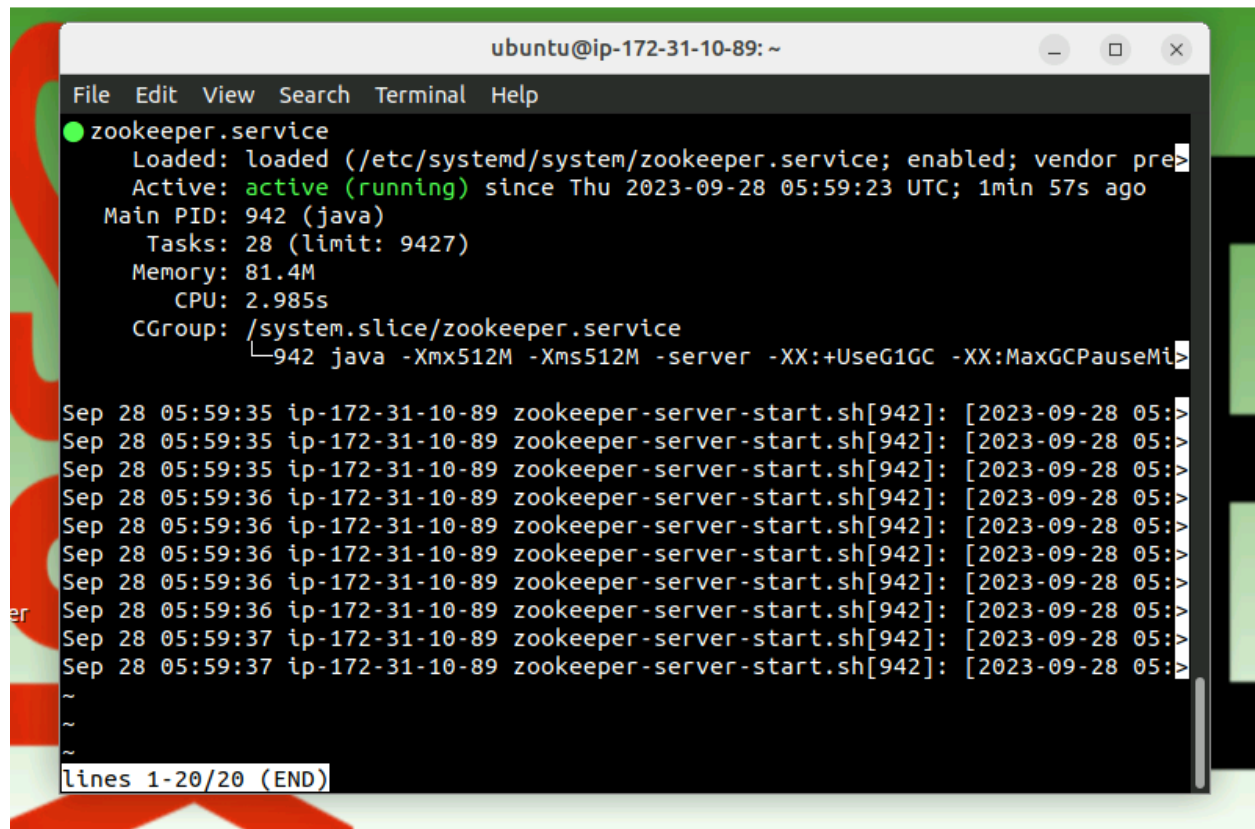


( **Kafka** ): Creating producer and consumer'.

Starting zookeeper service and checking status

1: Sudo systemctl start zookeeper

2: Sudo systemctl start zookeeper

A terminal window titled 'ubuntu@ip-172-31-10-89: ~' with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal displays the status of the 'zookeeper.service' as 'active (running)' since 05:59:23 UTC on 2023-09-28. It shows the main PID as 942 (java) and lists tasks, memory, and CPU usage. Below this, a series of log entries from 'zookeeper-server-start.sh[942]' are shown, all indicating a successful start at 05:59:35 and 05:59:36. The terminal ends with '~' characters and a 'lines 1-20/20 (END)' indicator.

```
ubuntu@ip-172-31-10-89: ~
File Edit View Search Terminal Help
● zookeeper.service
   Loaded: loaded (/etc/systemd/system/zookeeper.service; enabled; vendor pre>
   Active: active (running) since Thu 2023-09-28 05:59:23 UTC; 1min 57s ago
 Main PID: 942 (java)
    Tasks: 28 (limit: 9427)
   Memory: 81.4M
      CPU: 2.985s
   CGroup: /system.slice/zookeeper.service
           └─942 java -Xmx512M -Xms512M -server -XX:+UseG1GC -XX:MaxGCPauseMi>

Sep 28 05:59:35 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
Sep 28 05:59:35 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
Sep 28 05:59:35 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
Sep 28 05:59:36 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
Sep 28 05:59:36 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
Sep 28 05:59:36 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
Sep 28 05:59:36 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
Sep 28 05:59:36 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
Sep 28 05:59:37 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
Sep 28 05:59:37 ip-172-31-10-89 zookeeper-server-start.sh[942]: [2023-09-28 05:>
~
~
~
lines 1-20/20 (END)
```

**Starting kafka service and checking status**

1: Sudo systemctl start zookeeper

2: Sudo systemctl start zookeeper

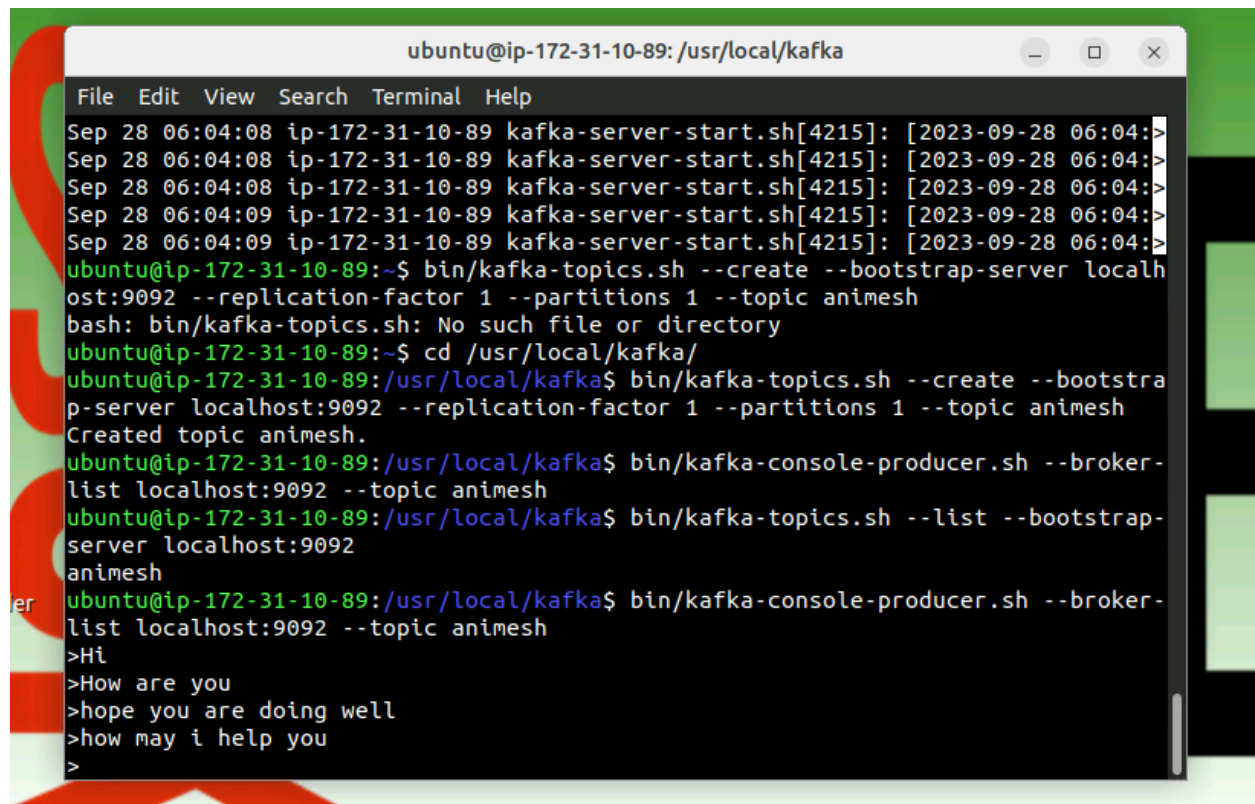
```
ubuntu@ip-172-31-10-89: ~  
File Edit View Search Terminal Help  
~  
ubuntu@ip-172-31-10-89:~$ sudo systemctl start kafka  
ubuntu@ip-172-31-10-89:~$ sudo systemctl status kafka  
● kafka.service  
   Loaded: loaded (/etc/systemd/system/kafka.service; disabled; vendor preset: enabled)  
   Active: active (running) since Thu 2023-09-28 06:04:01 UTC; 15s ago  
     Main PID: 4215 (java)  
       Tasks: 69 (limit: 9427)  
      Memory: 288.7M  
         CPU: 7.889s  
    CGroup: /system.slice/kafka.service  
            └─4215 /usr/lib/jvm/java-11-openjdk-amd64/bin/java -Xmx256M -Xms128M  
  
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO: Starting Kafka  
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO: Loading Kafka  
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO: Loading Kafka  
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO: Loading Kafka  
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO: Loading Kafka  
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO: Loading Kafka  
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO: Loading Kafka  
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO: Loading Kafka  
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09.000] INFO: Loading Kafka  
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09.000] INFO: Loading Kafka  
lines 1-20/20 (END)
```

Create topic:

```
ubuntu@ip-172-31-10-89: /usr/local/kafka
File Edit View Search Terminal Help
Tasks: 69 (limit: 9427)
Memory: 288.7M
CPU: 7.889s
CGroup: /system.slice/kafka.service
└─4215 /usr/lib/jvm/java-11-openjdk-amd64/bin/java -Xmx256M -Xms128M

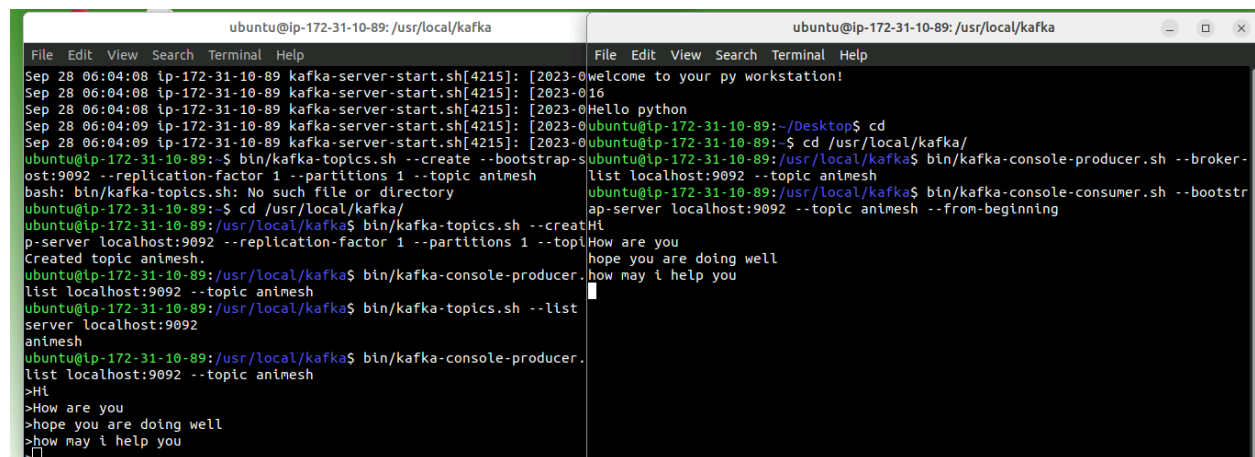
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO kafka.server.KafkaServer: Starting Kafka Server
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO kafka.server.KafkaServer: Starting Kafka Server
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO kafka.server.KafkaServer: Starting Kafka Server
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO kafka.server.KafkaServer: Starting Kafka Server
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO kafka.server.KafkaServer: Starting Kafka Server
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO kafka.server.KafkaServer: Starting Kafka Server
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08.000] INFO kafka.server.KafkaServer: Starting Kafka Server
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09.000] INFO kafka.server.KafkaServer: Starting Kafka Server
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09.000] INFO kafka.server.KafkaServer: Starting Kafka Server
ubuntu@ip-172-31-10-89:~$ bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 1 --partitions 1 --topic animesh
bash: bin/kafka-topics.sh: No such file or directory
ubuntu@ip-172-31-10-89:~$ cd /usr/local/kafka/
ubuntu@ip-172-31-10-89:/usr/local/kafka$ bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 1 --partitions 1 --topic animesh
Created topic animesh.
ubuntu@ip-172-31-10-89:/usr/local/kafka$
```

## Checking topic List and start producer:



```
ubuntu@ip-172-31-10-89: /usr/local/kafka
File Edit View Search Terminal Help
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08]
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08]
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08]
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09]
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09]
ubuntu@ip-172-31-10-89:~$ bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 1 --partitions 1 --topic animesh
bash: bin/kafka-topics.sh: No such file or directory
ubuntu@ip-172-31-10-89:~$ cd /usr/local/kafka/
ubuntu@ip-172-31-10-89: /usr/local/kafka$ bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 1 --partitions 1 --topic animesh
Created topic animesh.
ubuntu@ip-172-31-10-89: /usr/local/kafka$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic animesh
ubuntu@ip-172-31-10-89: /usr/local/kafka$ bin/kafka-topics.sh --list --bootstrap-server localhost:9092
animesh
ubuntu@ip-172-31-10-89: /usr/local/kafka$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic animesh
>Hi
>How are you
>hope you are doing well
>how may i help you
>
```

## Consumer screen 👍



```
ubuntu@ip-172-31-10-89: /usr/local/kafka
File Edit View Search Terminal Help
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08]
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08]
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08]
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09]
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09]
ubuntu@ip-172-31-10-89:~$ bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 1 --partitions 1 --topic animesh
bash: bin/kafka-topics.sh: No such file or directory
ubuntu@ip-172-31-10-89:~$ cd /usr/local/kafka/
ubuntu@ip-172-31-10-89: /usr/local/kafka$ bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 1 --partitions 1 --topic animesh
Created topic animesh.
ubuntu@ip-172-31-10-89: /usr/local/kafka$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic animesh
>Hi
>How are you
>hope you are doing well
>how may i help you
>
```

```
ubuntu@ip-172-31-10-89: /usr/local/kafka
File Edit View Search Terminal Help
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08]
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08]
Sep 28 06:04:08 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:08]
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09]
Sep 28 06:04:09 ip-172-31-10-89 kafka-server-start.sh[4215]: [2023-09-28 06:04:09]
ubuntu@ip-172-31-10-89:~$ bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 1 --partitions 1 --topic animesh
bash: bin/kafka-topics.sh: No such file or directory
ubuntu@ip-172-31-10-89:~$ cd /usr/local/kafka/
ubuntu@ip-172-31-10-89: /usr/local/kafka$ bin/kafka-topics.sh --create --bootstrap-server localhost:9092 --replication-factor 1 --partitions 1 --topic animesh
Created topic animesh.
ubuntu@ip-172-31-10-89: /usr/local/kafka$ bin/kafka-console-producer.sh --broker-list localhost:9092 --topic animesh
>Hi
>How are you
>hope you are doing well
>how may i help you
>
```