**DevOps Challenge**

Steps/Instructions to run along with Dependencies

# Set Up Prerequisites

1. CentOs must be machine where we are going to install weblogic, and deploy the application
2. Java 1.6 or above must be installed in this machine
3. MySql server has to be installed with the username = root and password = root [ Application Dependencies ]
4. Create a test schema with the table employee which has the following fields
   1. EMP\_ID -> Int(11) , Primary Key, Not Null and Auto Increment
   2. FIRSTNAME -> Varchar(45)
   3. LASTNAME -> Varchar(45)
   4. ADDRESS -> Varchar(45)
   5. MOBILE -> Varchar(10)
   6. EMAILID -> Varchar(45)
5. The system should have the static IP address as 192.168.0.1

# Installing WebLogic

**Instructions to run WebLogic:**

1. Copy all the scripts from github to the local directory
2. Run setJavaHome.sh with the following arguments <path until Java JDK bin path>
   1. ./setJavaHome.sh </root/Desktop/jdk1.8.0.91>
3. Run setJavaPath.sh with no arguments
   1. ./setJavaPath.sh
4. Run the following scrip to install Weblogic with the following arguments <path to weblogic.jar> <path to silent.xml> <path to generate a log file>
   1. ./installWeblogic.sh weblogic.jar silent.xml /root/Desktop/wls.log

**Check whether Installation is successful:**

1. Go to “/home/oracle/Oracle/Middleware” and a folder by name wlserver10.3 should be created

# Create WebLogic domain, Managed Servers and Clusters

**Instructions to run the script:**

1. Run the script setWLHOME.sh with no arguments
   1. ./setWLHOME.sh
2. Run the script setClassPath.sh with no arguments
   1. ./setClassPath.sh
3. Run the script “createDomain.sh” with the following arguments <path to createDomain.py>
   1. ./createDomain.sh <path to createDomain.py>

**Check if the Domains are created properly:**

1. Go to “/home/oracle/Oracle/Middleware/user\_projects/domains/TPDomain” this structure would be created.

# Deploying the Application

**Instructions to Deploy the Application:**

1. Run the script “deployApp.sh” script with the following arguments <path to deployApp.py script> <path to EmpApp.ear application>
   1. ./deployApp.sh <path to deployApp.py> <path to EmpApp.ear>

**To check if the application is deployed:**

1. Go to internet browser and access the following links to check the deployed application

**Links:**

1. <http://192.168.0.1:11000/EmployeeApp>
2. <http://192.168.0.1:12000/EmployeeApp>
3. <http://192.168.0.1:11000/EmployeeApp/index.jsp>
4. http://192.168.0.1:12000/EmployeeApp/index.jsp

If 404 error is occurring while accessing the site, kindly restart all the servers using restart.sh script