Title: Environment variables and @Value can't work together on Spring Boot Post Body:

I have a Spring boot app that connects to a Redis instance that works as a cache. When I'm in dev environment, I have the following:

```
--- spring: profiles: default redis: host: localhost port: 6379
```

And my cache configuration class is like this:

In production, this app is Dockerized, and I have the following docker-compose.yml file:

```
redis: image: tutum/redis ports: - '6379:6379' volumes: - /data app: build: . ports: - '8080:8080'
```

Caused by: org.springframework.beans.factory.BeanCreationException: Could not autowire field: private int com.inkdrop.config.c

And the application.yml is:

```
--- spring: profiles: docker redis: host: redis port: 6379
```

To start the app on Docker, I run with -Dspring.profiles.active=docker, but when the app is starting up, the following error happens:

```
For come reason. Spring Poet is reading the modile, mark on home //172, 17, 0, 2:6370. So for toots proposed, I removed the extelluse appointment from
```

For some reason, Spring Boot is reading the redis.port as tcp://172.17.0.3:6379. So for tests proposes, I removed the @Value annotations from CacheConfiguration class, and set it manually to redis as host and 6379 as port and it worked. Seems like when using environment variables and @Value, Spring get lost. Anyone have an idea?

Accepted Answer:

Based on the **Docker documentation**:

Compose uses Docker links to expose services containers to one another. Each linked container injects a set of environment variables, **each of which** begins with the uppercase name of the container.

Docker Compose would create an Environment Variable representing the *Full URL* of the container using *name_PORT* format, e.g. REDIS_PORT=tcp://172.17.0.5:6379.

And based on your docker-compose.yml file:

```
redis: image: tutum/redis ports: - '6379:6379' volumes: - /data
```

You would have an Environment Variable named REDIS_PORT with a value equals to tcp://172.17.0.3:6379.Since OS environment variables have more precedence with respect to Profile-specific application properties, Spring Boot would pick up the REDIS_PORT value over redis.port, hence the error:

Caused by: org.springframework.beans.factory.BeanCreationException: Could not autowire field: private int com.inkdrop.config.cache.CacheConfiguration.redisPort; nested exception is org.springframework.beans.TypeMismatchException: Failed to convert value of type [java.lang.String] to required type [int]; nested exception is java.lang.NumberFormatException: For input string: 'tcp://172.17.0.3:6379'

As a workaround for this problem, you either should override the REDIS_PORT environment variable with your port value or rename your config name from redis.name to anything less controversial.

Kinda off topic but just quoting from tutum-docker-redis Github repository:

This image will be deprecated soon. Please use the docker official image: https://hub.docker.com/_/redis/

Highest Rated Answer: None