

Documentation for Kafka Setup in MicroK8s Cluster

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Install helm
add helm repo of bitnami
install different version of kafka using below command

```
helm -n kafka upgrade --install kafka-release bitnami/kafka --create-namespace --set
persistence.size=8Gi,logPersistence.size=8Gi,volumePermissions.enabled=true,persistence.enabled=true
,rbac.create=true --version 23.0.7 -f kafka-values.yaml
```

Before this Create kafka-values.yaml file which consists of correct configurations for using zookeeper with the kafka brokers setup and turned off KRAFT mode without using any SASL.

```
image:
  debug: true
  replicaCount: 3
  tolerations:
    - key: "node-role.kubernetes.io/control-plane"
      operator: "Equal"
      value: ""
      effect: "NoSchedule"
  externalAccess:
    enabled: false
  autoDiscovery:
    enabled: true
  kraft:
    enabled: false
  extraEnvVars:
    - name: KAFKA_ENABLE_KRAFT
      value: "false"
  zookeeper:
    enabled: true
    replicaCount: 3
```

then go into one of the broker using

➔ `kubectrl exec --tty -i kafka-release-2 --namespace kafka -- bash`

and create the topic using

➔ `kafka-topics.sh --create --topic test1 --bootstrap-server kafka-release.kafka.svc.cluster.local:9092`

then run the kafka-console-producer.sh for creating the message into the newly created topic.

➔ `kafka-console-producer.sh --broker-list kafka-release-2.kafka-release-headless.kafka.svc.cluster.local:9092,kafka-release-1.kafka-release-headless.kafka.svc.cluster.local:9092,kafka-release-0.kafka-release-headless.kafka.svc.cluster.local:9092 --topic test1`

and type the messages into it then go to the new terminal or enter into any broker now and run the kafka-console-consumer.sh to consume those messages.

➔ `kafka-console-consumer.sh --bootstrap-server localhost:9092 --topic test1 -- from-beginning`

