**AUTOMATED STORE REPLENISHMENT USING DISTRIBUTED OBJECTS**

**INSTALLATION AND CONFIGURATION DOCUMENT**

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# INSTALLATION

Please follow the below steps to install and configure the project

## How to deploy and run the application

1. Install Apache Tomcat
2. Install JDK 1.6 or later
3. Deploy the `WAR` file in tomcat. You can deploy by pasting the `WAR` file inside the `webapps` folder in tomcat.
4. Run the application using the URL <http://localhost:8080/autorep>
5. Login using **username – manager, password – manager**

**NOTE**: We have deployed the app in an Amazon EC2 Virtual Machine. It is globally accessible. You can access it using this URL - <http://54.172.105.21>. This URL will open the login page. You can login using the above-specified credentials.

# CONFIGURATION

## Database configuration

We have already hosted our MongoDB and MySQL servers in our EC2 VM, so you do not have to do any configuration for it.

You can access the MySQL database by using the following connection details,

**Hostname**: ec2-54-172-105-21.compute-1.amazonaws.com

**Port**: 3306

**Username**: drmark

**Password**: drmark

## Load balancer configuration

To make a load balancer you need access to a linux machine. Follow the below steps to configure the load balancer

**Installing Apache httpd server:**

1. Download apache httpd server from apache website.
2. You have to install apache httpd server and enable `rewrite` and `proxy` modules in shared mode. Install apache httpd server, use the following command, ./configure --prefix=/usr/local/apache --enable-rewrite=shared --enable-proxy=shared make sudo make install
3. You have to install mod\_jk connector, which is responsible for httpd – tomcat comunication. It can be downloaded from <http://tomcat.apache.org/download-connectors.cgi>Use the following command to install, Go to the native directory, ./configure --with-apxs=/usr/local/apache/bin/apxs make sudo make install
4. Now go to **/usr/local/apache/conf** path and create a file called `workers.properties`.
5. Configure worker info in that file, (Please refer to the demo video. This configuration information has been explained in it).
6. Configure httpd.config to use the load balancer (Please refer to the demo video. This configuration information has been explained in it).
7. Access the application using the load balancer IP. You can use <http://localhost/autorep> if you are running the app from the linux machine.