# Running LSGi Jobs

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# Overview.

This document describes the script in order to launch LSGi jobs from command line. LSGi engine has configuration rules in order to successfully execute the job in single or multiple computing nodes, before continue with this document review the document of the job configuration. The following section describes the usage of the script to run a job.

# Running a LSGi Job

In order to run a job, the LSGi package includes a folder named “demo/inference”. This folder includes a set of scripts that allow run inference jobs, track or kill them.

Despite there are several related scripts customized to specific dataset, the main script to run the inference over multiple dataset and nodes is:

**launchMultiNodeDemo.sh:**

@Description:  
Launch processes in each node listed on hostfile. The script connects to the nodes via ssh and run the inference program in each of them. The script also launch the query service that will retrieve states information for the query client.

@Params:   
<N> Number of process to launch (MAX)  
<dataset> Dataset path to run.  
<port> QueryService TCPI/IP port for accepting query request. (Optional, default 58000)

@Requirements:  
1. Make sure 'hosts' file is updated with the list (name or IP) of connected nodes.  
2. Make sure the dataset file has the related files require to run: binary graph, labels and partitions. See document of ConfigurationOfLSGi.docs.

@How to run it:

Command line: ./launchMultiNodeDemo.sh <N> <dataset> <port>

For example:

1. Using default QS port:

./launchMultiNodeDemo.sh 2 ../../data/inputGraphs/dns\_graph.alchemy.factors.bin

This line runs 2 nodes for the dns\_graph.alchemy.factors.bin. The query service for this dataset will start at default port.(58000)

1. Using custom QS port:

./launchMultiNodeDemo.sh 2 ../../data/inputGraphs/dns\_graph.alchemy.factors.bin 580003

This line runs 2 nodes for the dns\_graph.alchemy.factors.bin. The query service will start at the port 58000.

Note.

1. The script has another variable to define if the shared states will be stored on /dev/shm or /lfs/ or other file system. The default file system is /lfs/. To change the location of shared states, update the script in the variable $SharedFileSystem.
2. For other scripts like job status, kill job or check progress, you can see how the scripts headers which include the description and how to run it.