

Title: Access Kafka in Remote Host by IP Address running with Docker-Compose and Spring Boot

Post Body:

I have this docker-compose.yml in which I run **Zookeeper**, **Kafka**, **Kafka Connect**, and **KafDrop**, the thing is, when I run locally I can connect from my **Spring Boot** application to consume some topic messages.

What I need is to run the same configuration on a Linux machine and be able to connect from the Spring Boot application the same way.

When run it remotely on the Linux machine everything seems to be running Ok, but when I try to connect from the Spring Boot application I receive some erros showing that somethin is wrong in the connection.

I will try to explain step by step and see if someone can give a "light" on that:

docker-compose.yml:

```
version: '3'
services:
  zookeeper:
    image: confluentinc/cp-zookeeper:latest
    networks:
      - broker-kafka
    ports:
```

What I need is to expose to my network this IP machine to be accessed by my Spring Boot application. Let's suppose this Linux machine has the IP 10.12.54.99. How can I make it Kafka be accessible by: 10.12.54.99:9090 ?

Here is my application.properties:

```
spring.kafka.bootstrap-servers=10.12.54.99:9092
spring.kafka.producer.key-serializer=org.apache.kafka.common.serialization.StringSerializer
```

This is a only consumer-specif application (no producers are used here).

When I run the application:

```
2020-12-07 10:59:40.361 WARN 58716 --- [ntainer#0-0-C-1] org.apache.kafka.clients.NetworkClient : [Consumer clientId=consum
```

All the firewall ports are enabled in the Linux firewall machie.

Any enlightenment would be very much appreciated.

Accepted Answer: None

Highest Rated Answer:

You need to bind your server's public ip in order to be able to access brokers remotely. However if you don't want to hardcode the ip, you can use .env file.

Do the following:

Create config.env file.

Add this line in config.env and add your host ip as below:

```
DOCKER_HOST_IP=111.111.111.111
```

Update your docker-compose:

```
version: '3'
services:
  zookeeper:
    image: confluentinc/cp-zookeeper:latest
    networks:
      - broker-kafka
    ports:
```

It will bind to 127.0.0.1, if DOCKER\_HOST\_IP is not found.

4. Run the following command:

```
sudo docker-compose -f path-to-docker-compose.yml --env-file path-to-config.env up -d --force-recreate
```