**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
6. Copy all the files from all folders and place them in /root/Desktop

# Installing WebLogic

**Prerequisites:**

1. Open .bash\_profile file
2. Enter the following lines in .bash\_profile file
   1. Export JAVA\_HOME=<java\_home\_path>
   2. Export PATH=$PATH:$JAVA\_HOME/bin
3. Run the command “su – “ to make the changes effective

**Instructions to run WebLogic:**

1. Copy the weblogic1036\_generic.jar in /root/Desktop/
2. Copy the silent.xml file in /root/Desktop/silent.xml
3. Run the following scrip to install Weblogic
   1. ./installWeblogic.sh

**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. Open the .bash\_profile file and add the following lines
   1. Export WL\_HOME=/home/oracle/Oracle/Middleware/wlserver10.3
   2. Export CLASSPATH=$WL\_HOME/server/lib/weblogic.jar:.
2. Run the command “su –“ to make the changes effective
3. Copy the createDomain.py file to /root/Desktop/createDomain.py
4. Run the script “createDomain.sh” with the following arguments
   1. ./createDomain.sh

**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. Copy the deployApp.py script to /root/Desktop/deployApp.py
2. Copy the application ear to /root/Desktop/EmpApp.ear
3. Run the script “deployApp.sh” script
   1. ./deployApp.sh

**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