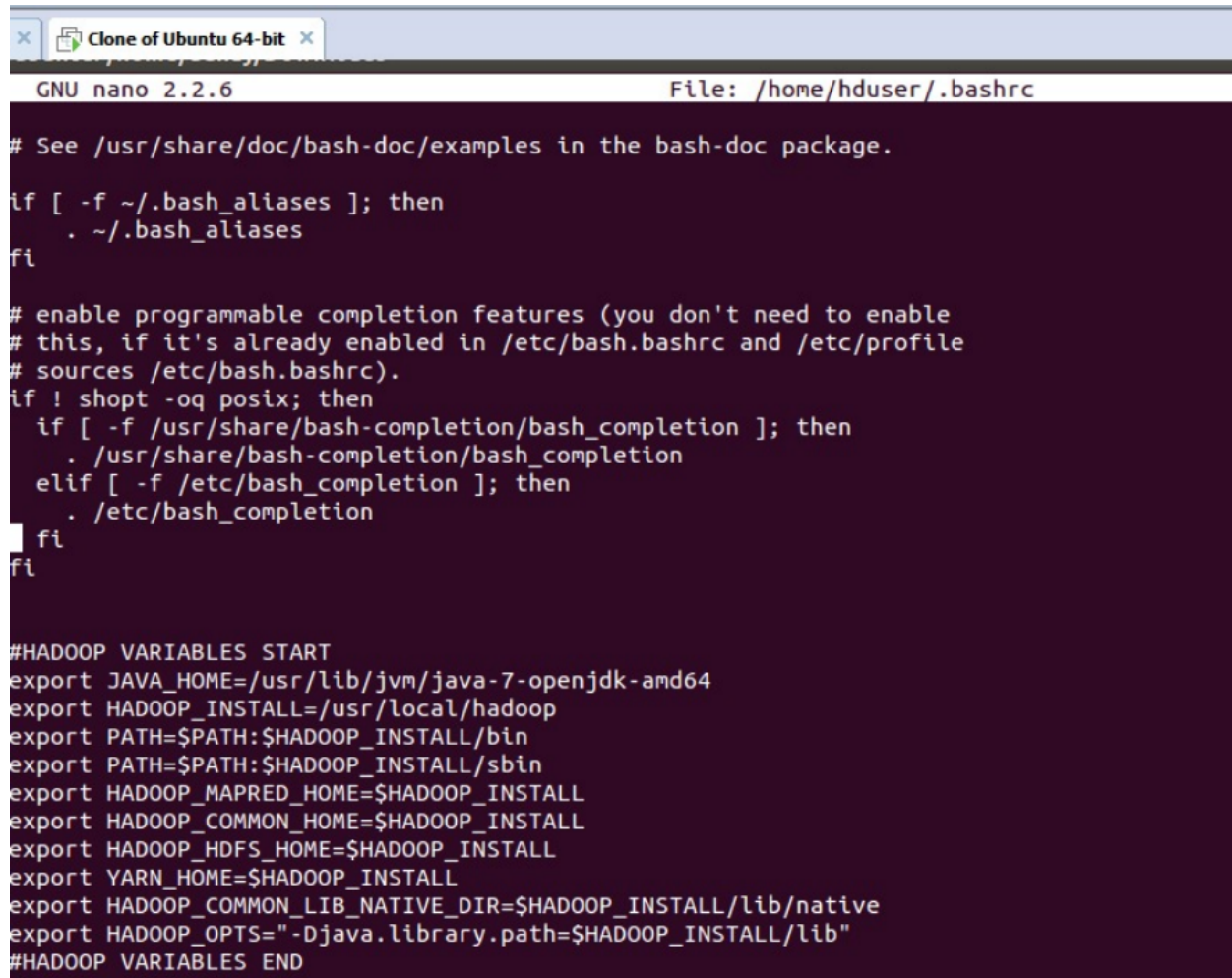


22.Install Hadoop 2.x and configure the Name Node and Data Node.



The screenshot shows a terminal window titled "Clone of Ubuntu 64-bit". The terminal is running the GNU nano 2.2.6 text editor, editing the file /home/hduser/.bashrc. The file contains configuration for bash aliases, completion features, and Hadoop environment variables.

```
GNU nano 2.2.6 File: /home/hduser/.bashrc

# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
if ! shopt -oq posix; then
    if [ -f /usr/share/bash-completion/bash_completion ]; then
        . /usr/share/bash-completion/bash_completion
    elif [ -f /etc/bash_completion ]; then
        . /etc/bash_completion
    fi
fi

#HADOOP VARIABLES START
export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64
export HADOOP_INSTALL=/usr/local/hadoop
export PATH=$PATH:$HADOOP_INSTALL/bin
export PATH=$PATH:$HADOOP_INSTALL/sbin
export HADOOP_MAPRED_HOME=$HADOOP_INSTALL
export HADOOP_COMMON_HOME=$HADOOP_INSTALL
export HADOOP_HDFS_HOME=$HADOOP_INSTALL
export YARN_HOME=$HADOOP_INSTALL
export HADOOP_COMMON_LIB_NATIVE_DIR=$HADOOP_INSTALL/lib/native
export HADOOP_OPTS="-Djava.library.path=$HADOOP_INSTALL/lib"
#HADOOP VARIABLES END
```

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limitations under the License.

Set Hadoop-specific environment variables here.

The only required environment variable is JAVA_HOME. All others are
optional. When running a distributed configuration it is best to
set JAVA_HOME in this file, so that it is correctly defined on
remote nodes.

The java implementation to use.

```
export JAVA_HOME=/usr/lib/jvm/java-7-openjdk-amd64
export JAVA_HOME=${JAVA_HOME}
```

The jsvc implementation to use. Jsvc is required to run secure datanodes
that bind to privileged ports to provide authentication of data transfer
protocol. Jsvc is not required if SASL is configured for authentication of
data transfer protocol using non-privileged ports.

Clone of Ubuntu 64-bit x

> usr local hadoop_tmp hdfs

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datanode



namenode

```
hduser@ubuntu: /usr/local/hadoop/etc/hadoop
hduser@ubuntu:/usr/local/hadoop/etc/hadoop$ sudo mkdir -p /usr/local/hadoop_tmp/hdfs/na
node
hduser@ubuntu:/usr/local/hadoop/etc/hadoop$ sudo mkdir -p /usr/local/hadoop_tmp/hdfs/da
node
hduser@ubuntu:/usr/local/hadoop/etc/hadoop$
```