Documentation :

In order to deploy Kafka Cluster with 3 brokers on Kubernetes, we used ansible to setup a cloud9 IDE :

Prequeristis :

1. Install python
2. Install aws cli
3. Install ansible 4.0.0

Configure aws credentials :

1. Create new aws credentials https://console.aws.amazon.com/iam/home#/security\_credential
2. Run : aws configure

Creating cloud9 ide :

1. Run : ansible-playbook cloud9.yml
2. Wait until the ide is UP
3. Open the ide via the url and **disable AWS managed temporary credentials** (via Preference => Aws Settings)

Creating kubernetes cluster with Kafka :

1. Run : ansible-playbook run-cluster.yml

To Test the container :

1. Run kubectl get pods & copy the broker name
2. Run kubectl get svc & copy the broker service name & zookeeper service name

* List topics: kubectl exec -ti k8kafka-kafka-0 -- kafka-topics --zookeeper k8kafka-zookeeper:2181 --list
* Produce to test topic : kubectl exec -ti k8kafka-kafka-0 -- kafka-console-producer --broker-list k8kafka-kafka:9092 --topic test
* Consume from test topic: kubectl exec -ti k8kafka-kafka-0 -- kafka-console-consumer --topic test --bootstrap-server k8kafka-kafka:9092 --from-beginning