**Docker Database connection with External MySQL**

**Prerequisites:**

1. Docker installation – machine1
2. MySQL installation – machine2

**Steps:**

1. Configure MySQL database to allow connection from all IPs.

To enable this, edit the bind-address part in **/etc/mysql/mysql.conf.d/mysqld.cnf** fileas shown below.

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| **bind-address = 0.0.0.0** |

1. Restart the MySQL server.

Now MySQL server is configured to allow access from all IPs.

1. Now create the data base in the MySQL server and give GRANT privilege.

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| **create database dojdb;** |





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| **GRANT ALL PRIVILEGES ON \*.\* TO 'root'@'<host\_ip>' IDENTIFIED BY '<root\_password>' WITH GRANT OPTION;** |

Where host\_ip is the IP of the machine where docker application is running (machine1) and root\_password is the password of the MySQL server.

1. Configure the springboot application to connect to the MySQL server running in machine2. Edit the application.properties file of the application in machine1.

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| **spring.datasource.url = jdbc:mysql://54.144.52.182:3306/dojdb**  **spring.datasource.username = root**  **spring.datasource.password = Hindustan@123**  **spring.datasource.testWhileIdle = true**  **spring.datasource.validationQuery = SELECT 1**  **# Show or not log for each sql query**  **spring.jpa.show-sql = true**  **spring.jpa.hibernate.ddl-auto = create**  **spring.jpa.hibernate.naming-strategy = org.hibernate.cfg.ImprovedNamingStrategy**  **spring.jpa.properties.hibernate.dialect = org.hibernate.dialect.MySQL5Dialect**  **server.port = 8181** |

1. Convert the application to docker image, here we haven maven plugin for docker image conversion. Just build the maven application.

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| **mvn clean install -DskipTests** |

Check whether maven build is successful.



1. Run our docker application.

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| **docker run –p 8181:8181 springdb** |



1. Check your connection by connecting to the application.

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| **curl http://<machine1\_ip>:8181/booking/create** |

