

The scheduler will receive the scheduling information in json/xml format to get scheduling related metadata after the application is being accepted by Application Manager. For our platform users can specify this through both UI or upload configuration file.

Configuration file should contain following meta-information:

1. **Userid:** unique user id for the user.
2. **Applicationid:** unique id of the application of that user.
3. **Priority:** This will specify if the algorithm is computation intensive or requires a high amount of resources.
 - a. If specified “high” the algorithm will run on a single node.
 - b. If specified “low”(default) the algorithm will run on shared nodes.
4. **Dependencies:** Will specify the dependencies that must be run before running the algorithm strictly in the order they are required in. Scheduler will schedule the dependencies in the same order specified & then will schedule the algorithm.
5. **Jobtype:** This will be used by the scheduler to understand how to schedule the algorithm. Two choices are cron & single:
 - a. If specified as a cron job scheduler will schedule it at periodic intervals.
 - i. Application Deployer can specify day/days at which the algorithm will be scheduled.
 - ii. Also start time(in 24 hours format) and duration for which it should run(in minutes) will be specified.
 - b. If specified as immediate instance user have two choices:
 - i. If no start time given the scheduler will immediately schedule it to execution for the time duration specified.
 - ii. If given a start time scheduler will schedule it at the given time for the time duration specified.