Kafka and Spark Infrastructure as code:

1. kafka
2. Run *docker-compose up -d*

(For configurations in enterprise setup all the default values in environment tag and image tag should be changed as per enterprise setup)

1. Run *docker-compose ps*

If services are not up then rerun *docker-compose up -d* again.

1. Create Topic:
   1. Go to <http://localhost:9021> (control-center port is 9021 in docker-compose)
   2. Click the controlcenter.cluster tile.
   3. Go to topics tab
   4. Run topic/setup.sh (no environment created yet but can be created in enterprise setup)
   5. Run run.sh

To deploy kafka to Azure cloud:

Make changes to Kafka/docker-compose.yaml as below:

Add Azure container registry path to docker image (instructions below):

[https://docs.microsoft.com/en-us/azure/container-instances/tutorial-docker-compose](https://docs.microsoft.com/en-us/azure/container-instances/tutorial-docker-composee)

1. Perform Azure acr login *az acr login --name <acrName>*
2. Add the azure path to image name in docker compose -> *<acrName>.azurecr.io/property-kafka:0.0.1*
3. Push docker images to cloud -> docker-compose push
4. Spark:
5. Go to spark folder
6. Run *sh images.sh*
7. Run *docker-compose up*
8. Check master and workers are running:

*Spark Master: http://10.5.0.2:8080/*

*Spark Worker 1: http://10.5.0.3:8081/*

*Spark Worker 1: http://10.5.0.4:8081/*

*Spark Worker 1: http://10.5.0.5:8081/*