Notes

Date:

Sequence of Execution:

1) Request manager sends algorithm execution request to the deployer.

2) Deployer asks for runtime IP, Port from Loadbalancer.

3) Load balancer sends IP, Port of runtime to Deployer.

4) Deployer sends deploy request to runtime with algo name.

5) Runtime downloads all files of that algorithm like it logic, its manifest. Runtime will start a new container. If there are no previously running containers, else it will find the container with minimum load.

6) Runtime copies all the files to container, install all dependencies & returns the status of deployment to deployer.

Date:

7) On succesfull deployment deployer sends algo-id, algo_name, params, runtime ip, port, & scheduling info to the scheduler. With this deployment phase is over.

8) Scheduler based on scheduling info sends execution request to that particular runtime with a given algo id, algo_name, params.

9) Runtime upon reciving execution request finds the container in which algo is deployed & sends a algorithm execution command to the container.

10) Algorithm upon finishing execution ~~algo~~ sends o/p / trigger to action notification.

11) Action/Notif can either raise an alert, or save the o/p to the common database, which is json current in our case.

12) Request Manager will read the o/p from the db & display the o/p.

Flow chart