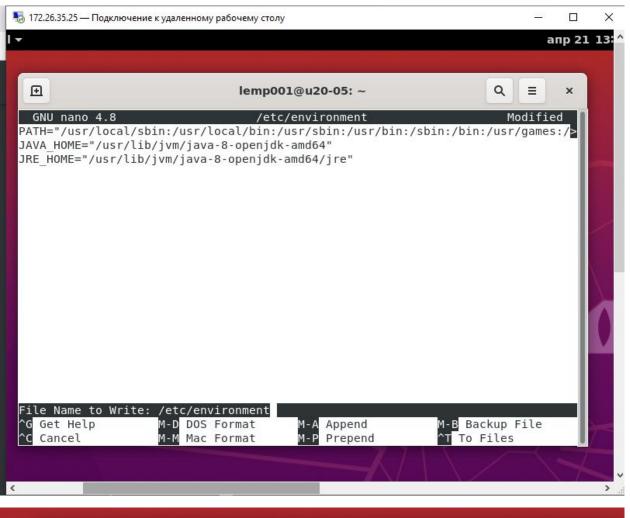
```
lemp001@u20-05:~$ sudo apt-get install openjdk-8-jdk
[sudo] password for lemp001:
Sorry, try again.
[sudo] password for lemp001:
Sorry, try again.
[sudo] password for lemp001:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  chromium-codecs-ffmpeg-extra gstreamer1.0-vaapi libfwupdplugin1
  libgstreamer-plugins-bad1.0-0 libva-wayland2
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  ca-certificates-java fonts-dejavu-extra java-common libatk-wrapper-java
  libatk-wrapper-java-jni libice-dev libpthread-stubs0-dev libsm-dev
 libx11-dev libxau-dev libxcb1-dev libxdmcp-dev libxt-dev
  openjdk-8-jdk-headless openjdk-8-jre openjdk-8-jre-headless
 x11proto-core-dev x11proto-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  default-jre libice-doc libsm-doc libx11-doc libxcb-doc libxt-doc
  openjdk-8-demo openjdk-8-source visualvm fonts-ipafont-gothic
  fonts-ipafont-mincho fonts-wqy-microhei fonts-wqy-zenhei
The following NEW packages will be installed:
lemp001@u20-05:~$ java -version
 openidk version "1.8.0 362"
OpenJDK Runtime Environment (build 1.8.0 362-8u362-ga-0ubuntu1~20.04.1-b09)
OpenJDK 64-Bit Server VM (build 25.362-b09, mixed mode)
lemp001@u20-05:~$ sudo nano /etc/environment
lemp001@u20-05:~$ sudo adduser hadoop
Adding user `hadoop' ...
Adding new group `hadoop' (1001) ...
Adding new user `hadoop' (1001) with group `hadoop' ...
Creating home directory `/home/hadoop' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for hadoop
Enter the new value, or press ENTER for the default
         Full Name []:
         Room Number []:
         Work Phone []:
         Home Phone []:
         Other []:
Is the information correct? [Y/n] y
```





```
hadoop@u20-05:/home/lemp001$ cd
hadoop@u20-05:~$ ssh-keygen -t rsa -N "" -f /home/hadoop/.ssh/id rsa
Generating public/private rsa key pair.
Created directory '/home/hadoop/.ssh'.
Your identification has been saved in /home/hadoop/.ssh/id rsa
Your public key has been saved in /home/hadoop/.ssh/id rsa.pub
The key fingerprint is:
SHA256:L3DUzsZBt3OcoxNP7iq/pfAvPl5CGGw1IdBmMV4h7Bw hadoop@u20-05
The key's randomart image is:
 ---[RSA 3072]----+
        .+*.Bo
         =BB + .
         .=B.+ *
        . = 0 + 0 .
       . S * + o
        0 0 . 0
         . 0 . +
          ..00*
           =0=.
 ----[SHA256]----+
hadoop@u20-05:~$ cat /home/hadoop/.ssh/id rsa.pub >> /home/hadoop/.ssh/authorized keys
hadoop@u20-05:~$ chmod 0600 /home/hadoop/.ssh/authorized keys
hadoop@u20-05:~$
Welcome to Ubuntu 20.04.4 LTS (GNU/Linux 5.13.0-51-generic x86 64)
   Documentation: https://help.ubuntu.com
                   https://landscape.canonical.com
 * Management:
 * Support:
                   https://ubuntu.com/advantage
87 updates can be applied immediately.
1 of these updates is a standard security update.
To see these additional updates run: apt list --upgradable
Your Hardware Enablement Stack (HWE) is supported until April 2025.
*** System restart required ***
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
hadoop@u20-05:~$ exit
logout
```

hadoop@u20-05:~\$ wget https://archive.apache.org/dist/hadoop/common/hadoop-3.1.2/hadoop-3.1.2.tar.gz
--2023-04-21 13:51:40-- https://archive.apache.org/dist/hadoop/common/hadoop-3.1.2/hadoop-3.1.2.tar.gz

100%[=======] 317,03M 710KB/s

in 7m 50s

Resolving archive.apache.org (archive.apache.org)... 138.201.131.134, 2a01.4f8:172:2ec5::2 Connecting to archive.apache.org (archive.apache.org)|138.201.131.134|:443... connected.

2023-04-21 13:59:31 (690 KB/s) - 'hadoop-3.1.2.tar.gz' saved [332433589/332433589]

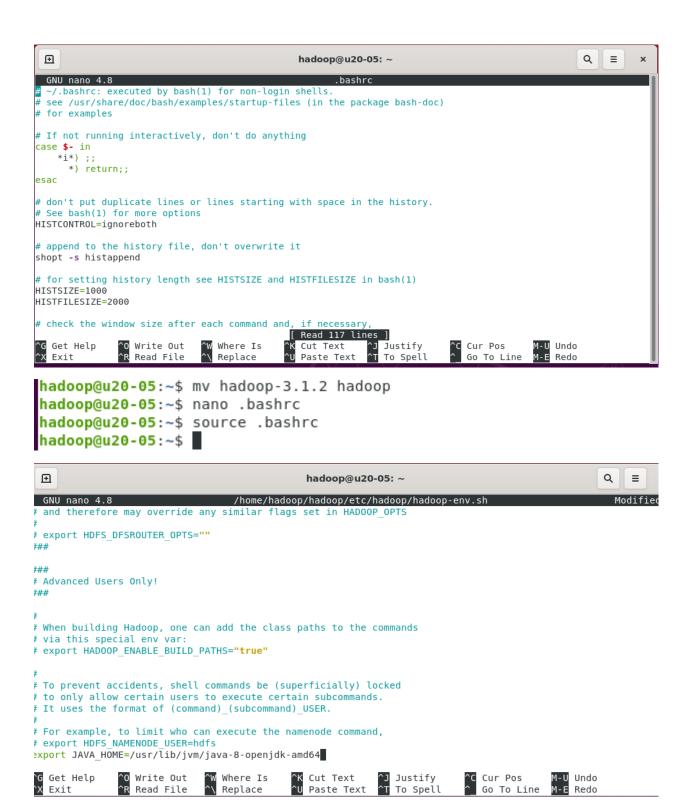
lemp001@u20-05:~\$ sudo su hadoop

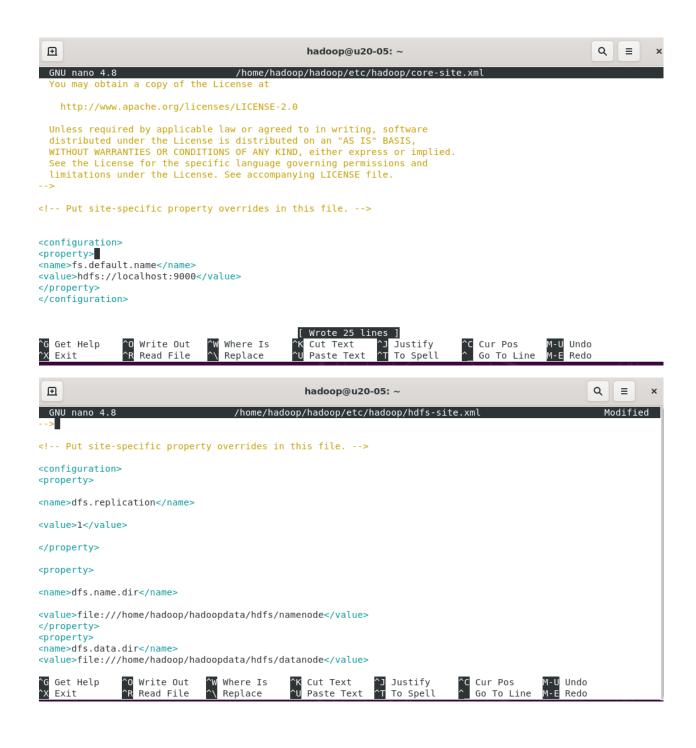
Connection to localhost closed.

Saving to: 'hadoop-3.1.2.tar.gz'

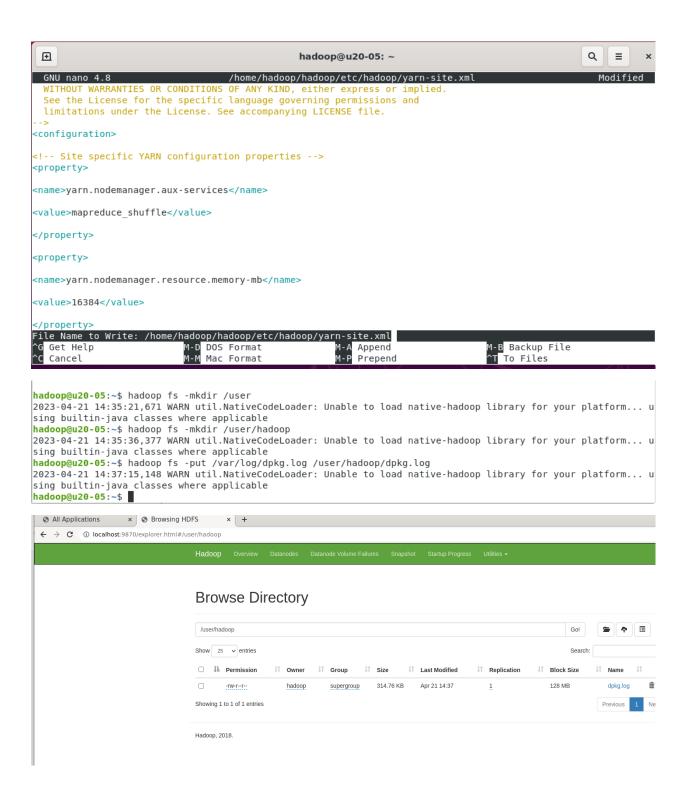
hadoop-3.1.2.tar.gz

HTTP request sent, awaiting response... 200 OK Length: 332433589 (317M) [application/x-gzip]









```
hadoop@u20-05:~$ hadoop fs -cat /user/hadoop/test_output/part-r-00000 2023-04-21 14:44:23,238 WARN util.NativeCodeLoader: Unable to load native-hadoop library for your platform..
asses where applicable
0.10.2-0ubuntu0.20.04.1 4
0.11.0-0ubuntu0.20.04.1 6
0.136ubuntu6.7 12
0.17-2 48
0.18.2-2
0.18.2-2ubuntu0.1
                           6
0.19.5-1ubuntu1 4
0.19.5-1ubuntu1.1
                           6
0.24-1ubuntu3
                 68
                4
0.36-6ubuntu1
0.37.1-1
                  14
0.38.4-0ubuntu1 4
0.38.4-0ubuntu2.1
                           6
0.4-1 7
0.72
0.86.1-0ubuntul 16
0.86.1-0ubuntu1.1
0.9.12-1
06:14:20
06:14:21
                  8
06:14:25
                  5
5
06:14:26
06:14:27
                  13
06:14:28
```

Show 20   ✓ entries											
ID	▼ User ≎	Name	Application Type \$	Queue \$	Application Priority \$	StartTime	FinishTime	State \$	FinalStatus \$	Running Containers	All V
application_1682076545743_00	01 hadoop	word count	MAPREDUCE	default	0	Fri Apr 21 14:40:56 +0300 2023	Fri Apr 21 14:41:18 +0300 2023	FINISHED	SUCCEEDED	N/A	N/A
Showing 1 to 1 of 1 entries											