1. step 1= sudo nano /etc/hosts
   (change the id private id for nn dn)
   step 2= cd .ssh/
   step 3= rm known_hosts
   step 4= cd
   step 5= cd /usr/local/hadoop/
   step 6= start-dfs.sh
   step 7= jps
   step 8= dsh -a jps
   (then we need to do the changes in dn also)
   step 9= ssh dn
   step 10= sudo nano /etc/hosts
   step 11= cd .ssh/
   step 12= ls
   step 13= rm known_hosts
   step 14= cd
   step 15= start-yarn.sh
   step 16= jps
   step 17= exit
   (then it will come to nn)
   Install Kafka on nn****
   step18= dsh -a wget https://archive.apache.org/dist/kafka/3.5.1/kafka_2.13-3.5.1.tgz

```
104000K .......... .......... .......... .......... .......... 99%  929K 0s
104050K .......... .......... .......... .......... .......... 99%  641K 0s
104100K .......... .......... .......... .......... .......... 99%  633K 0s
104150K .......... .......... .......... .......... .......... 99%  694K 0s
104200K .......... .......... .......... .......... ......    100%  756K=2m3s

2023-10-09 09:16:22 (848 KB/s) - 'kafka_2.13-3.5.1.tgz' saved [106748875/106748875]

ubuntu@ip-172-31-27-52:~$ dsh -a ls | grep kafka
```

2.

```
ubuntu@ip-172-31-27-52:~$ dsh -a ls | grep kafka
kafka_2.13-3.5.1.tgz
kafka_2.13-3.5.1.tgz
ubuntu@ip-172-31-27-52:~$ dsh -a tar -xvzf kafka_2.13-3.5.1.tgz
```

3.

4. dsh -a tar -xvzf kafka_2.13-3.5.1.tgz

5. dsh -a sudo mv kafka_2.13-3.5.1 /usr/local/kafka/

```
kafka_2.13-3.5.1/libs/rocksdbjni-7.1.2.jar
kafka_2.13-3.5.1/libs/kafka-streams-scala_2.13-3.5.1.jar
kafka_2.13-3.5.1/libs/kafka-streams-test-utils-3.5.1.jar
kafka_2.13-3.5.1/libs/kafka-streams-examples-3.5.1.jar
ubuntu@ip-172-31-27-52:~$ dsh -a sudo mv kafka_2.13-3.5.1 /usr/local/kafka/
ubuntu@ip-172-31-27-52:~$ dsh -a sudo apt install zookeeperd -y

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
```

6. Reading package lists...

7. dsh -a sudo systemctl status zookeeper

```
kafka_2.13-3.5.1/libs/rocksdbjni-7.1.2.jar
kafka_2.13-3.5.1/libs/kafka-streams-scala_2.13-3.5.1.jar
kafka_2.13-3.5.1/libs/kafka-streams-test-utils-3.5.1.jar
kafka_2.13-3.5.1/libs/kafka-streams-examples-3.5.1.jar
ubuntu@ip-172-31-27-52:~$ dsh -a sudo mv kafka_2.13-3.5.1 /usr/local/kafka/
ubuntu@ip-172-31-27-52:~$ dsh -a sudo apt install zookeeperd -y

WARNING: apt does not have a stable CLI interface. Use with caution in scripts.
```

8. Reading package lists...

```
erAPIs.jar:/usr/share/java/netty.jar:/usr/share/java/slf4j-api.jar:/usr/share/java/slf4j-log4j12.jar:/usr/share
sun.management.jmxremote.local.only=true -Dzookeeper.log.dir=/var/log/zookeeper -Dzookeeper.root.logger=INFO,R
in /etc/zookeeper/conf/zoo.cfg

Oct 09 09:19:37 ip-172-31-18-178 systemd[1]: Starting LSB: centralized coordination service...
Oct 09 09:19:37 ip-172-31-18-178 systemd[1]: Started LSB: centralized coordination service.
ubuntu@ip-172-31-27-52:~$ sudo nano /etc/systemd/system/zookeeper.service
ubuntu@ip-172-31-27-52:~$ nano .bashrc
ubuntu@ip-172-31-27-52:~$ sudo nano /etc/systemd/system/kafka.service
ubuntu@ip-172-31-27-52:~$ cd /usr/local/kafka/bin/
ubuntu@ip-172-31-27-52:/usr/local/kafka/bin$ nano kafka-server-start.sh
ubuntu@ip-172-31-27-52:/usr/local/kafka/bin$
```

9.

10. Ssh dn

11. sudo nano /etc/systemd/system/zookeeper.service

```
    fi
fi
export HADOOP_PREFIX=/usr/local/hadoop/
export PATH=$PATH:$HADOOP_PREFIX/bin
export HADOOP_HOME=/usr/local/hadoop/
export PATH=$PATH:$HADOOP_HOME/sbin
export JAVA_HOME=/usr/lib/jvm/java-17-openjdk-amd64
export PATH=$PATH:$JAVA_HOME
export path=$PATH:/usr/local/kafka/bin
```

12.

```
New release '22.04.3 LTS' available.
Run 'do-release-upgrade' to upgrade to it.


Last login: Mon Oct  9 08:38:36 2023 from 172.31.27.52
ubuntu@ip-172-31-18-178:~$ sudo nano /etc/systemd/system/zookeeper.service
ubuntu@ip-172-31-18-178:~$ sudo nano /etc/systemd/system/kafka.service
ubuntu@ip-172-31-18-178:~$ exit
logout
Connection to dn closed.
ubuntu@ip-172-31-27-52:/usr/local/kafka/bin$
```

13.

14. Exit

15. dsh -a sudo systemctl status zookeeper

16. sudo systemctl start kafka

17. sudo systemctl status kafka

```
in /etc/zookeeper/conf/zoo.cfg

Oct 09 09:19:37 ip-172-31-18-178 systemd[1]: Starting LSB: centralized coordination service...
Oct 09 09:19:37 ip-172-31-18-178 systemd[1]: Started LSB: centralized coordination service.
ubuntu@ip-172-31-27-52:~$ sudo systemctl start kafka
ubuntu@ip-172-31-27-52:~$ sudo systemctl daemon-reload
ubuntu@ip-172-31-27-52:~$ sudo systemctl status kafka
● kafka.service
     Loaded: loaded (/etc/systemd/system/kafka.service; disabled; vendor preset: enabled)
     Active: failed (Result: exit-code) since Mon 2023-10-09 09:38:56 UTC; 15s ago
   Main PID: 4153 (code=exited, status=1/FAILURE)

Oct 09 09:38:55 ip-172-31-27-52 systemd[1]: Started kafka.service.
Oct 09 09:38:56 ip-172-31-27-52 kafka-server-start.sh[4153]: OpenJDK 64-Bit Server VM warning:
Oct 09 09:38:56 ip-172-31-27-52 kafka-server-start.sh[4153]: #
```