

At least 2 Systems connected via LAN with following Softwares are required:

1. Java - 1.8
2. Tomcat - 9.0
3. Eclipse

Please follow below steps for each systems:

1. Importing the each component as project in Eclipse:
 - a. Import LoadBalancerService, WebRegistry and Client as project.
 - b. Import each service from the Services folder as project.
2. Creating Tomcat Servers:
 - a. Create a server for WebRegistry, LoadBalancerService and 2 more for running the different set of services.
 - b. Make sure that each server is configured with different port number.
3. Configuring the component:
 - a. change the "registries" entry in the WebRegistry/WebContent/WEB-INF/classes/registry.properties. The value for the "registries" entry should be the IP address of each system and port number on which the Tomcat of WebRegistry will run.
 - b. Similarly copy paste the above entry to the LoadBalancerService/WebContent/WEB-INF/classes/registry.properties
 - c. Configure the each service by changing the Service-NameWS/WebContent/WEB-INF/classes/config.properties. In this file first entry refers to the registries available mention ip and port for the same. second entry refers to the IP and port of tomcat on which this service will be deployed.
4. Deploying the Component and Services:
 - a. Deploy the WebRegistry and LoadBalancerService on the different Tomcat server.
 - b. After deploying the Registry and LoadBalancer deploy the services on other two server in any order and combination.
 - c. make sure the port and IP configured for each component should match with the server on which they are getting deployed.
5. Running the Client:
 - a. goto ClientDemo.java file present in the Client Project.
 - b. Run the file as java application
 - c. The client should show you the available web services that are available to you.

