## Kafka Setup

### **Prerequisites:**

- Java-8 needs to be installed
- Zookeeper Setup Zookeeper setup
- Check with leads, whether to keep the Kafka data on boot(root, os) disk or on secondary(data) disks
- If Kafka data to be kept on a secondary disk,
  - \* then create new data disks through cloud console UI, (note down the new disk, it could be /dev/sdb or /dev/sdc)
  - \* Create ext4 filesystem on the new disk

mkfs.ext4 / dev/sdc (here as an example the disk device is /dev/sdc , please check with the new disk device accordingly to the environment/cloud )

\* Create a new directory where new data disks will get mounted

mkdir /data/1/

mount /dev/sdc /data/1/

#### Ansible run:

- · Login to VM where ansible-playbooks are placed
- Change the current working directory to ansible-playbook

[centos@ip-10-0-0-68 playbook]\$ pwd
/home/argoid-automation/playbook
[centos@ip-10-0-0-68 playbook]\$

Modify kafka inventory IP addresses (accordingly to the environment IP addresses) in inventory/env\_name.ini file
 Note: Do not use env\_name.ini as an inventory name in your case, here it is shown just for example purpose, in your case name of the inventory file will be different

# [mr\_history\_server:vars] jobhistory\_web\_port=19888

## [kafka]

10.0.0.50

10.0.0. L

10.0.0.3

[kafka:vars]

kafka\_data\_dir=/data/1/kafka-logs/

kafka\_port=9092

kafka\_jmx\_port=39321

kafka\_heap\_size=1G

## kafka manager]

- Kafka data will be placed in the path mentioned with key kafka\_data\_dir in an inventory file (in this example, it's a /data/1/kafka-logs/)
- Ansible run

  ansible-playbook -i inventory/env\_name.ini kafka.yml --private-key=files/common/id\_rsa -tags=cluster\_setup

### Manual Steps:

• Add host mappings in each Kafka server and client VM(/etc/hosts)

```
[centos@ip-10-0-0-39 ~]$ cat /etc/hosts

127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1 localhost localhost.localdomain localhost6 localhost6.localdomain6

10.0.0.50 ip-10-0-0-50 ap-south-1.compute.internal

10.0.0.30 ip-10-0-0-1 3.ap-south-1.compute.internal

10.0.0.40 ip-10-0-0-40 ap-south-1.compute.internal

10.0.0.175 ip-10-0-0-1 5.ap-south-1.compute.internal

10.0.0.170 ip-10-0-0-1 0.ap-south-1.compute.internal

10.0.0.54 ip-10-0-0-5 ap-south-1.compute.internal

10.0.0.209 ip-10-0-0-2 9.ap-south-1.compute.internal

10.0.0.32 ip-10-0-0-3 .ap-south-1.compute.internal

10.0.0.47 ip-10-0-0-3 .ap-south-1.compute.internal

10.0.0.32 ip-10-0-0-3 .ap-south-1.compute.internal

10.0.0.47 ip-10-0-0-4 7.ap-south-1.compute.internal

10.0.0.47 ip-10-0-0-1 50.ap-south-1.compute.internal

10.0.0.47 ip-10-0-0-3 .ap-south-1.compute.internal

10.0.0.47 ip-10-0-0-3 .ap-south-1.compute.internal

10.0.0.48 ip-10-0-0-1 50.ap-south-1.compute.internal
```

• Increase socket.send.buffer.bytes socket.receive.buffer.bytes socket.request.max.bytes in /etc/kafka/conf /server.properties file

```
#advertised.port=<port accessible by clients>
advertised.listeners=PLAINTEXT://ip-10-0-0-50.ap-south-1.compute.internal:9092
# The number of threads handling network requests
num.network.threads=10
# The number of threads doing disk I/O
num.io.threads=15
# The send buffer (SO_SNDBUF) used by the socket server
#socket.send.buffer.bytes=10240
socket.send.buffer.bytes=1024000
# The receive buffer (SO_RCVBUF) used by the socket server
#socket.receive.buffer.bytes=10240
socket.receive.buffer.bytes=1024000
# The maximum size of a request that the socket server will accept (protection against 00M)
#socket.request.max.bytes=102485
socket.request.max.bytes=10248500
```

Restart kafka-server

sudo systemctl restart kafka-server