Application Setup

1. Install CentOS 7 x64 on a computer

* Visit <https://www.centos.org/download/> to download

1. Adjust root user credentials by changing the password

* Use the following command to change the password: $ sudo passwd

1. Install Java

* Use the following command to install Java version 8 : yum install -y java-1.8.0 wget

1. Create a separate user that will perform the startup and shutdown of the Tomcat EE service

* Use the following command to create the user group: groupadd tomee
* Assign the permissions/privileges for this user:

useradd -g tomee -d /opt/tomee -s /bin/nologin tome

1. Download Tomcat EE

* Use the following command to Download Tomcat EE:

wget <https://www-eu.apache.org/dist/tomee/tomee-8.0.0-M2/apache-tomee-8.0.0-M2-plume.tar.gz>

1. Extract and move Tomcat EE to the appropriate directory

* Use the following command to extract the downloaded file:

tar -zxvf apache-tomee-8.0.0-M2-plume.tar.gz

* Use the following command to move the download file:

mv apache-tomee-plume-8.0.0-M2/ /opt/tomee/

1. Change ownership of tome directory to the user tomee

* Use the following command to change ownership:

chown -R tomee:tomee /opt/tomee/

1. Extract file again (needed for second Tomcat EE instance)

* Use the following command to extract the downloaded file:

tar -zxvf apache-tomee-8.0.0-M2-plume.tar.gz

* Use the following command to rename the extracted file :

mv apache-tomee-plume-8.0.0-M2/ apache-tomee-plume-8.0.0-M2-2/

* Use the following command to move the download file:

mv apache-tomee-plume-8.0.0-M2-2/ /opt/tomee/

1. Perform the following configuration for the first server instance

* Navigate to the conf folder of the first server by using the following commands:

cd //

cd opt/tome/apache-tomee-plume-8.0.0-M2/conf/

* Open the tomee.xml file by using the following command

vi tomee.xml

* Uncomment the following line:

<Deployments dir="apps" />

* Save changes by using the following keystrokes

Press escape then type :wq and then press enter

* Create the directory apps by using the following command

cd //

cd opt/tome/ apache-tomee-plume-8.0.0-M2

mkdir apps

1. Perform the following configuration for the second server instance

* Navigate to the conf folder of the first server by using the following commands:

cd //

cd opt/tome/apache-tomee-plume-8.0.0-M2-2/conf/

* Open the server.xml file by using the following command:

vi server.xml

* Change the following ports

Shutdown port : Change from port=”8005” to port=”8006”

Connector protocol HTTP port : Change from port=”8080” to port=”8081”

Connector protocol AJP port: Change from port=”8009” to port=”8010”

and Change redirectPort =”8443” to port=”8444”

* Save changes by using the following keystrokes

Press escape then type :wq and then press enter

1. Start both server instances

* Navigate to the bin folder of the first server by using the following commands:

cd //

cd opt/tome/apache-tomee-plume-8.0.0-M2/bin

* Start first server instance by using the following command:

sh startup.sh

* Navigate to the bin folder of the second server by using the following commands:

cd //

cd opt/tome/apache-tomee-plume-8.0.0-M2-2/bin

* Start first server instance by using the following command:

sh startup.sh

1. Deploy the ear (simplefoodsolutions-ear-1.0-SNAPSHOT) and war (recipesearchapi) files by using a FTP client

* Deploy the ear (simplefoodsolutions-ear-1.0-SNAPSHOT) file by copying it to the following location

opt/tome/ apache-tomee-plume-8.0.0-M2/apps/

* Deploy the war (recipesearchapi) file by copying it to the following location

opt/tome/ apache-tomee-plume-8.0.0-M2-2/webapp